

FEEDER SCHEDULE (COPPER)					
NO.	AMPS	CONDUIT	CONDUCTOR		
①		* (8) 4"	PER UTILITY CO.	& (1)	GND
②		* (8) 4"	PER UTILITY CO.	& (1)	GND
③	1200A	* (3) 4"	ea w/ (4) #600Kcmil	& (1) #3/0	GND
④	800A	* (2) 4"	ea w/ (4) #600Kcmil	& (1) #1/0	GND
⑤	600A	* (2) 3"	ea w/ (4) #350Kcmil	& (1) #1	GND
⑥	300A	3"	(4) #350Kcmil	& (1) #4	GND
⑦	250A	2 1/2"	(4) #250Kcmil	& (1) #4	GND
⑧	200A	2"	(4) #3/0	& (1) #6	GND
⑨	150A	2"	(4) #1/0	& (1) #6	GND
⑩	100A	1 1/2"	(4) #1	& (1) #8	GND
⑪	125A	1 1/2"	(3) #1	& (1) #6	GND
⑫	100A	1 1/2"	(3) #1	& (1) #8	GND
⑬	60A	1"	(4) #4	& (1) #10	GND
⑭	60A	1"	(3) #4	& (1) #10	GND
⑮	30A	3/4"	(3) #10	& (1) #10	GND

FEEDER SCHEDULE (ALUMINUM)					
NO.	AMPS	CONDUIT	CONDUCTOR		
①		* 4"	PER UTILITY CO.	& (1)	GND
②		* 4"	PER UTILITY CO.	& (1)	GND
③	1200A	* (3) 3 1/2"	ea w/ (4) #600 MCM	& (1) #1/0	GND
④	800A	* (2) 3 1/2"	ea w/ (4) #600 MCM	& (1) #1/0	GND
⑤	600A	* (2) 3"	ea w/ (4) #350 MCM	& (1) #1	GND
⑥	300A	3"	(4) #350 MCM	& (1) #4	GND
⑦	250A	2 1/2"	(4) #250 MCM	& (1) #4	GND
⑧	200A	2"	(4) #3/0	& (1) #6	GND
⑨	150A	2"	(4) #1/0	& (1) #6	GND
⑩	100A	1 1/4"	(4) #2	& (1) #8	GND
⑪	125A	1 1/2"	(3) #1	& (1) #6	GND
⑫	100A	1 1/4"	(3) #2	& (1) #8	GND
⑬	60A	1"	(3) #4	& (1) #8	GND
⑭	30A	3/4"	(3) #10	& (1) #10	GND

* PARALLEL FEEDERS PER UTILITY PROVIDER'S DIRECTION.

FEEDER SCHEDULE NOTES:

- REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES FOR ADDITIONAL INFORMATION.
- ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.
- ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.
- USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.

Burnside Apartments Main distribution Center "MDP"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel 4HDP				195,000			
Meter Center (MC1) Xfmr T1 500kva				332,000			
Meter Center (MC2) Xfmr T2 500kva				385,000			
Meter Center (MC3) Xfmr T3 300kva				344,000			
SUBTOTAL	0	0	0	1,256,000	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	1,256,000	0	0	0
CONN LOAD:	1256 KVA						
VOLTS:	480	3ph					
TOTAL CALC:	1256	KVA					
CALC AMPS:	1511	AMPS					

