INTRODUCTION

The Regional Transportation Authority (RTA) provides funding, planning, and fiscal oversight for regional bus and rail operations in the Chicago metropolitan region. The RTA’s six-county region encompasses the Illinois counties of Cook, DuPage, Kane, Lake, McHenry, and Will.

The delivery of transit services in the Chicago metropolitan region is the responsibility of three independent service agencies. The Chicago Transit Authority (CTA) provides rail rapid transit and bus services in the City of Chicago and 35 neighboring suburbs. Metra provides commuter rail service throughout the six-county region. Pace provides suburban bus services as well as Dial-a-Ride, vanpool, and ADA Paratransit services for the entire region.

One of the RTA’s core missions is to provide information so our customers (both current and potential) can more easily navigate the system. Unfortunately, since transit service is delivered by three separate service providers, customers are often confronted with inconsistent messages and/or informational gaps when attempting to transfer from one service provider to another, creating confusion and reducing the attractiveness of choosing transit for regional travel.

To address this problem the Regional Transportation Authority, along with CTA, Metra, Pace, and municipal partners, have been collaborating to create a new integrated system of wayfinding signage and informational products to make transferring between transit services as easy and as seamless as possible.

To provide continued design guidance in this regard, the Regional Transportation Authority (RTA) has developed an Interagency Signage Standards Manual. The RTA Interagency Signage Standards Manual describes a related system of wayfinding signs, boarding area identification, directional information, schedules, neighborhood maps, and bus and train connection diagrams.

The Interagency Signage Standards Manual provides guidance for the development of location-specific wayfinding solutions using a family of standard sign types and customizable information products. The Manual is intended to serve as a reference for information designers and other contractors related to providing transit information for the RTA.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Part A</th>
<th>page A1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section A1 - Program Overview</td>
<td></td>
</tr>
<tr>
<td>Section A2 - Typography, Colors, and Symbols</td>
<td></td>
</tr>
<tr>
<td>Section A3 - Sign Location Information</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B</th>
<th>page B0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section B1 - Map Graphics</td>
<td></td>
</tr>
<tr>
<td>Section B2 - Sign Cabinets / Frames for Map Graphics</td>
<td></td>
</tr>
<tr>
<td>Section B3 - Freestanding Structures for Sign Cabinets / Frames</td>
<td></td>
</tr>
<tr>
<td>Section B4 - Wall Mount Structures for Sign Cabinets / Frames</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part C</th>
<th>page C0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section C1 - Bus Stop Signs</td>
<td></td>
</tr>
<tr>
<td>Section C2 - Bus Boarding Signs</td>
<td></td>
</tr>
<tr>
<td>Section C3 - Bus Times and Boarding Area Signs</td>
<td></td>
</tr>
<tr>
<td>Section C4 - Posts and Mounting Hardware</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part D</th>
<th>page D0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section D1 - Directional Signs - Wall Mounted</td>
<td></td>
</tr>
<tr>
<td>Section D2 - Directional Signs - Hung Overhead</td>
<td></td>
</tr>
<tr>
<td>Section D3 - Directional Signs - Street Mounted</td>
<td></td>
</tr>
<tr>
<td>Section D4 - Freestanding Structure for Directional Signs</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part E</th>
<th>page E0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section E1 - Appendix</td>
<td></td>
</tr>
</tbody>
</table>
SECTION A1
Program Overview

Design Goals

The overall design goal of the RTA's Interagency Signage Design project is to provide transit passengers with the information they need to successfully and confidently make transfers between CTA, Metra, and Pace.

Transit passengers in the Chicago metropolitan region have access to a vast transit network, but to take full advantage of the network, passengers must be able to transfer from one transit mode to another. Wayfinding is an integral part of the total transit experience. Clear, concise, and direct wayfinding information will help transit passengers feel confident in their understanding of the transit system and their ability to successfully use all the transit modes available to them.

The goal of the RTA Interagency Signage Standards Manual is to provide guidance for the design and implementation of effective and flexible signage solutions that will meet the interagency transit users information and wayfinding needs.

General Principles

The underlying strategy for the programming of interagency signage and graphics is to provide relevant transfer information at key decision points within a station or transfer location. This strategy involves the following principles which should be considered during the placement and design of wayfinding signage and information products:

- Simplicity and clarity of message are of primary importance.
- International symbols should be used in conjunction with written text wherever possible.
- Provide information at key decision points.
- Avoid placing information too early and limit repetitions.
- Concentrate information products along the accessible path.
- Consideration should be given to minimize the divergence of accessible and non-accessible pathways until absolutely necessary. Older stations and transfer locations with accessible retrofits may be more challenging than newer, more updated facilities.
- Avoid placement of products that require transit passengers to make U-turns or double back.
- Avoid placement of pedestrian signage in locations that may be inappropriate or create confusion for vehicles or cyclists.

Standards for Wayfinding Signage and Information Products

The wayfinding signage and information products shown in this manual are provided for use as reference standards only. Whenever possible, new Interagency wayfinding signage and information products shall conform to the standards shown in this manual. Generally, information products include pre-designed headers and footers and location-specific graphics. When directed to do so by the RTA, the signage contractor shall develop content and prepare digital art files for the wayfinding signage and information products. Digital art files for the pre-designed product components and digital template files for the location-specific product components shall be provided by the RTA for the development of information products for new locations. Digital art files for wayfinding signs shall typically be developed by the signage contractor using this manual as a guide. Digital template files owned by RTA are in Adobe Creative Suite (CS) / Creative Cloud (CC) InDesign (.indd) and Illustrator (.ai) format. If the existing standards are not compatible with the requirements at a new location, the standards may be modified. Any new designs will conform to the existing standards as closely as possible and are subject to review and approval by the RTA.
SECTION A1
Program Overview

Design Goals

Colors, Fonts, Symbols

Colors, fonts, and symbols that were developed during the design phase should be used in a manner consistent with this manual and the digital template files provided by the RTA. The font used in all products is Helvetica LT Standard: Roman, Bold, and Oblique. More information on colors, fonts, and symbols is provided in Part A of this manual. Pre-designed product components, including headers and footers, should be included in the graphics as shown in this manual to ensure consistency.

Review of Proposed Information Products

Proofs for all signs and graphics shall be reviewed and accepted by the RTA prior to production. The RTA may request review proofs in paper copy, electronic (PDF) format, or in the native file format (.ai, .indd). Review requirements should be confirmed with the RTA prior to the production of any new signs or graphics.

Specifications

In addition to this Manual, Technical Specifications for the interagency signs have been developed. The Technical Specifications include performance requirements, submittal requirements, materials, cabinets, frames, structures, hardware, installation requirements, periods of performance, and warranty requirements. As new graphics are developed for new locations, additional specifications may be needed to meet site or project-specific requirements.
SECTION A1
Program Overview

Signage Program Design
Flowchart

Suggested Signage

Passenger Progress

Start of an interagency trip

Rail Station (CTA, Metra / South Shore)

Bus Stop / Bus Terminal (CTA or Pace)

Passenger reviews modes needed to complete trip

Passenger navigates to appropriate boarding area

Passenger confirms route and schedule

Passenger makes first leg of trip – passenger must make interagency transfer to continue / complete trip

Passenger identifies mode for next leg of trip

Passenger navigates to appropriate boarding area

Passenger transfers to new mode, continues / completes trip

Suggested Signage

Sign Type ID
Station Identification

Sign Type MD
Downtown Map

Sign Type MN
Neighborhood Map

Sign Type DSW
Directional Sign – Wall Mounted

Sign Type DSO
Directional Sign – Overhead

Sign Type DSS
Directional Street Signs

Sign Type BA
Bus Boarding Area Map

Sign Type TR
Train Route

Sign Type TC
Train Connections Map

Sign Type BC
Bus Connections

Sign Type BT
Bus Times

Sign Type TT
Train Times

Sign Type TR
Train Route

Sign Type BC
Bus Connections

Sign Type BT
Bus Times

Sign Type DSW
Directional Sign – Wall Mounted

Sign Type DSO
Directional Sign – Overhead

Sign Type DSS
Directional Street Signs

Sign Type BA
Bus Boarding Area Map

Sign Type BB
Bus Boarding Sign

Passenger Stop / Bus Terminal (CTA or Pace)

Rail Platform (CTA, Metra / South Shore)

Bus Stop

Rail Platform (CTA, Metra / South Shore)

Bus Stop (CTA or Pace)
SECTION A1
Program Overview

Quality Control Approach

Introduction
A comprehensive quality control approach, individually developed to meet a particular project's needs, will help ensure that new interagency wayfinding and information products are developed, produced, and implemented efficiently and appropriately.

New interagency wayfinding signage and information graphics must be developed in close cooperation with the RTA, the Service Boards (CTA, Metra, Pace), and other stakeholders. At the start of each project, the RTA will confirm the basic project information and define the project scope. Basic project information may include identification of the project stakeholders and key project personnel, a preliminary list of products that may be required, basic project procedures, and expectations for deliverables.

The RTA Interagency Signage Design Standards Manual shall provide design guidance for the development and design of the interagency wayfinding signage and information graphics. Each interagency signage project will require some amount of programming, development, and design. Each interagency location is different, and each location may require new or unique components and information. Review, assessment, and refinement will be required at key points throughout a project to ensure the wayfinding signage and information graphics are appropriate and correct for the location, while also conforming to the design standards.

Following is a general discussion of Quality Control approaches that should be considered for all interagency signage projects:

Overall Approach
Prior to the start of work, the design project team and the RTA project team should establish clear lines of communication. The project scope, requirements, and schedule should be established by the RTA and clearly understood by all before work begins. If the RTA has not defined a project scope and schedule, the RTA may ask the design project team to develop a project scope and schedule for review and acceptance by the RTA.

Once the project scope and schedule has been established, the project design team should develop project phases and deliverables. A description of proposed project phases and deliverables should be submitted to the RTA for review and acceptance prior to the start of work.

Project phases should divide the scope of work incrementally and be coordinated with the project schedule. Each phase should build upon the previous phase. For each phase, in-progress and final deliverables should be identified. In-progress deliverables should represent key points in the project development. Deliverables should be reviewed internally by the design project team before they are submitted to the RTA. All in-progress and final deliverables need to be reviewed and accepted by the RTA. Any revisions requested by the RTA need to be implemented as work continues and be reflected in subsequent deliverables. Phases should not be considered complete until the RTA Project Team has reviewed and accepted all work for that phase.
SECTION A1
Program Overview

Quality Control Approach

Generally, projects should include the following phases:

Programming
Complete analysis and program development are essential first steps for any project. Working with the RTA, the design project team shall identify, collect, and assimilate as much project information as possible prior to selecting products or developing graphics. Programming information may include site reviews, facility plans, transit schedules, and code information. Product development should not be started until all necessary programming information has been obtained. The design project team should work with the RTA to identify the information required.

Design
Interagency wayfinding signage and information graphics should be developed as per the design standards as outlined in the RTA Interagency Signage Standards Manual. Coordinate with the RTA regarding files and formats. Depending on the product, digital art and digital template files shall be provided to the design project team by the RTA or the project team shall develop new digital art based on the RTA Interagency Signage Standards Manual.

Each interagency location shall present a unique set of challenges and opportunities. The design project team shall work with the site-specific information collected during programming to identify the wayfinding and information graphics products required and develop messages and content. Locations or situations that require new or modified products shall be identified and reviewed with the RTA prior to the start of any design. New products shall be consistent with the overall design intent outlined in the Signage Standards Manual. Preliminary product selections, locations, messages, and content need to be reviewed by the RTA early in the project so that revisions and adjustments can be made. Final products, locations, messages, and content shall not be released for production until they have been reviewed and accepted by the RTA.

Implementation
Quality Control during implementation shall include review, along with the RTA, of samples and submittals. The design project team shall confirm all required samples and submittals are provided and that all items submitted are consistent with the project's design intent. The design project team shall assist the RTA in developing and maintaining an implementation schedule, review site conditions and locations to facilitate product installation, and review installed products to confirm quality and consistency with the design intent.

Conclusion
Every interagency signage and wayfinding project will be different. Each project shall require different project elements and will present unique wayfinding challenges. The goal of the Interagency Signage Standards Manual is to provide design guidance that is flexible enough to meet the requirements of interagency locations throughout the RTA service area while maintaining a consistent overall presentation.

For each interagency signage and wayfinding project, the design project team shall work with the RTA to accurately and efficiently develop effective communication solutions based on the existing design standards. For each project, the design project team shall work with the RTA to identify appropriate quality-control approaches while providing accurate and professional services.
**SECTION A1**  
Program Overview

**Information Graphics**
**Sign Cabinets / Frames**  
**Freestanding Structures**  
**Wall-Mounted Structures**

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**Description**

**General**

Part B general reference.
SECTION A1
Program Overview

Bus Stop Signs
Bus Boarding Signs
Bus Area & Bus times Signs
Posts & Mounting Hardware

Description

General
Part C general reference.
SECTION A1
Program Overview

Directional Wall Signs
Directional Overhead Signs
Directional Street Signs
Freestanding Structures

Description

General
Part D general reference.
<table>
<thead>
<tr>
<th>Sign Type/Structure Codes</th>
<th>Description</th>
<th>Section Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>Boarding Area Map</td>
<td>Section C3 (Page C3.1)</td>
</tr>
<tr>
<td>BB</td>
<td>Bus Boarding Area Identification</td>
<td>Section C2 (Page C2.1)</td>
</tr>
<tr>
<td>BC</td>
<td>Bus Connections Map</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>BS</td>
<td>Bus Stop Sign</td>
<td>Section C1 (Page C1.1)</td>
</tr>
<tr>
<td>BT</td>
<td>Bus Times Diagram</td>
<td>Section C3 (Page C3.1)</td>
</tr>
<tr>
<td>CCH</td>
<td>CTA Case Cut Out Letter Header</td>
<td>Section B2 (Page B2.1)</td>
</tr>
<tr>
<td>CCP</td>
<td>CTA Case Build-Out Back Panel</td>
<td>Section B2 (Page B2.1)</td>
</tr>
<tr>
<td>CMBP</td>
<td>Cabinet Type CPN Mounting Bracket</td>
<td>Section C3 (Page C3.1)</td>
</tr>
<tr>
<td>CMCC</td>
<td>CTA Column Mounting Bracket</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CMCS</td>
<td>Center Mounted Sign Bracket</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CMFB</td>
<td>Bolted Flag Mounting Bracket</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CMFS</td>
<td>Strap Mounted Flag Bracket</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CMWA</td>
<td>Center Wall Mount, Adhesive</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CMWB</td>
<td>Center Wall Mount, Bolt</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>CPN</td>
<td>Sign Cabinet for Sign Types BA and BT</td>
<td>Section C3 (Page C3.1)</td>
</tr>
<tr>
<td>CWN</td>
<td>Wall-Mounted Non-Illuminated Sign Cabinet</td>
<td>Section B2 (Page B2.1)</td>
</tr>
<tr>
<td>CWS</td>
<td>Wall-Mounted Non-Illuminated Snap-frame</td>
<td>Section B2 (Page B2.1)</td>
</tr>
<tr>
<td>DSF</td>
<td>Directional/Identification Sign, Flag-Mounted</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>DSO</td>
<td>Directional Sign, Overhead Mounted</td>
<td>Section D2 (Page D2.1)</td>
</tr>
<tr>
<td>DSS</td>
<td>Directional Sign, Sidewalk Mounted</td>
<td>Section D3 (Page D3.1)</td>
</tr>
<tr>
<td>DSW</td>
<td>Directional Sign, Wall-Mounted</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>ID</td>
<td>Identity Product</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>MD</td>
<td>Downtown Chicago Map</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>MN</td>
<td>Neighborhood Map</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>SFD</td>
<td>Structure, Floor-Mount, Directional</td>
<td>Section D4 (Page D4.1)</td>
</tr>
<tr>
<td>SFM</td>
<td>Structure, Freestanding Mount</td>
<td>Section B3 (Page B3.1)</td>
</tr>
<tr>
<td>SMAB</td>
<td>Structure Mount to Existing Pavement</td>
<td>Section B3 (Page B3.1)</td>
</tr>
<tr>
<td>SMCB</td>
<td>Structure Mount, Cast Base</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>SMCF</td>
<td>Structure Mount with Concrete Foundation</td>
<td>Section B3 (Page B3.1)</td>
</tr>
<tr>
<td>SMDB</td>
<td>Structure Mount, Direct Bury</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>SMFD</td>
<td>Structure Mount, Floor-Mount Directional</td>
<td>Section D4 (Page D4.1)</td>
</tr>
<tr>
<td>SMFS</td>
<td>Structure Mount with Sleeved Legs</td>
<td>Section B3 (Page B3.1)</td>
</tr>
<tr>
<td>SOC</td>
<td>Structure, Overhead Ceiling Mount</td>
<td>Section D2 (Page D2.1)</td>
</tr>
<tr>
<td>SON</td>
<td>Structure, Overhead Pendant Mount</td>
<td>Section D2 (Page D2.1)</td>
</tr>
<tr>
<td>SOS</td>
<td>Structure, Overhead Soffit Mount</td>
<td>Section D2 (Page D2.1)</td>
</tr>
<tr>
<td>SPY</td>
<td>Structure, Pylon (3-sided)</td>
<td>Section B3 (Page B3.1)</td>
</tr>
<tr>
<td>SRSE</td>
<td>Structure, Sign Post Extension</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>SRSP</td>
<td>Structure, Round Sign Post</td>
<td>Section C4 (Page C4.1)</td>
</tr>
<tr>
<td>SWA</td>
<td>Structure, Wall-Mount, Adhesive</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>SWD</td>
<td>Structure, Wall-Mount, Directional</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>SWF</td>
<td>Structure, Wall-Mount, Flag</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>SWG</td>
<td>Structure, Wall-Mount, on Glass</td>
<td>Section D1 (Page D1.1)</td>
</tr>
<tr>
<td>SWM</td>
<td>Structure, Wall-Mount</td>
<td>Section B4 (Page B4.1)</td>
</tr>
<tr>
<td>TC</td>
<td>Train Connections Map</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>TT</td>
<td>Train Times</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>TR</td>
<td>Train Route Diagram</td>
<td>Section B1 (Page B1.1)</td>
</tr>
<tr>
<td>-V</td>
<td>Sign Type Suffix - Vinyl Decal Graphics</td>
<td>Section B1 (Page B1.35)</td>
</tr>
</tbody>
</table>
SECTION A2
Typography, Colors & Symbols

Typography

**Description**

**General**
The fonts used for the interagency signs and information graphics are shown above. All letter spacing and word spacing used for the wayfinding signs must meet ADA visual character requirements. No other fonts shall be used unless reviewed and accepted by the RTA.
SECTION A2
Typography, Colors & Symbols

Character Spacing

The desired visual character spacing is shown.

If the distance between the two closest points of adjacent characters within a word is less than 10% of the character height, the fabricator must increase the kerning of the space to be 10% of the character height.

If the distance between the two closest points of adjacent characters within a word is more than 35% of the character height, the fabricator must decrease the kerning of the space to be 35% of the character height.

CTA Trains
Trains to Chicago
Information
Bus Boarding Area

Examples of Typical ADA Compliant Character Spacing
(with optical kerning and +30 units of tracking in Illustrator CS3)

Scale: NTS

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
</tr>
<tr>
<td>The character spacing for wayfinding messages on the following products shall conform to the standards for visual characters as per Section 703.5 of the 2010 ADA Standards for Accessible Design:</td>
</tr>
<tr>
<td>Bus boarding area signs (BA)</td>
</tr>
<tr>
<td>Directional overhead signs (DSO)</td>
</tr>
<tr>
<td>Directional flag-mounted signs (DSF)</td>
</tr>
<tr>
<td>Directional wall-mounted signs (DSW)</td>
</tr>
<tr>
<td>Directional street signs (DSS)</td>
</tr>
<tr>
<td>Freestanding structures with text (SFM, SPY)</td>
</tr>
<tr>
<td>Wall-mounted structures with text (SWM)</td>
</tr>
</tbody>
</table>

The messages for these signs should also have extra spacing added (+30 units of tracking in Adobe Illustrator CS3 with Optical kerning, or equivalent).

The Contractor shall match the character spacing shown above, and to show this character spacing on all graphic layouts submitted for review. The messages shown above are for reference. The Contractor shall verify if there will be any messages with character spacing which does not conform to the ADA Standards.
### Wayfinding Colors

**Color 1**
- **Wayfinding Blue**
- PMS 281 C
- CMYK 100-72-0-32
- RGB 0-62-126
- Web Safe RGB 00-3E-7E

**Color 2**
- **White**
- PMS Translucent White

**Color 3**
- **Metallic Silver**

**Color 4**
- **Black**
- PMS Process Black
- CMYK 0-0-0-100
- RGB 35-31-32
- Web Safe RGB 23-1F-20
- Web Safe RGB 23-1F-20

**Color 5**
- **Wayfinding Red**
- PMS 1795 C
- CMYK 0-94-100-0
- RGB 238-52-36
- Web Safe RGB EE-34-24

### Description

**General**

The general colors used for the interagency signs are shown above. Colors fields shown are approximations only.
SECTION A2
Typography, Colors & Symbols

Logo Colors

**Pace, Metra, CTA, RTA, Amtrak, and South Shore (NICTD) Logo Colors**

**Description**

**General**

The color standards used for the CTA, Metra, Pace, and South Shore logos are shown above. Colors fields shown are approximations only.
SECTION A2
Typography, Colors & Symbols

CTA Train Line Colors

CTA Yellow Line color is PMS 012 C.
Converted to CMYK, the color is:
0%C, 4%M, 100%Y, 0%K
The text outline is shown as:
0%C, 4%M, 100%Y, 50%K
(The text outline stroke width is .75 points for 20.5 point letter height.)

When text using the CTA Yellow Line color appears on a white background, the text is outlined in a stroke the CMYK equivalent color of the text, but with 50% black added to the CMYK color.

Appearance of Light CTA Train Line Colors on a White Background

Description

General
The color standards used for the CTA train lines are shown above. Colors fields shown are approximations only.
# SECTION A2
Typography, Colors & Symbols

## Map Base Colors

### Color 30
Station Building (Above Ground)
- PMS: 281 C (80%)
- CMYK: 80-58-0-26
- RGB: 50-86-145
- Web Safe RGB: 32-56-91

### Color 31
Station Building (Below Ground)
- PMS: 281 C
- CMYK: 100-72-0-32
- RGB: 0-62-126
- Web Safe RGB: 00-3E-7E

### Color 32
Water/Parking
- PMS: 290 C
- CMYK: 75-2-0-0
- RGB: 185-224-247
- Web Safe RGB: 89-ED-F7

### Color 33
District Name/Parking Shadow
- PMS: 299 C
- CMYK: 85-19-0-0
- RGB: 0-157-220
- Web Safe RGB: 00-9D-DC

### Color 34
Park
- PMS: 358 C
- CMYK: 25-0-38-0
- RGB: 189-223-178
- Web Safe RGB: BD-DF-B2

### Color 35
Park Label
- PMS: 347 C
- CMYK: 100-38-0
- RGB: 189-223-178
- Web Safe RGB: Web Safe RGB

### Color 36
Building/POI
- PMS: 443 C
- CMYK: 12-0-12-30
- RGB: 186-186-172
- Web Safe RGB: A6-B4-AC

### Color 37
Building/POI Shadow/Text
- PMS: 445 C
- CMYK: 20-0-20-65
- RGB: 94-110-102
- Web Safe RGB: 5E-6E-66

### Color 38
School
- PMS: 505 C (30%)
- CMYK: 15-30-30-8
- RGB: 200-167-155
- Web Safe RGB: C8-A7-9B

### Color 39
School Shadow/Text
- PMS: 505 C (60%)
- CMYK: 100-30-30-50
- RGB: 161-105-91
- Web Safe RGB: A1-69-5B

### Color 40
Background
- PMS: 538 C
- CMYK: 12-7-2-0
- RGB: 220-226-237
- Web Safe RGB: DC-E2-ED

### Color 41
Bus Line (Downtown Map)
- PMS: 538 C
- CMYK: 12-7-2-0
- RGB: 220-226-237
- Web Safe RGB: DC-E2-ED

### Color 42
Bus Route Label (Downtown Map)
- PMS: 444 C
- CMYK: 8-0-9-25
- RGB: 180-192-186
- Web Safe RGB: B4-C0-BA

### Color 43
Tunnel
- PMS: 444 C
- CMYK: 8-0-9-25
- RGB: 180-192-186
- Web Safe RGB: B4-C0-BA

## Description

**General**
The color standards used for the system maps are shown above. Colors fields shown are approximations only.
## SECTION A2

### Typography, Colors & Symbols

#### Bus Route Colors

<table>
<thead>
<tr>
<th>Color 50</th>
<th>Bus Route Option 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 130 C</td>
<td>CMYK 0-30-100-0</td>
</tr>
<tr>
<td>RGB 253-185-19</td>
<td>Web Safe RGB F6-B9-13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 51</th>
<th>Bus Route Option 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 160 C</td>
<td>CMYK 0-62-100-32</td>
</tr>
<tr>
<td>RGB 177-92-18</td>
<td>Web Safe RGB B1-5C-12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 52</th>
<th>Bus Route Option 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 168 C</td>
<td>CMYK 0-64-100-0</td>
</tr>
<tr>
<td>RGB 244-123-32</td>
<td>Web Safe RGB F4-7B-20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 53</th>
<th>Bus Route Option 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 197 C</td>
<td>CMYK 0-45-10-0</td>
</tr>
<tr>
<td>RGB 246-162-182</td>
<td>Web Safe RGB F5-A2-B6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 54</th>
<th>Bus Route Option 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS Rhodamine Red C</td>
<td>CMYK 3-89-0-0</td>
</tr>
<tr>
<td>RGB 230-64-151</td>
<td>Web Safe RGB F6-40-97</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 55</th>
<th>Bus Route Option 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 272 C</td>
<td>CMYK 89-43-0-0</td>
</tr>
<tr>
<td>RGB 117-129-191</td>
<td>Web Safe RGB 00-7D-C3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 56</th>
<th>Bus Route Option 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 285 C</td>
<td>CMYK 0-125-195</td>
</tr>
<tr>
<td>RGB 0-160-175</td>
<td>Web Safe RGB 00-A0-AF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 57</th>
<th>Bus Route Option 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 320 C</td>
<td>CMYK 0-25-195</td>
</tr>
<tr>
<td>RGB 0-160-175</td>
<td>Web Safe RGB 00-A0-AF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 58</th>
<th>Bus Route Option 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 353 C</td>
<td>CMYK 38-0-36-0</td>
</tr>
<tr>
<td>RGB 160-213-181</td>
<td>Web Safe RGB A0-D5-B5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 59</th>
<th>Bus Route Option 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 398 C</td>
<td>CMYK 7-0-100-28</td>
</tr>
<tr>
<td>RGB 194-179-8</td>
<td>Web Safe RGB B8-B3-08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 60</th>
<th>Bus Route Option 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 403 C</td>
<td>CMYK 0-7-17-43</td>
</tr>
<tr>
<td>RGB 162-152-138</td>
<td>Web Safe RGB A2-98-8A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 61</th>
<th>Bus Route Option 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS 485 C</td>
<td>CMYK 0-95-100-0</td>
</tr>
<tr>
<td>RGB 238-39-36</td>
<td>Web Safe RGB EE-31-24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color 62</th>
<th>Bus Route Option 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS Process Black C</td>
<td>CMYK 0-0-0-100</td>
</tr>
<tr>
<td>RGB 35-31-32</td>
<td>Web Safe RGB 23-1F-20</td>
</tr>
</tbody>
</table>

### Description

#### General

The color standards used for CTA and Pace bus routes are shown above. Colors fields shown are approximations only.
### SECTION A2
Typography, Colors & Symbols

#### Metra Train Line Colors

<table>
<thead>
<tr>
<th>Color</th>
<th>Service/Line</th>
<th>CMYK</th>
<th>CMYK Stroke</th>
<th>RGB</th>
<th>RGB Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>North Central Service</td>
<td>54-56-0-0</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>North Union Pacific</td>
<td>0-100-85-24</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Northwest Line</td>
<td>265 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>West Line</td>
<td>0-100-100-0</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Milwaukee District / West Line</td>
<td>176 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Milwaukee District / North Line</td>
<td>0-100-0-0</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>Burlington Northern / Santa Fe</td>
<td>348 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>SouthWest Service</td>
<td>100-42-0-0</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>Heritage Corridor</td>
<td>300 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>Metra Electric District</td>
<td>0-100-36-37</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>Rock Island Line</td>
<td>152 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>South Shore Line Beige</td>
<td>69-0-100-0</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>Metra Rail Line Grey</td>
<td>485 C</td>
<td>0% 0% 50% 0%</td>
<td>0% 0% 50% 0%</td>
<td></td>
</tr>
</tbody>
</table>

### Appearance of Light Colors Metra Train on a White Background

#### General

The color standards used for the Metra system are shown above. Colors fields shown are approximations only.

