FEEDER SIZE SCHEDULE (COPPER CONDUCTORS)

FEEDER SYMBOL	CONDUCTORS (1 PHASE, 3 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	CONDUCTORS (3 PHASE, 4 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING
① ②	3#6 & 1#10G.	3/4"	4#6 & 1#10G.	1"	60
③ ④	3#4 & 1#8G.	1"	4#4 & 1#8G.	1 1/4"	70
⑤ ⑥	3#3 & 1#8G.	1 1/4"	4#3 & 1#8G.	1 1/4"	100
⑦ ⑧	3#1 & 1#6G.	1 1/2"	4#1 & 1#6G.	1 1/2"	125
⑨ ⑩	3#1/0 & 1#6G.	1 1/2"	4#1/0 & 1#6G.	2"	150
⑪ ⑫	3#2/0 & 1#6G.	1 1/2"	4#2/0 & 1#6G.	2"	175
⑬ ⑭	3#3/0 & 1#6G.	2"	4#3/0 & 1#6G.	2"	200
⑮ ⑯	3#4/0 & 1#4G.	2 1/2"	4#4/0 & 1#4G.	2 1/2"	225
⑰ ⑱	3-250 MCM & 1#4G.	2 1/2"	4-250 MCM & 1#4G.	3"	250
⑲ ⑳	3-350 MCM & 1#4G.	3"	4-350 MCM & 1#4G.	3"	300
㉑ ㉒	3-500 MCM & 1#3G.	3"	4-500 MCM & 1#3G.	4"	350
㉓ ㉔	3-500 MCM & 1#3G.	3 1/2"	4-500 MCM & 1#3G.	4"	400
㉕ ㉖	6-250 MCM & 2#2G.	2-2 1/2"	8-250 MCM & 2#2G.	2-3"	500
㉗ ㉘	6-350 MCM & 2#1G.	2-3"	8-350 MCM & 2#1G.	2-3"	600
㉙ ㉚	6-600 MCM & 2#1/0G.	2-3 1/2"	8-600 MCM & 2#1/0G.	2-4"	800

APARTMENT LOAD CENTER (TYPICAL OF 40)
100AMP 120/208V,1Ø,3W

INTERRUPTING CAPACITY: 10KAIC RMS SYM
MAIN: 100 AMP M.L.O.
NORMAL BRANCH MOUNTING: RECESSED

LOAD DESCRIPTION	CB / PHASE	CIR. NO.	PHASE	CIR. NO.	CB / PHASE	LOAD DESCRIPTION
* BEDROOM	20/1	1	A	2	50 / 2	ELECTRIC RANGE
* BEDROOM	20/1	3	B	4		
* BEDROOM LIGHTING	20/1	5	A	6	20/1	REFRIGERATOR RECEPTACLE
BATHROOM	20/1	7	B	8	20/1	KITCHEN RECEPTACLE
A.C. RECEPTACLE	20/1	9	A	10	20/1	KITCHEN RECEPTACLE
LIVING RECEPTACLE	20/1	11	B	12	20/1	DISPOSER RECEPTACLE 8
LIVING RECEPTACLE	20/1	13	A	14	20/1	DISHWASHER RECEPTACLE 8
LIVING LIGHTING	20/1	15	B	16	20/1	SPARE
* SMOKE DETECTORS	20/1	17	A	18	–	SPACE
SPACE	–	19	B	20	–	SPACE

