

DIVISION 10 - SPECIALTIES (SUBJECT TO DIVISION 1)

10.A. PEST CONTROL

1. General

Exterminate for rodent or insect pests in area called for in the Bid Document.

2. Products

Use only those chemicals approved for use by the Environmental Protection Agency (EPA).

3. Execution

If required, treat entire structure for pest infestation by a licensed exterminator. Owner shall retain certificate.

Apply poisons at rates and by method recommended by the chemical manufacturer.

Exercise care to protect inhabitants and pets from hazards associated with treatment, making any continuing hazard known to the resident.

Provide certificate of treatment to the Rehab Office.

Offer owner annual renewable insurance against termite and similar insect damage.

Supply Material Safety Data Sheet (MSDS) to the owner, Contractor, and Rehab Office.

10.B. HARDWARE

Unless otherwise noted, existing hardware that is to be removed becomes the property of the contractor. Voids or blemishes caused by the removal of hardware, which are not covered by new hardware, shall be patched and finished to match adjacent surfaces.

All door and miscellaneous hardware items shall be Wiser, Kwikset, or equal. Kitchen cabinet hardware shall be Washington, Amerock, National, or equal.

10.C. SIGNAGE & ACCESSORIES

1. General

Install as specifically called for by the Bid Document.

2. Products

A. House numbers shall be at least three inches high aluminum or plated 11 gauge steel.

B. Mailbox shall be a model approved by the United States Postal Service.

3. Execution

A. Install letters with a minimum of two screws finished to match letters. Install in a legible configuration.

B. Install mailbox according to manufacturer's recommendations.

10.D. VENTS & LOUVERS

1. General

- A. Provide vents as required for all equipment and appliances provided as part of the Bid Document.
- B. Provide vents as specifically required by the Bid Document.
- C. Repair or replace all existing vents and louvers to provide protection from weather and insects.

2. Products

- A. Foundation Vents - Stamped steel, 16 x 8 inch with 20 gauge damper and 18 x 16 wire mesh insect screen. (See Section 3.R.)
- B. Attic Vents - Fixed louvers, aluminum or galvanized steel with flange with 18 x 16 wire mesh insect screen, sized according to FHA Specification 604-4.2. There shall be a minimum of two gable vents as practical. When power ventilation is called for, adjust attic vent size accordingly.
- C. Soffit vents shall be 8" x 16" and installed 8' o.c.
- D. Dryer Vents - 4" galvanized steel or aluminum with weather cap, thru-wall type and manual energy diverter inside with filter stock.
- E. Power ventilators shall be UL approved and rated for the size of space to be ventilated.
- G. Ridge vents shall be the type which allows shingles to be applied over the top.

3. Execution

- A. Install vents plumb and square.
- B. Flash as required for weather tight installation.
- C. Foundation vents shall be a minimum of 8" above grade line.
- D. Kitchen hood shall be equal to the width of the cooking appliance below it and U.L. rated hood shall have:
 - 1) Removable, washable filter system.
 - 2) Light with separate switch.
 - 3) Two-speed exhaust fan.
 - 4) The hood shall have a minimum C.F.M. of 160.

10.E. APPLIANCES

1. General

The work covered by these specifications includes furnishing all labor, materials, and equipment for installing the items of equipment as enumerated in the Bid Document. Owner shall have choice of manufacturer and color for appliances. Appliances shall be of good quality and be moderately priced. Submit brand and model to Rehab Office for approval.

2. Products

- A. Electric Range shall be a standard 30" range with four burners, and oven. Color to be chosen by the owner. Submit brand to Rehab Office on Bid Document.
- B. Gas Range shall be a standard 30" range with four burners and oven. Color to be chosen by owner. Submit brand to Rehab Office on Bid Document.
- C. Refrigerator shall have a minimum 12.2 cubic foot capacity, and be approximately 28" wide. Color to be chosen by owner. Submit brand to Rehab Office on Bid Document.
- D. 30" vented range hood shall be installed. Color and brand to be chosen by owner. Non-vented hood shall only be installed with the approval of owner and Rehab Office.

3. Execution

Contractor is to submit catalogue cuts of all appliances prior to installation. Installation shall be in accordance with manufacturer's instruction. Contractor shall supply the owner and Rehab Office with a manufacturer's warranty certificate and instruction manual for the care and maintenance of the equipment supplied.

4. Repair

Furnish and install all labor and materials necessary to repair appliance. Contractor to ensure no damage to other parts during process of making repairs. Contractor shall warranty appliance for one year after the repairs are made.

10.F. FIRE EXTINGUISHER

Furnish and install one 5 lb. Class ABC 2A-rated fire extinguisher. Fire extinguisher shall be hung in a readily accessible location with the supplied bracket.

