



ELECTRICAL PERMIT APPLICATION

City of Portland, Oregon - Bureau of Development Services

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7300 • TTY 503-823-6868 • www.portland.gov/bds

Type of work

- ☒ New construction ☐ Addition/alteration/replacement
☐ Demolition ☐ Other:

Category of construction

- ☐ 1 & 2 family dwelling ☐ Commercial/Industrial ☐ Accessory building
☒ Multifamily ☐ Master builder ☐ Other:

Job site information and location

Job no.: Job address: 6355 SE 92nd AVE

City/State/ZIP: Portland, OR 97266

Suite/bldg./apt. no.: Project name: 92ND AVENUE APARTMENTS

Cross street/directions to job site:

Subdivision: Lot no. Tax map/parcel no.

Description of work (example: 3 circuits for basement receptacles)

Revision to permit #22-181500-000-00-ET. Upgrade from 800amp service to 1000amp.

Provide RS Permit no.

Property owner

Name: E-mail:

Address:

City/State/ZIP: Portland, OR 97266

Phone: FAX:

Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.

Owner signature: Date:

Contractor

Business name: Garner Electric E-mail: GE@garnerelectric.com

Address: 2890 SE Brookwood Ave

City/State/ZIP: Hillsboro, OR 97123

Phone: 503-648-4552 FAX:

Elec. lic. no. 34-305C CCB lic. no. 21159

Metro or City lic no. Date:

Supervising electrician
Signature, required:

Print name: Charles Garner License no. 6670-S

Authorized signature:

Print name: Date:

Applicant

Business name: Garner Electric

Contact name: Charles Garner

Address: 2890 SE Brookwood Ave

City/State/ZIP: Hillsboro, OR 97123

Phone: 503-648-4552 FAX:

E-mail: GE@garnerelectric.com

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Plan Review

Please check all that apply

- ☐ Fire pump ☐ Building over three stories
☐ Emergency system ☐ Service or feeder 600 amps or over
☐ Addition of new motor load of 100 HP or more ☐ Commercial use agricultural buildings
☐ Patient area health care facility ☐ Installation of 150 KVA or larger separately derived system
☐ Hazardous locations ☐ 'A', 'E', 'I-2', 'I-3' occupancies
☐ Recreational vehicle parks ☐ Service or feeder 400 amps or more where the available fault current exceeds 10,000 amps at 150 volts or less to ground, or exceeds 14,000 amps for all other installations
☐ Marinas and boatyards
☐ Floating buildings
☐ Six or more residential units
☐ Supply over 600 volts nominal
☐ Voluntary plan review

Fee Schedule

Description	Qty.	Fee	Total	**
Residential single or multifamily dwelling unit.				
Includes attached garage.				
1,000 sq. ft. or less		\$341		4
Each added 500 sq. ft. or portion		\$76		
Limited energy, residential		\$76		2
Limited energy, multi-family		\$76		2
Services or feeders installation, alteration, and/or relocation				
200 amps		\$176		2
201 to 400 amps		\$249		2
* 401 to 600 amps		\$327		2
* 601 amps to 1,000 amps		\$493		2
* Over 1,000 amps or volts		\$903		2
Service Reconnect Only		\$159		1
Temporary services or feeders installation, alteration, and/or relocation				
200 amps or less		\$156		2
201 amps to 400 amps		\$237		2
401 amps to 600 amps		\$298		2
Branch circuits - new, alteration, or extension, per panel				
A. Fee for branch circuits with service or feeder fee, each branch circuit		\$18		2
B. Fee for branch circuits without service or feeder fee, first branch circuit		\$145		2
Each additional branch circuit		\$18		
Miscellaneous (service or feeder not included)				
Each manufactured or modular dwelling, service and/or feeder		\$200		2
Pump or irrigation circle		\$134		2
Sign or outline lighting		\$134		2
Signal circuit(s) or limited-energy panel, alteration, or extension.		\$134		2
Describe:				
Hourly rate:		\$190		
Each additional inspection over allowable in any of the above				
Per inspection		\$134		
Investigation fee		\$134		
Other				
Electrical permit fees*				
Subtotal				
Plan review (25% of permit fee)				
State surcharge (12% of permit fee)				
TOTAL PERMIT FEE				

