1. Markerboards, chalkboards, glass markerboards, tackboards, and display cabinets.
This section includes boards fixed to vertical wall surfaces as well as sliding and operating units. Other types, such as movable units, can be edited into the section.
Section 101100 (10100) - VISUAL DISPLAY BOARDS - ASI, Copyright 2023, ASI Visual Display Products.
2. Section 101100
Visual Display Boards - ASI
	1. PART 1 GENERAL
3. This article is informational only to help the Contractor identify contents of each section. Limit to brief descriptions of significant product categories, work results, or requirements. Do not include accessories or attempt to define the Contractor's scope of work here.

For consistency, descriptions should match or be very similar to terms used in PART 2.

Utilize linking from PART 2 product categories, work results, or requirements to automatically edit this list instead of manually selecting paragraphs under SECTION INCLUDES.
	* 1. Section Includes
			1. Sliding assemblies.
4. This article is informational only to help the Contractor locate related items specified in other sections.
• List sections that are referenced directly in this section. Indicate specific items where applicable. It is only necessary to reference the section number in the section text since the full title is shown in this article.
• List sections that include items one might expect to find in this section.
• List sections that include items important for completing work in this section and are not obvious from the section title.
• Generally, do not include references to Division 01 sections, which refer to the entire project manual. However, where standard Division 01 cross-references are shown in the section, reference the section number and title.
	* 1. Related Requirements
			1. Section **061000 - Rough Carpentry**:  Wood blocking and nailers.
			2. Section **092216 - Non-Structural Metal Framing**:  Concealed supports in metal stud walls.
5. List of the complete titles and dates for reference standards cited within the section.

Do not include reference standards that are not cited within the section.

Click on the link in the text for free information or to purchase a copy of this document. For reference standards used in choices, click on the corresponding link in the text under the REFERENCE STANDARDS article in PART 1 to find free information or to purchase a copy of this document.
	* 1. Reference Standards
			1. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.
			2. ANSI A208.1 - American National Standard for Particleboard; 2022.
			3. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).
			4. ASTM A424/A424M - Standard Specification for Steel, Sheet, for Porcelain Enameling; 2018.
			5. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
			6. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023c.
6. Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations from contract documents, thereby increasing the design professional's liability.
See Section 01 3000 - Administrative Requirements for definitions of the types of submittals for review, information, and project record.
	* 1. Submittals
			1. See Section **013000 - Administrative Requirements** for submittal procedures.
			2. Product Data:  Manufacturer's published data on **[chalkboard] [porcelain enamel steel markerboard] [glass markerboard] [tackboard] [tackboard surface covering] [trim] [accessories] and [[\_\_\_\_\_\_\_]]**.
			3. Shop Drawings:  Indicate wall elevations, dimensions, joint locations**, special anchor details**.
7. Include this paragraph for submission of physical samples to verify selected finish, color, texture, etc.
	* + 1. Samples:  Color charts for selection of color and texture of **[chalkboard] [porcelain enamel steel markerboard] [glass markerboard] [tackboard] [tackboard surface covering] [trim] and [[\_\_\_\_\_\_\_]]**.
8. Include this paragraph for submission of physical samples to verify selected finish, color, texture, etc.
	* + 1. Samples:  **[Two] [\_\_\_\_]**, **[2 by 2 inches (50 by 50 mm)] [[\_\_\_\_\_] by [\_\_\_\_\_] inches ([\_\_\_\_\_] by [\_\_\_\_\_] mm)]** in size illustrating materials and finish, color, and texture of and **[porcelain enamel chalkboard] [porcelain enamel markerboard] [glass markerboard] [tackboard] [tackboard surface covering] [trim] [tackstrip] [\_\_\_\_\_\_\_]**.
			2. Test Reports:  Show compliance with specified surface burning characteristics requirements.
9. The paragraph below is optional text
	* + 1. Manufacturer's printed installation instructions.
10. The paragraph below is optional text
	* + 1. Manufacturer's qualification statement.
11. The paragraph below is optional text
	* + 1. Maintenance Data:  Include data on regular cleaning, stain removal**[, and[\_\_\_\_\_\_\_]]**.
12. The paragraph below is optional text
	* + 1. Executed warranty.
		1. Quality Assurance
			1. Manufacturer Qualifications:  Company specializing in manufacturing products specified in this section with minimum **[three] [\_\_\_\_\_\_\_]** years **documented** experience.
		2. Delivery, Storage, and Handling
			1. See Section **017419 - Construction Waste Management and Disposal** for packaging waste requirements.
13. Improper specifying of warranty and correction period extensions may limit the Owner's statutory rights and the ability to enforce claims under the Contractor's contractual warranty. Be careful about establishing warranty requirements that few, if any, manufacturers will honor.
	* 1. Warranty
			1. See Section **017800 - Closeout Submittals** for additional warranty requirements.
14. This paragraph requests a manufacturer warranty; the request may not be effective as the manufacturer is outside the jurisdiction of the Owner/Contractor contract. Coordinate this paragraph with the SUBMITTALS article.
	* + 1. Manufacturer's Standard Limited Lifetime Warranty:  On porcelain writing surface, for life of building, under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations. Warranty covers replacement of defective material but does not include cost of removal or reinstallation.
			2. When installed in accordance with manufacturer's instructions and recommendations, tackboards are guaranteed for one year against defects in materials and workmanship. Guarantee does not cover improper handling, misuse, or defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
	1. PART 2 PRODUCTS
15. Use this article only if you intend to list manufacturers with the capability of providing all products specified in this section. If the section includes several different products produced by different manufacturers, include a separate manufacturer subparagraph under each product article. The list can include specific model numbers or product names if desired.