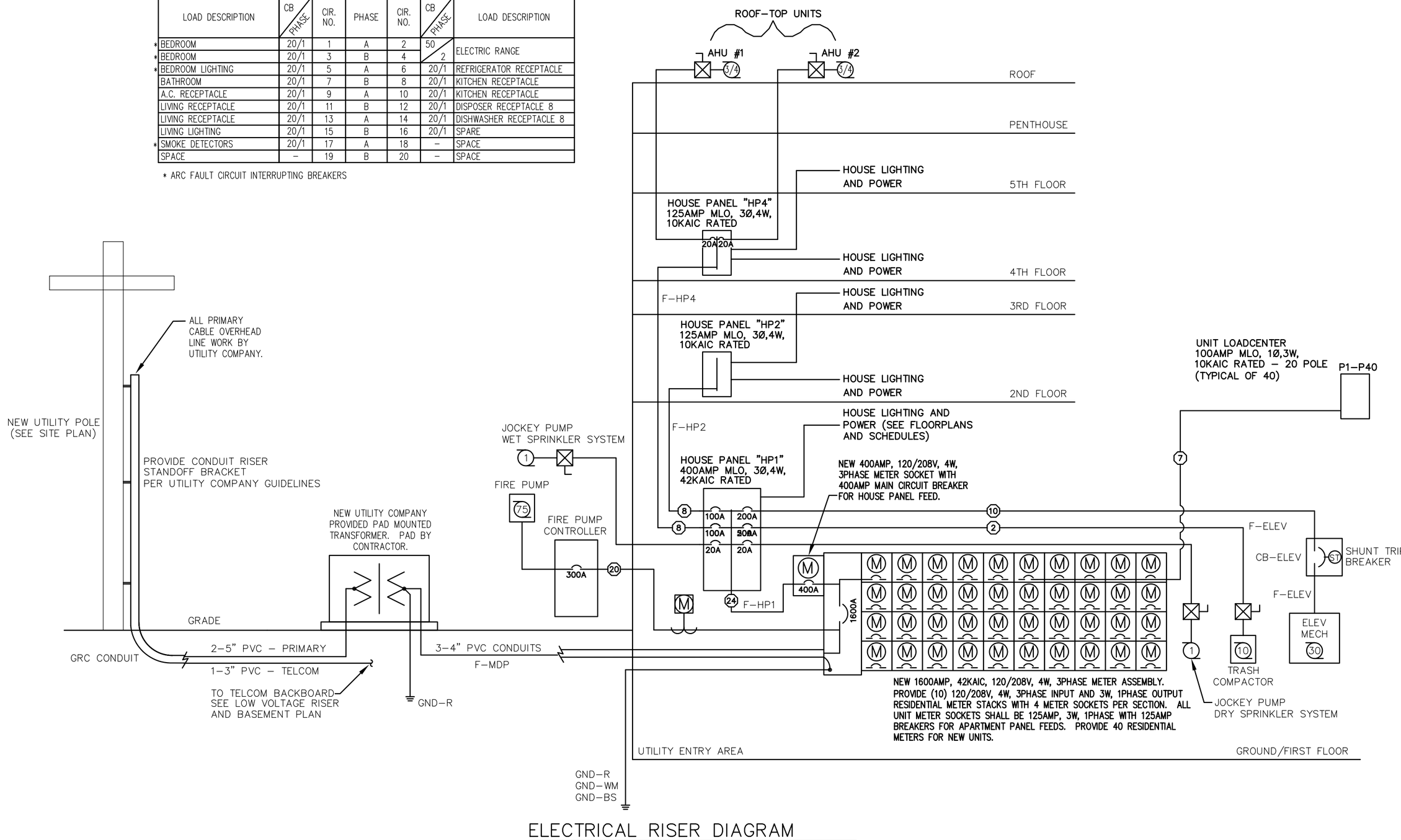
* ARC FAULT CIRCUIT INTERRUPTING BREAKERS

