

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Manufactured Downspout Adapters.

### 1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work of this Section.

#### ***EDIT THE FOLLOWING RELATED DOCUMENTS LISTED BELOW PER JOB***

- B. Metal Fabrications as specified in Division-5
- C. Sheet Metal Flashing and Trim as specified in Division-7
- D. Manufactured Gutters and Downspouts as specified in Division-7
- E. Facility Storm Drainage as specified in Division-22
- F. Storm Utility Drainage Piping as specified in Division-33

### 1.3 SUBMITTALS

- A. Product Data: Manufacturer's technical product data, installation instructions and general recommendations for each specified fabricated product.
- B. Shop Drawings: Show layouts, profiles, shapes, dimensions, and details for fastening, joining, supporting, and anchoring downspout adapters. Provide details at a scale of 3" equal to 1'-0". If multiple finishes are required per documents, layouts shall indicate finish type.
- C. Samples: Upon request, provide a full size sample of each size in the specified factory finish. After approval, samples provided may be used for construction.

### 1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing metal fabrications similar to those described in this section and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

## PART 2 - PRODUCTS

## 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
1. Piedmont Downspout Adapters by Piedmont Pipe Construction, Inc. (1.877.489.0911) 7907 Commerce Drive, Denver, North Carolina, 28037 [www.piedmontpipe.com](http://www.piedmontpipe.com)
  2. Approved substitute.

## 2.2 MATERIALS

- A. Downspout Adapter Body: Standard construction shall be 12 gauge 0.1094" thick Stainless Steel, ASTM A 240/A 240M, Type 304. Body size to be as indicated on the bid documents. Downspout bodies shall have one of the following finishes:

***SELECT ONE OR MORE OF THE FOLLOWING FINISH TYPES BELOW***

- A. Powder Coat: A 40 mil UV resistant polyurethane finish coating shall be electro-statically applied to the chemically prepared metal surfaces at a temperature not below 250 degrees.
1. Color:  
One of six standard Cardinal Powder colors:
    - a) Black P004-BK02
    - b) White T002-WH08
    - c) Grey P004-GR09
    - d) Almond T009-BG01
    - e) Green C006-GN03
    - f) Bronze T025-BR01
    - g) Custom colors, and custom color matching may be required.
  2. Sandblasted Finish
  3. Brushed Finish
  4. Mirror Polish Finish
- B. Downspout Adapter Collar: Provide 12 gauge 0.1094" thick Stainless Steel, ASTM A 240/A 240M, Type 304, collar to accept the downspout shape and size as indicated in the drawings.
- C. Internal Sweep: Provide an electronically fused internal sweep elbow to ensure a smooth quite transition of flow on all horizontal outlet boots. The internal sweep elbow shall be manufactured of 12 gauge 0.1094" thick Stainless Steel, ASTM A 240/A 240M, Type 304.
- D. Boot Discharge Outlets: Shall be ASTM A 240/A240M, Type 304 stainless steel and shall be sized for connection to the roof drain leader piping. An adapter coupling shall be provided with the downspout boot specifically designed to provide a watertight connection between the roof drain leader piping and the boot outlet. Type and size of pipe as indicated on project plans and specifications.

***SELECT ONLY "CLEANOUT COVER" FOR STANDARD DOWNSPOUT ADAPTER. SELECT ONLY "SELF-CLEANING DEBRIS TRAP" FOR SELF-CLEANING DOWNSPOUT ADAPTER.***

- E. Cleanout: All downspout boots shall be provided with access to the interior of the boot for maintenance. As a minimum, an access port of 31/2" x 41/2" shall be provided. A removable clean out access cover shall be mechanically attached to the body of the downspout boot using vandal resistant 1/4" x 1/2" 304 stainless steel pan head bolts. A neoprene rubber gasket shall be installed under the cleanout cover to ensure a watertight seal. The clean out cover shall be 12 gauge 0.1094" thick Stainless Steel, ASTM A 240/A 240M, Type 304.
- E. Self Cleaning Debris Trap: An optional self cleaning debris trap shall be required by designating the letters 'DT' in the model number shown in bid documents. The self evacuating debris trap door shall be 12 gauge 0.1094" thick Stainless Steel, ASTM A 240/A 240M, Type 304. The debris trap door shall be hinged and balanced to allow debris to be evacuated by the flow of water only. A removable stainless steel debris screen, ASTM A 240/A 240M, Type 304 shall be installed to protect the roof drain leader piping from debris.

### 2.3 FABRICATION, GENERAL

- A. Metal Surfaces: For metal fabrications exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- B. Conceal all anchoring fasteners, unless otherwise indicated.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. General: Install downspout adapters according to manufacturer's written instructions. Anchor securely in place and capable of resisting forces specified. Install downspout adapters to resist exposure to weather without failing, rattling, leaking, and fastener disengagement.
- B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by fabricator or manufacturers of dissimilar metals.
- C. Seal anchor penetrations with elastomeric sealant as required by manufacturer of downspout adapters.

END OF SECTION 07 71 23.13