Edit the subsequent descriptive specifications to identify project requirements and eliminate conflict with specified manufacturer's products.

The manufacturers listed are representative of those offering the products of this section. Verify each manufacturer's ability to provide products specified for each project.
	* 1. Manufacturers
16. The paragraph below is optional text
	* + 1. ASI Visual Display Products, located at 2210 Dunwin Drive, Mississauga, Ontario L5L 1C7. Tel:  833-632-0878. Web:  www.asi-visualdisplayproducts.com.
17. The paragraph below is optional text
	* + 1. ASI Visual Display Products, located at 1102 Ave T, Grand Prairie, TX 75050. Tel:  833-632-0878. Web:  www.asi-visualdisplayproducts.com.
		1. Sliding Assemblies
			1. **[<drawing designation>] [\_\_\_\_\_]**:  Horizontal Sliding Markerboard, Chalkboard, and Tackboard Units by ASI Visual Display Products.
				1. Configuration:  **[Single horizontal slider] [Double horizontal slider] [Triple horizontal slider] [Quad horizontal slider]**.
18. Standard height:  48 inches (1219 mm).
	* + - 1. Height:  **[48 inches (1219 mm)] [60 inches (1524 mm)]**.
19. Standard length:  Up to 24 feet (7315 mm).
	* + - 1. Length:  **[72 inches (1829 mm)] [96 inches (2438 mm)] [120 inches (3048 mm)] [144 inches (3658 mm)] and [[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]**.
				2. Back Panel Surface(s):  **[Porcelain enamel steel markerboard] and [Porcelain enamel steel chalkboard]**.

Face Sheet:  Porcelain enamel steel.

1. Markerboards:  White high or low gloss
Chalkboards:  Green or black matte

Color(s):  **[As indicated above] [White High Gloss] [White Low Gloss] [Black Matte] [Green Matte]**.

Core:  **7/16-inch (11 mm)** medium density fiberboard.

Backing:  Galvanized back steel.

* + - * 1. Front Sliding Panel Surface:  **[Porcelain enamel steel markerboard] [Porcelain enamel steel chalkboard] [Natural cork tackboard] [Forbo cork tackboard] [Vinyl tackboard] [Fabric tackboard]**.
1. The paragraph below is optional text

Face Sheet:  Porcelain enamel steel.

1. The paragraph below is optional text

Color(s):  **[As indicated above] [White High Gloss] [White Low Gloss] [Black Matte] [Green Matte]**.

1. The paragraph below is optional text

Core:  **7/16-inch (11 mm)** medium density fiberboard.

1. The paragraph below is optional text

Backing:  Galvanized back steel.

1. The paragraph below is optional text

Face Sheet:  **[1/4 inch natural cork (6 mm)] [Forbo] [Vinyl] [Fabric]**.

1. The paragraph below is optional text

Color(s):  **[As indicated above] [\_\_\_\_\_\_\_]**.

* + - * 1. Panel Configuration and Layout:  As indicated on drawings.
				2. Fabrication:  Shop assembled.

Provide horizontal sliding units with corners reinforced with angles to strengthen frame.

Nylon ball bearing rollers at top of unit and nylon guide rollers at bottom of unit in sufficient size and number to eliminate vibration and provide smooth and quiet operation of panels.

