

## BASE BUILDING MAJOR EQUIPMENT LIST

### Major Equipment Installed

Note: The components and quantities listed below are intended to provide offerors with a general sense of the magnitude of equipment and the complexity of the building. This list is not all-inclusive and is not intended to be used as an inventory. Offerors shall confirm quantities of the equipment listed here and research the bid documents, and other attachments, to identify other equipment and systems not specifically identified below.

### **Mechanical**

#### A. Fans

1. (4) ea. 31,250 CFM Garage Exhaust
2. (5) ea. 25,000 CFM Garage Supply
3. (1) ea. 2000 CFM Electrical Room Exhaust
4. (1) ea. 600 CFM Pump Room Exhaust
5. (1) ea. 7,000 CFM Chiller Room Supply
6. (1) ea. 600 CFM Pump Room Ventilation
7. (1) ea. 7,000 CFM Chiller Room Exhaust
8. (1) ea. 2,000 CFM Electrical Room Supply
9. (1) ea. 200 CFM Fuel Oil Room
10. (1) ea. 200 CFM Sump Pump Room
11. (1) ea. GF-11 600 CFM Pump Room Ventilation
12. (11) ea. 6,800 CFM Garage
13. (19) ea. 300-400 CFM Typical Core Electrical Room
14. (1) ea. 6,500 CFM Loading Dock Exhaust
15. (1) ea. 400 CFM Gray Water Storage Room
16. (1) ea. 165-200 CFM Back of House Outdoor Air
17. (1) ea. 165-200 CFM Back of House Outdoor Air
18. (1) ea. 700 CFM Lobby
19. (1) ea. 300 CFM Janitor Room Exhaust
20. (1) ea. 3000 CFM Elevator Machine Room
21. (1) ea. 400 CFM Filter Room
22. (1) ea. 400 CFM Electric Room

#### B. Energy Recovery Units

1. (1) ea. 18,000 CFM
2. (1) ea. 22,040 CFM
3. (1) ea. 11,340 CFM

#### C. Cooling Towers

1. (1) ea. 2 cell, 1270 GPM, 550 Ton
2. (1) ea. 2 cell, 1270 GPM, 550 Ton

#### D. Plate and Frame Heat Exchangers

1. (1) ea. 2100 GPM

#### E. Fin Tube Radiators

1. (1) ea. 0.24 GPM, 5200 BTUH
2. (32) ea. 0.13 GPM, 2600 BTUH
3. (1) ea. 0.24 GPM, 5360 BTUH

#### F. Hot Water Heating Coils

1. (1) ea. 340 CFM
2. (1) ea. 1150 CFM

3. (1) ea. 1100 CFM
  4. (1) ea. 10,200 CFM
  5. (1) ea. 340 CFM
  6. (1) ea. 340 CFM
  7. (1) ea. 700 CFM
  8. (1) ea. 630 CFM
  9. (1) ea. 550 CFM
  10. (1) ea. 300 CFM
- G. Pumps
1. (1) ea. 1270 GPM
  2. (1) ea. 1270 GPM
  3. (1) ea. 1270 GPM
  4. (1) ea. 825 GPM
  5. (1) ea. 825 GPM
  6. (1) ea. 825<1650 (stand by)
  7. (1) ea. 50
  8. (1) ea. 50
  9. (1) ea. 50
  10. (1) ea. 100
  11. (1) ea. 100
- H. Variable Air Volume (VAV) Units
1. (10) ea. 1500-5000 CFM Cap.
  2. (5) ea. 1000-3000 CFM Cap.
- I. Electric Heaters
1. (9) ea. 100 CFM
  2. (80) ea. 270 CFM
  3. (2) ea. 250 CFM
  4. (1) ea. 250 CFM
- J. Air Handling Units
1. (1) ea. 17,200 Supply Air, 4400 Outside Air serving 1<sup>st</sup> Floor North
  2. (1) ea. 13,350 Supply Air, 3600 Outside Air serving 1<sup>st</sup> Floor South
  3. (1) ea. 8380 Supply Air, 2100 Outside Air serving 1<sup>st</sup> Floor East
  4. (1) ea. 15250 Supply Air, 3400 Outside Air serving typ. floor North
  5. (1) ea. 15250 Supply Air, 3400 Outside Air serving typ. floor North
  6. (1) ea. 15250 Supply Air, 3400 Outside Air serving typ. floor North
  7. (1) ea. 21850 Supply Air, 5000 Outside Air serving typ. floor South
  8. (1) ea. 21850 Supply Air, 5000 Outside Air serving typ. floor South
  9. (1) ea. 21850 Supply Air, 5000 Outside Air serving typ. floor South
  10. (1) ea. 10415 Supply Air, 2645 Outside Air serving typ. floor East
  11. (1) ea. 10415 Supply Air, 2645 Outside Air serving typ. floor East
  12. (1) ea. 10415 Supply Air, 2645 Outside Air serving typ. floor East
  13. (1) ea. 19,110 Supply Air, 3400 Outside Air serving 5<sup>th</sup> floor North
  14. (1) ea. 20,870 Supply Air, 3600 Outside Air serving 5<sup>th</sup> floor South
  15. (1) ea. 12,190 Supply Air, 2300 Outside Air serving 5<sup>th</sup> floor East
  16. (1) ea. 10,500 Supply Air, 700 Outside Air serving Lobby
- K. Fan Coil Unit
1. (1) ea. 340 CFM
  2. (1) ea. 1600 CFM
  3. (1) ea. 1100 CFM
  4. (1) ea. 340 CFM
  5. (1) ea. 340 CFM

