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SECTION 067300 - COMPOSITE DECKING

TIPS:

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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. **[Plastic] [Composite]** decking.
 - 2. Decking fastening system.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for wood framing, furring, blocking, and other carpentry work not exposed to view[**and for framing exposed to view**].
2. Section 062013 "Exterior Finish Carpentry" for cellular PVC trim and mouldings.
3. Section 072500 "Weather Barriers" for flexible flashing used with decking.
4. Section 076200 "Sheet Metal Flashing and Trim" for sheet metal flashing used with decking.

1.3 ACTION SUBMITTALS

- A. Product Data: For **[plastic]** **[composite]** decking and decking fastening system components. Include installation instructions.
- B. Samples: For decking, not less than **24 inches (600 mm)** long, showing the range of variation to be expected in appearance of decking, including surface texture.

1.4 INFORMATIONAL SUBMITTALS

- A. Evaluation Reports: For the following, from ICC-ES:
 1. **[Plastic]** **[Composite]** decking.
 2. Decking fastening system.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials under cover and protected from weather and contact with damp or wet surfaces. Stack materials flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- B. Handle and store decking materials to comply with manufacturer's written instructions.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of decking system that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures, including cracking, splitting, and deforming.
 2. Warranty Period: **[20]** **[10]** years from date of Substantial Completion.
- B. Fade and Stain Warranty: Provide manufacturer's warranty against color fade and permanent staining within warranty period.
 1. Fading is defined as loss of color of more than **[4]** **[5]** Hunter color-difference units as measured in accordance with ASTM D2244.
 2. Warranty Period: **[50]** **[25]** **[20]** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DIMENSION LUMBER FRAMING

- A. Deck[**and Stair**] Framing: As specified in Section 061000.

2.2 PLASTIC DECKING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide AZEK Building Products; TimberTech AZEK [**Arbor**] [**Harvest**] [**Porch**] [**Vintage**] Collection or comparable product by one of the following:

1. CertainTeed Corporation.
2. Crawford Industries, LLC.
3. Deceuninck North America.
4. Fiberon.
5. Green Bay Decking.
6. Midwest Manufacturing Extrusion.
7. Millennium Decking Inc.
8. Premium Composites LLC.
9. Rhino Deck.
10. Tamko Building Products, Inc.
11. Thermal Industries, Inc.
12. TimberTech.
13. Trex Company, Inc.
14. Universal Forest Products, Inc.
15. Weyerhaeuser Company.
16. **<Insert manufacturer's name>**.

- B. All-Plastic Decking: Solid capped four-sided shapes made from HDPE, PVC, polystyrene, or cellular PVC; with no cellulose fiber.

1. Decking Standard: ICC-ES AC174.
2. Decking Size: [**1 by 3-1/8 inches (25 by 79 mm) actual**] [**1 by 3-1/2 inches (25 by 88 mm) actual**] [**1 by 5-1/2 inches (25 by 140 mm) actual**] [**1 by 7-1/4 inches (25 by 188 mm) actual**].
3. Decking Length: [**10 ft. (3.05 m) actual**] [**12 ft. (3.66 m) actual**] [**16 ft. (4.88 m) actual**] [**20 ft. (6.10 m) actual**].
4. Configuration: Provide product with [**grooved edges designed for fastening with concealed decking fasteners**] [or] [square edges].
5. Surface Texture: [**Brushed**] [**Embossed woodgrain**].
6. Color: [**As indicated by manufacturer's designations**] [**Match Architect's Sample**] [**As selected by Architect from manufacturer's full range**] **<Insert color>**.
7. Fascia Board: **1/2 by 11-3/4 inches by 12 ft. (12.7 by 298.5 mm by 3.66 m) actual** matching decking color.

