

SECTION 22 13 19.13 SANITARY DRAINS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes:
 - 1. Floor drains.
 - 2. Linear Shower drains.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 DRAIN ASSEMBLIES

- A. Sanitary drains shall bear label, stamp, or other markings of specified testing agency.
- B. Comply with NSF 14 for plastic sanitary piping specialty components.

2.2 FLOOR DRAINS

- A. Cast-Iron Floor Drains (FD-#): Refer to the Plumbing Floor Drain Schedule on the Plumbing Drawings for additional information and specific floor drain designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Jay R. Smith Mfg Co; a division of Morris Group International.
 - b. Josam Company.
 - c. Wade; a subsidiary of McWane Inc.
 - d. Zurn Industries, LLC.
 - e. Or equal as approved by the Professional.
 - 2. Standard: ASME A112.6.3.

3. Pattern: Area or Floor drain.
4. Body Material: Gray iron.
5. Seepage Flange: As Required.
6. Anchor Flange: As Required.
7. Clamping Device: As Required.
8. Outlet: Bottom or Side as scheduled.
9. Backwater Valve: Refer to Schedule
10. Exterior Surfaces: As scheduled.
11. Sediment Bucket: As required.
12. Top or Strainer Material: As Scheduled.
13. Top of Body and Strainer Finish: As Scheduled.
14. Top Shape: Round or Square as scheduled.
15. Top Loading Classification: As scheduled.
16. Trap Material: As Scheduled.
17. Trap Pattern: Deep-seal P-trap or Standard P-trap as required.

2.3 LINEAR SHOWER DRAINS

- A. Linear Shower Drains (LSD-#): Refer to the Plumbing Floor Drain Schedule on the Plumbing Drawings for additional information and specific trench drain designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.
 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Jay R. Smith Mfg Co; a division of Morris Group International.
 - b. Josam Company.
 - c. Zurn Industries, LLC.
 - d. Or equal as approved by the Professional.
 2. Basis of Design: Zurn Model# ZS880- 60.
 3. Material: Type 304 Stainless Steel.
 4. Anchoring Support Flange: Stainless steel.
 5. Outlet: 2" No-Hub, center outlet.
 6. Grate Material: Stainless steel.
 7. Dimensions of Frame and Grate: 62" x 4-15/32" (60" x 2-15/32")

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor, unless otherwise indicated.
 1. Position floor drains for easy access and maintenance.
 2. Set floor drains below elevation of surrounding finished floor to allow floor drainage.
 3. Set with grates depressed according to the following drainage area radii:
 - a. Radius, 30 Inches or Less: Equivalent to 1 percent slope, but not less than 1/4-inch total depression.
 - b. Radius, 30 to 60 Inches: Equivalent to 1 percent slope.

- c. Radius, 60 Inches or Larger: Equivalent to 1 percent slope, but not greater than 1-inch total depression.
- 4. Install floor-drain flashing collar or flange, so no leakage occurs between drain and adjoining flooring.
 - a. Maintain integrity of waterproof membranes where penetrated.
- 5. Install individual traps for floor drains connected to sanitary building drain, unless otherwise indicated.
- B. Install linear shower drain at low points of surface areas to be drained.
 - 1. Set grates of drains flush with finished surface, unless otherwise indicated.

3.2 CONNECTIONS

- A. Comply with requirements in Section 221316 "Sanitary Waste and Vent Piping" for piping installation requirements. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Comply with requirements in Section 221319 "Sanitary Waste Piping Specialties" for backwater valves, air admittance devices and miscellaneous sanitary drainage piping specialties.
- C. Install piping adjacent to equipment to allow service and maintenance.

3.3 LABELING AND IDENTIFYING

- A. Distinguish among multiple units, inform operator of operational requirements, indicate safety and emergency precautions, and warn of hazards and improper operations, in addition to identifying unit. Nameplates and signs are specified in Section 220553 "Identification for Plumbing Piping and Equipment."

3.4 PROTECTION

- A. Protect drains during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic or construction work.
- B. Place plugs in ends of uncompleted piping at end of each day or when work stops.

END OF SECTION