Metra UP-NW color is PMS Yellow C. Converted to CMYK, the color is: 0% C, 0% M, 100% Y, 0% K. The text outline is shown as: 0% C, 0% M, 100% Y, 50% K. (The text outline stroke width is .75 points for 20.5 point letter height.)

Metra UP-W color is PMS 176C. Converted to CMYK, the color is: 0% C, 25% M, 18% Y, 0% K. The text outline is shown as: 0% C, 25% M, 18% Y, 50% K. (The text outline stroke width is .75 points for 20.5 point letter height.)

When text using a light-colored Metra train line color (UP-NW or UP-W) appears on a White background, the text is outlined in a stroke the CMYK equivalent color of the text, but with 50% black added to the CMYK color.
SECTION A2
Typography, Colors & Symbols

Arrows

<table>
<thead>
<tr>
<th>Arrow</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up 1-1</td>
<td>General</td>
</tr>
<tr>
<td>Up Right 1-2</td>
<td>Arrows used for the interagency signs are shown above. Arrows shown are for reference only. Final arrow artwork shall be provided by the RTA. See the General Design and Layout Information for each sign type for additional information about arrow arrangement.</td>
</tr>
<tr>
<td>Up Left 1-3</td>
<td></td>
</tr>
<tr>
<td>Down 1-4</td>
<td></td>
</tr>
<tr>
<td>Down Right 1-5</td>
<td></td>
</tr>
<tr>
<td>Down Left 1-6</td>
<td></td>
</tr>
<tr>
<td>Left 1-7</td>
<td></td>
</tr>
<tr>
<td>Right 1-8</td>
<td></td>
</tr>
<tr>
<td>Left / Ahead 1-9</td>
<td></td>
</tr>
<tr>
<td>Right / Ahead 1-10</td>
<td></td>
</tr>
<tr>
<td>U-Turn 1-11</td>
<td></td>
</tr>
<tr>
<td>Ahead / Left 1-12</td>
<td></td>
</tr>
<tr>
<td>Ahead / Right 1-13</td>
<td></td>
</tr>
</tbody>
</table>

The dashed arrow position box shown above does not appear on the final sign faces.

Messages are grouped by mode (CTA Trains, Metra Trains, Buses). Within a message group, the messages are typically arranged with the arrows ordered “up”, “left”, “right”, and “down/behind”.

When bus stop symbols are used on a sign, the bus stop messages will be arranged alphabetically based on the bus stop letters.
SECTION A2
Typography, Colors & Symbols

Symbols

**Description**

**General**

The symbols used for the interagency signs are shown above. Symbols shown are for reference only. Final symbol artwork shall be provided by the RTA.
SECTION A2
Typography, Colors & Symbols

Symbols

Typical Application - Boarding Area Symbols on Wayfinding Blue Background

A B C D E F
Boarding Area A (Color 5) 6-1
Boarding Area B (Color 5) 6-2
Boarding Area C (Color 5) 6-3
Boarding Area D (Color 5) 6-4
Boarding Area E (Color 5) 6-5
Boarding Area F (Color 5) 6-6

Typical Application - Boarding Area Symbols on White Background

A B C D E F
Boarding Area A (Color 5) 6-1
Boarding Area B (Color 5) 6-2
Boarding Area C (Color 5) 6-3
Boarding Area D (Color 5) 6-4
Boarding Area E (Color 5) 6-5
Boarding Area F (Color 5) 6-6

Description

General
The symbols used for the interagency signs are shown above. Symbols shown are for reference only. Final symbol artwork shall be provided by the RTA.
**SECTION A2**
Typography, Colors & Symbols

**CTA Train Line and Bus Service Symbols**

**Typical Application - CTA Symbols on Wayfinding Blue Background**

<table>
<thead>
<tr>
<th>Purple Line (Color 25)</th>
<th>Yellow Line (Color 22)</th>
<th>Red Line (Color 20)</th>
<th>Brown Line (Color 27)</th>
<th>Blue Line (Color 24)</th>
<th>Green Line (Color 23)</th>
<th>Pink Line (Color 26)</th>
<th>Orange Line (Color 21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-1</td>
<td>7-2</td>
<td>7-3</td>
<td>7-4</td>
<td>7-5</td>
<td>7-6</td>
<td>7-7</td>
<td>7-8</td>
</tr>
</tbody>
</table>

**Typical Application - CTA Symbols on White Background**

<table>
<thead>
<tr>
<th>Purple Line (Color 25)</th>
<th>Yellow Line (Color 22)</th>
<th>Red Line (Color 20)</th>
<th>Brown Line (Color 27)</th>
<th>Blue Line (Color 24)</th>
<th>Green Line (Color 23)</th>
<th>Pink Line (Color 26)</th>
<th>Orange Line (Color 21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-1</td>
<td>7-2</td>
<td>7-3</td>
<td>7-4</td>
<td>7-5</td>
<td>7-6</td>
<td>7-7</td>
<td>7-8</td>
</tr>
</tbody>
</table>

**Description**

**General**
The CTA Train Line and Bus Service symbols used for the interagency signs are shown above. Additional Bus Service symbols may be added in the future. Symbols shown are for reference only. Final CTA Train Line and Bus Service symbol artwork shall be provided by the RTA.

---

**RTA Interagency Signage Standards Manual**

Date: 08.29.14
Revised: 07.22.16

_A2.12_
**SECTION A2**  
**Typography, Colors & Symbols**

**CTA and Metra Connecting Services Symbols**

**Description**

**General**

The symbols used to indicate connecting rail service on TR product artwork are shown above. Symbols shown are for reference only. Final symbol artwork shall be provided by the RTA.
SECTION A2
Typography, Colors & Symbols

Symbol Definitions

Description

General
The typical treatments for symbols on different color backgrounds are shown.
To be effective, interagency signs and graphics must be carefully located. Graphics must be positioned where they can be readily seen and safely understood. Locations must coordinate with the information being presented so that the messages are useful and appropriate. Locations must also coordinate with architectural conditions so that signs and graphics fit properly, function correctly, and do not create clutter.

To establish sign locations, the following general steps should be followed. However, every facility and situation is different, so the process for locating signs will need to be adapted to the particular needs of each site or facility.

1) Obtain Documentation

The first step in establishing sign locations should be to obtain as much existing documentation about the facility where signs are to installed as is available. Documents may include architectural plans and elevations of the site or facility, construction details, and existing sign plans.

Once any available drawings have been obtained, an initial site review should be made and the facility or location should be thoroughly photographed. Whenever possible, photo locations should be keyed to a floor plan or a site plan. While on site, an initial, overall wayfinding assessment of the facility should be made. Potential passenger routes should be identified and photographed, and possible sign locations should be identified. At potential information locations, site dimensions should be recorded.

2) Establish Preliminary Sign Locations

Once the preliminary site information has been obtained and sign types have been programmed for the site or facility, preliminary locations for each sign can be established. Factors to consider when establishing sign locations should include:

a) Architectural conditions:
   1) Signs should be placed where they can be seen, but they should also not interfere or conflict with architectural or site features. Signs should be placed where there is sufficient physical space for the sign and the sign can be mounted without intruding into pedestrian ways or otherwise interfering with circulation.

b) Traffic patterns and decision points:
   1) Signs should be located so that information is provided where it is needed. Part of programming and locating signs is to understand the pathways typically used within a facility. Signs should be placed along pedestrian paths and at decision points. Signs should be placed so that directions provide guidance in a logical sequence and minimize backtracking.

c) Space to read the maps and signs:
   1) Sign should be located so that the information is visible and readily accessible. Maps and schedule graphics should be located so that people have enough room to stand and study the information without disrupting the overall pedestrian flow.

   2) Signs located on sidewalks need to be placed far enough from traffic that people reading the signs do not place themselves in the path of oncoming traffic. Signs should also be far enough from curbs so that people can walk around the signs without moving too close to the street or stepping into the roadway.
d) Pedestrian signs must not create confusion for vehicles or cyclists:
   1) Pedestrian signs must not be placed so that they may be confused with vehicular signs or present possibly confusing or inappropriate information to drivers or cyclists. Pedestrian signs must not block traffic signs or interfere with driver and cyclist visibility or lines of sight.

3) Review the Sign Locations On-Site

After the preliminary sign locations have been established, they should be reviewed on-site.

Each sign location should be reviewed on-site to confirm the signs can be properly and safely installed, the information presented is accurate and appropriate, that there are no conflicts with site features or architecture, and that the site documentation is accurate. Each location should be photographed. Key site dimensions should also be obtained.

Based on the site review, sign locations and sign types should be revised and updated as needed. Revised documentation, incorporating the verified sign locations, should be developed.

The revised locations should be confirmed, and any final adjustments made, prior to issuing documents for bidding or fabrication.
SECTION A3
Establishing Sign Locations

Sign Location Documentation

**Typical Sign Location Plan Information**

- Location number range
- Bus Stop designation listed for reference only
- General position indicator and letters to designate sign sides (N, S, E, W)
- Sign location number
- General sign type list
- Bus routes listed for reference only
- Supplemental bus stop - shown on map products but no signs are installed, does not receive location number.

**Typical Message Schedule Entry**

<table>
<thead>
<tr>
<th>Location</th>
<th>Sign Type</th>
<th>Cabinet</th>
<th>Support Structure</th>
<th>Mounting</th>
<th>Message Schedule</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2S2-202.3-N</td>
<td>3A-1</td>
<td>CPW-1</td>
<td></td>
<td></td>
<td>Bus Stops</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LaSalle Street</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(LaSalle bus boarding area schematic)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bus Stops</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6-2</td>
<td>7, 28, 31</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-1</td>
<td>2-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2-1</td>
<td>2-1</td>
</tr>
</tbody>
</table>

**Description**

**General**
The sign location plans provide a general indication of where signs are to be placed. Final locations are to be determined on site. The location plans include a general list of sign types and letter designations to indicate sign sides.

The Message Schedule is a database of all the sign messages, the sign types, and, where applicable, the sign cabinets, sign structures, and sign mounting hardware codes. The Message Schedule does not represent sign face layouts.
SECTION A3
Establishing Sign Locations

Sign Location Documentation

Example of RTA’s GIS Sign Location Documentation

Scale: NTS

Description

General
It is important to develop and maintain documentation of the sign locations and messages.

The RTA has established a GIS database for the interagency sign program. The database includes information about existing and potential sign locations.

The database shall include, but shall not be limited to, location markers, location numbers, sign type designations, location and mounting information, information documenting site conditions, information documenting completed installations, maintenance information, as well as other information about the fabrication and installation of the signs.

The database will be maintained by the RTA. The interagency signage contractor shall coordinate with the RTA regarding the type of information they will need to provide the RTA so that the database can be kept up-to-date.
**Part B**

**Information Graphics**

**Sign Cabinets / Frames**

**Freestanding Structures**

**Wall-Mounted Structures**

**Introduction**

**Description**

**General**

Part B general reference.
**Description**

**General**
Section B1 general reference.
SECTION B1
Information Graphics

Sign Type Overview

**Sign Type ID**
Station Identification
Provides identification of and information about transportation centers and locations

**Sign Type TC**
Train Connections Map
Provides regional Metra and CTA rail routes and connections

**Sign Type BC**
Bus Connections Map
Provides route diagrams, bus schedule and destination information

**Sign Type MN**
Neighborhood Map
Provides points of interest and location finder for the neighborhood

**Sign Type MD**
Downtown Chicago Transit Map
Provides transit information, points of interest, and location finder for the Chicago downtown area

**Sign Type TT**
Train Times
Provides the Metra train time schedule by individual lines

**Sign Type TR**
Train Route
Provides schematic map of Metra train stops for individual lines

**Description**

**General**
Information Graphics Sign Type Overview.
SECTION B1
Information Graphics

Header Layouts

Elevation - Typical Header for Sign Types TC, BC, MN, MC, MD, TT, and TR
(Example Header for Sign Type MD Shown)

Scale: 1 1/2" = 1'-0"

1. Metra Trains

Typical layout with one symbol.

2. Train Connections

Typical layout with two symbols.

3. Downtown

Typical layout with three symbols.

Elevations - Typical Header Symbol Layouts
Scale: 3" = 1'-0"

Description

headers shall include one to three symbols. symbols that appear shall reflect the information shown on the sign. depending on overall content, sign types TC, BC, MD, MN, TT, and TR-1 through TR-4, will include up to three mode symbols (mode symbols are the symbols for CTA trains, Metra trains, and Buses).

mode symbols shall always be shown in the following order (left to right):
first: CTA trains
second: Metra trains
third: Buses

If a particular mode is not included in the sign information, the symbol positions shall shift to the left as required. A digital base art file, for use when developing final art for header graphics, shall be provided by the RTA.
**SECTION B1**  
**Information Graphics**

**Header Layouts**

---

**Description**

Shown is the typical layout for the header portion of Sign Type ID-3 – Station Identification.

Headers shall include one to three symbols. Symbols that appear shall reflect the information shown on the sign. Depending on overall content, Sign Types ID-3 will include up to three mode symbols (mode symbols are the symbols for CTA Trains, Metra Trains, and Buses).

Mode symbols shall always be shown in the following order (top to bottom): First: CTA Trains  
Second: Metra Trains  
Third: Buses (CTA, Pace, or CTA and Pace)

If a particular mode is not included in the sign information, the symbol positions shall shift up as required.

A digital base art file, for use when developing final art for Sign Type ID-3 header graphics, shall be provided by the RTA.
SECTION B1
Information Graphics

Footer Layouts

1. **Elevation - Typical Footer for Sign Types ID-4 and ID-5**
   - Scale: 1 1/2" = 1'-0"
   - Footers shall include contact information for RTA Travel Information. Except for Sign Types ID-4 and ID-5, the footers shall include the RTA and Service Board logos. The footer for Sign Types ID-4 and ID-5 shall include the RTA logo. The footer for Sign Types TR-5, TR-6, and TT-4 shall include the RTA and Metra logos and the Metra web address.

2. **Elevation - Typical Footer for Sign Types ID-3, TC, BC, MN, MD**
   - Scale: 1 1/2" = 1'-0"
   - Footers at locations where Metra and South Shore stations are co-located shall also include the South Shore logo.

3. **Elevation - Typical Footer for Sign Type TR-5**
   - Scale: 1 1/2" = 1'-0"

4. **Elevation - Typical Footer for Sign Types TR-6, TT-4**
   - Scale: 1 1/2" = 1'-0"

**Description**

**General**
Shown is the typical layout for the footer portion of the following sign types:

- **ID** – Station Identification
- **TC** – Train Connections
- **BC** – Bus Connections
- **MD** – Downtown Chicago Transit Map
- **MN** – Neighborhood Map
- **TR** – Train Route (includes only Sign Types TR-5 and TR-6)
- **TT** – Train Times (includes only Sign Type TT-4)

All footers shall include contact information for RTA Travel Information. Except for Sign Types ID-4, ID-5, TR-5, TR-6, and TT-4, the footers shall include the RTA and Service Board logos. The footer for Sign Types ID-4 and ID-5 shall include only the RTA logo. The footer for Sign Types TR-5, TR-6, and TT-4 shall include the RTA and Metra logos and the Metra web address. Footers at locations where Metra and South Shore stations are co-located shall also include the South Shore logo. Footers at locations where Metra and Amtrak stations are co-located shall also include the Amtrak logo (see page B1.6).

A digital base art file, for use when developing final art for footer graphics, shall be provided by the RTA.
**SECTION B1**

**Information Graphics**

**Footer Layouts**

1. **Elevation - Typical Footer for Sign Types ID, TC, BC, MN, MD with South Shore or Amtrak Logo**
   Scale: 1 1/2" = 1'-0"

2. **Elevation - Typical Footer for Sign Type TR-5 with South Shore or Amtrak Logo**
   Scale: 1 1/2" = 1'-0"

3. **Elevation - Typical Footer for Sign Types TR-6, TT-4 with South Shore or Amtrak Logo**
   Scale: 1 1/2" = 1'-0"

**Description**

**General**

Shown are the special layouts for the footer portion of the following sign types:

- ID – Station Identification
- TC – Train Connections
- BC – Bus Connections
- MD – Downtown Chicago Transit Map
- MN – Neighborhood Map
- TR – Train Route (includes only Sign Types TR-5 and TR-6)
- TT – Train Times (includes only Sign Type TT-4)

All footers shall include contact information for RTA Travel Information. Except for Sign Types TR-5, TR-6, and TT-4, the footers shall include the RTA and Service Board logos. The footer for Sign Types TR-5, TR-6, and TT-4 shall include the RTA and Metra logos and the Metra web address. Footers at locations where Metra and South Shore stations are co-located shall also include the South Shore logo. Footers at locations where Metra and Amtrak stations are co-located shall also include the Amtrak logo.

A digital base art file, for use when developing final art for footer graphics, shall be provided by the RTA.
**SECTION B1**  
*Information Graphics*

**Footer Logo Proportions**

---

**Description**

**General**

When they appear in the footers of interagency signs and graphics, the RTA and service board logos shall be sized as shown in this Manual. Shown are the proportions for sizing and placing the RTA and interagency logos when they appear in the footers of the following sign types:

- ID – Station Identification
- TC – Train Connections
- BC – Bus Connections
- MD – Downtown Chicago Transit Map
- MN – Neighborhood Map

For similar interagency graphics that include the RTA and service board logos that are not currently covered by this manual, the RTA and service board logos shall typically be sized per the proportions indicated.

Pre-production proofs, or similar pre-production review graphics, of all interagency signs and graphics shall be provided for review by the RTA prior to final production of any signs or graphics.

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**Proportions of Logos in Footer Graphics**

Scale: N.T.S.
### Section B1
#### Information Graphics

**Standard Size Summary**

<table>
<thead>
<tr>
<th>Sign Type</th>
<th>Description</th>
<th>Print Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-3, TC-3, TT-2, BC-3, MN-3, MD-3, &amp; TR-5.1</td>
<td>3'-4&quot; V.O. (3'-5&quot; Print Size – Verify print size with CWS snap frame)</td>
<td></td>
</tr>
<tr>
<td>ID-4</td>
<td>2'-1&quot; V.O. (2'-1 3/4&quot; Print Size)</td>
<td></td>
</tr>
<tr>
<td>ID-5</td>
<td>2'-7&quot; V.O. (2'-8&quot; Print Size – Verify print size with CWS snap frame)</td>
<td></td>
</tr>
<tr>
<td>TT-3</td>
<td>3'-4&quot; V.O. (3'-5&quot; Print Size – Verify print size with CWS snap frame)</td>
<td></td>
</tr>
<tr>
<td>TT-4</td>
<td>2'-4&quot; V.O. (2'-4 3/4&quot; Print Size)</td>
<td></td>
</tr>
<tr>
<td>TT-5</td>
<td>2'-7&quot; V.O. (2'-8&quot; Print Size – Verify print size with CWS snap frame)</td>
<td></td>
</tr>
<tr>
<td>TR-1, TR-3</td>
<td>2'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>TR-2, TR-4</td>
<td>2'-6&quot;</td>
<td></td>
</tr>
<tr>
<td>TR-5</td>
<td>1'-5 1/4&quot; V.O. (1'-6&quot; Print Size)</td>
<td></td>
</tr>
<tr>
<td>TR-6</td>
<td>1'-6&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### Description

**General**


(V.O. = Visual Opening)

Print size indicated is for artwork used in CWN sign cabinets. Verify the print size required for use in CWS snap frames.
SECTION B1
Information Graphics

Transportation Center ID
Sign Type ID-3

General Information

1 Identity Product Graphic
The ID-3 identity map graphic and header graphics shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Final content for each sign type ID-3 shall vary with location. Typical content may include, but shall not be limited to, a schematic overall plan of the facility, the location and type of transportation options available, bus boarding areas, facility entrances, pick-up and drop-off locations, nearby streets and parking. Digital art for sign type ID-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing ID-3 signs as precedents for content, layout, and color. Examples of existing ID-3 signs, digital template files for the ID-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new ID-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type ID-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location. Coordinate the ID-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type ID-3 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing CTA Transit Information directory, sign type ID-3 is mounted using a type CCP cabinet build out. For information on CCP, See Section B2.

Description

General
Sign type ID-3 identifies a transit facility or location. It includes a general, introductory map graphic of the area around the facility or location, along with a listing of the transit modes available there. The map includes basic orientation information and key locations and destinations. Sign type ID-3 content will vary with location. See page B1.10 for Design and Layout Notes.

Elevation - Sign Type ID-3
Scale: 1" = 1'-0"

1 Identity Product Graphic
The ID-3 identity map graphic and header graphics shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Final content for each sign type ID-3 shall vary with location. Typical content may include, but shall not be limited to, a schematic overall plan of the facility, the location and type of transportation options available, bus boarding areas, facility entrances, pick-up and drop-off locations, nearby streets and parking. Digital art for sign type ID-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing ID-3 signs as precedents for content, layout, and color. Examples of existing ID-3 signs, digital template files for the ID-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new ID-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type ID-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location. Coordinate the ID-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

RTA Interagency Signage Standards Manual
SECTION B1
Information Graphics

Transportation Center ID
Sign Type ID-3

Design and Layout Notes

1 Elevation - Sign Type ID-3
Scale: 1" = 1'-0"

Description

General Design and Layout Information – Sign Type ID-3

- Each sign type ID-3 typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Headers and footers for sign type ID-3 have standard layouts. The header includes the overall location name or location description as well as identification of the transit modes found at the location. The header content will change at different sites. Generally, the footer information does not vary except for the inclusion of the South Shore Line logo at locations where appropriate.
- The identification sign map artwork is approximately 2'-1" x 2'-4", centered horizontally and vertically in white area below the header. Identification sign maps shall typically include the facility listed in the header and the area immediately around the facility. Information shown on the maps includes the transit modes at the location, bus boarding areas (with route numbers), drop-off locations, entrances, and accessibility information like ramps and elevators. Maps also include streets and parking facilities. Map graphics vary with location.
- Typically, the map graphics on the ID, MN, and BA signs at a given interagency location or facility shall use the same Illustrator base map. Sign type-specific layers shall be added to each base map file as needed to meet the specific content requirements of each sign type.
- New ID-3 graphics shall be developed using existing examples as precedents for layout, color, and content. For each transit facility or location, the development of the base map graphics for sign type ID-3 must be coordinated with the map graphics for MN, ID, and BA signs as required. See pages B1.37, B1.38, and C3.7 for additional information on MN, ID, and BA master file arrangement.
- Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing ID-3 maps.
- Street name and building label typography on the maps should be aligned and organized as much as possible. Typography and symbol sizes and styles for new ID-3 signs shall match typography and symbols on existing ID-3 signs.
SECTION B1
Information Graphics

Transportation Center ID
Sign Type ID-4

General Information

1. Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

2. Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3. Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4. Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign and with the printed graphics. All holes shall be drilled in the shop.