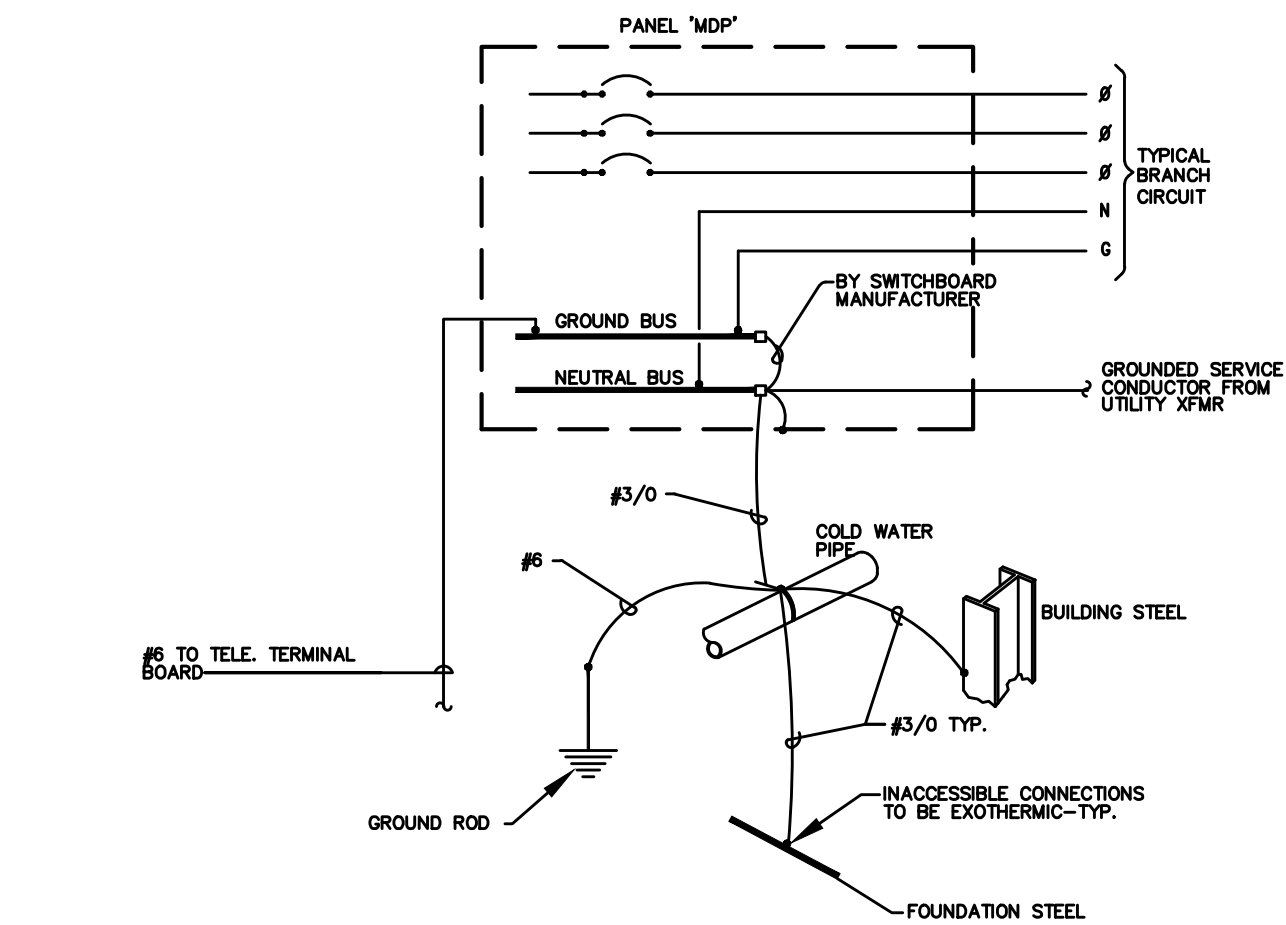
Burnside Apartments House distribution Center "4HDP"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel 4HDP				195,000			
Panel 2HDP via xfmr TH1				190,000			
Car Park #1				17,451			
Car Park #2				17,451			
Trash Compactor #1				6,300			
Trash Compactor #2				6,300			
Panel 4E1				135,000			
SUBTOTAL	0	0	0	567,502	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	567,502	0	0	0
CONN LOAD:	568 KVA						
VOLTS:	480	3ph					
TOTAL CALC:	568	KVA					
CALC AMPS:	683	AMPS					

Burnside Apartments Main distribution Center "4E1"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Elevator # 1						22,500	
Elevator #2						22,500	
Transformer TE1				44,875			
Transformer TE2				44,875			
SUBTOTAL	0	0	0	89,750	0	45,000	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	89,750	0	45,000	0
CONN LOAD:	135 KVA						
VOLTS:	480	3ph					
TOTAL CALC:	135	KVA					
CALC AMPS:	162	AMPS					

