

SECTION 22 13 16

GREYWATER COLLECTION AND DISTRIBUTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - a. Greywater collection piping
 - b. Distribution piping
 - c. Connections to treatment system
 - d. Venting requirements

1.2 RELATED SECTIONS

- A. Section 32 84 25 - Greywater Treatment and Irrigation System
- B. Section 03 30 00 - Cast-in-Place Concrete
- C. Section 22 13 00 - Facility Sanitary Sewerage

1.3 REFERENCES

- A. Applicable plumbing codes
- B. Local health department regulations
- C. Manufacturer's specifications

1.4 SUBMITTALS

- A. Product Data:
 - a. Pipe specifications
 - b. Fitting specifications
 - c. Installation methods
- B. Shop Drawings:
 - a. Connection details to the Estuary
 - b. Venting details

1.5 QUALITY ASSURANCE

- A. Installer Qualification:
 - a. Licensed plumber
 - b. Minimum 1 year experience with greywater systems

- c. Familiar with local codes

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Collection Piping:
 - a. Material: Schedule 40 PVC
 - b. Size: As specified by manufacturer in shop drawings
 - c. Fittings: Compatible with pipe material
- B. Venting
 - a. Material: Schedule 40 PVC
 - b. Size: Per local code requirements
 - c. Termination: Per local code requirements
- C. Valves
 - a. Type: Ball valves
 - b. Material: PVC
 - c. Pressure rating: 150 PSI minimum

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify connection points
- B. Confirm pipe sizes
- C. Review manufacturer requirements

3.2 INSTALLATION

- A. Collection System:
 - a. Minimum slope: 2% or per local code
 - b. Support spacing: Per code requirements
 - c. Clean-out locations: Per code requirements
- B. Connections to Treatment System:
 - a. Follow manufacturer's specifications and use manufacturer's template to ensure correct stub-out spacing of 4.5" OC
 - b. Install isolation valves
 - c. Provide flexible connections where specified

3.3 FIELD QUALITY CONTROL

- A. Testing:
 - a. Pressure test all lines
 - b. Verify proper drainage
 - c. Check for leaks

3.4 COORDINATION

- A. Coordinate with manufacturer for:
 - a. Final connections to treatment system
 - b. System testing
 - c. Startup procedures

END OF SECTION