10.G. INTERIOR DRAIN TILE

- 1. When installing an interior drain tile system care shall be taken at all times to protect the owners property from damage. Any property in the basement shall either be moved to a safe place or covered with plastic or drop cloths to protect it. Care shall be taken to seal the basement from the rest of the house so that a minimum of dust migrates into the house. Care shall be taken so that the furnace, water heater, and any other mechanical systems remains clean and free of dust or dirt caused by the installation of the drain tile system. The contractor shall be responsible for cleaning any systems which become dirty during the course of the work.
- 2. The basement floor shall be cut and removed approximately 18" from the wall, and the

broken concrete shall be disposed of properly off site. Excavate the area to a sufficient level to allow for 2" of gravel under the 3" drain pipe. Install a minimum 2" of gravel or crushed rock in the trench. If the basement walls are concrete block, drill 1 " holes in the base of each core of each block to allow cores to drain to the tile system, these holes shall be below the level of the floor, and care shall be take so that holes drain to the drainage bed. If necessary, plastic pipe shall be inserted in each hole to assure proper drainage. If non filtered drainage pipe is used, rock shall be covered with a filter fabric. 3" perforated drain tile shall be installed, perforated side down, so that a fall of 1" in 17-20' is maintained towards the sump pit. If unfiltered pipe is used, tile shall be covered with filter fabric prior to installing gravel or rock.

3. Gravel or crushed rock shall then be installed to the level of the underside of the existing concrete floor, but at least 1" of gravel shall cover the footing to allow for drainage from the wall. If necessary a 4" x 4" curb shall be constructed to allow the wall to drain to the drainage bed. (This curb may be formed with a 2x4 and filled with gravel to allow for drainage.) 4000 lb. mix concrete shall then be installed with the finish to match that of the existing floor.

Acceptable Materials

A. Drain Tile

1. 3" ADS plastic drainage tile with perforations.
2. 3" ADS plastic drainage tile with perforations and filter wrap.
3. 3" PVC sewer and drain with perforations.

B. Fill

1. 1/2" washed river gravel.
2. 1/2" washed crushed rock.

C. Filter Cloth

1. Geotextile: Fabric shall have a minimum thickness of 50 mil and shall conform to AASHTO, Designation:" M288, Standard Specification.

10.H. EXTERIOR DRAIN TILE

1. Care shall be taken at all times to protect the property of the owner and adjoining properties. Contractor will be responsible for restoring all damaged areas to an equal or better condition when the project is completed.
2. The perimeter of the foundation shall be excavated to a width that provides a safe working environment, to the depth of the footing. Care shall be taken at all times to avoid damaging the foundation wall. The wall shall then be scraped, power washed, or sand blasted to remove all dirt or other material that would hinder adhesion of the new waterproofing material. A waterproofing product such as Sonneborn HLM 5000 or approved equal shall then be applied. The waterproofing shall start at the base of the foundation wall and extend over the footing to provide a seal at that joint. It shall then extend upward to a level equal to that of the level of back fill. If the product is made in various consistencies it is recommended that the type that can be applied with a brush be used. While the waterproofing is still wet, closed cell polystyrene foam shall be applied to protect the waterproofing from damage. The foam shall cover the same area as the

waterproofing, and the joints shall be taped with a waterproof tape.

3. A 6" gravel bed shall be installed next to the footing, and the drain tile shall be installed so that the bottom of the tile is 4" below the level of the finished floor inside the basement. The tile shall then be covered with a minimum 24" of gravel or crushed rock and covered with filter cloth and backfilled with the material previously removed. Backfill shall be tamped as it is installed, see section 2.C., but care must be taken to avoid damaging the foundation wall. The contractor shall be responsible for restoring the yard to an equal or better condition and will be required to return when settling has occurred to install additional backfill.

Acceptable Materials

A. Drain Tile

1. 3" or 4" ADS plastic drainage tile with perforations and filter wrap.

B. Drainage Bed Fill

1. 1/2" washed river gravel.
2. 1/2" washed crushed rock.

C. Filter Cloth

1. Geotextile: Fabric shall have a minimum thickness of 50 mil and shall conform to AASHTO, Designation: M288, Standard Specification.

D. Insulation

1. Shall be 1" closed cell extruded polystyrene foam panels.

E. Waterproofing

1. Shall be a modified polyurethane that cures chemically to form a rubber like, seamless waterproofing membrane, such as Hydroxide Liquid Membrane 5000 as manufactured by Sonneborn, or approved equal. Product shall be capable of bridging cracks up to 1/16".

10.I. SUMP PIT AND PUMP

1. A sump pit shall be installed in a suitable location (usually the lowest area) in the basement to facilitate the drainage of the tile system. The liner shall consist of an ADS plastic liner with a radon lid. The liner shall be 24" in diameter and 24" deep. The hole for the liner shall be over dug so that it is surrounded by a minimum of 5" of 1/2" washed river gravel or washed crushed rock. The lid of the liner shall be flush with the finished floor. The liner shall be cut so that the drain tile drains into it.
2. A good quality submersible sump pump shall be installed in the pit. It shall drain to the exterior through schedule 40 PVC pipe equal in diameter to the discharge of the pump. A check valve shall be installed in the discharge line. A dedicated single outlet for the sump pump shall be installed near enough to the pump so that the cord for the pump will reach the outlet. Any concrete patches necessary shall be finished to an equal quality to the surrounding floor.