

SECTION 11451

RESIDENTIAL APPLIANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
  - 1. Cooking equipment, including ranges.
  - 2. Refrigerator/freezers.
  - 3. Dishwashers.
- B. Related Sections include the following:
  - 1. Division 1 Section "Alternates", for Bid Alternates.

1.2 SUBMITTALS

- A. Product Data: For each appliance type required indicating compliance with requirements. Include complete operating and maintenance instructions for each appliance.
- B. Appliance Schedule: Submit schedule of appliances, using the same room designations shown on Drawings.
- C. MSHA Submittals:
  - 1. Energy Efficiency - Systems & Appliances: R 1: Energy Star labeled systems & appliances.
  - 2. Submit EPA's Energy Star® Rating.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is an authorized representative of the residential appliance manufacturer for both installation and maintenance of appliances required for this Project.
- B. Source Limitations: Obtain residential appliances through one source from a single manufacturer.
  - 1. Provide products from the same manufacturer for each type of appliance required.
  - 2. To the greatest extent possible, provide appliances by a single manufacturer for entire Project.
- C. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of residential appliances and are based on the specific types and models indicated. Other manufacturers' appliances with equal performance characteristics may be considered. Refer to Division 1 Section "Substitutions."

- D. Electrical Appliances: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- E. UL and NEMA Compliance: Provide electrical components required as part of residential appliances that are listed and labeled by UL and that comply with applicable NEMA standards.
- F. AHAM Standards: Provide appliances that comply with the following AHAM standards:
  - 1. Refrigerators and Freezers: Total volume and shelf area ratings certified according to ANSI/AHAM HRF-1.
- G. Energy Ratings: Provide residential appliances that carry labels indicating energy-cost analysis (estimated annual operating costs) and efficiency information as required by the Federal Trade Commission and Energy Star labels.

#### 1.4 DELIVERY

- A. Deliver appliances only after utility rough-in is complete and construction in the spaces to receive appliances is substantially complete and ready for installation.

#### 1.5 WARRANTIES

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranties: Written warranties, executed by manufacturer of each appliance specified agreeing to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
  - 1. Electric Range: Five-year limited warranty for in-home service on surface-burner elements.
  - 2. Refrigerator/Freezer: Five-year limited warranty on the sealed refrigeration system.
  - 3. Dishwasher: 10-year warranty against deterioration of tub and door liner.

### PART 2 - PRODUCTS

#### 2.1 PRODUCTS AND MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, appliances that may be incorporated into the Work include, but are not limited to, those indicated in the following paragraphs of Part 2.

#### 2.2 RESIDENTIAL APPLIANCES

- A. Electric Range (Living Units): Where this designation is indicated, provide electric ranges listed by UL and complying with the following:
  - 1. Products: Available products include the following:

- a. Hot Point: Model RB757WHWW
  2. Type: 30-inch- (762-mm-) wide, freestanding electric range.
  3. Cooktop: Recessed, hinged, tilt-up, porcelain-enamel cooktop with four surface burners.
    - a. Burner Types: Two 8-inch (200-mm) (2600-W maximum) and two 6-inch (152-mm) (1500-W maximum), plug-in, coil-burner elements.
      - 1) Burner Trim: Provide each burner with a removable chrome-plated drip pan and chrome-plated trim ring.
  4. Oven: Manual-cleaning oven with porcelain-enamel interior with two tilt-proof, chrome-plated, self-locking oven racks.
    - a. Oven Door: Counterbalanced, removable, porcelain-enamel oven door, with observation window.
  5. Control Panel: Porcelain-enamel combination surface-burner/oven control panel mounted at the back of cooking surface. Include burner "ON" indicator light, automatic oven timer, and electronic clock.
    - a. Controls: Rotary-dial type with removable knobs.
  6. Storage Drawer: Removable, full-width storage drawer below oven with porcelain-enamel front panel.
  7. Finish: Porcelain enamel on steel.
    - a. Color: White.
  8. Standard features include the following:
    - a. Rimmed cooktop deck.
    - b. Interior oven light.
    - c. Two-piece, porcelain-enamel broiler pan.
    - d. Four adjustable legs.
- B. Electric Range (Accessible Living Units and Community Building): Where this designation is indicated, provide electric ranges listed by UL and complying with the following:
1. Products: Available products include the following:
    - a. General Electric: Model JDP39WWWW
  2. Type: 30-inch- (762-mm-) wide, drop-in electric range.
  3. Cooktop: Recessed, hinged, tilt-up, porcelain-enamel cooktop with four surface burners.
    - a. Burner Types: Two 8-inch (200-mm) (2600-W maximum) and two 6-inch (152-mm) (1500-W maximum), plug-in, coil-burner elements.
      - 1) Burner Trim: Provide each burner with a removable chrome-plated drip pan and chrome-plated trim ring.
  4. Oven: Manual-cleaning oven with porcelain-enamel interior with two tilt-proof, chrome-plated, self-locking oven racks.
    - a. Oven Door: Counterbalanced, removable, porcelain-enamel oven door, with observation window.
  5. Control Panel: Porcelain-enamel combination surface-burner/oven control panel mounted at front of cooking surface above oven door. Include burner "ON" indicator light, automatic oven timer, and electronic clock.
    - a. Controls: Rotary-dial type with removable knobs.
  6. Finish: Porcelain enamel on steel.
    - a. Color: White.
  7. Standard features include the following:
    - a. Rimmed cooktop deck.
    - b. Interior oven light.
    - c. Two-piece, porcelain-enamel broiler pan.