* Requires Plan Review

** Number of inspections allowed per permit.

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Building Load Summary	
Unit Load	670 AMP
House Load	14 Amp
1000 Amps	

Unit Type Studio (Typical of x1)	
Lighting: (NEC 220.42)	
426 Sq Ft x 3 VA =	1,278 VA
Small Appliance	3,000 VA
Laundry	+ 1,500 VA
	<u>5,778 VA</u>
	- 3,000 VA
	<u>2,778 VA</u>
	x 35%
	<u>972 VA</u>
	+ 3,000 VA
	<u>3,972 VA</u>
Range: (NEC 220.55'	
10,200 VA x 80% =	8,160 VA
Dryer: (NEC 220.54)	
5,000 VA	= 5,000 VA
Appliances: (NEC 220.53)	
Microwave:	950 VA
Dishwasher:	1,200 VA
Disposal:	756 VA
Hot Water Heater:	4,500 VA
	<u>7,406 VA</u>
	x 75%
	<u>5,555 VA</u>
Heat / AC: (NEC 220.60)	
1,000W x	= VA
1,500W x 1	= 1,500 VA
	<u>1,500 VA</u>
	24,187 VA
	/ 240 Volts
Total:	100.78 Amps

Unit Type 1B (Typical of 14)	
Lighting: (NEC 220.42)	
621 Sq Ft x 3 VA =	1,863 VA
Laundry:	3,000 VA
Small Appliance:	+ 1,500 VA
	<u>6,363 VA</u>
	- 3,000 VA
	<u>3,363 VA</u>
	x 35%
	<u>1,177 VA</u>
	+ 3,000 VA
	<u>4,177 VA</u>
Range: (NEC 220.55'	
10,200 VA x 80% =	8,160 VA
Dryer: (NEC 220.54)	
5,000 VA	= 5,000 VA
Appliances: (NEC 220.53)	
Microwave:	950 VA
Dishwasher:	1,200 VA
Disposal:	756 VA
Hot Water Heater:	4,500 VA
	<u>7,406 VA</u>
	x 75%
	<u>5,555 VA</u>
Heat / AC: (NEC 220.60)	
1,000W x 1	= 1,000 VA
1,500W x 1	= 1,500 VA
	<u>2,500 VA</u>
	25,392 VA
	/ 240 Volts
Total:	105.8 Amps

Unit Type 2B (Typical of x4)	
Lighting: (NEC 220.42)	
934 Sq Ft x 3 VA =	2,802 VA
Small Appliance	3,000 VA
Laundry	+ 1,500 VA
	<u>7,302 VA</u>
	- 3,000 VA
	<u>4,302 VA</u>
	x 35%
	<u>1,506 VA</u>
	+ 3,000 VA
	<u>4,506 VA</u>
Range: (NEC 220.55'	
10,200 VA x 80% =	8,160 VA
Dryer: (NEC 220.54)	
5,000 VA	= 5,000 VA
Appliances: (NEC 220.53)	
Microwave:	950 VA
Dishwasher:	1,200 VA
Disposal:	756 VA
Hot Water Heater:	4,500 VA
	<u>7,406 VA</u>
	x 75%
	<u>5,555 VA</u>
Heat / AC: (NEC 220.60)	
1,000W x 2	= 2,000 VA
1,500W x 1	= 1,500 VA
	<u>3,500 VA</u>
	26,720 VA
	/ 240 Volts
Total:	111.33 Amps

Panel Name: Typical Unit Panel			Panel Voltage: 120/208V 1-Ph		
Bus Rating: 150A			Panel Type: Main Lug		
CKT.	Description	OCP	OCP	Description	CKT
1	Range	40A	30A	Hot Water Heater	2
3	Range	40A	30A	Hot Water Heater	4
5	Forced Air Heaters	20A	30A	Dryer	6
7	Forced Air Heaters	20A	30A	Dryer	8
9	Small Appliance #1	20A	20A	Washer	10
11	Small Appliance #2	20A	20A	Microwave	12
13	Dishwasher	15A	20A	Bathroom Receptacles	14
15	Disposal	15A	15A	General Lighting #1	16
17			15A	General Lighting #2	18
19					20
21					22
23					24