SERVICE & DISTRIBUTION FEEDERS & PANELBOARD SCHEDULE

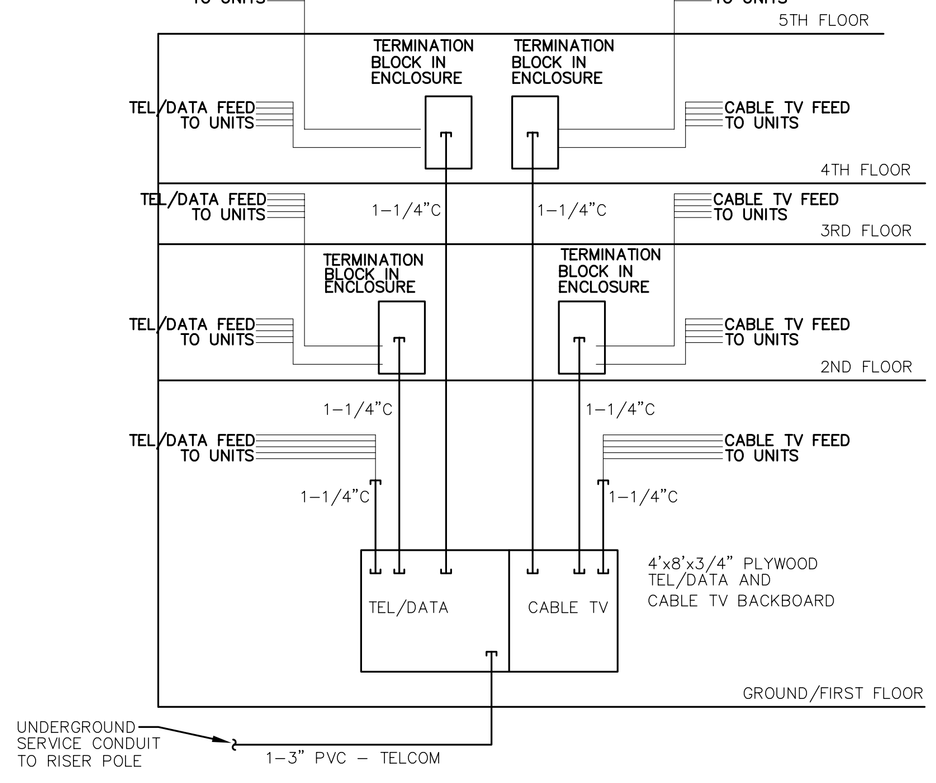
PANELBOARD		BRANCH CIRCUIT BREAKERS							MAINS					SUPPLY FEEDERS					SUB FEED LUGS	NOTES
D'S'G'N	MOUNT'G	USED	SPARE	SPACE	POLE 1–150Q	AMPS	TOTAL BKR'S	TOTAL POLES	AMPS	ENTRY	PHASE	WIRE	VOLTS	D'S'G'N	No. WIRES	SIZE WIRES	INSUL'N	CONDUIT		
LOAD CENTERS P1–P40	FLUSH		SEE TYPICAL LOAD CENTER SCHEDULE						100	MLO	1	3	208/120	F–XX	3 1	#1 #6	XHHW THW	1 1/2"	–	③
														F–XX	3 1	#1/0 #6	XHHW THW	1 1/2"	–	① ④
HP1	FLUSH		SEE PANELBOARD SCHEDULE						400	LUG	3	4	208/120	F–HP1	8 2	#3/0 #6	XHHW THW	(2)–2"	–	①
HP2	FLUSH		SEE PANELBOARD SCHEDULE						125	LUG	3	4	208/120	F–HP2	4 1	#1 #6	XHHW THW	(1)–1 1/2"	–	①
HP4	FLUSH		SEE PANELBOARD SCHEDULE						125	LUG	3	4	208/120	F–HP2	4 1	#1 #6	XHHW THW	(1)–1 1/2"	–	①
CB–ELEV	SURFACE		SEE PANELBOARD SCHEDULE						125	CB	3	4	208/120	F–ELEV	4 1	#1/0 #6	XHHW THW	2"	–	②
MDP	SURFACE		SEE MAIN DISTRIBUTION RISER DIAGRAM						1600	CB	3	4	208/120	F–MDP	12	500MCM	XHHW	3–4"	–	③
														GND–R	1	#1/0	ANY	3/4"	–	⑤
														GND–WM	1	#1/0	ANY	3/4"	–	⑥
														GND–BS	1	#1/0	ANY	3/4"	–	⑦

PANELBOARD NOTES

① QB PANELBOARD, BOLT–ON BREAKERS
② SHUNT TRIP BREAKER, WIRE TO HEAT DETECTORS IN ELEVATOR SHAFT, SEE FIRE ALARM RISER FOR DETAILS.
③ PROVIDE SCHEDULED FEEDERS FOR ALL FEEDERS LESS THAN 150 FEET IN LENGTH
④ PROVIDE SCHEDULED FEEDERS FOR ALL FEEDERS GREATER THAN 150 FEET IN LENGTH
⑤ 3/4"x10'–0" COPPERWELD GROUND ROD, DRIVE VERTICALLY TO 2'–0" BELOW FINISH GRADE, CADWELD GROUND CONDUCTOR AND BOND TO SERVICE NEUTRAL.
⑥ BOND STREET SIDE OF WATER MAIN TO SERVICE NEUTRAL.
⑦ BOND BUILDING STEEL TO SERVICE NEUTRAL.



ELECTRICAL RISER DIAGRAM
SCALE: NONE



LOW VOLTAGE RISER DIAGRAM
SCALE: NONE

NOTE: BOTH SYSTEMS SHALL BE TERMINATED IN A SINGLE ENCLOSURE ON FLOORS 2 AND 4. THEY ARE SEPERATED HERE TO INDICATE SEPERATE SYSTEMS.

FOR SUBMISSION 7-12-05

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Checked By: AWM
Date: 7-12-05
Drawn By: CLC
Revisions:

WALKER TERRACE

ELECTRICAL DETAILS, NOTES, SCHEDULES & RISER DIAGRAMS

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