- C. Top-Mount Refrigerator (Living Units): Where this designation is indicated, provide refrigerator/freezers complying with the following:
1. Products: Available products include the following:
    - a. Hot Point: CTX18DABWW4.
  2. Type: Freestanding, frost-free, two-door, top-mount freezer refrigerator/freezer with ABS thermoplastic-copolymer interior cabinet liners.
  3. Refrigerator Storage Capacity: 17.9 cubic foot total interior refrigerator volume measured according to ANSI/AHAM HRF-1 and certified by AHAM.
  4. Temperature Controls: Separate temperature controls for each compartment and a switch for condensation-control heating element at freezer opening.
  5. Standard storage features include the following:
    - a. Fresh Food Compartment:
      - 1) Gallon (Liter) container size door storage shelves.
      - 2) Vegetable crisper.
      - 3) Utility bin.
      - 4) Dairy compartment.
    - b. Freezer Compartment:
      - 1) Door shelves.
      - 2) Two ice cube trays.
  6. Finish: Porcelain enamel on steel.
    - a. Color: White.
  7. Standard features include the following:
    - a. Interior light in fresh food compartment.
    - b. Adjustable rollers.
    - c. Adjustable compartment shelves.
- D. Top-Mount Refrigerator (Community Building): Where this designation is indicated, provide refrigerator/freezers complying with the following:
1. Products: Available products include the following:
    - a. General Electric: TAX10SNX.
  2. Type: Freestanding, frost-free, two-door, top-mount freezer refrigerator/freezer with ABS thermoplastic-copolymer interior cabinet liners.
  3. Refrigerator Storage Capacity: 7.9 cubic foot total interior refrigerator volume measured according to ANSI/AHAM HRF-1 and certified by AHAM.
  4. Temperature Controls: Separate temperature controls for each compartment and a switch for condensation-control heating element at freezer opening.
  5. Standard storage features include the following:
    - a. Fresh Food Compartment:
      - 1) Vegetable crisper.
      - 2) Utility bin.
      - 3) Dairy compartment.
  6. Finish: Porcelain enamel on steel.
    - a. Color: White.
  7. Standard features include the following:
    - a. Interior light in fresh food compartment.
    - b. Adjustable rollers.
    - c. Adjustable compartment shelves.
- E. ADA-Compliant Dishwasher (Accessible Living Units): Where this designation is indicated, provide dishwashers listed by UL and complying with the following:
1. Products: Available products include the following:

- a. General Electric: Model GLDA5690MWW
  2. Type: Automatic, built-in, under-the-counter dishwasher; sized to replace 24-inch (610-mm) base cabinet; operable at water pressures from 15 to 120 psi (100 to 825 kPa).
  3. Tub and Door Liner: Stainless steel.
    - a. Detergent Dispenser: Sealed detergent and automatic rinsing-aid dispensers in door liner.
  4. Rack System: Nylon-coated sliding dish racks with removable silverware basket.
  5. Operation: Four wash cycles with hot-air and heat-off drying cycle options.
  6. Controls: Solid-state, electronic, press-to-start type.
  7. Front Panel Finish: Manufacturers standard, trimless panels.
    - a. Color: White.
  8. Standard features include the following:
    - a. Full-extension, vinyl-coated, upper and lower dish racks.
    - b. Removable silverware basket.
    - c. Sound-absorbing exterior insulation blanket around tub and back.
    - d. Soft food disposer.
    - e. Self-cleaning food-filter system.
  9. Optional features include the following:
    - a. Delay start feature.
- F. Dishwasher (Living Units): Where this designation is indicated, provide dishwashers listed by UL and complying with the following:
1. Products: Available products include the following:
    - a. General Electric: Model GSD2230ZWW
  2. Type: Automatic, built-in, under-the-counter dishwasher; sized to replace 24-inch (610-mm) base cabinet; operable at water pressures from 15 to 120 psi (100 to 825 kPa).
  3. Tub and Door Liner: Porcelain enamel.
    - a. Detergent Dispenser: Sealed detergent and automatic rinsing-aid dispensers in door liner.
  4. Rack System: PVC-coated sliding dish racks with removable silverware basket.
  5. Operation: Five wash cycles with hot-air and heat-off drying cycle options.
  6. Controls: Rotary-dial, turn-to-start type.
  7. Front Panel Finish: Manufacturers standard, reversible panels with choice of colors for door front and lower access panel.
    - a. Color: White.
  8. Standard features include the following:
    - a. Full-extension, vinyl-coated, upper and lower dish racks.
    - b. Removable silverware basket.
    - c. Sound-absorbing exterior insulation blanket around tub and back.
    - d. Soft food disposer.
    - e. Self-cleaning food-filter system.

## 2.3 FINISHES

- A. Porcelain-Enamel Finish: Provide manufacturer's standard factory-applied porcelain-enamel finish over cleaned and pretreated steel sheet. If no color is indicated, provide white.
1. Color and Gloss: As indicated by manufacturer's designations.
    - a. Where residential appliances by more than one manufacturer are installed in the same space, provide units with color matching largest equipment item.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Comply with manufacturer's written instructions.
- B. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.
- C. Utilities: Refer to Divisions 15 and 16 for plumbing and electrical requirements.

3.2 ADJUSTING AND CLEANING

- A. Test each item of residential appliances to verify proper operation. Make necessary adjustments.
- B. Verify that accessories required have been furnished and installed.
- C. Remove packing material from residential appliances and leave units in clean condition, ready for operation.

END OF SECTION