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July 2011

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers are from *MasterFormat 2011 Update*.

SECTION 05 73 00

DECORATIVE ALUMINUM RAILINGS

Specifier Notes: This section covers Digger Specialties, Inc. “Westbury[®]” decorative aluminum railings. Consult Digger Specialties, Inc. for assistance in editing this section for the specific application.

The following models of “Westbury” decorative aluminum railings are included in this section:

“C10/C101 Tuscany”
“C20 Montego”
“C30/C301 Riviera”
“C30R/C301R Riviera R”
“C31/C311 Riviera I”
“C32/C321 Riviera II”
“C33/C331 Riviera III”
“C34/C341 Riviera IV”

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Decorative aluminum railings.

1.2 REFERENCE STANDARDS

Specifier Notes: List reference standards mentioned in this section, complete with designations and titles. Delete reference standards not included in this edited section. This article does not require compliance with reference standards, but is merely a listing of those used.

- A. AAMA 2604 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
- B. AAMA 2605 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

1.3 SUBMITTALS

Specifier Notes: Edit submittal requirements as required. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, fabrication, fasteners, hardware, mounting, finish, options, and accessories.
- D. Samples: Submit manufacturer's samples:
 - 1. Aluminum railings.
 - 2. Standard color samples.
- E. Manufacturer's Certification:
 - 1. Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

Specifier Notes: Models C10, C30, C30R, C31, C32, C33, and C34 have Code Council Research Report (CCRR) No. 0163. Include the following sentence when specifying any of these models.

- 2. Submit Code Council Research Report (CCRR) No. 0163.
- F. Test Reports:
 - 1. Structural Tests: Submit structural performance test report from manufacturer for aluminum railings.

Specifier Notes: Include AAMA 2604 or AAMA 2605 in the following sentence. Coordinate with Article 2.3 Finishes in this section.

2. Coatings: Submit verification that manufacturer has successfully tested their powder coating process and powder coating finish in compliance with [AAMA 2604] [AAMA 2605] specifications.
3. Testing: Performed by qualified, independent testing laboratories.

G. Cleaning Instructions: Submit manufacturer's cleaning instructions.

H. Warranty Documentation: Submit manufacturer's standard warranty.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements:

1. Store and handle materials in accordance with manufacturer's instructions.
2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
3. Store materials in clean, dry area.
4. Keep materials dry.
5. Protect materials and finish during storage, handling, and installation to prevent damage.

1.5 WARRANTY

A. Warranty Period: Lifetime.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Digger Specialties, Inc., PO Box 241, Bremen, Indiana 46506. Toll Free (800) 446-7659. Phone (574) 546-5999. Fax (574) 546-5099. Web Site www.diggerspecialties.com. E-mail info@diggerspecialties.com.

2.2 DECORATIVE ALUMINUM RAILINGS

A. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C10 Tuscan" when square spindles are used. Specify Model "C101 Tuscan" when round spindles are used.

1. Model: ["C10 Tuscan"] ["C101 Tuscan"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

- 3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

- 4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
- 5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.

- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

- 6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
- 7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
- 8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
- 9. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.

- f. No open bottoms.
 - g. Insert: PVC extrusion.
10. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

11. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

12. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

13. Railing supports.

- B. Aluminum Railings: "Westbury" aluminum railing.
- 1. Model: "C20 Montego".
 - 2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

3. Posts, 2 inches by 2 inches:
- a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

- 4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
- 5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.
- 6. Square Spindles:
 - a. Type: Belly.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
- 7. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
8. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
9. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

10. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

11. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

12. Railing supports.

- C. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C30 Riviera" when square spindles are used. Specify Model "C301 Riviera" when round spindles are used.

1. Model: ["C30 Riviera"] ["C301 Riviera"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
 - c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
 - d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
 - e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
 - f. Wall Thickness: 0.125 inch.
 - g. Welded plate adjustable leveling system.
 - h. Flair: 2-piece, zinc die-cast alloy.
5. Posts for Core Drilling, 2 inches by 2 inches:
- a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

6. Square Spindles:
- a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.

Specifier Notes: Add one spindle between top and mid rails centered for the 7-foot and 8-foot railing sections. The additional spindle will add support for the top rails.

- g. Additional Spindle: Between top and mid rails centered in railing section.
7. Round Spindles:
- a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.

Specifier Notes: Add one spindle between top and mid rails centered for the 7-foot and 8-foot railing sections. The additional spindle will add support for the top rails.

- g. Additional Spindle: Between top and mid rails centered in railing section.
8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
9. Mid Rails:
- a. Type: Straight.
 - b. Material: 6005-T6 aluminum.
 - c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
11. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

12. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

13. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

14. Railing supports.

D. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C30R Riviera R" when square spindles are used. Specify Model "C301R Riviera R" when round spindles are used.

1. Model: ["C30R Riviera R"] ["C301R Riviera R"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

- 4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
- 5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

- 6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.