Garner

Electrical

Approved Except as Noted

Subject to the minimum requirements of the NEC., State of Oregon Electrical Regulations and Title 26 of the City of Portland

Date: 11/08/23

Project #: 22-181500-000-REV-01-ET

Charles Garner

6670S

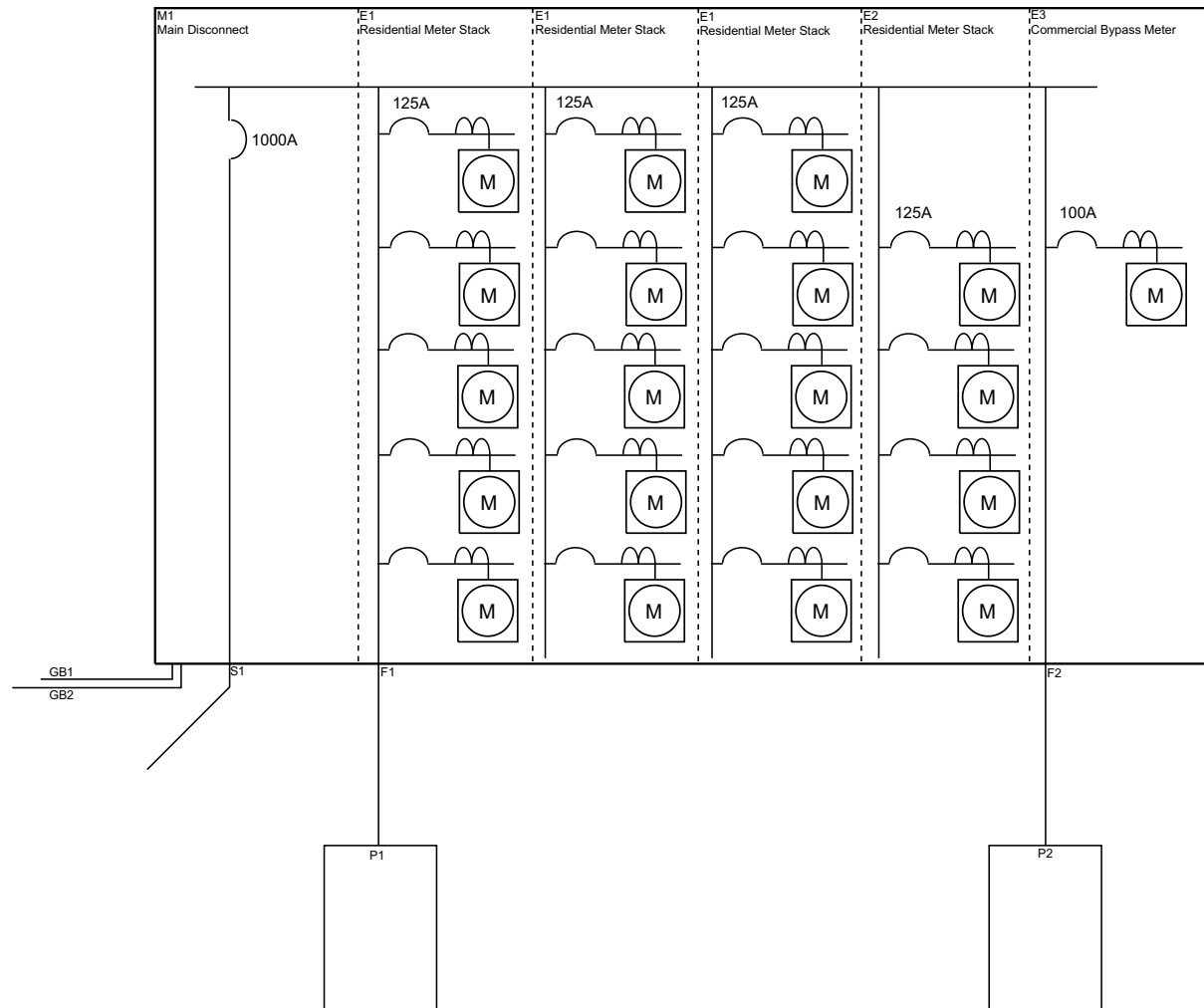
State Street Homes
92nd Ave Apartments
6355 SE 92nd Ave
Portland, OR 97266