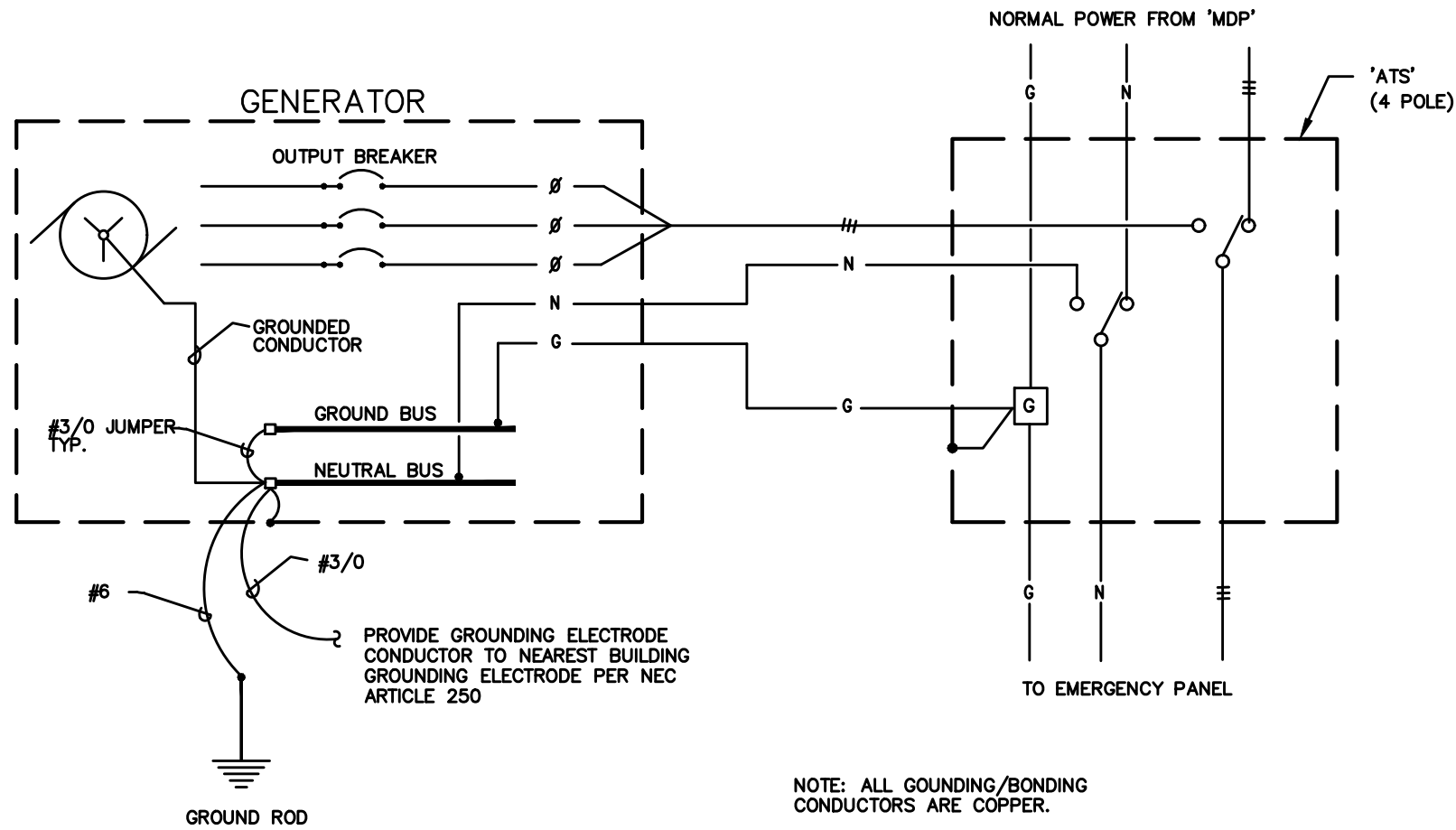
Burnside Apartments Main distribution Center "2HDP"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel 2HN	9,000	16,740			6,500		
Panel 2HS	8,000	17,880			13,000		
Panel 2C1	3,000	16,000			4,500		
Panel 2MN			18,000			39,824	
Panel 2MS			16,000		1,000	35,924	
SUBTOTAL	20,000	50,620	34,000	0	25,000	75,748	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	25,000	30,310	34,000	0	25,000	75,748	0
CONN LOAD:	205 KVA						
VOLTS:	208	3ph					
TOTAL CALC:	190	KVA					
CALC AMPS:	528	AMPS					

Burnside Apartments Emergency Generator Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel 4E1				135,000			
Fire Pump						22,500	
SUBTOTAL	0	0	0	135,000	0	22,500	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	135,000	0	22,500	0
CONN LOAD:	158 KVA						
VOLTS:	480	3ph					
TOTAL CALC:	158	KVA					
CALC AMPS:	189	AMPS					

Burnside Apartments Meter Center "MC3" Combined Residential & Retail							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Residential Units				219,000			
Retail Meters (4000sf @30w/sf)				125,000			
SUBTOTAL	0	0	0	344,000	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	344,000	0	0	0
CONN LOAD:	344 KVA						
VOLTS:	208	3ph					
TOTAL CALC:	344	KVA					
CALC AMPS:	955	AMPS					



1 GROUNDING/BONDING DIAGRAM
480/277V, 3Ø, 4 WIRE



2 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL
NO SCALE