

SECTION 334236 – STORMWATER TRENCH DRAINS

TIPS:

This document includes **Specifier/Editor Notes** in hidden text. For instructions on how to view non-printing **Specifier/Editor Notes** that provide guidance for editing, click on the link below:
www.bim.net/displaying-hidden-text-in-microsoft-word-step-by-step-instructions-for-windows-and-mac/.

Revise this Section by adding, changing, and deleting text to meet Project-specific requirements.

DISCLAIMER:

Information contained in this specification conforms to standard detail and product recommendations for the installation of the specified products as of the date of publication of this document and is presented in good faith. J.R. Hoe and its affiliates assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. Visit our website or contact J.R. Hoe for the most current information.

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. Trench drain castings.
- B. Related Requirements:
 - 1. Section 077123 “Manufactured Gutters and Downspouts” for downspout boots.
 - 2. Section 334111 “Site Storm Utility Drainage Piping” for storm piping.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Manufacturer’s typical installation details.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.

- B. **Source Limitations: Provide each type of product from a single source supplying products manufactured in the USA.**

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product, date of manufacture, and directions for storage.
- B. Protect stored materials from damage due to weather, excessive temperature, and construction operations.
- C. Handle materials in accordance with manufacturer's recommendations.

1.6 WARRANTY

- A. Material Warranty: Provide manufacturer's standard material warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide products manufactured by the following:
 - 1. EVERGRATE – a division of J.R. Hoe, 101 Ironwood Road, Middlesboro, KY 40965.
www.evergrate.com
- B. Substitution Limitations: **[Not permitted.] [Comply with provisions of Division 01 Section for "SUBSTITUTION PROCEDURES."]**

2.2 TRENCH DRAIN CASTINGS

- A. Architectural Trench Drains:
 - 1. Grate Material: Cast Iron.
 - 2. Rating: Pedestrian.
 - 3. Grate Design: **[Metro] [Continuum] [Tsunami] [Solid]**.
 - 4. Grate Thickness: **7/8 inch**, minimum.
 - 5. Width: **[6 inches] [8 inches] [12 inches] [14 inches]**.
 - 6. Frame Type: [Standard angle frame] [Channel frame, **6 inch** fixed depth].
 - 7. Grate Anchors: Manufacturer's recommended stainless steel, theft-resistant anchors.
 - 8. **[Curb Openings: Cast iron curb opening with radius profile to protect concrete from deterioration and resist wheel impact]**.
 - 9. Integrated Downspout Boot: Cast iron downspout boot assembly engineered to connect with trench drain.
 - a. Casting Thickness: **3/8 inch**, minimum.

- b. **[On-Body Cleanout: Provide cleanout and steel cleanout cover with neoprene gaskets and tamper-proof stainless steel screws.]**
 - c. Wall Anchors: Manufacturer's recommended stainless steel anchors.
 - d. Finish: **[Exterior powder coat] [Primer coat].**
 - e. Color: **[As selected by Architect from manufacturer's full range] [As indicated in Drawings] <Insert description>.**
10. Basis of Design Product: Evergrate, a division of J.R. Hoe.

2.3 MATERIALS

A. Recycled Content:

- 1. **Cast Iron Products: Provide products such that the sum of post-consumer recycled content plus one-half of the pre-consumer recycled is at least 70 percent.**

B. Cast Iron: Free of surface blemishes and complying with the following:

- 1. Gray-Iron Castings: ASTM A 48/A 48M, Class 30.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install according to manufacturer's written instructions and details.

END OF SECTION 334236