Total Unit Load	
NEC 220.82	
Lighting:	
621 Sq Ft x 3 VA =	1,863 VA x 14 = 26,082 VA
934 Sq Ft x 3 VA =	2,802 VA x 4 = 11,208 VA
426 Sq Ft x 3 VA =	1,278 VA x 1 = 1,278 VA
Laundry:	
1,500 VA x 19 =	28,500 VA
Small Appliance:	3,000 VA x 19 = 57,000 VA
	<u>124,068 VA / 120V / 3 = 344.63 Amps</u>
Range: (NEC 220.55)	
10,200 VA x 19 =	193,800 VA / 360.256V = 537.95 Amps
Dryer: (NEC 220.54)	
5,000 VA x 19 =	95,000 VA / 360.256V = 263.70 Amps
Appliances: (NEC 220.53)	
Hot Water Heater:	4,500 VA x 19 = 85,500 VA / 360.256V = 237.33 Amps
Microwave:	
950 VA x 19 =	18,050 VA
Diswasher:	1,200 VA x 19 = 22,800 VA
Disposal:	756 VA x 19 = 14,364 VA
	<u>55,214 VA / 120V / 3 = 153.37 Amps</u>
1,000W Heat: x	
= VA x 22 =	22,000 VA
1,500W Heat: x	= VA x 19 = 28,500 VA
	<u>50,500 VA / 360.256V = 140.18 Amps</u>
	40% 1677 AMPS
Total:	670 Amps

Approved Except as Noted
Subject to the minimum requirements of the NEC., State of Oregon Electrical Regulations and Title 26 of the City of Portland

Date: 11/21/22
Project #: 22-181500-000-00-ET

Panel Name: House panel						Panel Voltage: 120/208					
Bus Rating: 100A						Panel Type: Main Lug					
CKT.	Description	L1	L2	L3	OCP	OCP	L1	L2	L3	Description	CKT.
1	First Floor Corridor and Bike Room Lights	1A	0	0	20A	20A	10A	0	0	Fire Alarm circuit	2
3	Fire Riser Room Cadet Heater	0	0	7.5	20A	20A	0	1A	0	Fire Riser Room and Trash Room Lights	4
5	Fire Riser, Trash Room, 1st floor Corridor, Bike Room Receptacle	0	9A	0	20A	20A	0	0	1A	West Stairway 1st- 3rd floor lights and egress lights	6
7	East Stairway 1st - 3rd floor lights and egress lights	1A	0	0	20A	20A	0	1A	0	Second Floor Corridor lights and Egress lights	8
9	Second Floor Corridor Receptacles	0	0	3A	20A	20A	1A	0	0	Third Floor Corridors lights and Egress lights	10
11	Third Floor Corridor receptacles	0	3A	0	20A	20A	0	0	1.5	Exterior lights	12
13											14
15											16
17											18
19											20
21											22
23											24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
L1 Total: 13 Amps											
L2 Total: 14 Amps											
L2 Total: 13 Amps											



Feeder/Wire Schedule	
S1	4" PVC conduit from servicing utility
F1	1/0 SER AL 4-wire
F2	1/0- 1/0- 1/0- #2 XHHW (2" PVC conduit)

Equipment Schedule	
M1	120/208V 1000A 3-PH NEMA 3R UG Main Disconnect
E1	120/208V 125A 1-PH NEMA 3R Tenant 5 post Meter Stack (Typical of 3)
E2	120/208V 125A 1-PH NEMA 3R Tenant 4 post Meter Stack
E3	120/208V 100A 1-PH NEMA 3R House Commercial Bypass
P1	120/208V 125A 1-PH NEMA 1 Residential Panel (Typical of 19)
P2	120/208V 100A 1-PH NEMA 3R House Panel

Grounding and Bonding	
GB1	#4 CU Ufer
GB2	4/0 XHHW AL

State Street Homes
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