1. The manufacturers listed are representative of those offering the products of this section. Verify each manufacturer's ability to provide products specified for each project.
	* + 1. **[<drawing designation>] [\_\_\_\_\_]**:  Vertical Sliding Markerboard and Chalkboard Units by ASI Visual Display Products.
				1. Configuration:  **[Single vertical slider] [Double vertical slider] [Triple vertical slider] [Quad vertical slider]**.
2. Minimum 8-foot 6-inch (2591 mm) total height including 3 inches (76 mm) of moldings top and bottom.
	* + - 1. Total Assembly Height:  **[[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]**.
3. Total length minimum 54 inches (1372 mm) to maximum 150 inches (3810 mm).
	* + - 1. Total Assembly Length:  **[[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]**.
4. Standard height:  48 inches (1219 mm).
	* + - 1. Panel Height:  **[48 inches (1219 mm)] [[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]**.
5. Standard length:  Up to 12 feet (3657 mm).
	* + - 1. Panel Length:  **[[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]**.
				2. Sliding Panel Surface(s):  **[Porcelain enamel steel markerboard] and [Porcelain enamel steel chalkboard]**.

Face Sheet:  Porcelain enamel steel.

Color(s):  **[As indicated above] [White High Gloss] [White Low Gloss] [Black Matte] [Green Matte]**.

Core:  **7/16-inch (11 mm)** medium density fiberboard.

Backing:  Galvanized back steel.

* + - * 1. Back Panel Surface(s):  **[Porcelain enamel steel markerboard] and [Porcelain enamel steel chalkboard]**.

Face Sheet:  Porcelain enamel steel.

Color(s):  **[As indicated above] [White High Gloss] [White Low Gloss] [Black Matte] [Green Matte]**.

Core:  **7/16-inch (11 mm)** medium density fiberboard.

Backing:  Galvanized back steel.

* + - * 1. Panel Configuration and Layout:  As indicated on drawings.
				2. Fabrication:  Shop assembled.

Provide horizontal sliding units with corners reinforced with angles to strengthen frame.

Counter balance lead weights and pulley mechanism at top of unit of sufficient size and number to eliminate vibration and provide smooth and quiet operation of panels.

* 1. PART 3 EXECUTION
		1. Examination
			1. Verify existing conditions and field dimensions meet manufacturer's requirements before starting work.
			2. Verify field measurements are as **[indicated on drawings] [indicated on shop drawings] [instructed by manufacturer] [\_\_\_\_\_\_\_]**.
			3. Verify internal wall blocking is ready to receive work and positioning dimensions are as **[indicated on shop drawings] [instructed by manufacturer] [\_\_\_\_\_\_\_]**.
			4. Verify flat wall surface for frameless, adhesive-applied boards.
		2. Preparation
			1. Acclimatize tackable wall panels by removing from packaging in installation area not less than 24 hours before application.
			2. Remove switchplates, wall plates, and surface-mounted fixtures where tackable wall paneling is applied. Reinstall items on completion of installation.
			3. Prepare surfaces using methods recommended by manufacturer for achieving best result for substrate under project conditions.
		3. Installation
1. The paragraph below is optional text
	* + 1. Install in accordance with manufacturer's written instructions.
2. The paragraph below is optional text
	* + 1. Install with **[top of marker tray] [top of chalk tray] [bottom of perimeter frame]** at **[30 inches (760 mm)] [24 inches (610 mm)] [36 inches (914 mm)] [[\_\_\_\_\_] inches ([\_\_\_\_\_] mm)]** above finished floor.
3. The paragraph below is optional text
	* + 1. Secure units level and plumb.
4. The paragraph below is optional text
	* + 1. Butt Joints:  Install with tight hairline joints.
5. The paragraph below is optional text
	* + 1. Carefully cut holes in boards for and **[thermostats] [wall switches] [\_\_\_\_\_\_\_]**.
6. The paragraph below is optional text
	* + 1. Install tackable wall panels in accordance with manufacturer's recommendations on specified substrates with concealed attachments.
		1. Adjusting
			1. Adjust moving parts for smooth operation.
		2. Cleaning
			1. See Section **017000 - Execution and Closeout Requirements** for additional requirements.
			2. Clean board surfaces in accordance with manufacturer's instructions.
		3. Protection
			1. Cover with protective cover, taped to frame.
			2. Protect finishes until completion of project.
			3. Remove temporary protective cover at **[Date of Substantial Completion] [\_\_\_\_\_\_\_]**.
			4. Touch-up damaged finishes after Substantial Completion.
7. END OF SECTION