

SECTION 221323 - SANITARY WASTE INTERCEPTORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Grease interceptors.
 - 2. Solids interceptors.

1.3 DEFINITIONS

- A. FRP: Fiberglass-reinforced plastic.
- B. PP: Polypropylene plastic.

1.4 SUBMITTALS

- A. Submit manufacturer's data for review before any work is commenced.

1.5 RELATION TO OTHER WORK

- A. Refer to the section, "General Plumbing Provisions", for related requirements. Refer to other sections of Division 22 and to all other applicable portions of the Drawings and Specifications.

PART 2 - PRODUCTS

2.1 GREASE INTERCEPTORS

- A. Plastic Grease Interceptors:
 - 1. Shier Products
 - 2. Schier Great Basin grease interceptor shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 7/16" uniform wall thickness. Interceptor shall be furnished for below-grade installation with adjustable cover adapter and Safety Star® access restrictor built into each cover adapter. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1 and IAPMO/ANSI Z1001-2021. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity. Interceptor shall be furnished with field cut riser model # FCR2 to enable access for below grade installation. Standard: ASME A112.14.3 and PDI-G101, for intercepting and retaining fats, oils, and greases from food wastewater.

3. Provide Schier high water anchor kit.

2.2 KITCHEN SOLID INTERCEPTORS

A. Plastic Solids Interceptors:

1. Shier Products.
2. Schier solids interceptor shall be lifetime guaranteed and made in USA of seamless, rotationally molded polyethylene. Interceptor shall be furnished for below grade installation with adjustable cover adapter and Safety Star® access restrictor built into cover adapter and three outlet options. Cover shall provide water/ gas-tight seal and have minimum 16,000 lbs. load capacity. Interceptor shall be furnished with field cut riser model # FCR2 to enable access for below grade installation.
3. Provide Schier high water anchor kit.

2.3 SAMPLING PORT

A. Plastic Sampling Port:

1. Shier sampling port shall be lifetime guaranteed and made in USA of seamless, rotationally molded polyethylene. Sampling port shall be furnished for below grade installation. Cover shall provide water/ gas-tight seal and have maximum 16,000 lbs. load capacity. Sampling port shall be furnished with field cut riser model # FCR10 to enable access for below grade installation.

2.4 SAMPLING PORT

A. Plastic lint Interceptors:

1. Striem Products.
2. Striem lint interceptor shall be lifetime guaranteed and made in USA of molded polyethylene. Interceptor shall be certified to IAPMO/ANSI/CAN Z1167 and carry a UPC listing. Interceptor shall be furnished for below grade installation with adjustable cover adapter. Cover shall provide water/ gas-tight seal and have minimum 2,000 lbs. load capacity. Interceptor shall be furnished with field cut riser model to enable access for below grade installation. Interceptor shall have removable, corrosion-resistant filter basket.
3. Provide optional high water anchor flange.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Equipment Mounting:

1. Install plastic interceptors below grade at exterior locations per manufacturer's recommendations for high water table. Install anchor kits and provide concrete deadmen when indicated by manufacturer. Deadmen shall be sized per structural engineer to prevent high water table uplift. Provide concrete slab at grade level above interceptors for

installation of cover. Concrete slab shall be sized per interceptor manufacturer recommendations.

2. Comply with requirements for equipment bases and foundations specified in Section 033000 "Cast-in-Place Concrete."

- B. Install precast concrete interceptors according to ASTM C 891.
- C. Install manhole risers from top of underground interceptors to manholes and gratings at finished grade.
- D. Set tops of manhole frames and covers flush with finished surface in pavements.
- E. Set tops of grating frames and grates flush with finished surface within concrete slab per manufacturer's recommendations.
- F. Install grease interceptors, including trapping, venting, and flow-control fitting, according to authorities having jurisdiction and with clear space for servicing.
 1. Install cleanout immediately downstream from interceptors not having integral cleanout on outlet.
- G. Install solids interceptors with cleanout immediately downstream from interceptors that do not have integral cleanout on outlet.
 1. Install trap on interceptors that do not have integral trap and are connected to sanitary drainage and vent systems.

3.2 CONNECTIONS

- A. Piping installation requirements are specified in Section 221316 "Sanitary Waste and Vent Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Make piping connections between interceptors and piping systems.

3.3 IDENTIFICATION

- A. Pipe and tubing shall be labeled to indicate its fluid content. Metal tags, stenciling or adhesive markers may be used if affixed so as not to be readily removable. Provide at all valves, tees and elbows, and not more than 20 feet apart on straight runs of pipe

3.4 PROTECTION

- A. Protect sanitary waste interceptors from damage during construction period.
- B. Repair damage to adjacent materials caused by sanitary waste interceptor installation.

END OF SECTION 221323