

SECTION 22 14 23

STORM DRAINAGE PIPING SPECIALTIES

PART 1 GENERAL

1.01 OPERATION AND MAINTENANCE DATA

- A. Include documentation of inspections and tests performed, including logs, curves, and certificates.
- B. Documentation shall note replacement of equipment or components that failed during testing.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Planter drains, deck drains, garage drains, trench drains, roof drains, downspout nozzles, storm drain expansion joints, cleanout fittings:
 - 1. Josam
 - 2. J.R. Smith
 - 3. Wade
 - 4. Zurn (Kitchen Floor Sinks: Zurn Z-1751 Sani-Flor Receptor)
 - 5. Froet (To be considered on all new buildings).
 - 6. Roof and overflow drains shall be equipped with a cast iron dome. Poly domes are not allowed.
- B. Trench Drains (Heavy Duty Cast Iron Grate and Frame):
 - 1. J-Mark Foundry
 - 2. Maclear Manufacturing Co.
 - 3. Neenah Foundry

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install expansion joints on vertical risers, stacks, and conductors if indicated.
- B. Cleanouts in aboveground piping and building drain piping:
 - 1. Size same as drainage piping up to NPS 4. Use NPS 4 for larger drainage piping unless larger cleanout is indicated.
 - 2. Locate at each change in direction of piping greater than 45 degrees.
 - 3. Locate at minimum intervals of 50 feet for all piping.
 - 4. Locate above the floor at the base of each vertical soil and waste stack.
 - 5. Place two-way cleanouts on all building sewers.
- C. For floor cleanouts for piping below floors, install cleanout deck plates with top flush with finished floor.
- D. Install cleanout wall access covers, of types indicated, with frame and cover flush with finished wall, for cleanouts located in concealed piping.
 - 1. Provide cleanouts above urinals (56" AFF) and lavatory gangs (42" AFF or at least above flood level of lavatory). If wall is partially covered with tile, the cleanout shall be within the tile field or above it, not partially in each.
 - 2. Provide cleanouts 6" above highest trap on that floor on the main vent of each group of fixtures and in vent stacks for isolated fixtures on each floor.
 - 3. Provide full size cleanouts at base of each stack, maximum 50 foot intervals on horizontal runs, and at end of each horizontal run.

4. Provide cleanout plugs line-size up to 3", and 4" for line sizes 4" through 6".
 5. Provide wall cleanouts where piping is concealed in walls or non-accessible chases, 42" AFF.
 6. Where cast iron pipe is used, specify cleanouts with cast iron bodies and threaded "ABS" or "Delrin" plugs.
- E. Install flashing flange and clamping device with each stack and cleanout passing through floors with waterproof membrane.
- F. Roof drain installation:
1. Install roof-drain flashing collar or flange so no leakage occurs between drain and adjoining roofing. Maintain integrity of waterproof membranes where penetrated.
 2. Roof and overflow drains to be installed in the same sump.
 3. Position roof drains for easy access and maintenance.
 4. Also refer to Division 7 standards.
 5. Coordinate location and depth of drains to assure adequate pitch of the drainage area to drain.
- G. Fasten wall-hanging plumbing specialties securely to supports attached to building floor. Floor mounted carriers are required for wall-mounted plumbing fixtures.
- H. Fasten recessed-type plumbing specialties to reinforcement built into walls.

END OF SECTION 22 14 23