5. Mounting Brackets
ID-4 signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
**SECTION B1**

**Information Graphics**

**Transportation Center ID**

**Sign Type ID-5**

**General Information**

**Description**

**General**

Sign type ID-5 is a single or double-sided aluminum panel that identifies a transit facility or location. Sign type ID-5 includes a map of the area around the facility or location that provides pedestrians with general location and transit information.

The graphic shown is for reference only. Final content for each sign type ID-5 shall vary with location. Typical content may include, but shall not be limited to, a simplified map of the area surrounding the transportation center or location, the location and type of transportation options available nearby, bus boarding areas, nearby parking, and select landmarks and public buildings. The overall area included on the map may vary depending on the where the map is located. Typically, the area represented on the map should be about 1/2 of a mile on each side (.25 square miles), the transit facility or location identified in the sign header should be in the center of the map, and the destinations shown should all be within walking distance. Destinations shown should be permanent and non-commercial locations. These may include, but are not limited to, parks, schools, and government and civic buildings.

Digital art for sign type ID-5 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing ID-5 signs as precedents for content, layout, and color. Examples of existing ID signs, digital template files for the ID-5 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new ID-5 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

See page B1.13 for Design and Layout Notes.

**Aluminum Sign Panel**

The sign substrate is a .080" thick solid aluminum panel.

**Background**

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

**Printed Graphics**

The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

**Holes for Mounting Hardware**

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign and with the printed graphics. All holes shall be drilled in the shop.

**Mounting Brackets**

ID-4 signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
**Elevation - Sign Type ID-4 (ID-5 similar)**

Scale: 1 1/2" = 1'-0"

**Description**

### General Design and Layout Information – Sign Types ID-4 and ID-5

- Each sign type ID-4 or ID-5 typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Sign types ID-4 and ID-5 are single or double-sided aluminum panels that identify a transit facility or location. The headers and footers for sign types ID-4 or ID-5 have standard layouts. All headers shall have the message “Transit Information” with the information symbol, as well as the transit facility or location’s name or description. The header content will change at different sites. The footer information does not vary.
- Sign types ID-4 and ID-5 include maps. The ID-4 map artwork is approximately 1'-4" x 1'-4" and the ID-5 map artwork is approximately 11" x 1'-1/2". The maps are centered horizontally and vertically in white area below the header. The maps shall typically show the facility listed in the header in the center of the map and the area around the facility within a radius of approximately 1/4-mile. Information shown on the maps includes the transit modes at the location, nearby bus boarding areas (with route numbers), drop-off locations, entrances, and accessibility information like ramps and elevators. Maps also include streets and parking facilities. Map graphics vary with location.
- Typically, the map graphics on the ID, MN, and BA signs at a given interagency location or facility shall use the same Illustrator base map. Sign type-specific layers shall be added to each base map file as needed to meet the specific content requirements of each sign type.
- New ID-4 and ID-5 graphics shall be developed using existing examples as precedents for layout, color, and content. For each transit facility or location, the development of the base map graphics for sign type ID-4 and ID-5 must be coordinated with the map graphics for MN, ID, and BA signs as required. See pages B1.37, B1.38, and C3.7 for additional information on MN, ID, and BA master file arrangement.
- Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing ID-4 and ID-5 maps.
- Street name and building label typography on the maps should be aligned and organized as much as possible. Typography and symbol sizes and styles for new ID-4 and ID-5 signs shall match typography and symbols on existing ID-4 and ID-5 signs.
SECTION B1
Information Graphics

Train Connections Map
Printed Panel
Sign Type TC-3.1

General Information

Elevation - Sign Type TC-3.1
Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:
Sign type TC-3.1 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing CTA Transit Information directory, sign type TC-3.1 is mounted using a type CCP cabinet build out. For information on CCP, See Section B2.

Description

General
Sign type TC-3.1 provides information on regional Metra and CTA train connections and routes. Sign type TC-3.1 content will not vary with location. See page B1.15 for Design and Layout Notes.

Train Connections Graphic
The TC-3.1 graphic shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. The content for each sign type TC-3.1 shall not vary with location. Digital art for sign type TC-3.1 shall be provided by the RTA. If directed to do so by the RTA, incorporate content revisions into the existing art. These revisions may include, but shall not be limited to, changes to the Stations Index, revisions to the train route diagrams, or changes to the stations shown in the route diagrams. All new TC-3.1 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TC-3.1 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TC-3.1 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
SECTION B1
Information Graphics

Train Connections Map
Printed Panel
Sign Type TC-3.1

Design and Layout Notes

Description

General Design and Layout
Information – TC Signs

- Sign type TC is typically a single Adobe Illustrator file.
- TC signs have a standard layout and generally do not change with location.
- TC signs may require minor corrections or adjustment to reflect facility changes, or other rail service changes.
**SECTION B1**  
Information Graphics

**Train Connections Map**  
Laminated Digital Print  
Sign Type TC-3.2

**General Information**

**Elevation - Sign Type TC-3.2**

Scale: 1" = 1'-0"

*Sign Mounting Information:*

New Location and Installation:
Sign type TC-3.2 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape or other appropriate adhesive and/or double face tape.

Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.

### Description

**General**
Sign type TC-3.2 provides information on regional Metra and CTA train connections and routes. Sign type TC-3.2 content will not vary with location. See page B1.17 for Design and Layout Notes.

**Train Connections Graphic**
The TC-3.2 graphic shall be digitally printed at high resolution onto heavy bright white paper using UV resistant inks. The printed piece shall be laminated on both sides with an encapsulated edge seal.

The graphic shown is for reference only. The content for each sign type TC-3.2 shall not vary with location. Digital art for sign type TC-3.2 shall be provided by the RTA. If directed to do so by the RTA, incorporate content revisions into the existing art. These revisions may include, but shall not be limited to, changes to the Stations Index, revisions to the train route diagrams, or changes to the stations shown in the route diagrams. All new TC-3.2 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical size for sign type TC-3.2 is shown. The size may need to be adjusted to respond to specific conditions at each installation location.

Coordinate the TC-3.2 graphic and the overall panel size with the mounting conditions at each installation location.
**SECTION B1**

Information Graphics

**Train Connections Map**
Laminated Digital Print
Sign Type TC-3.2

**Design and Layout Notes**

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**Elevation - Sign Type TC-3.2**

Scale: 1" = 1'-0"

**Description**

**General Design and Layout Information - TC Signs**

- Sign type TC is typically a single Adobe Illustrator file.
- TC signs have a standard layout and generally do not change with location.
- TC signs may require minor corrections or adjustment to reflect facility changes, or other rail service changes.
SECTION B1
Information Graphics

Bus Connections Map
Sign Type BC-3

General Information

Description

General
Sign type BC-3 provides schematic diagrams of the bus routes originating from the site where the sign type is located, along with bus schedule and destination information. Typically, scheduled bus times should be used on information products. When headway is less than 15 minutes, RTA may select to show headway intervals. Sign type BC-3 content will vary with location. See page B1.19 for Design and Layout Notes.

Bus Connections Graphic
The BC graphic shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Final content for each sign type BC-3 shall vary with location. Typical content may include, but shall not be limited to, a schematic representation of the applicable bus routes, showing route numbers, stops, and estimated travel times; a table of places served by the bus routes shown on the sign; and bus schedules for each bus route. Digital art for sign type BC-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing BC-3 signs as precedents for layout and color. Bus schedule information shall be provided by the RTA.

Sign type BC-3 shows bus routes as schematic lines that reflect the actual roadways. Key elements like Lake Michigan, rivers, or nearby major highways may also be shown to help provide location references. The route diagram is not to scale. Examples of existing BC-3 signs, digital template files for the BC-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new BC-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type BC-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the BC-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type BC-3 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing CTA Transit Information directory, sign type BC-3 is mounted using a type CCP cabinet build out. For information on CCP, See Section B2.
**SECTION B1**

**Information Graphics**

**Bus Connections Map**

**Sign Type BC-3**

**Design and Layout Notes**

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**Description**

**General Design and Layout**

**Information – BC Signs**

- Each sign type BC-3 typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Header and footers for all BC signs have standard layouts. The header includes the overall location name or the overall station name. The header content will change at different sites. Generally, the footer information does not vary except for the inclusion on the South Shore Line logo at locations where appropriate.
- A blue band below the header organizes the graphic into a column for “Bus Times From This Location” (bus schedules) and an area for the route diagram titled “Bus Network From This Location.” Information in this band does not change.
- Bus routes are presented as a schematic diagram. Each route is assigned a color. The routes are not too scale, but do generally follow a simplified overall roadway configuration and correspond to compass directions. North is at the top of the diagram.
- Simplified representations of landmarks like rivers, Lake Michigan, major highways, and city names may be included to help orient the routes and give overall context to the diagram. Buildings, street names, and other physical or geographic features are not included.
- Time point stops, approximate travel times, and transfer locations/shared stops are indicated along the schematic route lines. Transfer locations are identified using symbols. Route termini are also indicated.
- Below the route diagram, a blue band creates a space for a table listing “Places Served By Bus From This Location.” The table alphabetically lists the time point stops, transfer locations, and termini shown on the diagram along with the corresponding bus route numbers and the bus boarding areas used to access each bus route. The route numbers are shown in the color used for the route in the diagram.
- Bus timetables are shown to the left of the route diagram. The timetables list the route number, the service provider, the route name, the route terminus, and the bus boarding area from which the bus departs.
- When developing art for BT signs, schedule information shall be provided by the RTA in XML format. Bus timetables are individual InDesign files that are linked into the BT master file. Import the schedule information into formatted InDesign timetable files provided by the RTA.
- Timetables are headed and separated by color bands that correspond to the colors used for the bus routes shown on the route diagram. Below the color bands are the bus route numbers, the service logo, the route name and description, and the boarding areas. On the timetables, AM bus times are shown in Roman, PM bus times are shown in Bold. The PM bus times also have a shaded background using a 30% tint of the bus route color.
- Information on CTA and Pace bus tracker services is located in a band below the timetables.
- New BC graphics shall be developed using existing examples as precedents for layout, color, and content. Typography and symbol sizes and styles for new BC signs shall match typography and symbols on existing BC signs. See page B1.36 for additional information on BC master file arrangement.
SECTION B1
Information Graphics

Neighborhood Map
Sign Type MN-3

General Information

1 Elevation - Sign Type MN-3
Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type MN-3 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing CTA Transit Information directory, sign type MN-3 is mounted using a type CCP cabinet build out. For information on CCP, See Section B2.

Description

General
Sign type MN-3 identifies nearby neighborhood destinations, within walking distance. Sign type MN-3 content will vary with location. See page B1.21 for Design and Layout Notes.

Neighborhood Map Graphic
The MN graphic shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Final content for each sign type MN-3 shall vary with location. Typical content may include, but shall not be limited to, a simplified map of the area surrounding the facility listed in the header, the location and type of transportation options available, bus boarding areas, pick-up and drop-off locations, nearby parking, and select landmarks and destinations. The overall area included in the map may vary depending on where the facility is located and nature and variety of destinations in the general vicinity. Typically, the area represented should be about 3/4 of a mile on each side (.5625 square miles) and the destinations shown should be within walking distance of the transportation facility. Destinations shown should be permanent and non-commercial locations. These may include, but are not limited to, parks, schools, and government and civic buildings.

Digital art for sign type MN-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing MN-3 signs as precedents for content, layout, and color. Examples of existing MN-3 signs, digital template files for the MN-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new MN-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type MN-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the MN-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
**SECTION B1 Information Graphics**

**Neighborhood Map Sign Type MN-3**

**Design and Layout Notes**

**Description**

**General Design and Layout Information – MN Signs**

- Each sign type MN-3 typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Headers and footers for all MN signs have standard layouts. The header includes the overall location name or location description and symbols for the transit modes found at the location. The header content will change at different sites. Generally, the footer information does not vary except for the inclusion of the South Shore Line logo at locations where appropriate.
- The neighborhood map artwork is approximately 2'-4" x 2'-3". The area represented on the map is typically about 3/4 of a mile on each side. The final size of the map shall be coordinated with the street and places of interest index that appears below the map. The map shall be centered horizontally in white area below the header. The top of the map shall be 1" below the header. Neighborhood maps include the facility and the area around the facility, including transit modes, bus boarding areas (with route numbers), drop-off locations, and accessibility information like ramps and elevators. Maps also include streets, natural landmarks like lakes and rivers, and permanent non-commercial facilities like public buildings, parking facilities, schools and universities, parks, and other nearby transit facilities. In some cases, select commercial facilities may be shown on the map. Map graphics vary with location.
- Typically, the map graphics on the MN, ID, and BA signs at a given interagency location or facility shall use the same Illustrator base map. Sign type-specific layers shall be added to each base map file as needed to meet the specific content requirements of each sign type.
- New MN-3 graphics shall be developed using existing examples as precedents for layout, color, and content. For each transit facility or location, the development of the base map graphics for MN signs must be coordinated with the map graphics for ID and BA signs as required. See pages B1.37, B1.38, and C3.7 for additional information on MN, ID, and BA master file arrangement.
- Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing MN maps.
- Street name and building label typography on the map should be aligned and organized as much as possible. Typography and symbol sizes and styles for new MN signs shall match typography and symbols on existing MN signs.
- The map shall have a coordinate grid with letters on the vertical edges and numbers on the horizontal edges.
- Below the map shall be a Places of Interest Index, a Street Index, and a Legend. The indices shall list the places and features on the map in alphabetical order and shall provide the appropriate alphanumeric map grid references.
SECTION B1
Information Graphics

Downtown Chicago Transit Map
Sign Type MD-3

General Information

Elevation - Sign Type MD-3
Scale: 1” = 1’-0”

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type MD-3 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing CTA Transit Information directory, sign type MD-3 is mounted using a type CCP cabinet build out. For information on CCP, See Section B2.

Description

General
Sign type MD-3 provides a downtown Chicago map with select transit routes and landmarks included. Sign type MD-3 content will not vary with location. MD maps are based on artwork from the printed RTA Downtown Map. Each time the printed RTA Downtown Map is updated, a PDF file will be provided for MD signs. See page B1.23 for Design and Layout Notes.

Downtown Map Graphic
The MD graphic shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. The content for sign type MD-3 shall not vary with location. Digital art for sign type MD-3 shall be provided by the RTA. If directed to do so by the RTA, incorporate content revisions into the existing art. These revisions may include, but shall not be limited to, changes to the Places of Interest Index, revisions to the CTA train route graphics, changes to bus route graphics, or changes to the destinations and locations shown on the map. All new MD-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type MD-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the MD-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
**SECTION B1**

**Information Graphics**

**Downtown Chicago Transit Map**

**Sign Type MD-3**

**Design and Layout Notes**

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**Elevation - Sign Type MD-3**

Scale: 1" = 1'-0"

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**Description**

**General Design and Layout**

**Information – MD Signs**

- Each sign type MD typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- MD signs have a standard layout and generally do not change with location.
- MD signs may require minor corrections or adjustments to reflect facility changes, bus service changes, or other service changes.
- The MD-3 map graphic is similar to the map used on ID-4 and ID-5 signs located in downtown Chicago. Coordinate the development of the map graphics for sign type MD-3 with the map graphics for sign types ID-4 and ID-5 as required.
**Elevation - Sign Type TT-2**

*Scale: 1" = 1'-0"*

**Associated Sign Cabinet / Frame Information:**
New Location and Installation:
Sign type TT-2 is typically mounted using a CWN-3.1 sign cabinet or CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, see Section B2.

**Description**

**General**
Sign type TT2 provides Metra schedule information. Sign type TT-2 content will vary with location. Sign type TT-2 shall be used at locations where Station-Specific Timetables are allowed.

Each sign type TT-2 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

**Station-Specific Train Times Graphic**
Sign type TT-2 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-2 is a Metra train schedule. The schedule information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each sign type TT-2 shall provide schedule information based on the station in which the sign is located. For each station, train times to the appropriate terminal stations will be listed separately and the times will start at the station in which the TT-2 is located. Digital art for sign type TT-2 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing TT-2 signs as precedents for layout. The schedule information to be presented, digital template files for the TT-2 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-2 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-2 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-2 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
SECTION B1
Information Graphics

Train Times - Metra
Sign Type TT-3

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type TT-3 is typically mounted using a CWN-7 sign cabinet or a CWS-7 snap frame with sign type TR-6.
For information on CWN-7 and CWS-7, See Section B2.

Existing Cabinet Installation:
When installed within an existing Metra schedule cabinet, sign type TT-3 is mounted using the existing Metra cabinet hardware.
Coordinate print size with existing cabinet.

Description

General
Sign type TT-3 provides Metra schedule information. Sign type TT-3 content will vary with location. Sign type TT-3 typically appears in conjunction with sign type TR-6.

Each sign type TT-3 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

Train Times Graphic
Sign type TT-3 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-3 is a Metra train schedule. Sign type TT-3 is used for Metra Rail Lines with full schedules that have a large number of trains and stops. The schedule information for each of the Metra Rail Lines is different, but all of the TT-3 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing TT-3 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
**SECTION B1**
**Information Graphics**

**Train Times - Metra Sign Type TT-4**

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**Table of Train Times**

<table>
<thead>
<tr>
<th>Time</th>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>06:00</td>
<td>North Chicago</td>
</tr>
<tr>
<td>06:19</td>
<td>Great Lakes</td>
</tr>
<tr>
<td>06:38</td>
<td>Highland Park</td>
</tr>
<tr>
<td>06:57</td>
<td>Ravinia Park</td>
</tr>
<tr>
<td>07:16</td>
<td>Glencoe</td>
</tr>
<tr>
<td>07:35</td>
<td>Davis Street (Evanston)</td>
</tr>
<tr>
<td>07:54</td>
<td>Main Street (Evanston)</td>
</tr>
<tr>
<td>08:13</td>
<td>Indian Hill</td>
</tr>
<tr>
<td>08:32</td>
<td>Winnetka</td>
</tr>
<tr>
<td>08:51</td>
<td>Kenilworth</td>
</tr>
<tr>
<td>09:10</td>
<td>Lake Forest</td>
</tr>
<tr>
<td>09:29</td>
<td>Highland Park</td>
</tr>
<tr>
<td>09:48</td>
<td>Ravinia Park</td>
</tr>
<tr>
<td>10:07</td>
<td>Winthrop Harbor</td>
</tr>
<tr>
<td>10:26</td>
<td>Highland Park</td>
</tr>
<tr>
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<td>Ravinia Park</td>
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<td>North Chicago</td>
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</tr>
<tr>
<td>12:39</td>
<td>Ravinia Park</td>
</tr>
<tr>
<td>12:58</td>
<td>North Chicago</td>
</tr>
</tbody>
</table>

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**Description**

**General**

Sign type TT-4 provides Metra schedule information. Sign type TT-4 content will vary with location.

Each sign type TT-4 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

**Train Times Graphic**

Sign type TT-4 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-4 is a Metra train schedule. Sign type TT-4 is used for Metra Rail Lines with full schedules that have a large number of trains and stops. Sign type TT-4 is typically used independent of other RTA graphics. The schedule information for each of the Metra Rail Lines is different, but all of the TT-4 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-4 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing TT-4 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-4 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-4 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-4 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-4 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
SECTION B1
Information Graphics

Train Times - Metra
Sign Type TT-5

1. Train Times Graphic

Sign type TT-5 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-5 is a Metra train schedule. Sign type TT-5 is used for Metra Rail Lines with limited schedules that do not have a large number of trains and stops. The schedule information for each of the Metra Rail Lines is different, but all of the TT-5 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-5 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing TT-5 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-5 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-5 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-5 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-5 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

General

Sign type TT-5 provides Metra schedule information. Sign type TT-5 content will vary with location. Sign type TT-5 typically appears in conjunction with sign type TR-5.

Each sign type TT-5 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

2. Elevation - Sign Type TT-5

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:
Sign type TT-5 is typically mounted using a CWN-3.2 sign cabinet with sign type TR-5. Sign type TT-5 can also be mounted using a CWS-3.1 snap frame when printed with sign type TR-5. For information on CWN-3.2 and CWS-3.1, See Section B2.

Existing Cabinet Installation:
When installed within an existing Metra schedule cabinet, sign type TT-5 is mounted using the existing Metra cabinet hardware.

Coordinate print size with existing cabinet.

Description

Elevation - Sign Type TT-5

2'-7" V.O. (2'-8" Print Size – Verify print size with CWS snap frame)
SECTION B1
Information Graphics

Train Route Diagram - 24"
Used with Sign Frame
Sign Type TR-1

Description

General
Sign type TR-1 provides Metra train route information. Sign type TR-1 contents will vary with location.

Sign type TR-1 panels are used only at locations where walls can be drilled and the panel and sign frame can be mounted using appropriate mechanical anchors and fasteners.

Sign type TR-1 panels are 1/2" thick and are mounted to fabricated sign frames using appropriate hardware.

1 Sign Face Panel
Sign type TR-1 panels shall be 1/2" thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-1 is a Metra route schematic. Sign type TR-1 is the typical sign type for the display of Metra route diagrams. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-1 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-1 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-1 signs as precedents for layout. Basic route information, digital template files for the TR-1 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-1 signs shall be prepared using Adobe Illustrator. All new TR-1 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

2 Concealed Mounting Hardware
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWD sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant, corrosion-resistant, and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.
SECTION B1
Information Graphics

Train Route Diagram - 30”
Used with Sign Frame
Sign Type TR-2

**Description**

**General**
Sign type TR-2 provides Metra train route information. Sign type TR-2 contents will vary with location.

Sign type TR-2 panels are used only at locations where walls can be drilled and the panel and sign frame can be mounted using appropriate mechanical anchors and fasteners.

Sign type TR-2 panels are 1/2” thick and are mounted to fabricated sign frames using appropriate hardware.

**Sign Face Panel**
Sign type TR-2 panels shall be 1/2” thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-2 is a Metra route schematic. Sign type TR-2 is used when the rail route information cannot be properly displayed on sign type TR-1. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-2 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-2 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-2 signs as precedents for layout. Basic route information, digital template files for the TR-2 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-2 signs shall be prepared using Adobe Illustrator. All new TR-2 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

**Concealed Mounting Hardware**
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWD sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant, corrosion-resistant, and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.
SECTION B1
Information Graphics

Train Route Diagram - 24”
Used with Wall Mounted
Back Panel
Sign Type TR-3

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**Elevation - Sign Type TR-3**

Scale: 1” = 1’-0”

**Section - Sign Type TR-3**

Scale: 1” = 1’-0”

**Associated Sign Structure Information:**
Sign type TR-3 is mounted using an SWA or SWG sign structure. See Section D1 for additional information.

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**Description**

**General**
Sign type TR-3 provides Metra train route information. Sign type TR-3 contents will vary with location.

Sign type TR-3 panels are 1/8” thick and are to be used only at locations where walls cannot be drilled and the panel and sign structure must be mounted using appropriate adhesive and/or double face tape.

**Sign Face Panel**
Sign type TR-3 panels shall be 1/8” thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-3 is a Metra route schematic. Sign type TR-3 is used to display Metra route diagrams when it is inappropriate or otherwise unacceptable to use sign type TR-1. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-3 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-3 signs as precedents for layout. Basic route information, digital template files for the TR-3 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-3 signs shall be prepared using Adobe Illustrator. All new TR-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

Sign type TR-3 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape, double-face tape, or other appropriate adhesive. Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.
**General**

Sign type TR-4 provides Metra train route information. Sign type TR-4 contents will vary with location.

Sign type TR-4 panels are 1/8” thick and are to be used only at locations where walls cannot be drilled and the panel and sign structure must be mounted using appropriate adhesive and/or double face tape.

**1 Sign Face Panel**

Sign type TR-4 panels shall be 1/8” thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-4 is a Metra route schematic. Sign type TR-4 is used to display Metra route diagrams when it is inappropriate or otherwise unacceptable to use sign type TR-2. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-4 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-4 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-4 signs as precedents for layout. Basic route information, digital template files for the TR-4 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-4 signs shall be prepared using Adobe Illustrator. All new TR-4 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

Sign type TR-4 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape, double-face tape, or other appropriate adhesive. Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.
SECTION B1
Information Graphics

Train Route Diagram - 31"
Used with Sign Cabinet
Sign Type TR-5

1
Elevation - Sign Type TR-5
Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:
New Location and Installation:
Sign type TR-5 is typically mounted using a CWN-3.2 sign cabinet with sign type TT-5.
Sign type TR-5 can also be mounted using a CWS-3.1 snap frame when printed with sign type TT-5.
For information on CWN-3.2 and CWS-3.1, See Section B2.

Description

General
Sign type TR-5 provides Metra train route information. Sign type TR-5 contents will vary with location. Sign type TR-5 typically appears in conjunction with sign type TT-5.