2.3 COMPOSITE DECKING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide AZEK Building Products; TimberTech **[EDGE Premier]** **[EDGE Prime]** **[EDGE Prime+]** **[PRO Legacy]** **[PRO Reserve]** **[PRO Terrain]** or comparable product by one of the following:
1. CertainTeed Corporation.
 2. Crawford Industries, LLC.
 3. Deceuninck North America.
 4. Fiberon.
 5. Green Bay Decking.
 6. Midwest Manufacturing Extrusion.
 7. Millennium Decking Inc.
 8. Premium Composites LLC.
 9. Rhino Deck.
 10. Tamko Building Products, Inc.
 11. Thermal Industries, Inc.
 12. TimberTech.
 13. Trex Company, Inc.
 14. Universal Forest Products, Inc.
 15. Weyerhaeuser Company.
 16. **<Insert manufacturer's name>**.
- B. Composite Decking: Solid capped **[four]** **[three]**-sided shapes made from a mixture of cellulose fiber and polyethylene or polypropylene.
1. Decking Standard: ICC-ES AC174.
 2. Decking Size: **[0.94 by 5.36 inches (24 by 136 mm) actual]** **[0.89 by 5.36 inches (23 by 136 mm) actual]** **<Insert dimensions>**.
 3. Decking Length: **[10 ft. (3.05 m) actual]** **[12 ft. (3.66 m) actual]** **[16 ft. (4.88 m) actual]** **[20 ft. (6.10 m) actual]**.
 4. Configuration: Provide product with **[grooved edges designed for fastening with concealed decking fasteners]** **[square shouldered edges designed for face connectors]** and **[full]** **[scalloped]** profile.
 5. Surface Texture: **[Brushed]** **[Embossed woodgrain]**.
 6. Color: **[As indicated by manufacturer's designations]** **[Match Architect's Sample]** **[As selected by Architect from manufacturer's full range]** **<Insert color>**.
 7. Fascia Board: **0.94 by 12 inches by 12 ft. (12.7 by 298.5 mm by 3.66 m)** matching decking color.
 8. Stair Riser Board: **0.94 by 7.25 inches by 12 ft. (24 by 184 mm by 3.67 m)** actual matching decking color.

2.4 DECKING FASTENING SYSTEM

- A. Basis-of-Design Product: Subject to compliance with requirements, provide AZEK Building Products; **[CONCEALoc]** **[Cortex]** **[FUSIONLoc]** **[SIDELoc]** **[TOPLoc]** or comparable product by one of the following:
1. Blue Heron Enterprises, LLC.
 2. Grabber Construction Products.
 3. Ipe Clip Fastener Company Inc. (The).
 4. KK Mfg. Co., Inc.

5. M. M. Products, Inc.
 6. Titan Metal Werks, Inc.
 7. Ty-Lan Enterprises Inc.
 8. **<Insert manufacturer's name>.**
- B. Concealed Decking Clips: Black-oxide-coated, stainless steel clips designed to secure decking material and provide uniform spacing of decking material.
- C. Fasteners: Stainless steel screws, minimum #7 size, in sufficient length to penetrate not less than **1-1/4 inches (31 mm)** into wood framing substrate.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION

- A. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit work to other construction; scribe and cope as needed for accurate fit.
- B. Install decking[**and stair treads**] in accordance with manufacturer's written instructions.
- C. Secure decking to wood framing with [**concealed deck clips and screws**] [**exposed fasteners**].
- D. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- E. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced and with adjacent rows staggered.

END OF SECTION 067300









This application seeks approval from the Historic Preservation Commission for the replacement of existing residential stairs leading to the rear doors located at the back of a house which has been designated as a Historic Property in the City of Somerville.

The existing structure, which was originally built almost 110 years ago using primarily aged wood and corroded metal fasteners, has deteriorated due to age and weather exposure. The goal of this project is to replace the wood steps with composite deck material to improve usability, enhance the aesthetic and structural integrity of the property while remaining fully cognizant of the historic nature of the property. Since prior approval has already been granted by the Historic Preservation Commission to renovate the front deck for Unit 1, we believe it will be helpful to replace the back steps at the same time. This will make use of economies of scale, reduce costs for a separate building project and make the home look more consistent when comparing the front deck to the rear stairs.

Composite decking material will be used for the treads and landing surface to ensure long-term durability with minimal maintenance. All fasteners and connectors will be galvanized or stainless steel to prevent corrosion.

The finished structure will have the same footprint and will be visually similar to the existing structure, while providing a safe, functional, and visually appealing entryway to the rear of the home.