- e. Spacing: 3.875 inches.
- f. Installs into top and bottom rails without screws.
- 7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
- 8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
- 9. Mid Rails:
 - a. Type: Straight.
 - b. Material: 6005-T6 aluminum.
 - c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
- 10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.

- g. Insert: PVC extrusion.
- 11. Rings:
 - a. Continuous row of rings between top and mid rails.
 - b. Outside Diameter: 3-7/8 inches.
 - c. Inside Diameter: 3-1/8 inches.
 - d. Width: 3/4 inch.
 - e. Tabs on rings press fit into bottom of top rails and into top of mid rails.
- 12. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

- 13. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

- 14. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

- 15. Railing supports.

- E. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C31 Riviera I" when square spindles are used. Specify Model "C311 Riviera I" when round spindles are used.

- 1. Model: ["C31 Riviera I"] ["C311 Riviera I"].
- 2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every spindle location.
7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every spindle location.
8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
9. Mid Rails:
 - a. Type: Straight.
 - b. Material: 6005-T6 aluminum.
 - c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
11. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

12. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

13. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

14. Railing supports.

- F. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C32 Riviera II" when square spindles are used. Specify Model "C321 Riviera II" when round spindles are used.

1. Model: ["C32 Riviera II"] ["C321 Riviera II"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

- 3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

- 4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
- 5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.

- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

- 6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every second spindle location.
- 7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every second spindle location.
- 8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
- 9. Mid Rails:
 - a. Type: Straight.
 - b. Material: 6005-T6 aluminum.
 - c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
- 10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
11. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

12. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

13. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

14. Railing supports.

G. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C33 Riviera III" when square spindles are used. Specify Model "C331 Riviera III" when round spindles are used.

1. Model: ["C33 Riviera III"] ["C331 Riviera III"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

- 3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

- 4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
- 5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].

- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

- 6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every third spindle location.
- 7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every third spindle location.
- 8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
- 9. Mid Rails:
 - a. Type: Straight.
 - b. Material: 6005-T6 aluminum.
 - c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.

10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
11. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

12. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

13. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

14. Railing supports.

H. Aluminum Railings: "Westbury" aluminum railing.

Specifier Notes: Specify Model "C34 Riviera IV" when square spindles are used. Specify Model "C341 Riviera IV" when round spindles are used.

1. Model: ["C34 Riviera IV"] ["C341 Riviera IV"].
2. Railings:

Specifier Notes: Specify railing dimensions.

- a. Height: [36 inches] [42 inches].
- b. Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].
- c. Stair Rail Length: [3 feet] [4 feet] [5 feet] [6 feet] [7 feet] [8 feet].

Specifier Notes: Specify **one** of the following **three** posts.

3. Posts, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2 inches by 2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.090 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify 2-1/2-inch by 2-1/2-inch by 0.125-inch "Power Post" posts for IBC compliance.

4. Posts, 2-1/2 inches by 2-1/2 inches: "Power Post".
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights.

- b. Through Railing Posts: 2-1/2 inches by 2-1/2 inches by [37 inches] [43 inches].
- c. Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- d. Corner Crossover Railing Posts: 2-1/2 inches by 2-1/2 inches by [36 inches] [42 inches].
- e. Stair Posts: 2-1/2 inches by 2-1/2 inches by [47 inches] [53 inches].
- f. Wall Thickness: 0.125 inch.
- g. Welded plate adjustable leveling system.
- h. Flair: 2-piece, zinc die-cast alloy.
5. Posts for Core Drilling, 2 inches by 2 inches:
 - a. Material: 6063-T6 aluminum.

Specifier Notes: Specify railing post and stair post heights. Specify through railing posts or crossover railing posts.

- b. Through Railing Posts: 2 inches by 2 inches by [45 inches] [51 inches].
- c. Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- d. Corner Crossover Railing Posts: 2 inches by 2 inches by [42 inches] [48 inches].
- e. Stair Posts: 2 inches by 2 inches by [55 inches] [61 inches].
- f. Wall Thickness: 0.090 inch.
- g. Flair: 2-piece, zinc die-cast alloy.

Specifier Notes: Specify **one** of the following **two** spindles.

- 6. Square Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Square, 3/4 inch by 3/4 inch.
 - d. Wall Thickness: 0.053 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every fourth spindle location.
- 7. Round Spindles:
 - a. Type: Straight.
 - b. Material: 6063-T52 aluminum.
 - c. Size: Round, 0.75-inch diameter.
 - d. Wall Thickness: 0.060 inch.
 - e. Spacing: 3.875 inches.
 - f. Installs into top and bottom rails without screws.
 - g. Spindle between top and mid rails at every fourth spindle location.
- 8. Top Rails:

Specifier Notes: Specify type of top rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-3/8 inches, 0.085-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius top rails.

- e. 90-Degree Corners: Welded.
- f. No open bottoms.
- g. Insert: PVC extrusion.
- 9. Mid Rails:
 - a. Type: Straight.
 - b. Material: 6005-T6 aluminum.