Train Route Graphic
Sign type TR-5 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TR-5 is a Metra route schematic. Sign type TR-5 is the typical sign type for the display of Metra route diagrams in CWN-3.2 sign cabinets and CWS-3.1 snap frames. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-5 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order. When TR-5 is used on a platform, the stations shall be listed to reflect the typical direction of travel for trains boarded from the platform. When not used on a platform, the diagram shall start with the line’s northernmost and westernmost stations on the left. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-5 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-5 signs as precedents for layout. Basic route information, digital template files for the TR-5 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-5 signs shall be prepared using Adobe Illustrator. All new TR-5 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TR-5 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TR-5 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

www.metrarail.com
RTA Travel Information:
www.rtachicago.org
Phone: 312-836-7000
**SECTION B1**

**Information Graphics**

**Train Route Diagram - 31” Used with Sign Cabinet**

**Sign Type TR-5.1**

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**Elevation - Sign Type TR-5.1**

Scale: 1” = 1’-0”

*Associated Sign Cabinet / Frame Information:*

New Location and Installation:

Sign type TR-5.1 is typically mounted using a CWN-3.1 sign cabinet or a CWS-3.1 snap frame. For information on CWN-3.1 and CWS-3.1, See Section B2.

**Description**

**General**

Sign type TR-5.1 provides Metra train route information. Sign type TR-5.1 contents will vary with location.

**Train Route Graphic**

Sign type TR-5.1 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphics shown are for reference only. Sign type TR-5.1 is the typical sign type for the display of Metra route diagrams in CWN-3.1 sign cabinets and CWS-3.1 snap frames. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Graphic details will vary depending on where the sign is located, but each of the Metra lines shall always be shown in their entirety. Each route schematic will list all the stations along each line, in order. When TR-5.1 shows only one line, the route schematic will start with the northernmost or easternmost station at the top. When TR-5.1 is used on a platform in a station with more than one line, the route schematic shall reflect the typical direction of travel for trains boarded from the platform. When TR-5.1 shown more than one line and is not used on a platform, the route schematic shall start with the northernmost or westernmost stations on the left. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-5.1 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematics and location-specific graphics using existing TR-5.1 signs as precedents for layout. Basic route information, digital template files for the TR-5.1 graphics, and base art files for the header and footer graphics shall be provided by the RTA. Digital art for new TR-5.1 signs shall be prepared using Adobe Illustrator. All new TR-5.1 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TR-5.1 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TR-5.1 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
SECTION B1
Information Graphics

Train Route Diagram - 40"
Used with Sign Cabinet
Sign Type TR-6

**Elevation - Sign Type TR-6**

Scale: 1" = 1'-0"

**Description**

**General**

Sign type TR-6 provides Metra train route information. Sign type TR-6 contents will vary with location. Sign type TR-6 typically appears in conjunction with sign type TT-3.

**Train Route Graphic**

Sign type TR-6 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TR-6 is a Metra route schematic. Sign type TR-6 is the typical sign type for the display of Metra route diagrams in CWN-7 sign cabinets and CWS-7 snap frames. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-6 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order. When TR-6 is used on a platform, the stations shall be listed to reflect the line’s actual orientation. When not used on a platform, the diagram shall start with the line’s northernmost and westernmost stations on the left. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-6 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-6 signs as precedents for layout. Basic route information, digital template files for the TR-6 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-6 signs shall be prepared using Adobe Illustrator. All new TR-6 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TR-6 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location. Coordinate the TR-6 graphic and the overall panel size with the mounting conditions and hardware at each installation location.
At select locations, the RTA may choose to produce the interagency graphics as opaque vinyl decals that are either permanent or removable. Graphics for any of the interagency information products or wayfinding sign types included in this Standards Manual may be produced as vinyl decals.

**Sign Type Designation for Vinyl Decals**
Graphics to be produced as vinyl decals shall typically be identified by the addition of a "V" to the end sign type designation. For example, when sign type ID is to be produced as a vinyl decal, the sign type designation shall be revised to be “IDV.”

For sign type DSW, vinyl versions of the signs will be identified by sign type “DSW-3.” For example, when sign type DSW is to be produced as a vinyl decal, the sign type designation shall be revised to be DSW-3.1, DSW-3.2, DSW-3.3, etc. (The DSW-3 indicates the sign is to be vinyl, and the number after the decimal references one of the nine standard DSW sizes.)

**General Description**
Following is a general description of the vinyl decals. The Message Schedule shall identify which sign types are to be provided as vinyl graphics. The Message Schedule shall also indicate which vinyl graphics are to be permanent and which are to be removable.

The RTA shall provide specifications for the decals with shall include additional information and requirements.

The vinyl decals shall typically be applied on-site directly to existing surfaces. Coordinate with the RTA to review the installation locations prior to production. Inform the RTA of any locations where the vinyl decals can not be installed for any reason or where the installation or removal of the decals may cause damage to the existing surface.

The decals shall be fabricated from a pressure sensitive, adhesive-backed, high tensile strength, printable, vinyl graphic film. Removable decals shall remain removable for up to 2 years, with little or no adhesive residue, from most surfaces without the aid of accessories or chemical strippers.

The decals shall be opaque, durable, and UV-resistant. After completion of the printing process, the decals shall have a protective anti-graffiti overlaminate applied. The overlaminate shall be compatible with the decal material, inks, and the printing process.

The decal graphics shall be digitally printed. Graphics shall be accurately reproduced at high resolution and colors shall match the RTA color standards. The colors of the decal shall be either inherent in the decal film or printed on the surface and shall be of the permanent type.

Unless otherwise directed by the RTA, signs and graphics produced as vinyl decals shall be the same size and color as signs and graphics produced using typical materials and methods.

Prior to production of the decals, provide the RTA with samples and submittals as directed by the RTA.
SECTION B1
Information Graphics

Information Product File Arrangement

BC Bus Connections

Description

Each Bus Connections Information Product may include several separate file components that are linked into a single, master product file using Adobe InDesign software.

Master product files include standard headers and footers. Headers and footers are consistent across sign types. Master product files will be made available as template files for use in developing like sign types for new locations.

Schedule information for new products shall be provided by the RTA in XML format. Import the schedule information into InDesign timetable files. Maps and route diagrams shall be developed following the layout precedents established by existing signs and the master product files. Master product files shall serve as templates for overall layout, style, format, and color. All new product art must be reviewed and accepted by the RTA prior to production.

New art files shall be assembled using the same file structure as the existing master product files. File names shall follow the conventions established by the existing files. All files developed for interagency locations shall be provided to the RTA.
SECTION B1
Information Graphics

Information Product
File Arrangement

MN Neighborhood Map

Header File
"2 Icon Header.ai"

Map
"Location Name Map.ai"
* Base map may also be used in ID and BA products. Coordinate MN map with BA and ID maps as required. Specific layers may be added to base map file to provide the necessary information for each product.

Legend
"MN Legend.ai"

Footer
"Generic 31x43 Footer.ai"

Places of Interest
Part of Neighborhood Map InDesign file

Description

Each Neighborhood Map Information Product may include separate file components that are linked into a single, master product file using Adobe InDesign software.

Master product files include standard headers and footers. Master product files will be made available as template files for use in developing like sign types for new locations.

Maps and route diagrams shall be developed following the layout precedents established by existing signs. Existing product files shall serve as templates for overall layout, style, format, and color. All new product art must be reviewed and accepted by the RTA prior to production.

New art files shall be assembled using the same file structure as the existing product files. File names shall follow the conventions established by the existing files. All files developed for interagency locations shall be provided to the RTA.
**SECTION B1**

**Information Graphics**

**Information Product File Arrangement**

**ID-3 Transportation Center Identification**

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**Description**

Each Transportation Center Identification Information Product may include separate file components that are linked into a single, master product file using Adobe InDesign software.

Master product files include standard headers and footers. Master product files will be made available as template files for use in developing like sign types for new locations.

Maps and route diagrams shall be developed following the layout precedents established by existing signs. Existing product files shall serve as templates for overall layout, style, format, and color. All new product art must be reviewed and accepted by the RTA prior to production.

New art files shall be assembled using the same file structure as the existing product files. File names shall follow the conventions established by the existing files. All files developed for interagency locations shall be provided to the RTA.
**SECTION B2**
Cabinets / Frames for Information Graphics

**Section Introduction**

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### Description

**General**
Section B2 general reference.
SECTION B2
Cabinets / Frames for Information Graphics

Sign Cabinet Overview

**CWN Series Sign Cabinet**
Single Graphic Display

The cabinet will hold non-illuminated Information Graphics.

The graphics are described in Section B1.

The cabinet can be mounted onto a freestanding structure or a wall structure.

**CWN Series Sign Cabinet**
Double Graphic Display

The cabinet will hold non-illuminated TT-4 Train Times / Metra Schedule and non-illuminated TR-5 Train Route Diagram.

The graphics are described in Section B1.

The cabinet can be mounted onto a freestanding structure or a wall structure.

**CWN Series Sign Cabinet**
Single Graphic Display - Metra Schedule

The cabinet will hold non-illuminated TT-4 Train Times / Metra Schedule.

The graphics are described in Section B1.

The cabinet can be mounted onto a freestanding structure or a wall structure.

**CWN Series Sign Cabinet**
Double Graphic Display - Metra Schedule

The cabinet will hold non-illuminated TT-3 Train Times / Metra Schedule and non-illuminated TR-6 Train Route Diagram.

The graphics are described in Section B1.

The cabinet can be mounted onto a freestanding structure or a wall structure.
CWS Series Snap Frames

Snap frames may be specified to hold non-illuminated information graphics.

The graphics are described in Section B1.

The snap frames can be mounted onto a freestanding structure or a wall structure.

Information Graphics in Existing CTA Cabinets

Sign Type CCP
This is an internal support structure installed within existing CTA cabinets to hold graphic display panels closer to the glass front.

Sign Type CCH
This is a header panel which mounts to the existing CTA cabinets.

All are custom sized to respond to the existing CTA cabinet sizes.
SECTION B2
Cabinets / Frames for Information Graphics

Sign Cabinet Size Summary

CWN-3.1
Sign Cabinet for Single Graphic Display

CWN-3.2
Sign Cabinet for Double Graphic Display - TT-5 Train Times / Metra Schedule and TR-5 Train Route Diagram

CWN-6
Sign Cabinet for Single Graphic Display - TT-4 Train Times / Metra Schedule

CWN-7
Sign Cabinet for Double Graphic Display - TT-3 Train Times / Metra Schedule and TR-6 Train Route Diagram

CCP-1
Internal support structure
Size is custom to match existing CTA cabinets

CCH-2
Header Panel
Size is custom to match existing CTA cabinets

In sign cabinets were two information products are displayed, each product is printed on a separate substrate.

Sign cabinet and frame fabrication and mounting as outlined in this Manual may need to be revised in order to coordinate with site conditions and maintain design intent.

See the Technical Specifications for additional information and requirements.
SECTION B2
Cabinets / Frames for Information Graphics

Snap Frame Sign Cabinet Size Summary

CWS-3.1
Snap Frame for Single Graphic Display (Typical)
CWS-3.1 may also be used for Double Graphic Display - TT-5 Train Times / Metra Schedule and TR-5 Train Route Diagram

CWS-7
Snap Frame for Double Graphic Display - TT-3 Train Times / Metra Schedule and TR-6 Train Route Diagram

CWS-6
Snap Frame for Single Graphic Display - TT-4 Train Times / Metra Schedule

Overall frame sizes are based on the Alpina Security FlipUp snap frame. (V.O. = Visual Opening)

In snap frames where two information products are displayed, both products are printed on a single substrate.

See the Technical Specifications for additional information and requirements.

Sign cabinet and frame fabrication and mounting as outlined in this Manual may need to be revised in order to coordinate with site conditions and maintain design intent.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-3.1 Cabinet
Front Elevation

1. **Stainless Steel Sign Cabinet**
   - The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2. **Opening in the CWN Face**
   - Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3. **Polycarbonate Window**
   - Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.

Associated Printed Graphics:
The following information graphics are used with the CWN-3.1 sign cabinet:
- Sign Type BC-3 - See Section B1
- Sign Type ID-3 - See Section B1
- Sign Type MD-3 - See Section B1
- Sign Type MN-3 - See Section B1
- Sign Type TC-3.1 - See Section B1
- Sign Type TR-5.1 - See Section B1

Associated Sign Structures:
The CWN-3.1 sign cabinet can be mounted to the following sign structures:
- Sign Type SFM - See Section B3
- Sign Type SPY - See Section B3
- Sign Type SWM - See Section B4

**Description**

1. **Front Elevation - CWN-3.1 Cabinet**
   - Scale: 1/2" = 1'-0"

General
   - The CWN.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

   - The CWN-3.1 cabinet is used to display sign type BC-3, ID-3, MD-3, MN-3, TC-3.1, and TR-5.1 panels.

   - The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

   (V.O. = Visual Opening)
### CWN-3.1 Cabinet Section

**Description**

**General**

The CWN-3.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-3.1 cabinet is used to display sign types BC-3, ID-3, MD-3, MN-3, TC-3.1, and TR-5.1 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

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Brushed stainless steel door. The door is to have a continuous stainless steel hinge along the top edge.

Wall mounted or freestanding sign frame

Gasketing. Provide durable all weather gasketing as required to prevent dirt and water from entering the sign cabinet.

Top Z channel to hold the graphic panel. Panel mounting must allow for panel expansion and contraction.

Graphic panel

Polycarbonate window. Window mounting must allow for panel expansion and contraction.

Blocking and framing as required. Provide framing as required for the sign cabinet to be rigid and structurally sound. Provide blocking as required to position the graphic as close to the window as possible.

Mounting hardware as required to properly, safely, and securely mount the sign cabinet

Clips to hold polycarbonate window. Window mounting must allow for panel expansion and contraction. Window to be removable.

Bottom Z channel

Provide drain holes or other measures as required along the bottom edge of the cabinet to prevent water from collecting inside the cabinet.

The door shall be secured with concealed, stainless steel button-head socket cap screws. Fasteners shall have retaining washers so they do not fall out when loosened.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-3.1 Cabinet
Inside Elevation

Description

General
The CWN-3.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-3.1 cabinet is used to display sign types BC-3, ID-3, MD-3, MN-3, TC-3.1, and TR-5.1 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-3.2 Cabinet
Front Elevation

Associated Printed Graphics:
The following information graphics are used with the CWN-3.2 sign cabinet:
Sign Type TT-5 - See Section B1
Sign Type TR-5 - See Section B1

Associated Sign Structures:
The CWN-3.2 sign cabinet can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY - See Section B3
Sign Type SWM - See Section B4

Description

General
The CWN-3.2 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.
The CWN-3.2 cabinet is used to display sign type TT-5 and TR-5 panels.
The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
(V.O. = Visual Opening)

1 Stainless Steel Sign Cabinet
The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2 Opening in the CWN Face
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3 Polycarbonate Window
Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-3.2 & CWN-7 Cabinet Section

Description

General
The CWN-3.2 & CWN-7 sign cabinets are custom fabricated from stainless steel and display two graphic panels.

The CWN-3.2 cabinet is used to display sign type TT-5 and TR-5 panels.

The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
**SECTION B2**

Cabinets / Frames for Information Graphics

**CWN-3.2 Cabinet**

**Inside Elevation**

1. **Inside Elevation: CWN-3.2 Cabinet** *(Cabinet shown with door removed)*

   Scale: 1" = 1'-0"

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**Description**

**General**

The CWN-3.2 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-3.2 cabinet is used to display sign types TT-5 and TR-5 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-6 Cabinet
Outside Elevation

**Elevation - CWN-6 Cabinet**
Scale: 1/2" = 1'-0"

**Associated Printed Graphics:**
The following information graphics are used with the CWN-6 sign cabinet:
Sign Type TT-4 - See Section B1

**Associated Sign Structures:**
The CWN-6 sign cabinet can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY- See Section B3
Sign Type SWM - See Section B4

**Description**

**General**
The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

Sign type CWN sign cabinets mount to SWM, SFM, and SPY sign structures.

(V.O. = Visual Opening)

**1 Stainless Steel Sign Cabinet**
The CWN sign cabinet shall be fabricated stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

**2 Opening in the CWN Face**
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

**3 Polycarbonate Window**
Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-6 Cabinet
Section

Description

General
The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

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Brushed stainless steel door. The door is to have a continuous stainless steel hinge along the top edge.

Wall mounted or freestanding sign frame

Gasketing. Provide durable all weather gasketing as required to prevent dirt and water from entering the sign cabinet.

Top Z channel to hold the graphic panel. Panel mounting must allow for panel expansion and contraction.

Graphic panel

Polycarbonate window. Window mounting must allow for panel expansion and contraction.

Blocking and framing as required. Provide framing as required for the sign cabinet to be rigid and structurally sound. Provide blocking as required to position the graphic as close to the window as possible.

Mounting hardware as required to properly, safely, and securely mount the sign cabinet

Clips to hold polycarbonate window. Window mounting must allow for panel expansion and contraction.

Window to be removable.

Bottom Z channel

Provide drain holes or other measures as required along the bottom edge of the cabinet to prevent water from collecting inside the cabinet.

The door shall be secured with concealed, stainless steel button-head socket cap screws. Fasteners shall have retaining washers so they do not fall out when loosened.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-6 Cabinet
Inside Elevation

Inside Elevation: CWN-6 Cabinet  (Cabinet shown with door removed)
Scale: 1" = 1'-0"

Description

General
The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
SECTION B2
Cabinets / Frames for Information Graphics

CWN-7 Cabinet
Outside Elevation

1. Front Elevation: CWN-7 Cabinet
   Scale: 1/2" = 1'-0"

Associated Printed Graphics:
The following information graphics are used with the CWN-7 sign cabinet:
Sign Type TT-3 - See Section B1
Sign Type TR-6 - See Section B1

Associated Sign Structures:
The CWN-7 sign cabinet can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY - See Section B3
Sign Type SWM - See Section B4

Description

General
The CWN-7 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1. Stainless Steel Sign Cabinet
   The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2. Opening in the CWN Face
   Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3. Polycarbonate Window
   Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.
**Section B2**

**Cabinets / Frames for Information Graphics**

### CWN-7 Cabinet

**Inside Elevation**

**Description**

**General**

The CWN-7 series sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.
SECTION B2
Cabinets / Frames for Information Graphics

CWS-3.1 Snap Frame
Outside Elevation

Front Elevation - CWS-3.1 Snap Frame

Scale: 1/2" = 1'-0"

Associated Printed Graphics:
The following information graphics are used with the CWS-3.1 snap frame:
- Sign Type BC-3 - See Section B1
- Sign Type ID-3 - See Section B1
- Sign Type MD-3 - See Section B1
- Sign Type MN-3 - See Section B1
- Sign Type TC-3.1 - See Section B1
- Sign Type TR-5 - See Section B1
- Sign Type TR-5.1 - See Section B1
- Sign Type TT-5 - See Section B1

Associated Sign Structures:
The CWS-3.1 snap frame can be mounted to the following sign structures:
- Sign Type SFM - See Section B3
- Sign Type SPY - See Section B3
- Sign Type SWM - See Section B4

Description

General
The CWS-3.1 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-3.1 snap frame is used to display sign types BC-3, ID-3, MD-3, MN-3, TC-3.1, TR-5.1, and TR-5 / TT-5 panels (when displayed in the CWS-3.1 frame, TT-5 and TR-5 graphics are printed on a single substrate).

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Snap Frame
CWS-3.1 shall be a custom-sized Alpina “FlipUp” “Deep Bottom” FF-RP snap frame cabinet with 1.75” round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8” clear polycarbonate changeable lens, and .040 black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

2 Security Screws
Frame shall have tamper-resistant, stainless steel, security locking screws.
**Section B2**
Cabinets / Frames for Information Graphics

CWS-6 Snap Frame
Outside Elevation

**Description**

**General**

The CWS-6 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-6 snap frame is used to display sign type TT-4 panels.

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

**Snap Frame**

CWS-6 shall be a custom-sized Alpina “FlipUp” “Deep Bottom” FF-RP snap frame cabinet with 1.75" round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8" clear polycarbonate changeable lens, and .040 black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

**Security Screws**

Frame shall have tamper-resistant, stainless steel, security locking screws.
SECTION B2
Cabinets / Frames for Information Graphics

CWS-7 Snap Frame
Outside Elevation

1 Front Elevation - CWS-7 Snap Frame
Scale: 1/2" = 1'-0"

Associated Printed Graphics:
The following information graphics are used with the CWS-7 snap frame:
Sign Type TR-6 - See Section B1
Sign Type TT-3 - See Section B1

Associated Sign Structures:
The CWS-7 snap frame can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY - See Section B3
Sign Type SWM - See Section B4

Description

General
The CWS-7 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-7 snap frame is used to display sign type TR-6 / TT-3 panels (when displayed in the CWS-7 frame, TT-3 and TR-6 graphics are printed on a single substrate).

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.
(VO. = Visual Opening)

1 Snap Frame
CWS-7 shall be a custom-sized Alpina “FlipUp” “Deep Bottom” FF-RP snap frame cabinet with 1.75” round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8” clear polycarbonate changeable lens, and .040 black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

2 Security Screws
Frame shall have tamper-resistant, stainless steel, security locking screws.
SECTION B2
Cabinets / Frames for Information Graphics

CWS Series Snap Frames
Side Elevation

**Description**

**General**

The CWS series frames are custom snap frames fabricated from aluminum and display a single graphic panel.

The CWS series snap frames mount to the SWM, SFM, or SPY sign structures.

**1 Side View: CWS Series Snap Frame**

Scale: N.T.S.

**2 Detail View: CWS Series Snap Frame**

Scale: 1/2" = 1"
SECTION B2
Cabinets / Frames for Information Graphics

CCP-1 CTA Case
Build-Out
Front Elevation

Cabinet interior dimensions vary.
Verify actual dimensions on site at each location.

1 Elevation - Sign Type CCP-1
Scale: N.T.S.

Description

General
Sign type CCP-1 is a custom sign support structure installed within existing CTA Transit Information cabinets.

Information graphic sign types are mounted to the face of sign type CCP-1.

Existing CTA Transit Info Cabinet
Verify on site the conditions, dimensions, and materials used in the existing CTA Transit Information Cabinet (CTA sign type P-18 or similar) at each location. Remove any existing graphics from the cabinet and clean and prepare the cabinet interior to receive the CCP sign structure.

New Cabinet Interior Back Wall
Provide a new cabinet back wall. Position the new back wall so the faces of the mounted information graphic panels are as close to the existing glass doors as possible without interfering with the operation of the doors.

The new back wall shall be vandal-resistant and permanently mounted in position. The new back wall shall be smooth and precisely fitted to the interior of the existing sign cabinet. If possible, the new back wall shall not have seams. If seams are needed, use the minimum number possible and position them to be hidden as much as possible. Hardware shall not be visible on the face of the new back wall when the other sign types are mounted to it. The new back wall shall be painted aluminum.
**Section B2**

**Cabinets / Frames for Information Graphics**

**CCP-1 CTA Case Build-Out Section**

### Description

**General**

Sign type CCP-1 is a custom sign support structure installed within existing CTA Transit Information cabinets. Information graphics are mounted to the face of sign type CCP.

**Existing CTA Transit Info Cabinet**

Verify on site the conditions, dimensions, and materials used in the existing CTA Transit Information Cabinet (CTA sign type P-18 or similar) at each location. Remove any existing graphics from the cabinet and clean and prepare the cabinet interior to receive the CCP sign structure.

**New Cabinet Interior Back Wall**

Provide a new cabinet back wall. Position the new back wall so the faces of the mounted information graphic panels are as close to the existing glass doors as possible without interfering with the operation of the doors. The new back wall shall be vandal-resistant and permanently mounted in position. The new back wall shall be smooth and precisely fitted to the interior of the existing sign cabinet. If possible, the new back wall shall not have seams. If seams are needed, use the minimum number possible and position them to be hidden as much as possible. Hardware shall not be visible on the face of the new back wall when the other sign types are mounted to it. The new back wall shall be painted aluminum.

**Internal Framing**

Provide concealed internal framing and bracing as needed for the CCP sign structure to be rigid and structurally sound, to be properly positioned, and to properly, safely, and securely support the sign types mounted to the CCP face.

**Information Graphic Panels**

Sign types like TC, BC, and MN shall be mounted to the CCP face using high strength hook and loop tape (Velcro). See the Message Schedule for the exact sign types to be included at each CCP location.

**High Strength Hook & Loop Tape**

Provide high strength hook and loop tape to securely adhere sign panels to the new back wall.

**Mounting Hardware**

Provide mounting hardware as required to properly, safely, and securely mount the CCP sign structure within the existing display case.
**SECTION B2**

*Cabinets / Frames for Information Graphics*

**Sign Type CCH-2**

*Front Elevation*

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**General**

Sign type CCH-2 is a custom fabricated brushed stainless steel panel with cut out painted stainless steel letters and symbols. The panel shall be mounted to the front of an existing CTA Transit Information display case to act as the header panel when new interagency information graphics are installed within the case.

**Sign Panel**

The sign panel shall be 1/8" thick stainless steel with a brushed finish, horizontal grain. The panel shall be properly, safely, securely and permanently mounted to the face of an existing CTA Transit Information case (CTA sign type P-18 or similar). The top and sides of the panels shall align exactly with the top and sides of the cabinet. The bottom edge of the panel shall align with the top of the openings in the cabinets.

**Cut-out Letters**

1/4" thick water-jet cut out stainless steel letters shall be permanently mounted flush to the face of the sign panel. The letters are to have a painted finish.

**Milled Aluminum Symbol Panel With Stainless Steel Insert**

1/4" thick milled aluminum symbol panel with 1/8" thick raised symbol and border. The aluminum panel shall have painted finish (all surfaces) and shall be permanently pin mounted to the sign structure. Symbol background shall be a cut-out 16 gauge stainless steel insert with a horizontal brushed finish. Stainless steel shall be precisely cut-out to fit within the aluminum panel and around the raised symbol.