6. (1) ea. 340 CFM
7. (2) ea. 630 CFM
8. (3) ea. 400 CFM
- L. Hot Water Fan Coil Unit
  1. (20) ea. 800 CFM
- M. Particle Separator
  1. (1) ea. 200 GPM
- N. Chillers
  1. (1) ea. 474 Ton
  2. (1) ea. 486 Ton
- O. Split System Heat Pump Air Handling Units
  1. (2) ea. 1.5 Ton
  2. (2) ea. 1.5 Ton
  3. (1) ea. 2 Ton
- P. Miscellaneous
  1. (1) ea. 1110 Wall Mounted Heat Pump
  2. (2) ea. 225 GPM Gas fired hot water boiler system
  3. (2) ea. 225 GPM Gas fired hot water boiler system
  4. (1) ea. 3 GPM Fuel Oil Pump set
  5. (1) ea. 4 ton, 48 MBH

## Plumbing

- A. Pumps
  1. (2) ea. 5 HP, 100 GPM Domestic Water Booster Pump (Domestic Water)
  2. (1) ea. 0.5 HP 20 GPM Elevator Pit Sump Pump
  3. (2) ea. 1 HP, 83 GPM Garage Submersible Sump Pumps
  4. (2) ea. 1.5 HP, 60 GPM Vertical Sump Pump
  5. (2) ea. 15 HP, 105 GPM VFD Domestic Water Booster Pump (For Non-Potable Water)
- B. Water Heaters
  1. (2) ea. 120 Gallon, 98 Gallon Recovery Domestic Water Heaters
  2. (1) ea. 30 Gallon, 25 Gallon Recovery Domestic Water Heater
- C. Valves
  1. (1) ea. 51 GPM Water Tempering Valve

## Electrical

\*Secondary Four Services from Pepco at 3 phase, 4 wire, 265/460 Volts

- A. Switchboards
  1. (1) ea. 3 phase, 4 wire, 4000 Amp with (1) 4000 Amp bolted pressure switch
  2. (1) ea. 3 phase, 4 wire, 4000 Amp with (1) 4000 Amp bolted pressure switch, (2) 2000 Amp bolted pressure switches
  3. (1) ea. 3 phase, 4 wire, 4000 Amp with (1) 4000 Amp bolted pressure switch, (1) 2500 Amp bolted pressure switch and (12) switch & fuse units
  4. (1) ea. 3 phase, 4 wire, 4000 Amp with (1) 4000 Amp bolted pressure switch, (1) 800 Amp bolted pressure switch, (4) switch & fuse units
- B. Generators
  1. (1) ea. 500 KVA, 3 phase, 4 wire, 265/460 Volt Onan Generator with (5) transfer switches and (1) ea. fire pump transfer switch
- C. Fire Alarm System
  1. (1) ea. Building Voice Fire Alarm System

## D. Relays

- I. (38) ea. Relays for lighting, garage fans, and hot water heaters controlled by building BAS system

## E. Dimming

- I. (1) ea. Lobby Dimming System