- c. Size: Rectangular, 1.25 inches by 1.75 inches.
 - d. Wall Thickness: 0.070 inch.
 - e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
10. Bottom Rails:

Specifier Notes: Specify type of bottom rails. The top and bottom rails must be the same type. Consult Digger Specialties, Inc. when specifying radius top and bottom rails.

- a. Type: [Straight] [Radius].
- b. Material: 6005-T6 aluminum.
- c. Width: 1-3/4 inches, 0.090-inch wall thickness.
- d. Thickness: 1-1/4 inches, 0.120-inch wall thickness.

Specifier Notes: Delete the following sentence when specifying radius bottom rails.

- e. 90-Degree Corners: Welded.
 - f. No open bottoms.
 - g. Insert: PVC extrusion.
11. Post Caps:

Specifier Notes: Specify style of post caps.

- a. Style: [Flat] [Ball].
- b. Material: Zinc die-cast alloy.

Specifier Notes: Specify type of stair rail mounts. Hidden screw mounts for level installations are standard. Swivel mounts and adjustable crossover mounts are optional.

12. Stair Rail Mounts: [29 to 41 degrees] [Swivel stair mounts, 0 to 42 degrees] [Compound swivel stair mounts, 0 to 41 degrees vertical, 0 to 41 degrees horizontal] [Adjustable crossover mounts].

Specifier Notes: Angle swivel mounts allow straight rail to come off a post at an angle. Delete angle swivel mounts if not required.

13. Angle swivel mounts.

Specifier Notes: Railing supports are attached to the bottom rail for support of 8-foot straight railing sections and all radius railing sections. Delete railing supports if not required.

14. Railing supports.

2.3 ALUMINUM CONTINUOUS HANDRAIL

- A. Aluminum Continuous Handrail:
1. ADA compliant.
 2. Material: 6063-T52 aluminum.

Specifier Notes: Specify the height of the continuous handrail. Continuous handrail is field installed.

3. Height: [_____ inches] [Indicated on the Drawings].
4. Handrail:

Specifier Notes: Handrail is available in 8-foot, 10-foot, and 16-foot lengths.

- a. Nominal Diameter: 1-3/8 inches.
- b. Wall Thickness: 0.140 inch.
5. Internal connectors.
6. Collar Rings: 1/8 inch, covers handrail splices.
7. Handrail Returns: Continuous, 180 degrees.
8. Wall Returns: Tapered, 1 piece.

Specifier Notes: Specify angle of handrail elbows.

9. Handrail Elbows: [5 degrees] [31 degrees] [34 degrees] [36 degrees] [Indicated on the Drawings].
10. 90-degree handrail elbows.
11. Inside corner mounts.
12. Wall mounts.
13. Internal End Caps: Beveled.

2.4 FINISHES

Specifier Notes: Specify powder coating type. AAMA 2604 powder coating is standard. AAMA 2605 powder coating is an optional upgrade.

- A. Powder Coating: [Verified AAMA 2604 compliant] [Verified AAMA 2605 compliant].
1. VOC: 0.

Specifier Notes: Specify the desired color. Consult Digger Specialties, Inc. for availability of custom colors.

2. Color:
 - a. AAMA 2604 Powder Coating: [Black Fine Texture] [Chocolate] [Clay] [Evergreen] [Gloss Beige] [Gloss White] [Metallic Bronze] [Metallic Bronze Fine Texture] [Sandy Shore] [Satin Black] [Silver] [Speckled Walnut] [_____].
 - b. AAMA 2605 Powder Coating: [Black Fine Texture] [Evergreen] [Gloss Beige] [Gloss White] [Metallic Bronze] [Metallic Bronze Fine Texture] [Satin Black] [_____].

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive aluminum railings.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install aluminum railings in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install aluminum railings plumb, level, square, true to line, and rigid.
- C. Fit exposed connections to form tight, hairline joints.
- D. Attach aluminum railings securely in place using anchors and other components supplied or approved by manufacturer.
- E. Attach aluminum railings to supports as indicated on the Drawings.
- F. Ensure exposed surfaces of aluminum railings are smooth with no sharp, rough, or uneven areas.
- G. Do not damage material finishes by welding, cutting, or abrading.

Specifier Notes: Edit the following paragraph as required.

- H. Site Tolerances:
 - 1. Variation from Plumb, Posts: Maximum 3/32 inch in 3 feet.
 - 2. Offset from True Alignment: Maximum 1/4 inch in 12 feet of length, non-accumulative.
 - 3. Align handrails so variations from level for horizontal members and variations from parallel, with rake of steps and ramps for sloping members: Maximum 1/4 inch in 25 feet of length, non-accumulative.

3.3 ADJUSTING

- A. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- B. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.4 CLEANING

- A. Clean aluminum railings promptly after installation in accordance with manufacturer's instructions.
- B. Remove labels and temporary protective coverings.
- C. Do not use harsh cleaning materials or methods that could damage finish.

3.5 PROTECTION

- A. Protect installed aluminum railings to ensure that, except for normal weathering, railings will be without damage or deterioration at time of Substantial Completion.

END OF SECTION