**Openings for Existing Locks**

Provide openings in the panels as required to permit access to existing cabinet locks. The openings shall be precisely sized and located so that they align exactly with the locks.

**Existing CTA Transit Info Cabinet**

Coordinate the panel dimensions and fabrication with existing conditions and dimensions. Prior to fabrication, verify on site the conditions, dimensions, and materials of the existing cabinets at each location where a sign type CCH is to be installed. Verify if there are existing locks or other existing features that will need to be coordinated with the sign fabrication and/or installation.
**Section - Sign Type CCH-2**

Scale: 1/2" = 1"

### Description

**General**
Sign type CCH-2 is a custom fabricated brushed stainless steel panel with cut out painted stainless steel letters and symbols mounted to an existing CTA Information display case.

**1 Sign Cabinet/Wall**
Verify the materials and construction used at each existing location where new letters and back plates are to be pin mounted.

**2 Stainless Steel Mounting Pins**
Provide threaded stainless steel mounting pins as needed to properly, safely, and securely mount the cut out letters and back plates. Coordinate the quantity, size, and length of the pins with the size and weight of the letters and back plates and with the materials and conditions at each of the locations where the letters and back plates shall be mounted. Properly and permanently secure the mounting pins to the backs of the letters and the back plates. Provide the appropriate high strength, exterior grade, permanent adhesive to permanently secure the mounting pins. Determine the correct adhesive for each location where letters and back plates are to be pin mounted. All mounting materials and adhesives shall be suitable for use in exterior locations.

**3 VHB Tape and Silicone Adhesive**
Cut out letters and back plates shall be adhered in position using high strength VHB tape and silicone adhesive. Carefully apply the tape and adhesive to the backs of the letters and back plates. Tape and adhesive shall not be visible when the letters and back plates are in position. Coordinate the tape and adhesive as needed with the materials that the letters are to be mounted to at each location. Use tape and adhesive suitable for exterior locations.

**4 Cut-out Stainless Steel Letters**
Water jet cut out letters from plate stainless steel. Letters shall have a painted finish on the faces and returns. See pages B3.15 and B3.16 in Section B3 for additional information.

**5 Stainless Steel Sign Panel**
The sign panel shall be 1/8" stainless steel with a brushed finish, horizontal grain. See Page B2.23 for additional information.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

Section Introduction

Description

General
Section B3 general reference.
**SECTION B3**
Freestanding Structures for Sign Cabinets / Frames

**Sign Structure Overview**

**SFM Series Sign Structure**
Single or Double Sided Structure with multiple Sign Cabinets / Frames

- The structure will hold CWN sign cabinets or CWS snap frames. The cabinets and snap frames are described in Section B2.

**SPY Series Sign Structure**
Multi Sided Structure with multiple Sign Cabinets / Frames

- The structure will hold CWN sign cabinets or CWS snap frames. The cabinets and snap frames are described in Section B2.

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**Description**

**General**
There are a variety of types of freestanding sign structures. CWN sign cabinets or CWS snap frames are mounted to the freestanding sign structures.

Freestanding structures may be used in exterior or interior locations where there are no suitable wall mounting surfaces for the signs.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

Structure Size Summary

**Description**

**General**
The freestanding sign structures are available in a variety of sizes. Coordinate the size and type of freestanding structure used with the information to be displayed and the space available at the installation location.

To coordinate with site conditions and to maintain design intent, sign structure fabrication and mounting as outlined in these Guidelines may need to be revised.

See the Technical Specifications for additional information and requirements.
**SFM-3.1 Sign Structure**

**Description**

**General**
The SFM-3.1 sign structure is freestanding and fabricated from stainless steel. CWN sign cabinets or CWS snap frames can be mounted on only one side of the SFM-3.1 structure.

**1 Stainless Steel Faces**
The faces of the SFM-3.1 sign structure shall be fabricated from stainless steel. The faces shall have a brushed finish, horizontal grain. The faces shall be rigid, smooth, and flat. The faces shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the faces of the SFM-3.1 sign structure. The faces of the sign structure shall not have seams.

**2 Sign Cabinets / Frames Mounted to the Face of the SFM-3.1 Sign Structure**
CWN-3.1 or CWN-3.2 sign cabinets, or CWS-3.1 snap frames, shall be properly, safely, and securely mounted to one face of the SFM-3.1 sign structure with concealed vandal-resistant hardware. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

**3 Support Legs**
The SFM-3.1 sign structure shall be properly, safely, and securely supported on stainless steel legs. The legs shall have a brushed finish, horizontal grain. The legs are to be closed at the top with flush, welded, stainless steel caps.

**4 Threaded Hole for Lifting Eye**
Flush top cap with threaded hole for lifting eye. Seal hole with flush stainless steel set screw and silicone after installation.

**5 Structure Mounting**
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SFM-3.1 sign structure. Coordinate the fabrication of the stainless steel legs with the structure mounting and site conditions. See pages B3.9 - B3.12 for additional information.
**General**
The SFM-3.2 sign structure is double-sided, freestanding, and fabricated from stainless steel. CWN sign cabinets, CWS snap frames, and SWD sign frames can be mounted to the SFM-3.2 structure.

**Stainless Steel Faces**
The faces of the SFM-3.2 sign structure shall be fabricated from stainless steel. The faces shall have a brushed finish, horizontal grain. The faces shall be rigid, smooth, and flat. The faces shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the faces of the SFM-3.2 sign structure. The faces of the sign structure shall not have seams.

**Sign Cabinets / Frames Mounted to the Face of the SFM-3.2 Sign Structure**
CWN-3.1 or CWN-3.2 sign cabinets, or CWS-3.1 snap frames, shall be properly, safely, and securely mounted to one or both faces of the SFM-3.2 sign structure with concealed vandal-resistant hardware. In addition to CWN sign cabinets or CWS snap frames, a SWD sign frame may also be mounted to one side of the structure. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

**Support Legs**
The SFM-3.2 sign structure shall be properly, safely, and securely supported on stainless steel legs. The legs shall have a brushed finish, horizontal grain. The legs are to be closed at the top with flush, welded, stainless steel caps.

**Threaded Hole for Lifting Eye**
Flush top cap with threaded hole for lifting eye. Seal hole with flush stainless steel set screw and silicone after installation.

**Structure Mounting**
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SFM-3.2 sign structure. Coordinate the fabrication of the stainless steel legs with the structure mounting and site conditions. See pages B3.9 - B3.12 for additional information.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

SFM-4 Sign Structure

**Description**

**General**
The SFM-4 sign structure is freestanding and fabricated from stainless steel. Various sign cabinets and frames can be mounted to the SFM-4 sign structure.

**Stainless Steel Faces**
The faces of the SFM-4 sign structure shall be fabricated from stainless steel. The faces shall be rigid, smooth, and flat, and have a horizontal brushed finish. The faces shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the faces of the SFM-4 sign structure. The faces of the SFM-4 sign structure shall have minimal seams. Indicate the location of any seams on the Shop Drawings.

**Sign Cabinets / Frames Mounted to the Face of the SFM-4 Sign Structure**
Various CWN sign cabinets and CWS snap frames shall be properly, safely, and securely mounted to one or both faces of the SFM-4 sign structure with concealed vandal-resistant hardware suitable for exterior use. In addition to CWN sign cabinets or CWS snap frames, a SWD sign frame may also be mounted to one side of the structure. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

**Support Legs**
The SFM-4 sign structure shall be properly, safely, and securely supported on stainless steel legs. The legs shall have a horizontal brushed finish. The legs are to be closed at the top with flush, welded, stainless steel caps. Based on final sign size, structural engineer to determine final support leg dimensions as required to properly, safely, and securely support the sign.

**Threaded Hole for Lifting Eye**
Flush top cap with threaded hole for lifting eye. Seal hole with flush stainless steel set screw and silicone after installation.

**Structure Mounting**
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SFM-4 sign structure. Coordinate the fabrication of the stainless steel legs with the structure mounting and site conditions. See pages B3.9 - B3.12 for additional information.

**Determine the SWM-4 Width**
The SWM-4 sign structure shall be configured as needed to accommodate two or more sign cabinets or frames. The sign cabinets or frames shall be positioned as shown. (CWN-6 shown).

**Associated Sign Cabinet / Frame Information:**
The following sign cabinets / frames can be mounted to the SFM-4 Sign Structure:
CWN-3.1, CWN-3.2, CWN-6, and CWN-7 sign cabinets, see Section B2.
CWS-3.1, CWS-6, and CWS-7 snap frames, see Section B2.
SWD sign frames, see Section D1.

**Associated Structure Mounting Information:**
For information on mounting the SFM-4 sign structure, see pages B3.9 - B3.12.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

SPY-3 Sign Structure

1 Elevation: SPY-3 Sign Structure
Scale: 1/2" = 1'-0"

Associated Sign Cabinet Information:
The following sign cabinets / frames can be mounted to the SPY-3 Sign Structure:
CWN-3.1 and CWN-3.2 sign cabinets, see Section B2.
CWS-3.1 snap frames, see Section B2.
SWD sign frames, see Section D1.

2 Plan View - SPY-3 Sign Structure
Scale: 1/2" = 1'-0"

Associated Structure Mounting Information:
For information on mounting the SPY-3 sign structure, see pages B3.9 - B3.12.

Description

General
The SPY-3 sign structure is a freestanding, three-sided pylon fabricated from stainless steel. CWN sign cabinets, CWS snap frames, and SWD sign frames can be mounted on each side of the structure.

Stainless Steel Faces
The faces of the SPY-3 sign structure shall be fabricated from stainless steel. The faces shall have a brushed finish, horizontal grain. The faces shall be rigid, smooth, and flat. The faces shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the faces of the SPY-3 sign structure. The faces of the sign structure shall not have seams.

Sign Cabinets / Frames Mounted to the Face of the SPY-3 Sign Structure
Various CWN sign cabinets, or CWS snap frames, shall be properly, safely, and securely mounted to the faces of the SPY-3 sign structure with concealed vandal-resistant hardware. In addition to CWN sign cabinets or CWS snap frames, a SWD sign frame may also be mounted to one side of the structure. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

Support Legs
The SPY-3 sign structure shall be properly, safely, and securely supported on cylindrical stainless steel legs. The legs shall have a brushed finish, horizontal grain. The legs are to be closed at the top with flush, welded, stainless steel caps.

Threaded Hole for Lifting Eye
Flush top cap with threaded hole for lifting eye. Seal hole with flush stainless steel set screw and silicone after installation.

Structure Mounting
Provide all the mounting hardware and materials needed to properly, safely, and securely mount the SPY-3 sign structure. Coordinate the fabrication of the stainless steel legs with the structure mounting and site conditions. See pages B3.9 - B3.12 for additional information.
**SECTION B3**

**Freestanding Structures for Sign Cabinets / Frames**

**SFM & SPY Sign Structures Section**

**Description**

1. **Stainless Steel Faces**
   The faces of the SFM and SPY sign structures shall be fabricated from stainless steel.

2. **Sign Cabinets / Frames Mounted to the Face of the SFM & SPY Sign Structures**
   Various CWN sign cabinets and CWS snap frames shall be properly, safely, and securely mounted to one or both sides of the sign structure with concealed vandal-resistant hardware. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

3. **Support Legs**
   The SFM and SPY sign structures shall be properly, safely, and securely supported on stainless steel legs. The legs shall have a brushed finish, horizontal grain. The legs are to be closed at the top with flush, welded, stainless steel caps.

4. **Internal Framing**
   Provide internal framing and bracing as needed for the SFM and SPY sign structures to be rigid and structurally sound and for the sign structure to be properly, safely, and securely mounted to various surfaces. The internal framing shall also properly, safely, and securely support any sign components which are mounted to the SFM and SPY sign structures.

5. **Structure Mounting**
   Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SFM and SPY sign structures. Coordinate the fabrication of the stainless steel legs with the structure mounting and site conditions. See pages B3.9 - B3.12 for additional information.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

SMFS Sign Structure with Sleeved Legs

**Description**

1. **Stainless Steel Legs From SFM or SPY Sign Structure**
   Coordinate the SMFS fabrication with the materials, finishes, and construction of the SFM and SPY as required. The SFM or SPY legs shall sleeve over mounting stub posts. Coordinate the size of the SFM or SPY legs with the stub posts.

2. **SMFS Stub Posts**
   Provide brushed stainless steel stub posts welded to stainless steel mounting flanges. The stub posts shall precisely sleeve within the SFM or SPY sign structure legs. Size the stub posts and mounting flanges as required to properly, safely, and securely support the sign structure and all the sign components mounted to the sign structure.

3. **Existing Pavement or New Concrete Foundations**
   The SMFS can be used at locations with existing pavement or at locations where new foundations are required. Verify on site the conditions at each installation location. Coordinate the foundations and mounting hardware with the sign structure and with the existing conditions at each installation location. New concrete foundations shall be professionally engineered. Provide heavy-duty anchor bolts and assembly bolts as required to properly, safely, and securely anchor the sign structure and all the sign components mounted to the sign structure. Provide any additional concrete, bracing, framing, or other additional support components required to properly, safely, and securely support the entire sign structure and all the sign components mounted to the sign structure.

4. **Post Bolts**
   Provide heavy duty stainless steel bolts with finished cap nuts as required to properly, safely, and securely secure the SFM or SPY sign structure to the stub posts.

5. **Anchor Bolts & Mounting Hardware**
   Provide all anchor bolts and mounting hardware as needed to properly, safely, and securely mount the entire sign structure to the foundation or the existing pavement. Secure the stub posts to the anchor bolts with appropriate locking nuts. Provide appropriate acorn-type cap nuts, or similar finished cap nuts accepted by the RTA, to finish the tops of the anchor bolts.

6. **Install Signs Plum and Level**
   Coordinate the SFM and the SPY sign structure with the SMFS mounting so that the complete sign assembly is plumb and level. The distance from the ground to any point along the bottom of the sign structure shall not exceed 2'-3". Provide appropriate grout to fill any gaps between the flanges and the tops of the foundations or pavement as required.

**Associated Sign Structures:**
The SMFS structure mounting can be used with the following sign structures:
- SFM-3.1. See page B3.4 for additional information.
- SFM-3.2. See page B3.5 for additional information.
- SFM-4. See page B3.6 for additional information.
- SPY-3. See page B3.7 for additional information.

**Elevation - SMFS Sign Structure Mounted to Flat Ground**

**Elevation - SMFS Sign Structure Mounted to Sloping Ground**
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

SMAB Structure Mounting

**Description**

**General**
Structure mounting SMAB is for securing ground mount sign structures to existing pavement.

**1 Stainless Steel Legs From SFM or SPY Sign Structure**
Coordinate the fabrication of the sign structure with the sign mounting as needed to maintain the correct overall sign structure height and to not exceed the maximum distance from the ground to the bottom of the sign. Coordinate SMAB with the site conditions and the materials, finishes, and construction of the stainless steel legs as required. Prior to fabrication, inform the RTA of any conditions or locations that would cause the maximum distance from the ground to the bottom of the sign to be exceeded. The fabrication of the sign structure may need to be revised to coordinate with the site conditions and to keep the distance from the ground to any point along the bottom of the sign at 2'-3" or less.

**2 Mounting Flanges**
Provide a stainless steel mounting flange for each of the legs of the sign structure. Weld the mounting flanges to the bases of the stainless steel legs. All welded frame joins shall be carefully ground smooth and finished as needed for a seamless appearance and continuous finish. Size the mounting flanges as required to properly, safely, and securely support the entire sign.

**3 Existing Floor or Pavement**
Verify on site the conditions at each installation location. Coordinate the sign anchor bolts and mounting hardware with the conditions at each installation location as required to properly, safely, and securely install the entire sign.

**4 Anchor Bolts & Mounting Hardware**
Provide all anchor bolts and mounting hardware as needed to properly, safely, and securely mount the entire sign. Coordinate the anchor bolts and mounting hardware with the mounting surface and site conditions as required. Install signs plumb and level. Provide appropriate systems and set ups to accommodate uneven surfaces at installation locations. Provide leveling hardware as required. Secure the sign structure to the anchor bolts with appropriate locking nuts. Provide appropriate stainless steel acorn-type cap nuts, or similar finished stainless steel cap nuts accepted by the RTA, to finish the tops of the anchor bolts. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

**5 Non-shrink Grout**
Provide appropriate non-shrink grout to fill the space between the flanges and the tops of the finished floor or pavement as required.

**Associated Sign Structures:**
The SMAB structure mounting can be used with the following sign structures:
SFM-3.1. See page B3.4 for additional information.
SFM-3.2. See page B3.5 for additional information.
SFM-4. See page B3.6 for additional information.
SPY-3. See page B3.7 for additional information.

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**Reference Elevation - SMAB**
Scale: 3/8" = 1'-0"

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**Detail - SMAB**
Scale: NTS
**SECTION B3**

**Freestanding Structures for Sign Cabinets / Frames**

**SMCF Structure Mounting**

Associated Sign Structures:
The SMCF structure mounting can be used with the following sign structures:
- SFM-3.1. See page B3.4 for additional information.
- SFM-4. See page B3.6 for additional information.
- SFM-3.2. See page B3.5 for additional information.
- SPY-3. See page B3.7 for additional information.

### Description

**General**
Structure mounting SMCF is for securing ground mount sign structures at locations where new 4’-0” deep concrete foundations are required.

1. **Stainless Steel Legs From SFM or SPY Sign Structure**
   Coordinate the fabrication of the sign structure with the sign mounting and foundation as needed to maintain the correct overall sign structure height and to not exceed the maximum distance from the ground to the bottom of the sign. Coordinate SMCF with the site conditions and the materials, finishes, and construction of the stainless steel legs as required. Prior to fabrication, inform the RTA of any conditions or locations that would cause the maximum distance from the ground to the bottom of the sign to be exceeded. The fabrication of the sign structure may need to be revised to coordinate with the site conditions and to keep the distance from the ground to any point along the bottom of the sign at 2’-3” or less.

2. **Mounting Flanges**
   Provide a stainless steel mounting flange for each of the legs of the sign structure. Weld the mounting flanges to the bases of the stainless steel legs. All welded frame joins shall be carefully ground smooth and finished as needed for a seamless appearance and continuous finish. Size the mounting flanges as required to properly, safely, and securely support the entire sign.

3. **New Concrete Foundation**
   Provide new, professionally engineered concrete foundations. Coordinate the foundations with the sign structure and with the existing conditions at each installation location. Verify on site the conditions at each installation location. Provide heavy-duty stainless steel anchor bolts set into the foundations as required to properly, safely, and securely anchor the entire sign. At all locations, carefully finish exposed portions of the foundations to provide a neat, smooth, and finished appearance. Provide expansion joints and expansion joint filler between foundations and adjoining paving as required to minimize cracking. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign. See page B3.12 for additional information.

4. **Mounting Hardware**
   Provide all mounting hardware as needed to properly, safely, and securely mount the entire sign. Coordinate the mounting hardware with the mounting surface and site conditions as required. Install signs plumb and level. Provide appropriate systems and set ups to accommodate uneven surfaces at installation locations. Provide leveling hardware as required. Secure the sign structure to the anchor bolts with appropriate locking nuts. Provide appropriate stainless steel acorn-type cap nuts, or similar finished stainless steel cap nuts accepted by the RTA, to finish the tops of the anchor bolts.

5. **Non-shrink Grout**
   Provide appropriate non-shrink grout to fill the space between the flanges and the tops of the foundations as required.

[Diagram of SMCF Structure Mounting]
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

Foundation for SMCF Structure Mounting

New Concrete Foundation for SMCF Mounting – Isometric View
Scale: NTS

See page B3.11 for additional information on SMCF structure mounting.

Description

General

If required, provide new, professionally engineered concrete foundations. Coordinate the size and type of foundations with the sign structure and with the existing conditions at each installation location. Verify on site the conditions at each installation location. Provide heavy-duty stainless steel anchor bolts as required to properly, safely, and securely anchor the entire sign. At all locations, carefully finish exposed portions of the foundations to provide a neat, smooth, and finished appearance. Provide expansion joints and expansion joint filler between foundations and adjoining paving as required to minimize cracking. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

NOTES:
1. ALL CONCRETE TO BE NORMAL STRENGTH, F’c = 3,500 PSI
2. REINFORCEMENT TO BE EPOXY COATED, GRADE 60.
3. 3” COVER TO ALL REINFORCEMENT
4. ANCHOR BOLTS TO BE EITHER CAST IN PLACE AT TIME OF CONCRETE POUR OR DRILL AND GROUT IN PLACE AFTER CONCRETE HARDENS. DRILL AND GROUT PER MANUFACTURER SPECIFICATIONS. SPACE REINFORCEMENT TO MISS ANCHOR BOLT LOCATIONS.
SECTION B3
Freestanding Structures for Sign Cabinets / Frames

Cut Out Letters Elevation

Associated Sign Structures:
SFM-3.1. See page B3.4 for additional information.
SFM-3.2. See page B3.5 for additional information.
SFM-4. See page B3.6 for additional information.
SPY-3. See page B3.7 for additional information.

Description

General
SFM and SPY sign structures include cut out metal letters and a milled aluminum symbol panel with a stainless steel insert attached directly to the structure.

1 Cut Out Letters
1/4" thick letters water jet cut from plate stainless steel. Letters shall have a painted finish. Letters shall be permanently pin mounted to the sign structure.

2 Milled Aluminum Symbol Panel With Stainless Steel Insert
1/4" thick milled aluminum symbol panel with 1/8" thick raised symbol and border. The aluminum panel shall have painted finish (all surfaces) and shall be permanently pin mounted to the sign structure. Symbol background shall be a cut-out 16 gauge stainless steel insert with a horizontal brushed finish. Stainless steel shall be precisely cut-out to fit within the aluminum panel and around the raised symbol.
SECTION B3
Freestanding Structures
for Sign Cabinets / Frames

Cut Out Letters
Section

Detail Section - Cut Out Letters Mounted to SFM or SPY Sign Structures
Scale: 1/2" = 1"

Associated Sign Structures:
SFM-3.1. See page B3.4 for additional information.
SFM-3.2. See page B3.5 for additional information.
SFM-4. See page B3.6 for additional information.
SPY-3. See page B3.7 for additional information.

Description

General
SFM and SPY sign structures include cut out metal letters and etched symbol panels mounted directly to the sign structure.

1. **SFM or SPY Sign Structure**
Coordinate the construction of the SFM and SPY sign structures so that the pin mounted cut out letters and etched symbol panel can be properly, safely, securely, and permanently mounted to the face of the structure.

2. **Stainless Steel Mounting Pins**
Provide threaded stainless steel mounting pins as needed to properly, safely, securely, and permanently mount the cut out letters and etched symbol panel. Coordinate the quantity, size, and length of the pins with the size and weight of the letters and symbols and the construction of SFM or SPY sign structure. Properly, safely, securely, and permanently secure the pins to the backs of the letters and symbol panel.

3. **Stainless Steel Lock Nuts**
Provide the appropriate stainless steel lock nuts as needed to work with the mounting pins to properly, safely, securely, and permanently secure the cut out letters and symbol panel.

4. **VHB Tape and Silicone Adhesive**
Cut out letters and symbol panel shall be adhered in position using high strength VHB tape and silicone adhesive. Carefully apply the tape and adhesive to the backs of the letter and symbol panel. Tape and adhesive shall not be visible when the letters and symbol panel are in position. Provide tape and adhesive as needed to properly, safely, securely, and permanently secure the cut out letters and symbol panel to the sign structures. Use tape and adhesive suitable for exterior locations.

5. **Letters and Milled Aluminum Symbol Panel with Stainless Steel Insert**
1/4" thick water jet cut stainless steel letters and 1/4" thick milled aluminum symbol with cut-out 16 gauge stainless steel insert.
**Description**

**General**
Section B4 general reference.
Section B4

Wall Mount Structures for Sign Cabinets / Frames

SWM Structure Overview

Description

General

SWM sign structures are wall mounted. CWN sign cabinets or CWS snap frames are mounted to the SWM sign structures. SWM sign structures may be used in exterior or interior locations where there are suitable wall mounting surfaces for the signs.
Description

General
The SWM series sign structures are available in a variety of sizes. Coordinate the size and type of wall mounted structure used with the information to be displayed and the space available at the installation location.

To coordinate with site conditions and to maintain design intent, sign structure fabrication and mounting as outlined in these Guidelines may need to be revised. See the Technical Specifications for additional information and requirements.

SWM Size Summary

SWM - 3 Sign Structure

SWM - 4 Sign Structure
SECTION B4
Wall Mount Structures for Sign Cabinets / Frames

SWM-3 Sign Structure

Description

General
The SWM-3 sign structure is wall mounted and fabricated from stainless steel. CWN-3.1 and CWN-3.2 sign cabinets and CWS-3.1 snap frames can be mounted to the SWM-3 sign structure.

Stainless Steel Face and Returns
The face and returns of the SWM-3 shall be fabricated from stainless steel. The SWM-3 face and returns shall have a brushed finish, horizontal grain. The face and returns shall be rigid, smooth, and flat. The face shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the face of the SWM-3 sign structure. The face of the SWM-3 sign structure shall not have seams.

Sign Cabinets / Frames Mounted to the Face of the SWM-3 Sign Structure
CWN-3.1 or CWN-3.2 sign cabinets, or CWS-3.1 snap frames, shall be properly, safely, and securely mounted to the face of the SWM-3 sign structure with concealed vandal-resistant hardware. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

Wall Surface
The SWM-3 sign structure shall be mounted to a variety of wall surfaces. Prior to fabrication, verify on site the existing wall materials, construction, and conditions. Verify if any additional structural elements, bracing, or other materials are needed to safely, properly, and securely mount the SWM-3 sign structure.

Associated Sign Cabinet / Frame Information:
The following sign cabinets / frames can be mounted to the SWM-3 Sign Structure: CWN-3.1 and CWN-3.2 sign cabinets, and CWS-3.1 snap frames, See Section B2.
**SECTION B4**

**Wall Mount Structures for Sign Cabinets / Frames**

**SWM-4 Sign Structure**

**Description**

**General**

The SWM-4 sign structure is wall mounted and fabricated from stainless steel. Various CWN sign cabinets and CWS snap frames can be mounted to the SWM-4 sign structure.

**Stainless Steel Face and Returns**

The face and returns of the SWM-4 shall be fabricated from stainless steel and shall have a horizontal brushed finish. The face and returns shall be rigid, smooth, and flat. The face shall be removable and shall be securely held in position by concealed, vandal-resistant hardware. No hardware shall be visible on the face of the SWM-4 sign structure. The face of the SWM-4 sign structure shall have minimal seams. Indicate the location of any seams on the Shop Drawings.

**Sign Cabinets / Frames Mounted to the Face of the SWM-4 Sign Structure**

Various CWN sign cabinets, or CWS snap frames, shall be properly, safely, and securely mounted to the face of the SWM-4 sign structure with concealed vandal-resistant hardware. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets or frames for maintenance, repairs, and updates. Coordinate the fabrication of the sign structure with the components to be mounted to the structure.

**Wall Surface**

The SWM-4 sign structure shall be mounted to a variety of wall surfaces. Prior to fabrication, verify on site the existing wall materials, construction, and conditions. Verify if any additional structural elements, bracing, or other materials are needed to properly, safely, and securely mount the SWM-4 sign structure.

**Determine SWM-4 Width**

The SWM-4 sign structure shall be configured as needed to accommodate two or more CWN sign cabinets or CWS snap frames. The sign cabinets or snap frames shall be positioned and spaced on the sign structure as shown. The Contractor shall determine the final sign structure width for each SWM-4 location based on the quantity and type of sign cabinets or snap frames specified or required.

**Associated Sign Cabinet / Frame Information:**

The following sign cabinets / frames can be mounted to the SWM-4 Sign Structure:

- CWN-3.1, CWN-3.2, CWN-6 and CWN-7 sign cabinets, and CWS-3.1, CWS-6, and CWS-7 snap frames, see Section B2.
**Description**

**General**
The SWM sign structures are wall mounted and fabricated from stainless steel. Various CWN sign cabinets and CWS snap frames can be mounted to the faces of the SWM sign structures.

1. **Wall Surface**
The SWM sign structures shall be mounted to a variety of wall surfaces. Prior to fabrication, verify on site the existing wall materials, construction, and conditions. Verify if any additional structural elements, bracing, or other materials may be needed to properly, safely, and securely mount the SWM sign structures.

2. **Stainless Steel Face and Returns**
The faces and returns of the SWM sign structures shall be fabricated from stainless steel.

3. **Sign Cabinets / Frames Mounted to the Face of the SWM-3 Sign Structure**
Various CWN sign cabinets and CWS snap frames shall be safely, properly, and securely mounted to the faces of the SWM sign structures. All mounting hardware and components shall be suitable for exterior use. The mounting hardware shall allow for removal of the mounted sign cabinets and frames for maintenance, repairs, and updates.

4. **Concealed Wall Mounting**
Provide all mounting hardware and materials as needed to safely, properly, and securely mount the SWM sign structures to various wall surfaces. In addition to the SWM sign structures and the required mounting hardware, provide any additional structural elements, bracing, or other materials that may be needed to properly, safely, and securely support the sign structures and all the sign components mounted to the sign structures. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. Mounting hardware shall not be visible.

5. **Concealed Internal Framing**
Provide internal framing and bracing as needed for the SWM sign structures to be rigid and structurally sound and for the SWM sign structures to be properly, safely, and securely mounted to various wall surfaces. The internal framing shall also properly, safely, and securely support any sign components which are mounted to the SWM sign structures.

See page B4.7 for additional information.
### Description

#### General
SWM sign structures include cut out metal letters and a milled aluminum symbol panel with a stainless steel insert attached directly to the structure.

#### Cut Out Letters
1/4" thick letters water jet cut from plate stainless steel. Letters shall have a painted finish. Letters shall be permanently pin mounted to the sign structure.

#### Milled Aluminum Symbol Panel With Stainless Steel Insert
1/4" thick milled aluminum symbol panel with 1/8" thick raised symbol and border. The aluminum panel shall have painted finish (all surfaces) and shall be permanently pin mounted to the sign structure. Symbol background shall be a cut-out 16 gauge stainless steel insert with a horizontal brushed finish. Stainless steel shall be precisely cut-out to fit within the aluminum panel and around the raised symbol.

#### Associated Sign Structures:
SWM-3 See page B4.4 for additional information. SWM-4 See page B4.5 for additional information.
SECTION B4
Wall Mount Structures for Sign Cabinets / Frames

Cut Out Letters Section

1. **Detail Section - Cut Out Letters Mounted to SWM Sign Structures**
   Scale: 1/2" = 1"

Associated Sign Structures:
SWM-3. See page B4.4 for additional information.
SWM-4. See page B4.5 for additional information.

### Description

**General**

SWM sign structures include cut out metal letters and an etched symbol panel attached directly to the structure.

**1. SWM Sign Structure**

Coordinate the construction of the SWM sign structures so that the pin mounted cut out letters and etched symbol panel can be properly, safely, securely, and permanently mounted to the face of the structure.

**2. Stainless Steel Mounting Pins**

Provide threaded stainless steel mounting pins as needed to properly, safely, securely, and permanently mount the cut out letters and etched symbol panel. Coordinate the quantity, size, and length of the pins with the size and weight of the letters and symbol panel and the construction of SWM sign structure. Properly, safely, securely, and permanently secure the pins to the backs of the letters and symbol panel.

**3. Stainless Steel Lock Nuts**

Provide the appropriate stainless steel lock nuts as needed to work with the mounting pins to properly, safely, securely, and permanently secure the cut out letters and etched symbol panel.

**4. VHB Tape and Silicone Adhesive**

Cut out letters and symbol panel shall be adhered in position using high strength VHB tape and silicone adhesive. Carefully apply the tape and adhesive to the backs of the letters and symbol panel. Tape and adhesive shall not be visible when the letters and symbol panel are in position. Provide tape and adhesive as needed to properly, safely, securely, and permanently secure the cut out letters and symbol panel to the sign structures. Use tape and adhesive suitable for exterior locations.

**5. Letters and Milled Aluminum Symbol Panel with Stainless Steel Insert**

1/4" thick water jet cut stainless steel letters and 1/4" thick milled aluminum symbol with cut-out 16 gauge stainless steel insert.
**Description**

**General**
Part C general reference.
**Description**

**General**

Section C1 General Reference.
SIGN TYPE BS
Bus Stop Sign

The Bus Stop signs include route numbers and descriptions.

Description

General
The BS series sign types identify bus stops and provide bus route information.
**Description**

**General**
The BS series sign types are available in two sizes.

---

**Sign Size Summary and Mounting Hole Placement**

<table>
<thead>
<tr>
<th>Sign Type BS-1</th>
<th>Sign Type BS-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1'-6&quot; x 2'-0&quot;</td>
<td>1'-6&quot; x 2'-6&quot;</td>
</tr>
</tbody>
</table>

---

**EXHIBIT D**

**SECTION C1**

**Bus Stop Signs**

**Date:** 08.29.14  
**Revised:** 07.22.16
** SECTION C1  
**Bus Stop Signs**

**Sign Type BS-1, BS-2  
General Information**

**Description**

**General**
Sign types BS-1 and BS-2 are double sided panels that identify bus stops and provide bus route numbers and information. The information displayed on each BS sign will be unique. The messages shown are for reference only. Digital art for sign type BS may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing BS signs as precedents for layout. Digital template files, base art files for the header and footer graphics, and bus schedule information shall be supplied by the RTA. All new BS graphics must be reviewed and accepted by the RTA prior to production of the final signs. See the Technical Specifications for additional information. See page C1.5 for Design and Layout Notes.

**Aluminum Sign Panel**
The sign substrate is a .080" thick solid aluminum panel.

**Reflective Background**
The overall background of the sign and the white text and graphics shall be printable white 3M Engineer Grade Reflective Sheeting or an equal reflective film accepted by the RTA.

**Digitally Printed Graphics**
The digitally printed graphics shall be printed directly onto the reflective sheeting using custom formulated, exterior-grade inks. Colors shall be transparent, black shall be opaque. The inks shall be formulated to match the colors specified, be compatible with the reflective sheeting, preserve the sheeting reflectivity, and be UV-resistant.

**Clear Overlaminate**
Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the reflective sheeting and all the graphics. The clear protective layer shall be trimmed flush with the edges of the sign and shall be compatible with the graphics and the materials to which it is applied.

**Holes for Mounting Hardware**
Coordinate the location and size of mounting holes with the mounting hardware to be used with the sign. All holes shall be drilled in the shop.

**Mounting Brackets/Hardware**
See Section C4 for information on the mounting brackets and hardware to be used with the BS series sign types.

**Sign Post and Sign Mounting Information:**
For locations where BS series signs are mounted to new sign posts, see Section C4 for information on the posts and the sign mounting brackets and hardware.
SECTION C1
Bus Stop Signs

Sign Type BS-1, BS-2

Design and Layout Notes

Description

General Design and Layout Information – BS Signs
- Digital art for new BS signs shall be prepared using Adobe Illustrator.
- Headers and footers for all BS signs have a standard layout. The information shown in the headers and footers does not vary.
- Large CTA and Pace logos are 4 1/2" high. Logos are centered in area above the route listings. If both CTA and Pace bus routes serve the stop, then both logos appear centered in the band, spaced 2 5/8" apart.
- Bus route numbers are aligned to the right. Bus routes are presented in numerical order.
- CTA and Pace logos appear to the right of the bus route numbers. The tops of the logos align with the top of the typography.
- Bus route names and destination appear to the right of the logos. Text describing the bus route destination appears below the bus route name. Route names appear in Bold and route destinations appear in Roman.
- Route names and route destination descriptions should be as consistent as possible with the destination descriptions provided in Pace and CTA printed schedules. If route names or destination descriptions need to be edited in order to fit on the sign, the edited description should match the printed description as closely as possible.
- A 1" margin on either side of the sign panel should be kept clear of route numbers and route description text in order to prevent the numbers or text from being obscured by the panel mounting brackets. If it is absolutely necessary for numbers or text to run into the 1" margin, verify that the numbers or text will not be obscured by the mounting brackets.
- At bus stop locations that serve a large number of bus routes, an additional bus stop sign may need to be added in order to display all of the bus routes. The same information shall appear on both sides of the sign.
- Select the smallest sign required to display the bus routes. If the routes do fit on sign type BS-1, use sign type BS-2. If the routes do not fit on BS-2, a second BS-2 panel shall be added. At locations where more than one bus stop sign are required, all the signs shall be the same size. Typography and symbol sizes and styles for new BS signs shall match typography and symbols on existing BS signs.
### SECTION C1
### Bus Stop Signs

**Bracket Hole**

**Mounting Placement**

---

**Description**

**General**

Sign types BS-1 and BS-2 are double sided panels that identify bus stops and provide bus route numbers and information. The information displayed on each BS sign will be unique.

The messages shown are for reference only.

---

**Elevation - Sign Type BS-1**

Scale: $1\frac{1}{2}'' = 1'-0''$

**Elevation - Sign Type BS-2**

Scale: $1\frac{1}{2}'' = 1'-0''$

---

**RTA Travel Information:**

**www.RTAChicago.org**

Phone: 312.836.7000
**Description**

**General**

Section C2 General Reference.
SECTION C2
Bus Boarding Signs

Sign Type Overview

**Sign Type BB**
Bus Boarding Sign

The Bus Boarding sign identifies the bus boarding areas for a particular location.

**Description**

**General**

Sign type BB identifies the bus boarding areas for a particular location.
**Description**

**General**

Sign type BB is available in one size.
SECTION C2
Bus Boarding Signs

Sign Type BB

1 Elevation - Sign Type BB
Scale: 3" = 1'-0"

Sign Post and Sign Mounting Information:
For locations where BB series signs are mounted to new
sign posts, see Section C4 for information on the posts
and the sign mounting brackets and hardware.

For locations where BB series signs are mounted to existing
sign posts or other existing structures, see Section C4 for
information on the sign mounting brackets and hardware.

Description

General
Sign type BB are aluminum, double sided
panels that identify bus boarding areas. The
messages shown are for reference only. See the
Message Schedule for the actual content
scheduled for each sign type BB location.
Digital art for sign type BB may be provided by
the RTA. When directed to do so by the RTA,
develop the required graphics using Adobe
Illustrator. Symbol art shall be provided by the
RTA.

1 Aluminum Sign Panel
The sign substrate is a .080" thick solid
aluminum panel.

2 Mounting Brackets
See Section C4 for information on the mounting
brackets for BB series sign types.

3 Reflective Background
The overall background of the sign and the
white text and graphics shall be printable white
3M Engineer Grade Reflective Sheeting or an
equal reflective film accepted by the RTA.

4 Digitally Printed Graphics
The digitally printed graphics shall be printed
directly onto the reflective sheeting using
custom formulated transparent inks. The inks
shall be formulated to match the colors
specified, be compatible with the reflective
sheeting, preserve the sheeting reflectivity, and
be UV-resistant.

5 Clear Overlaminate
Apply an exterior grade, UV and graffiti
resistant, clear protective layer over the
reflective sheeting and all the graphics. The
clear protective layer shall be trimmed flush
with the edges of the sign and shall be
compatible with the graphics and the materials

6 Holes for Mounting Hardware
Coordinate the location and size of mounting
holes with the type of bracket or other mounting
hardware to be used with the sign. All holes are
to be drilled in the shop.
**SECTION C3**

**Bus Area & Bus Times**

**Products**

**Section Introduction**

---

**Description**

**General**

Section C3 General Reference.
SECTION C3
Bus Area & Bus Times
Products

Sign Type BA & BT,
CPN Sign Cabinet
Product Overview

**Sign Type BA**
Boarding Area Graphic

The Boarding Area graphic directs to the bus boarding areas for a particular location.

**Sign Type BT**
Bus Times Graphic

The Bus Times graphic shows bus route and schedule information at a particular boarding area.

**CPN Series Cabinet**
Bus Area / Bus Times graphic Display

The CPN sign cabinet houses the BA and BT printed products.

**Description**

**General**
The BA and BT sign types provide information on bus boarding areas as well as bus route and schedule information. The BA and BT sign types are mounted in the CPN series sign cabinets.
## Section C3
### Bus Area & Bus Times

#### Products

**Sign Type BA, BT**

**CPN Sign Cabinet**

**Size Summary**

---

### Description

**General**

The BA and BT sign types, as well as the CPN sign cabinets are available in two sizes.

#### Table

<table>
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<th>Sign Type BA-1</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>3'-5 1/2&quot; V.O. (3'-6 1/2&quot; Print Size)</td>
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</tbody>
</table>

<table>
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<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>2'-3&quot; V.O. (2'-4&quot; Print Size)</td>
<td>3'-5 1/2&quot; V.O. (3'-6 1/2&quot; Print Size)</td>
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<th>Height</th>
</tr>
</thead>
<tbody>
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<td>3'-5 1/2&quot; V.O. (3'-6 1/2&quot; Print Size)</td>
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<tbody>
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<td>3'-5 1/2&quot; V.O. (3'-6 1/2&quot; Print Size)</td>
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</tbody>
</table>

<table>
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<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3'-7 3/8&quot;</td>
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</tbody>
</table>

<table>
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<tr>
<th>CPN-2 Sign Cabinet</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9 1/2&quot;</td>
<td>3'-7 3/8&quot;</td>
</tr>
</tbody>
</table>
SECTION C3
Bus Area & Bus Times
Products

Header and Footer Summary

1. **Elevation - Header for Sign Type BA**
   - Scale: 1/2" = 1" 

2. **Elevation - Header for Sign Type BT**
   - Scale: 1/2" = 1" 

3. **Elevation - Footer for Sign Types BA and BT**
   - Scale: 1/2" = 1" 

**Description**

- **Typical Information Product header and footer layouts for the following products:**
  - BA  Boarding Area
  - BT  Bus Times

- **Digital art for sign types BA and BT may be provided by the RTA. If directed to do so by the RTA, develop the final art for the required site-specific graphics using digital template files for the sign type BA and BT headers, and base art files for the sign type BA and BT footers provided by the RTA. All new BA and BT graphics must be reviewed and accepted by the RTA prior to production of the final signs.**
SECTION C3
Bus Area & Bus Times
Products

Footer Logo Proportions

Proportions of Logos in Footer Graphics
Scale: N.T.S.

1

Description

General
When they appear in the footers of interagency signs and graphics, the RTA and service board logos shall be sized as shown in this Manual. Shown are the proportions for sizing and placing the RTA and interagency logos when they appear in the footers of the following sign types:

BA, Boarding Area
BT, Bus Times

For similar interagency graphics that include the RTA and service board logos that are not currently covered by this manual, the RTA and service board logos shall typically be sized per the proportions indicated.

Pre-production proofs, or similar pre-production review graphics, of all interagency signs and graphics shall be provided for review by the RTA prior to final production of any signs or graphics.
SECTION C3

Bus Area & Bus Times

Products

Boarding Area Graphic

Sign Type BA

General Information

1 Elevation - Sign Type BA-1

Scale: 1" = 1'-0"

Associated Sign Cabinet Information:
Sign type BA is mounted using a type CPN sign cabinet. See page C3.10 for additional information.

Description

General
Sign type BA provides information on the location of bus boarding areas. Sign type BA signs are mounted at bus stop locations. Sign type BA content will vary with location. See page C3.7 for Design and Layout Notes.

1 Bus Boarding Area Directional Graphic

Sign type BA graphics shall be digitally printed at high resolution using UV-resistant inks directly onto a substrate to be specified by the RTA. The graphics shown are for reference only.

Final content for each sign type BA shall vary with location. Typical content shall include a simplified map of the area surrounding the facility, directions to bus boarding areas, and identification of the bus routes that can be accessed at each boarding area. The sign type BA map shall include the location and type of transportation options available, bus boarding areas, pick-up and drop-off locations, and nearby parking. Digital art for sign type BA may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing BA signs as precedents for content, layout, and color.

Examples of existing BA signs, digital template files for the sign type BA graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new sign type BA graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) sizes for sign types BA-1 and BA-2 are shown. Coordinate the BA-1 and the BA-2 graphics and the overall panel sizes with the sign cabinets.
SECTION C3
Bus Area & Bus Times
Products

Boarding Area Graphic
Sign Type BA

Design and Layout Notes

**General Design and Layout Information – BA Signs**

- Each sign type BA typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.

- Headers and footers for all BA signs have standard layouts. The header includes the overall location name or location description for the bus boarding area and will change at different sites. The footer information does not vary.

- Boarding area map artwork is approximately 7 3/4” x 8 7/8”, centered horizontally and vertically in white area below the header. North is at the top of the diagram. Map graphics vary with location.

- Boarding area maps include the facility listed in the header and the area immediately around the facility. Information shown on the maps includes the transit modes at the location, bus boarding areas (with route numbers), drop-off locations, entrances, and accessibility information like ramps and elevators. Maps also include streets and parking facilities. Map graphics vary with location.

- Typically, the map graphics on the ID, MN, and BA signs at a given interagency location or facility shall use the same Illustrator base map. Sign type-specific layers shall be added to each base map as needed to meet the specific content requirements of each sign type.

- BA direction information shall be as per the map color palette shown in Section A2 and as per the existing BA maps.

- Street name and building label typography on the maps should be aligned and organized as much as possible. Typography and symbol sizes and styles for new BA signs shall match typography and symbols on existing BA signs.

- Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing BA maps.

- Below the map, directional information to bus boarding areas is provided. Included are the bus boarding area symbols and associated bus route numbers. Route descriptions or names are typically not shown but may be provided if required for clarity. BA directional information will vary with location.

**Elevation - Sign Type BA-1**

**Scale: 1" = 1'-0"**

**Elevation - Sign Type BA-2**

**Scale: 1" = 1'-0"**

Description

The transit modes at the location, bus boarding areas (with route numbers), drop-off locations, entrances, and accessibility information like ramps and elevators. Maps also include streets and parking facilities. Map graphics vary with location.

Typography and symbol sizes and styles for new BA signs shall match typography and symbols on existing BA signs.

Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing BA maps.

Street name and building label typography on the maps should be aligned and organized as much as possible. Typography and symbol sizes and styles for new BA signs shall match typography and symbols on existing BA signs.

Below the map, directional information to bus boarding areas is provided. Included are the bus boarding area symbols and associated bus route numbers. Route descriptions or names are typically not shown but may be provided if required for clarity. BA directional information will vary with location.
Elevation - Sign Type BT-1
Scale: 1" = 1'-0"

Elevation - Sign Type BT-2
Scale: 1" = 1'-0"

Associated Sign Cabinet Information:
Sign type BT is mounted using a type CPN sign cabinet. See page C3.10 for additional information.

### General
Sign type BT provides bus schedule information and schematic diagrams of bus routes at bus stops. Typically scheduled bus times should be used on information products. When headway time is less than 15 minutes, the RTA may select to show headway intervals. Sign type BT content will vary with location. See page C3.9 for Design and Layout Notes.

### Bus Boarding Area Directional Graphic
Sign type BA graphics shall be digitally printed at high resolution using UV-resistant inks directly onto a substrate to be specified by the RTA. The graphics shown are for reference only.

Final content for each sign type BT shall vary with location. Typical content may include, but shall not be limited to, a schematic representation of the applicable bus routes showing route numbers, stops, estimated travel times, and bus schedules for each bus route. Digital art for sign type BT may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing sign type BT signs as precedents for content, layout, and color. Bus schedule information shall be provided by the RTA.

Sign type BT shows bus routes as schematic lines that originate from a single location. The route diagram is not to scale. Examples of existing sign type BT signs, digital template files for sign type BT graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new sign type BT graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) sizes for sign types BT-1 and BT-2 are shown. Coordinate the BT-1 and the BT-2 graphics and the overall panel sizes with the sign cabinets.
SECTION C3
Bus Area & Bus Times
Products

Bus Times Graphic
Sign Type BT

Design and Layout Notes

General Design and Layout Information – BT Signs

- Each sign type BT typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Header and footers for all BT signs have standard layouts. The header includes the overall location name or location description for the bus boarding area and the boarding area letter symbol. The header content will change at different sites. The footer information does not vary.
- A blue band below the header establishes the origin point for the bus route diagram. The bus route numbers are listed in the band, in order. Each route is assigned a color. Routes are presented schematically using line diagrams. The route diagrams are not to scale, and show bus routes as lines.
- Time point stops, approximate travel times, and transfer locations/shared stops are indicated along the schematic route lines. Transfer locations are identified using symbols. Route termini are also indicated.
- Information on CTA and Pace bus tracker services is located in a band below the bus route diagram.
- Bus timetables are shown below the route diagram and the bus tracker band. The timetables indicate departure times from the boarding area at the BT location.
- When developing art for BT signs, schedule information shall be provided by the RTA in XML format. Bus timetables are individual InDesign files that are linked into the BT master file. Import the schedule information into formatted InDesign timetable files provided by the RTA.
- Timetables are headed and separated by color bands that correspond to the colors used for the bus routes shown on the route diagram. Below the color bands are the bus route numbers, the service logo, the route name and description, and the boarding area. On the timetables, AM bus times are shown in Roman, PM bus times are shown in Bold. The PM bus times also have a shaded background using a 30% tint of the bus route color.
- A key with additional information is placed at the bottom of the BT sign panel, above the footer.
- New BT graphics shall be developed using existing examples as precedents for layout, color, and content. Typography and symbol sizes and styles for new BT signs shall match typography and symbols on existing BT signs.

Elevation - Sign Type BT-1
Scale: 1" = 1'-0"

Elevation - Sign Type BT-2
Scale: 1" = 1'-0"
SECTION C3: Bus Area & Bus Times

**Products**

**CPN Sign Cabinets
Mounting Configuration**

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**Description**

**General**

The CMBP type bracket is a custom fabricated aluminum bracket that supports type CPN sign cabinets. CMBP type brackets can be mounted to new or existing sign posts or similar existing structures.

CPN series sign cabinets are fabricated from aluminum and are used to display sign type BA and BT graphics. When more than one CPN series cabinet is used at one location, the size of all the cabinets at the location shall match. CPN sign cabinets mount to new or existing sign posts using CMBP type brackets.

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**Schematic Elevation - CPN Sign Cabinet and CMBP Type Bracket Configurations**

Scale: N.T.S.

Associated Mounting Hardware Information:
The CMBP sign bracket is used to support CPN sign cabinets. See page C3.12 for information on the CMBP type brackets. See page C3.11 for information on CPN sign cabinets.

Associated Information Graphics:
The following graphic products are used with the CPN sign cabinet: Sign Type BA-1 and BA-2 - See page C3.6 Sign Type BT-1 and BT-2 - See page C3.8
SECTION C3
Bus Area & Bus Times

Products

CPN Sign Cabinet

Associated Mounting Hardware Information:
The CMBP type bracket is used to support CPN sign cabinets. See page C3.12 for information on the CMBP type brackets. See page C3.10 for more information on CPN sign cabinets.

Associated Information Graphics:
The following graphic products are used with the CPN sign cabinet:
Sign Type BA-1 and BA-2 - See page C3.6
Sign Type BT-1 and BT-2 - See page C3.8

Description

General
CPN series sign cabinets are fabricated from aluminum and are used to display sign type BA and BT graphics. CPN sign cabinets are mounted to sign posts using CMBP type brackets.

1 Aluminum Sign Cabinet
The CPN sign cabinet shall be fabricated from aluminum with a painted finish. The cabinet shall be very durable and vandal resistant. Provide mounting holes as required to coordinate with the CMBP type bracket. Provide weep holes as required.

2 Internal Framing
Provide internal framing and bracing as needed for the cabinet to be rigid and structurally sound and to safely, securely, and properly support and mount the cabinet. Provide framing to keep the graphics inside the cabinet flat and properly positioned. Provide access to the back of the cabinet and the cabinet mounting hardware.

3 Graphics Support/Holder
Provide durable, exterior grade materials as needed to securely and accurately hold the BA or BT graphics in the proper viewing position. The graphics support/holder and the graphics shall be easily removable for maintenance.

4 Access to the CPN Interior
The top and bottom sections of the cabinet shall be removable to provide access to the interior of the cabinet for maintenance and to change graphics. The openings in the cabinet must be weather tight when closed. The removable sections must be secured to the cabinet with vandal-resistant hardware. The hardware shall have retaining washers, or similar, so that the hardware can not be lost when the section is removed. No hardware shall be visible on the CPN face and all hardware and fasteners must be suitable for use in exterior locations.

5 Polycarbonate Window
Provide a precisely cut opening in the face of the CPN cabinet. The opening shall be backed up by a clear, scratch resistant polycarbonate window. The mounting for the polycarbonate shall allow the polycarbonate to be easily removed and replaced for maintenance.

6 Mounting Hardware
Coordinate with the CMBP type bracket to provide all required mounting hardware.
**SECTION C3**  
**Bus Area & Bus Times**  
**Products**

**CMBP Sign Bracket**

**Description**

**General**

The CMBP type bracket is a custom fabricated aluminum bracket that supports type CPN sign cabinets. CMBP type brackets can be mounted to new or existing sign posts or similar existing structures.

**Sign Post**

Verify if a new sign post or if an existing sign post is to be used. For new sign posts, see Section C4 for additional information. For existing sign posts or other existing structures, verify on site the existing sign post/structure size, configuration, and materials. Verify that the existing sign post or structure can safely, properly, and securely support the CMBP/CPN assembly.

**CPN Sign Cabinet**

CPN sign cabinets shall be safely, securely, and properly mounted to the CMBP bracket with concealed, heavy duty, exterior grade hardware. The hardware shall allow the CPN cabinets to be removed for repairs.

**Fabricated Aluminum Bracket**

Provide custom fabricated, painted aluminum CMBP type brackets. Coordinate the bracket size and configuration with the size and quantity of CPN sign cabinets to be mounted, with the CPN cabinet mounting hardware, and with the sign post that shall support the entire assembly. The CMBP type bracket shall be configured and fabricated to safely, securely, and properly support one, two, or three CPN sign cabinets. The bracket shall be vandal resistant. The bracket shall be closed on the top, bottom, and sides. Provide weep holes as required. The interior of the bracket shall be accessed by removing the CPN cabinets.

**Framing and Bracing**

Provide internal framing and bracing as needed for the CMBP type bracket to be durable, rigid, and structurally sound and for it to safely, properly, and securely support the CPN sign cabinets which shall be mounted to it.

**Mounting Bolts/Mounting hardware**

Provide all mounting hardware and materials as needed to safely, properly, and securely assemble and mount the complete CMBP/CPN assembly. Coordinate the CMBP mounting hardware with the sign post at each installation location. All mounting hardware and components shall be heavy duty, vandal-resistant and suitable for exterior use.
SECTION C3
Bus Area & Bus Times
Products

Typical Mounting Positions for BA and BT Sign Types

Description

Typical Mounting Positions for BA and BT Sign Types
Locations for BA and BT sign types must be determined on a case-by-case basis.

When establishing BA and BT locations, factors including, but not limited to, the existing conditions, the location of the sign post the BA and BT signs will be mounted to, and the information to be displayed on the signs must be carefully considered. BA and BT signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign.

Generally, BT signs shall be mounted facing the sidewalk, parallel to the curb. When BA and BT signs appear together, the BA signs should be mounted perpendicular to the curb. At locations with a large number of buses, two BT signs may be required. Do not mount signs facing the street or on the street side of sign posts.

Each potential location should be carefully examined before signs are specified to confirm what types of signs would be most appropriate and to confirm that there is an appropriate place for each of the signs to be safely installed.

Typical Mounting Position for BA and BT Signs: Locations With More Than One Sign
Scale: NTS

Typical Mounting Position for BA and BT Signs: Locations With One BA or BT Sign
Scale: NTS
SECTION C4
Posts & Mounting Hardware

Section Introduction

Description

General
Section C4 general reference.
**Description**

**General**

The sign posts and mounting hardware consist of the SRSP sign post, the SRSE sign post extension, the CMFB or CMFS type mounting brackets, the SMCB sign base, and the SMDB post mounting.
SECTION C4
Posts & Mounting Hardware
SRSP-2 Sign Post Mounting Heights

Description

General
Sign Post type SRSP is similar to CTA Item Numbers 2100012, 2100013, 2100014, 2100015, 2100021, and 2100022 or equal steel sign posts accepted by RTA. See page E1.4 of the Appendix for additional information.

SRSP-2 sign posts have custom located and sized mounting holes and custom sign post lengths. SRSP-2 sign posts are typically mounted using SMCB sign bases.

See the Technical Specifications for additional information and requirements.
**Description**

**General**

Sign Post type SRSP is similar to CTA Item Numbers 2100012, 2100013, 2100014, 2100015, 2100021, and 2100022 or equal steel sign posts accepted by RTA. See page E1.4 of the Appendix for additional information.

SRSP-5 sign posts have custom located and sized mounting holes and custom sign post lengths. SRSP-5 sign posts are typically mounted using the SMDB post mounting.

See the Technical Specifications for additional information and requirements.
SECTION C4
Posts & Mounting Hardware

SRSP-2 Sign Post
Post Length and Hole Locations

**1. Elevation - SRSP-2 Sign Post Length and Hole Locations**
Scale: 1" = 1'-0"

**Description**

**General**
SRSP-2 sign posts shall have holes pre-punched or pre-drilled to accept sign mounting bracket hardware. The holes shall be placed as shown so that sign types BS and DSS can all be mounted using CMFB brackets without needing to drill additional holes in the post.
SECTION C4
Posts & Mounting Hardware

SRSP-5 Sign Post
Post Length and Hole Locations

1 Elevation - SRSP-5 Sign Post Length and Hole Locations
Scale: 1" = 1'-0"

Description

General
SRSP-5 sign posts shall have holes pre-punched or pre-drilled to accept sign mounting bracket hardware. The holes shall be placed as shown so that sign types BS and DSS can all be mounted using CMFB brackets without needing to drill additional holes in the post.
SECTION C4
Posts & Mounting Hardware

SRSE-1 Sign Post Extension

Description

General
The SRSE-1 sign post extension is installed at the top of the SRSP-2 or SRSP-5 sign post to allow the mounting of the sign type BB blade.

1. Sign Post Extension
2 3/8" O.D. sign post extension. Materials and finishes used on the extension shall match the materials and finishes used on the SRSP sign posts. The SRSE-1 extension shall precisely fit into the top of any SRSP sign post. The extension shall be securely bolted into position and shall safely, securely, and properly support sign panels and related mounting hardware.

2. Insert Stub
2 1/16" O.D. insert stub. The insert stub shall be securely and precisely welded to the post extension. The stub and the post extension shall align precisely. The stub shall fit precisely into the end of any SRSP sign post. Materials and finishes used on the stub shall match the materials and finishes used on the SRSP sign posts.

3. Sign Mounting Bolt Holes
3/8" diameter sign mounting bolt holes. 2 holes at 180 degrees to accept sign mounting hardware. Sign mounting bolt holes shall align with one set of bolt holes in the insert stub.

4. Extension Mounting Bolt Holes
3/8" diameter bolt holes. 2 sets of 2 holes at 90 degrees. Align one set of holes with the 3/8" diameter sign mounting bolt holes.

5. Sign Panel

6. Sign Mounting Hardware
Bolts for sign mounting brackets secure extension in position.

See the Technical Specifications for additional information and requirements.
### Possible Sign Panel Mounting Configurations

**General**

Shown are possible configurations for mounting signs to SRSP sign posts. Groups of sign panels may be mounted in up to four directions on a single post.

Signs shall be mounted so that consistent mounting heights are maintained for signs of the same type mounted to the same sign post.

Where more than one sign panel is mounted to a post, the brackets shall be strap mounted, and the top of the sign panels shall be aligned with each other.

**Schematic Elevations - Possible Sign Panel Configurations on SRSP Sign Posts**

- **1 Panel**
- **2 Panels, 90°**
- **2 Panels, 180°**
- **3 Panels**
- **4 Panels**

Scale: NTS
**SECTION C4**

**Posts & Mounting Hardware**

**Typical Locations for Signs and Posts**

**Description**

**Typical Locations for SRSP Sign Posts**

Locations for SRSP sign posts must be determined on a case-by-case basis.

When establishing SRSP sign post locations, factors including, but not limited to, the existing conditions and the information included on the signs to be mounted to the SRSP sign posts must be carefully considered.

Generally, interagency signs must be visible to pedestrians but they must also be located so that they do not create situations where information that may be confusing or inappropriate is visible to motorists or cyclists. Signs and sign posts must be located so that they do not block any traffic control signs or other traffic control devices. Signs must be placed so that they are not distracting or confusing to motorists or cyclists. Signs and sign posts must not create blind spots or any other visibility hazards for motorists, pedestrians, and cyclists.

Signs must be also positioned so that they are not hazardous to pedestrians. Signs should not be located in the middle of pedestrian walkways. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign.

Depending on the existing conditions, it may be appropriate to align new signs and sign posts with existing signs, streetlights, planters, or other existing items. Each potential location should be carefully examined before signs are specified to confirm what types of signs would be most appropriate and to confirm that there is an appropriate place for each of the signs to be safely installed.
**General**
The CMFB type bracket is CTA Item No. 2100361 or an equal custom cast aluminum bracket accepted by the RTA. The CMFB type bracket is bolt mounted to sign posts. See the Technical Specifications and page E1.2 of the Appendix for additional information.

The photos shown are for general reference only.

1. **Sign Post**
Verify if the location shall have a new sign post or if an existing sign post is to be used. For existing sign posts, verify on site the sign post size, height, configuration, and material. Verify if the existing sign post can properly accept the sign panel planned for the location and the required CMFB type brackets.

2. **CMFB Bracket**
The CMFB bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFB brackets shall be bolt mounted to sign posts. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels and mounting brackets for maintenance, repairs, and updates.

3. **Aluminum Sign Panel**
The CMFB type bracket securely flag mounts aluminum sign panels, including sign types BB, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFB brackets at each sign location.

4. **Mounting Bolts/Hardware**
Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFB bracket and the bracket/aluminum sign panel assemblies to the sign post. The CMFB bracket shall be safely, properly, and securely bolt mounted to the sign post. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

**Associated Sign Types:**
The following sign types can be mounted using the CMFB type bracket:
- Sign Type BB - See Section C2
- Sign Type BS - See Section C1
- Sign Type DSS - See Section D3
**Elevation View - CMFS**

**Scale:** NTS

**Associated Sign Types:**
The following sign types can be mounted using the CMFS type bracket:
- Sign Type BB - See Section C2
- Sign Type BS - See Section C1
- Sign Type DSS - See Section D3

**Description**

**General**
The CMFS type bracket is CTA Item No. 2100361 or an equal custom cast aluminum bracket accepted by the RTA. The CMFS type bracket is strap mounted to sign posts. See the Technical Specifications and page E1.2 of the Appendix for additional information.

The photo shown is for general reference only.

**1 Sign Post**
Verify if the location shall have a new sign post or if an existing sign post or other existing structure is to be used. For existing sign posts and structures, verify on site the sign post or structure size, height, configuration, and material. Verify if the existing sign post or other existing structure can properly accept the sign panels planned for the location and the required CMFS type brackets.

**2 CMFS Bracket**
The CMFS type bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFS brackets shall be mounted using stainless steel straps. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts and structures. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels and mounting brackets for maintenance, repairs, and updates.

**3 Aluminum Sign Panel**
The CMFS type bracket securely flag mounts aluminum sign panels including, sign types BB, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post or structure that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFS brackets at each sign location.

**4 Mounting Bolts/Hardware**
Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFS bracket and the bracket/aluminum sign panel assemblies to the sign post or structure. The CMFS bracket shall be safely, properly, and securely strap mounted to the sign post or structure using heavy duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.
SECTION C4
Posts & Mounting Hardware

CMFS Type Bracket on SRSP Post

Plan View - CMFS

1 SRSP Sign Post
2 CMFS Bracket
3 Aluminum Sign Panel
4 Positioning Bolt

Description

General
The CMFS type bracket is CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFS type bracket is strap mounted to sign posts. See the Technical Specifications and page E12 of the Appendix for additional information.

Associated Sign Types:
The following sign types can be mounted using the CMFS type bracket:
- Sign Type BB - See Section C2
- Sign Type BS - See Section C1
- Sign Type DSS - See Section D3

1. SRSP Sign Post

2. CMFS Bracket
The CMFS type bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFS brackets shall be mounted using stainless steel straps. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts and structures. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels and mounting brackets for maintenance, repairs, and updates.

3. Aluminum Sign Panel
The CMFS type bracket securely flag mounts aluminum sign panels including sign types BB, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFS brackets at each sign location.

4. Positioning Bolt
At locations where CMFS brackets are used to mount multiple signs to a single SRSP sign post, provide stainless steel positioning bolts. The positioning bolts pass through the CMFS bracket into one of the predrilled holes in the SRSP post and are held in place by the stainless steel mounting straps. The bolts prevent the sign panels from spinning on the post.

5. Mounting Hardware
Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFS bracket and the bracket/aluminum sign panel assemblies to the sign post. The CMFS bracket shall be safely, properly, and securely strap mounted to the sign post using heavy duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.
**General**

The CMCS type bracket is a standard type of stainless steel sign mounting bracket. Mounting type CMCS is strap mounted to sign posts.

1. **Sign Post**

Verify if the location shall have a new sign post or if an existing sign post or other existing structure is to be used. For existing sign posts and structures, verify on site the sign post or structure size, height, configuration, and material. Verify if the existing sign post or other existing structure can properly accept the sign panels planned for the location and the required CMCS type brackets.

2. **CMCS Bracket**

The CMCS bracket shall be a standard stainless steel sign bracket suitable for mounting signs centered on sign posts and other structures. The bracket shall securely mount aluminum sign panels to a variety of new and existing sign posts and other structures. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels and mounting bracket for maintenance, repairs, and updates.

3. **Aluminum Sign Panel**

The CMCS bracket securely mounts aluminum sign panels including, but not limited to, sign types BB, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post or structure that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMCS brackets at each sign location.

4. **Mounting Bolts/Hardware**

Provide all mounting hardware and materials as needed to properly and securely bolt the aluminum sign panels to the CMCS bracket. Mounting bolts shall have 1/4" rubber backed stainless steel fender washers. The CMCS bracket and aluminum sign panel assembly shall be securely strap mounted to the sign post or other structure using heavy-duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.
**Section C4**

**Posts & Mounting Hardware**

### CMCC Type Bracket

**Description**

**General**

The CMCC type bracket is a standard stainless steel sign bracket suitable for mounting sign panels to CTA elevated columns and similar structures.

**1 Existing CTA Elevated Train Support Column or Similar Structures**

Verify on site the existing conditions at each mounting location.

**2 Mounting Hardware**

Provide all mounting hardware and materials as needed to properly, safely, and securely strap mount the aluminum sign panels to the existing column. Mounting bolts shall have 1/4" rubber backed stainless steel fender washers. The CMCC bracket and aluminum sign panel assembly shall be securely strap mounted to the column using heavy-duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

**3 Sign Panel**

The CMCC type bracket securely mounts aluminum sign panels including, but not limited to, sign types BB, BS and DSS to existing CTA columns and similar structures. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached to the column. See the Message Schedule for information on the type and quantity of signs requiring CMCC brackets at each sign location.

**4 Strap Covers**

Cover the stainless steel mounting straps and strap clips where the straps and clips can be touched by pedestrians.

**Associated Sign Types:**

The following sign types can be mounted using the CMCC type bracket:

- Sign Type BB - See Section C2
- Sign Type BS - See Section C1
- Sign Type DSS - See Section D3
- Sign Types ID-4 and ID-5 - See Section B1
**General**
The CMWA mounting is used for mounting sign panels to existing walls that cannot be drilled to accept the CMWB mounting.

**1 Existing Wall**
Verify on site the existing wall conditions at each mounting location.

**2 Mounting Tape / Adhesive**
Provide appropriate adhesives and double-faced tapes as needed to properly, safely, and securely mount the aluminum sign panels to the existing wall.

**3 Sign Panel**
The CMWA type mounting securely mounts aluminum sign panels including, but not limited to, sign types BB, BS, and DSS to existing walls. See the Message Schedule for information on the type and quantity of signs requiring CMWA mounting at each sign location.

**Associated Sign Types:**
The following sign types can be mounted using the CMWA type mounting:
- Sign Type BB - See Section C2
- Sign Type BS - See Section C1
- Sign Type DSS - See Section D3
- Sign Types ID-4 and ID-5 - See Section B1

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**Description**

**Elevation - CMWA**
Scale: 1 1/2" = 1'-0"

**Section - CMWA**
Scale: 1 1/2" = 1'-0"
SECTION C4
Posts & Mounting Hardware

CMWB Type Mounting

Associated Sign Types:
The following sign types can be mounted using
the CMWB type bracket:
Sign Type BB - See Section C2
Sign Type BS - See Section C1
Sign Type DSS - See Section D3
Sign Types ID-4 and ID-5 - See Section B1

General
The CMWB mounting hardware is used for
mounting sign panels to existing walls.

Existing Wall
Verify on site the existing wall conditions at
each mounting location.

Mounting Hardware
Provide stainless steel bolts, appropriate
anchors, and nylon washers as needed to
properly, safely, and securely mount the
aluminum sign panels to the existing wall.
Mounting bolts shall have 1/4" rubber backed
stainless steel fender washers. All mounting
hardware and components shall be vandal-
resistant and suitable for exterior use.

Sign Panel
The CMWB type mounting hardware securely
mounts aluminum sign panels including, but not
limited to, sign types BB, BS and DSS to
existing walls. See the Message Schedule for
information on the type and quantity of signs
requiring CMWB mounting hardware at each
sign location.
SECTION C4
Posts & Mounting Hardware

SMCB Sign Base

Associated Sign Posts:
Type SRSP-1, SRSP-2, and SRSP-3 sign posts. See pages C4.3-C4.5.

Description

General
Type SMCB sign base is CTA Item No. 2100007 or an equal custom cast iron sign base accepted by the RTA. The SMCB sign base shall be anchored to a variety of paving materials. See the Technical Specifications and page E1.3 of the Appendix for additional information.

The photo shown is for general reference only.

1 Sign Post
Verify if the location shall have a new sign post or if an existing sign post is to be used. For existing sign posts, verify on site the sign post size, configuration and material. Verify if the existing sign post can safely, securely, and properly be mounted using a SMCB type sign base.

2 SMCB Sign Base
The SMCB sign base shall be CTA Item No. 2100007 or an equal custom cast iron sign base accepted by the RTA. The base shall safely, securely, and properly support signs and sign posts. The base shall be safely, securely, and properly anchored to a variety of paving and ground conditions and materials. Verify the existing conditions and materials at all installation locations. Provide professionally engineered concrete foundations as needed. Provide all mounting hardware and materials as needed to safely, securely, and properly install the SMCB sign base and the sign posts/sign panel assemblies that are mounted to the SMCB bases. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign posts and sign bases for maintenance, repairs, and updates. Signs shall be installed level and plumb.
SECTION C4
Posts & Mounting Hardware

SMCB Sign Base
Typical Mounting to Existing Concrete

Description

General
The SMCB sign base shall be anchored to a variety paving materials. Shown is the design intent for mounting the SMCB sign base to existing concrete. For all SMCB locations, provide appropriate mounting anchors and all other materials required to properly, safely, and securely mount the SMCB sign base.

1 Sign Post

2 SMCB Sign Base

3 Leveling Hardware
Provide durable, concealed, corrosion-resistant hardware as required to make the sign base level.

4 Existing Concrete
Verify the existing concrete can safely, securely, and properly support the installed sign.

5 Anchor Hardware
Determine the type of anchor hardware required to safely, securely, and properly secure the SMCB sign base and anchor the installed sign. All hardware must be corrosion-resistant, vibration-resistant, and suitable for use in exposed exterior locations.

See the Technical Specifications for additional information and requirements.
SECTION C4
Posts & Mounting Hardware

SMCB Sign Base
Typical Mounting to Existing Pavers

**Description**

**General**
The SMCB sign base shall be anchored to a variety of paving materials. Shown is the design intent for mounting the SMCB sign base at locations with existing pavers. For all SMCB locations, provide appropriate mounting anchors and all other materials required to properly, safely, and securely mount the SMCB sign base.

**Sign Post**

**SMCB Sign Base**

**Leveling Hardware**
Provide durable, concealed, corrosion-resistant hardware as required to make the sign base level.

**Existing Pavers**
Verify the existing conditions at the installation location. Coordinate the SMCB mounting with the existing conditions.

**Conditions and Materials Below the Pavers**
Verify the existing conditions and materials below the pavers. Verify if the sign can be safely, securely, and properly installed. Determine if the existing conditions and materials can safely, securely, and properly support the installed sign.

**Anchor Hardware**
Determine the type of anchor hardware required to safely, securely, and properly secure the SMCB sign base and anchor the installed sign. All hardware must be corrosion-resistant, vibration-resistant, and suitable for use in exposed exterior locations.

**New Concrete Foundation (If Required)**
If required to safely, securely, and properly mount the sign, provide a new, professionally engineered sign foundation. Coordinate the sign foundation with the sign and the existing conditions. Carefully install the new concrete so that the sign can be safely, securely, and properly installed. Replace or reinstall pavers as needed to restore the appearance of the area around the sign.

See the Technical Specifications for additional information and requirements.
**SMDB Direct Bury Sign Post Mounting**

**Scale:** 1" = 1'-0"

**Associated Sign Posts:**
Type SRSP-5 sign post. See page C4.6.

**Description**

**General**
The SMDB direct bury sign post mounting shall be used at locations where a SRSP sign post is installed in dirt.

**1 SRSP Sign Post**
Sign post type SRSP-5 is typically used at direct bury locations.

**2 Backfill**
6" backfill at top of hole to restore site conditions.

**3 Existing Soil**
Verify the existing conditions at the installation location. Verify if the sign can be safely, securely, and properly installed.

**4 Pea Gravel**
See the Technical Specifications for additional information and requirements.

**5 Sand**
## Description

### General

Part D general reference.
SECTION D1
Directional Wall Signs

Section Introduction

Description

General
Section D1 general reference.
Introduction - Sign Type DSW / Directional Sign - Wall Mounted

The DSW sign types are wall mounted directional signs. DSW signs are typically used in interior locations. To provide the flexibility to respond to a variety of architectural conditions and message requirements, the signs have a variety of standard sizes and message layouts. The following will provide general guidance on how to determine the correct size and layout for sign type DSW.

Step 1 - Select the appropriate panel width

Sign Type DSW has three standard panel widths: 2'-0", 2'-6", 3'-0". Measure the wall space available at the location where the sign is to be installed and select the panel width that coordinates best with the architectural conditions. Select the 2'-6" wide panel if there are no architectural restrictions or message requirements that would make one of the other panel widths more appropriate.

Step 2 - Determine the messages to appear on the sign and the sign layout

Determine the information that needs to appear on the sign. Content needs to be focused and concise. Keep messages simple. Examine the architectural and wayfinding contexts at the intended sign location. Consider the sign as a component within the overall wayfinding program.

Sign type DSW layouts are typically based on the following overall Message Hierarchy:

1) Information related to CTA Trains
   a) CTA Trains
   b) CTA Train lines
   c) Accessibility or other directional information related to CTA Trains
   d) Miscellaneous information related to CTA Trains

2) Information related to Metra Trains
   a) Metra Trains
   b) Metra Train Stations
   c) Metra Trains identified by end-of-line stations (e.g. Metra Trains to Kenosha)
   d) Accessibility or other directional information related to Metra Trains
   e) Miscellaneous information related to Metra Trains

3) Information related to CTA and Pace Buses (includes Bus Stops)
   a) Bus Stops
   b) CTA and Pace Bus Routes
   c) Miscellaneous information related to CTA and Pace Buses

4) Information related to other transportation options (e.g. Intercity Buses, Amtrak Trains)

5) Misc. General Information

6) Toilets

7) Streets

8) Major Destinations (Parks, Cultural Institutions, Civic Institutions, etc.)

Organize messages based on the Message Hierarchy. Layout the messages using the typical reference examples shown on the following pages as guides. There are a variety of message layouts available. Layouts are selected based on the type of message and the quantity of information to be displayed. Maintain the text size, line spacing, character spacing, symbol and arrow sizes and positions, and margins indicated in the reference examples.

Messages typically include symbols. Only symbols from the accepted symbol vocabulary and provided by the RTA should be used. If a message does not have a symbol, position the message on the sign as if it did have a symbol, leaving the symbol area blank. Generally, do not use abbreviations. Commonly used abbreviations like "Ave" or "St" may be used if required to help a message fit on a sign.

General message groups are separated by a line. For example, a line is used to separate the messages relating to CTA Trains from the messages relating to Metra Trains. A line does not appear after the last message on the sign.

Within message groups, the messages are typically arranged with the arrows ordered "up", "left", "right", and "down/behind". When bus stop symbols are used on a sign, the bus stop messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.

Step 3 - Determine panel height

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

Step 4 - Determine panel thickness / type

Sign type DSW has three standard panel thicknesses / types. Determine the panel thickness / types based on where and how the sign is to be mounted.

Typically, DSW signs shall be mounted using an SWD sign frame that is secured to the wall with appropriate hardware and anchors. When mounting using the SWD sign frame, the DSW panel shall be 1/2" thick.

At locations where the DSW sign must be mounted using either a SWA or SWG sign frame that is secured to either a wall or glass surface using appropriate adhesive, the DSW panel shall be 1/8" thick.

At certain locations, a DSW sign will be fabricated and mounted using self-adhesive vinyl sheeting applied directly to the wall surface.

All layouts need to be submitted to the RTA for review prior to fabrication.
SECTION D1
Directional Wall Signs

Overview

Panel sizes are determined by the amount and type of information to be displayed and the amount of space available for the sign. See page D1.4 for additional information on establishing and formatting sign messages.

Description

Step 1:
Select the Appropriate Panel Width

Sign type DSW has three standard panel widths: 2'-0", 2'-6", and 3'-0". And, DSW signs have three standard panel heights: 1'-3", 1'-11", and 2'-6".

The chart above summarizes the 9 standard DSW panel sizes available.

To determine the appropriate panel width, measure the wall space available at the desired location and select the panel width that best fits the architectural condition. Select 2'-6" wide panel if there are no restrictions.

1  Elevation - Available DSW Panel Sizes
Scale: 1 1/2" - 1'-0"
**Description**

**Step 2: Determine the Messages**

Determine the information that needs to appear on the sign. Content needs to be focused and concise. Keep messages simple. Examine the architectural and wayfinding contexts at the intended sign location. Consider the sign as a component within the overall wayfinding program.

Organize messages based on the Message Hierarchy. Layout the messages using the typical reference examples shown on this and the following pages as guides. There are a variety of message layouts available. Layouts are selected based on the type of message and the quantity of information to be displayed.

Maintain the text size, line spacing, character spacing, symbol and arrow sizes and positions, and margins indicated in the reference examples. Messages typically include symbols. Only symbols from the accepted symbol vocabulary provided by the RTA should be used. If a message does not have a symbol, position the message on the sign as if it did have a symbol, leaving the symbol area blank.

Generally, do not use abbreviations. Commonly used abbreviations like “Ave” or “St” may be used if required to help a message fit on a sign. General message groups are separated by a line. For example, a line is used to separate the messages relating to CTA Trains from the messages relating to Metra Trains. A line does not appear after the last message on the sign. Within message groups, the messages are typically arranged with the arrows ordered “up,” “left,” “right,” and “down/behind.” When bus stop symbols are used on a sign, the bus stop messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.

The messages and layouts shown here are for reference only. See the Message Schedule for the correct messages for each sign type DSW location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSW signs may be provided by the RTA. When directed to do so by the RTA, determine the appropriate layouts and set up the digital art for the DSW signs based on the layout guidelines, the message content, and the available space.

All layouts need to be submitted to the RTA for review prior to fabrication.
SECTION D1
Directional Wall Signs

Layout Guidelines Example 1

Elevation - Schematic DSW Layout Guidelines Example 1

Scale: 1 1/2" - 1'-0"

Sign Panel Size:
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

Panel Fabrication:
For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17.
For information on panel mounting at locations where the signs are mounted to walls
using appropriate hardware and anchors, see Section D1, Sign Type SWD.
For information on panel mounting at locations where the signs are mounted to walls
or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

Description

General
The DSW series sign types are wall mounted signs that provide directional information.
See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.
The messages shown are for reference only.

Layout
The elevation shown provides typical layout guidance for conditions with a single one-line message. The message may include one arrow, one or more symbols, and message text. See page D1.6 for information on positioning symbols and message text when more than one symbol is used. If the message does not include a symbol, the typography for that message shall be centered on the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear centered aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.
The font for messages shall be Helvetica LT Std Bold.
Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy).
Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
**SECTION D1**
Directional Wall Signs

**Layout Guidelines Example 2**

1. **Elevation - Schematic DSW Layout Guidelines Example 2**

   **Scale:** 1 1/2" - 1'-0"

   **Sign Panel Size:**
   For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

   **Panel Fabrication:**
   For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17.
   For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD.
   For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

### Description

**General**
The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

**Layout**
The elevation shown provides typical layout guidance for conditions with a single multi-line message. The message may include one arrow, one or more symbols, and two or more lines of message text. See page D1.5 for information on positioning the symbol and message text when only one symbol is used. If the message does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear centered aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
SECTION D1  
Directional Wall Signs

Layout Guidelines Example 3

**Elevation - Schematic DSW Layout Guidelines Example 3**

*Scale: 1 1/2" - 1'-0"*

**Sign Panel Size:**
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

**Panel Fabrication:**
For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17. For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD. For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

### Description

**General**
The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

**Layout**
The elevation shown provides typical layout guidance for conditions with two or more single-line messages. The messages may include one arrow, one or more symbols, and two or more single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
SECTION D1
Directional Wall Signs

Layout Guidelines Example 4

Elevation - Schematic DSW Layout Guidelines Layout 4

Sign Panel Size:
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

Panel Fabrication:
For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17.
For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD.
For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

Description

General
The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

Layout
The elevation shown provides typical layout guidance for conditions with combination of single and multi-line messages. The messages may include one arrow, one or more symbols, and multi-line and single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
SECTION D1
Directional Wall Signs

Layout Guidelines Example 5

Elevation - Schematic DSW Layout Guidelines Example 5

Scale: 1 1/2" - 1'-0"

Sign Panel Size:
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

Panel Fabrication:
For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17.
For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD.
For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

Description

General
The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

Layout
The elevation shown provides typical layout guidance for conditions with more than one arrow. In addition to the arrows, messages may include one or more symbols and a combination of multi-line or single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
SECTION D1
Directional Wall Signs

Description

General
The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

Layout
The elevation shown provides typical layout guidance for conditions with a single one-line message and multiple CTA train line symbols with one arrow.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.
SECTION D1
Directional Wall Signs

Layout Guidelines Example 7

1 Elevation - Schematic DSW Layout Guidelines Example 7
Scale: 1 1/2" - 1'-0"

Sign Panel Size:
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

Panel Fabrication:
For additional information on DSW panel fabrication, see pages D1.15, D1.16, D1.17.
For information on panel mounting at locations where the signs are mounted to walls
using appropriate hardware and anchors, see Section D1, Sign Type SWD.
For information on panel mounting at locations where the signs are mounted to walls
or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.

Description

General
The DSW series sign types are wall mounted signs that provide directional information.
See page D1.2 for additional information and guidance on the messages that appear on sign
type DSW and on how to determine the correct size and layout for sign type DSW.
The messages shown are for reference only.

Layout
The elevation shown provides typical layout guidance for conditions with a single one-line
message and multiple CTA train line symbols with multiple arrows.
The font for messages shall be Helvetica LT Std Bold.
Related messages are grouped as per the message hierarchy (see page D1.2 for a
description of the message hierarchy). Message groups are separated by lines. A line
also appears along the top edge of the sign, before the first message.
**SECTION D1**

**Directional Wall Signs**

### Size Summary

**2'-0" Wide Panels**

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**Description**

**Step 3: Determine Panel Height**

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type designation for each DSW sign gives information about the sign’s size. For example, a typical DSW sign type number is DSW-1.3. The first number indicates the sign panel’s thickness: DSW-1 signs are 1/2" thick panels, DSW-2 signs are 1/8" thick panels, and DSW-3 signs are self-adhesive vinyl.

The second number indicates the panel’s height and width. For example, signs that are 2’-0" wide x 1’-3" high are identified by ".1".

Signs that are 2’-0" wide x 1’-11" high are identified by ".2", and signs that are 2’-0" wide x 2’-6" high are identified by ".3". Therefore, sign type DSW-1.3 is a Directional Wall Sign that is 1/2" thick and 2’-0" wide x 2’-6" high.

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SECTION D1
Directional Wall Signs

Size Summary
2'-6" Wide Panels

**Description**

**Step 3:**
**Determine Panel Height**

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type designation for each DSW sign gives information about the sign’s size. For example, a typical DSW sign type number is DSW-2.5. The first number indicates the sign panel’s thickness: DSW-1 signs are 1/2" thick panels, DSW-2 signs are 1/8" thick panels, and DSW-3 signs are self-adhesive vinyl.

The second number indicates the panel’s height and width. For example, signs that are 2'-6" wide x 1'-3" high are identified by ".4".

Signs that are 2'-6" wide x 1'-11" high are identified by ".5", and signs that are 2'-6" wide x 2'-6" high are identified by ".6". Therefore, sign type DSW-2.5 is a Directional Wall Sign that is 1/8" thick and 2'-6" wide x 1'-11" high.

**Sign Panel Size:**
For additional information on standard DSW panel sizes, see pages D1.12 and D1.14.

**Sign Panel Thickness:**
Sign Type DSW has two standard panel thicknesses. Sign Types DSW-1.4, DSW-1.5, and DSW-1.6 are 1/2" thick. See page D1.15 for additional information.

Sign Types DSW-2.4, DSW-2.5, and DSW-2.6 are 1/8" thick. See page D1.16 for additional information.

Sign Types DSW-3.4, DSW-3.5, and DSW-3.6 are self-adhesive vinyl sheeting. See page D1.17 for additional information.

**Panel Fabrication:**
For additional information on DSW panel fabrication, see pages D1.15, D1.16, and D1.17.

**Panel Mounting:**
For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD.

For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.
SECTION D1
Directional Wall Signs

Size Summary
3'-0" Wide Panels

**Description**

**Step 3:**
**Determine Panel Height**

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type designation for each DSW sign gives information about the sign's size. For example, a typical DSW sign type number is DSW-3.7. The first number indicates the sign panel's thickness: DSW-1 signs are 1/2" thick panels, DSW-2 signs are 1/8" thick panels, and DSW-3 signs are self-adhesive vinyl.

The second number indicates the panel's height and width. For example, signs that are 3'-0" wide x 1'-3" high are identified by "7".

Signs that are 3'-0" wide x 1'-11" high are identified by "8", and signs that are 3'-0" wide x 2'-6" high are identified by "9". Therefore, sign type DSW-3.7 is a Directional Wall Sign that is printed on self-adhesive vinyl and is 3'-0" wide x 1'-3" high.

**Sign Panel Size:**

For additional information on standard DSW panel sizes, see pages D1.12 and D1.13.

**Sign Panel Thickness:**

Sign Type DSW has two standard panel thicknesses. Sign Types DSW-1.7, DSW-1.8, and DSW-1.9 are 1/2" thick. See page D1.15 for additional information.

Sign Types DSW-2.7, DSW-2.8, and DSW-2.9 are 1/8" thick. See page D1.16 for additional information.

Sign Types DSW-3.7, DSW-3.8, and DSW-3.9 are self-adhesive vinyl sheeting. See page D1.17 for additional information.

**Panel Fabrication:**

For additional information on DSW panel fabrication, see pages D1.15, D1.16, and D1.17.

**Panel Mounting:**

For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, Sign Type SWD.

For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.
SECTION D1
Directional Wall Signs

DSW-1 Series Fabrication
Installed on Wall Structure

Description

Step 4 – Determine panel thickness / type

Sign type DSW has three standard panel thicknesses. Determine the panel thickness based on how the sign is to be mounted. At locations where the DSW sign can be mounted using a SWD sign frame, the DSW panel shall be 1/2” thick.

At locations where the DSW sign must be mounted using either a SWA or SWG sign frame that is secured to either a wall or glass surface using some type of adhesive, the DSW panel shall be 1/8” thick. See page D1.16 for additional information.

At locations where neither the SWD nor the SWA or SWG sign frames are appropriate, the DSW sign may be self-adhesive vinyl applied directly to the wall surface. See page D1.17 for additional information.

General

DSW-1 Series sign panels are 1/2” thick and are used only at locations where walls can be drilled and the panel and sign frame can be mounted using appropriate mechanical anchors and fasteners.

Sign Frame

The DSW-1 Series sign panels are supported by a fabricated aluminum sign frame. The sign frame mounts to the wall using appropriate hardware and anchors. See page D1.18 for additional information.

Sign Panel

The DSW-1 Series sign face panels shall be exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. The panel thickness for each DSW-1 Series sign shall be 1/2”.

Sign Panel Size:
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14.

Panel Fabrication:
For additional information on DSW panel fabrication, see pages D1.16 and D1.17.

Panel Mounting:
For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, SWD Sign Structure.

For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG.
SECTION D1
Directional Wall Signs

DSW-2 Series Fabrication
Installed on Wall / Glass

**Description**

**Step 4 – Determine panel thickness**
Sign type DSW has three standard panel thicknesses. Determine the panel thickness based on how the sign is to be mounted.

At locations where the DSW sign can be mounted using a SWD sign frame that is secured to the wall with appropriate hardware and anchors, the DSW panel shall be 1/2" thick. See page D1.15 for additional information.

At locations where the DSW sign must be mounted using either a SWA or SWG sign frame that is secured to either a wall or glass surface using some type of adhesive, the DSW panel shall be 1/8" thick.

At locations where neither the SWD nor the SWA or SWG sign frames are appropriate, the DSW sign may be self-adhesive vinyl applied directly to the wall surface. See page D1.17 for additional information.

**General**
DSW-2 Series sign panels are 1/8" thick and are used only at locations where walls cannot be drilled and the panel and sign frame must be mounted using appropriate adhesives and/or double faced tapes.

**Sign Frame/Back Panel**
The DSW-2 Series sign panels are mounted to a painted acrylic back panel that is mounted to a wall or glass. The sign frame/back panel mounts to the wall or glass using appropriate adhesives and/or double faced tapes. See page D1.19 for additional information.

**Sign Panel**
The DSW-2 Series sign face panels shall be exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. The panel thickness for each DSW-2 Series sign shall be 1/8".

**Cover-up Panel**
Provide cover-up panels for all signs mounted to glass.

**Typical Elevation for Sign Type DSW-2**

**Sign Panel Size:**
For additional information on standard DSW panel sizes, see pages D1.12, D1.13, D1.14

**Panel Fabrication:**
For additional information on DSW panel fabrication, see pages D1.15 and D1.17.

**Panel Mounting:**
For information on panel mounting at locations where the signs are mounted to walls using appropriate hardware and anchors, see Section D1, SWD sign structure

For information on panel mounting at locations where the signs are mounted to walls or glass using appropriate adhesives and/or double face tape, see Section D1, Sign Type SWA and SWG
**SECTION D1**

**Directional Wall Signs**

**DSW-3 Series Fabrication**

*Installed on Wall / Glass*

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**Step 4 - Determine panel thickness**

Sign type DSW has three standard panel thicknesses. Determine the panel thickness based on how the sign is to be mounted.

At locations where the DSW sign can be mounted using a SWD sign frame that is secured to the wall with appropriate hardware and anchors, the DSW panel shall be 1/2" thick. See page D1.15 for additional information.

At locations where the DSW sign must be mounted using either a SWA or SWG sign frame that is secured to either a wall or glass surface using some type of adhesive, the DSW panel shall be 1/8" thick. See page D1.16 for additional information.

At locations where neither the SWD nor the SWA or SWG sign frames are appropriate, or where signs are not intended to be permanent, the DSW sign may be self-adhesive vinyl applied directly to the wall surface. See page D1.17 for additional information.

**Self Adhesive Vinyl Decal**

Provide high resolution inkjet or silkscreen printed decal signs on opaque 3M vinyl sheeting, or an equivalent, durable, self-adhesive material, for single sided application. Decals shall be removable and shall have an exterior-grade adhesive. Provide a clear protective anti-graffiti overlaminate as recommended by the sheeting manufacturer to protect the decal’s typography and graphics. Decal graphics shall be printed using durable, exterior grade, UV resistant, and water resistant inks. Alternate printing methods may be used if accepted by the RTA.

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**Typical Elevation for Sign Type DSW-3**

Scale: N.T.S.

**Typical Sections**

Scale: N.T.S.
**SECTION D1**

**Directional Wall Signs**

**Sign Type DSW-1 Series**

**SWD Sign Frame**

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### Description

#### General

The SWD sign frames are wall mounted sign support structures fabricated from aluminum. Sign type DSW-1 series, TR-1, or TR-2 panels are mounted to sign type SWD sign frames. SWD sign frames shall be used at locations where the frame can be mounted to the wall using appropriate hardware and mechanical anchors and fasteners. SWD sign frames may also be mounted to SFM and SPY sign structures.

#### Aluminum Revealed Panel

Painted aluminum revealed panel supports the removable sign panel. The reveal panel is safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panel. The reveal panel shall have laser cut openings to accept the mounting clips on the back of the sign panel. Coordinate the size and location of the openings in the reveal panel with the sign panel mounting clips so that the clips properly engage with the reveal panel and so that the sign panel is safely, securely, and properly held in the correct position. Portions of the reveal panel will be visible between the sign panel and the side bars.

#### Sign Panels

Sign type DSW-1 series, TR-1 or TR-2 sign panels shall be mounted to the SWD frames with concealed mounting clips. The mounting clips shall allow for removal of the sign panels for maintenance, repairs, and updates.

#### Side Bars

Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSW or TR sign panel.

#### Internal Framing

Provide concealed internal framing and bracing as needed for the sign type SWD to be rigid and structurally sound and to properly, safely, and securely support the sign types which shall be mounted to it.

#### Removable Top Bar

Removable painted aluminum bar locks the DSW or TR panels in position. The bar shall be secured using flush, vandal-resistant, side mounted set screws.

#### Concealed Wall Mounting

Provide all mounting hardware and materials as needed to properly, safely, and securely mount sign type SWD to various wall and sign cabinet surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. Mounting hardware shall not be visible.
### SECTION D1
**Directional Wall Signs**

#### Sign Type DSW-2 Series

**SWA - Wall Mounting**

**SWG - Glass Mounting**

----

**Description**

**General**

The SWA and SWG sign frames are painted acrylic wall mounted back panels. Sign type DSW-2 series, TR-3 or TR-4 panels are mounted to sign type SWA and SWG sign frames/back panels.

SWA sign frames/back panels shall be used at locations where holes cannot be drilled into the wall and the sign must be mounted to the wall using appropriate adhesives and/or double faced tape.

SWG sign frames/back panels shall be used at locations where the sign is mounted to glass using appropriate adhesives and/or double faced tape.

**Painted Acrylic Backer Panel**

A 1/4" thick painted acrylic backer panel shall be safely and securely mounted to the wall or glass surface. The sign type DSW or TR panel is then properly, safely, and securely mounted to the face of the acrylic panel. The acrylic panel shall be painted on all visible surfaces.

**Sign Panels Mounted to the SWA or SWG Sign Structure**

1/8" thick sign type DSW-2 series, TR-3 or TR-4 sign panels shall be properly, safely, and securely mounted to the SWA or SWG frames with appropriate mounting tapes and adhesives.

**Wall Mounting**

Provide appropriate mounting tapes and adhesives as needed to safely, properly, and securely mount the SWA frame and the painted acrylic back panel to various wall surfaces. All mounting tapes and adhesives shall be suitable for the surface the sign is to be mounted to and shall be vandal-resistant and suitable for exterior use.

**Cover-up Panel**

Provide a 1/8" thick painted acrylic cover-up panel on the side of the glass opposite the sign face. The cover-up panel shall be sized and finished to match the acrylic backer panel. The cover-up panel shall be properly, safely, and securely mounted to the face of the glass using appropriate mounting tapes and adhesives.
SECTION D1
Directional Wall Signs

DSF, SWF Overview

Description

General
Sign type DSF is a flag mounted, non-illuminated sign. Sign type DSF panels are fabricated from aluminum and are mounted to the SWF sign structure. Sign type DSF is typically oriented perpendicular to the pedestrian flow and is typically used to provide direction or identify locations.
**SECTION D1**
Directional Wall Signs

**Sign Type DSF**

**General**
Sign type DSF is an overhead, flag mounted, non-illuminated sign. Each sign face displays one symbol and one line of text.

The sign type DSF sign panels are mounted to the SWF sign structure.

**1 Sign Face**
The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

**2 Opaque Graphics**
Graphics shall be applied opaque graphic film. The font used for the messages shall be Helvetica LT Std Bold.

**3 Concealed Mounting Hardware**
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWF sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant, corrosion-resistant and suitable for use in exterior locations. The mounting hardware shall be properly, safely, securely, and permanently attached to the sign panel. Coordinate the mounting hardware with the sign frame as required.

See the Message Schedule for the correct messages for each sign type DSF location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSF signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSF sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.
SECTION D1
Directional Wall Signs

SWF Sign Structure

**For Sign Face Layout Information:**
See page D1.21 for sign face layout information for sign type DSF.

### Description

**General**
The SWF sign structure is flag mounted and fabricated from aluminum. Sign type DSF sign panels are mounted to sign type SWF. SWF sign structures shall be used at locations where the structure can be mounted to the wall or ceiling using appropriate mechanical anchors and fasteners.

**1 Aluminum Reveal Panel**
Painted aluminum reveal panels support the removable sign panels. The reveal panels are safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign panels. Coordinate the size and location of the openings in the reveal panels with the sign panel mounting clips so that the clips properly engage with the reveal panels and so that the sign panels are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign panels and the side bars.

**2 DSF Sign Panels**
Two sign type DSF sign panels shall be mounted to the SWF sign structure with concealed hardware. The mounting hardware shall allow for removal of the DSF sign panels for maintenance, repairs, and updates. See page D1.21 for panel fabrication information.

**3 Side Bars**
Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSF sign panels.

**4 Internal Framing**
Provide concealed internal framing and bracing as needed for the SWF sign structure to be rigid and structurally sound and to properly and securely support the DSF sign panels which shall be mounted to it.

**5 Removable Bottom Bar**
Removable painted aluminum bottom bar shall lock the DSF sign panels in position. The bar shall be secured using flush, vandal-resistant set screws.

**6 Mounting Hardware**
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SWF sign structure to various wall or ceiling surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.
SECTION D2
Directional Overhead Signs

Section Introduction

Description

General
Section D2 general reference.
**SECTION D2**

**Directional Overhead Signs**

**Overhead Sign Products**

**Overview**

**Sign Type DSO**

**Directional Overhead Signs**

The DSO series sign types are overhead mounted signs that provide directional information.

The DSO sign types can be mounted to ceilings using SON sign structures, or to soffits using SOS sign structures.

SON and SOS sign structures are described in section D2.

**SON Sign Structure**

Pendant Mounted Sign Structure

The SON sign structure’s size conforms to the size of the DSO sign panels which it holds.

The DSO sign panels are described in Section D2.

**SOC Sign Structure**

Ceiling Mounted Sign Structure

The SOC sign structure’s size conforms to the size of the DSO sign panels which it holds.

The DSO sign panels are described in Section D2.

**SOS Sign Structure**

Soffit Mounted Sign Structure

The SOS sign structure’s size conforms to the size of the DSO sign panels which it holds.

The DSO sign panels are described in Section D2.

**Description**

**General**

The DSO series sign types are ceiling or soffit mounted overhead signs and are used to provide directional information. Typically, the DSO series sign types shall be mounted to SON, SOC, or SOS sign structures.
SECTION D2
Directional Overhead Signs

Sign Type DSO and SON & SOS Sign Structure
Size Summary

**Description**

**General**
The DSO series sign panels are available in a variety of sizes. DSO sign panels shall typically be mounted to SON, SOC, or SOS sign structures. DSO sign panels can also be fitted to existing overhead signs. The SON, SOC, and SOS sign structures vary in size to accommodate the DSO sign panels. To coordinate with site conditions and to maintain design intent, sign fabrication and mounting as outlined in these Guidelines may need to be revised.

See the Technical Specifications for additional information and requirements.
SECTION D2
Directional Overhead Signs

Design and Layout Notes

1. **Elevation - Example Sign Type DSO Layouts**

   Scale: 1/2" = 1'-0"

### Description

**General Design and Layout Information – DSO Signs**

- **DSO sign size** shall be coordinated with site requirements and message content. Select a DSO sign type based on the quantity of information to be displayed and the architectural conditions at the installation location.

- **When CTA train lines are displayed**, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.

- **DSO signs with 2 1/4" message typography** must be mounted so that the baseline of the first message line is not above 10'-0" above the finish floor (assumes an unobstructed horizontal viewing distance of 17'-0" or less). For signs where the baseline of first message line is higher than 10'-0" above the finish floor, the sign face layout must be adjusted to provide message typography that meets the ADA Guidelines for Visual Character Height.

- **Messages are typically ordered as per the following message hierarchy:** 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- **Typically, DSO signs display messages in groups consisting of one arrow and up to three lines of text with symbols. Message typography is flush left, and arrows are always placed to the left of the symbols and messages.**

- On signs with more than one arrow for a single group of messages, the messages are typically arranged first by the message hierarchy and second with the arrows ordered “up,” “left,” “right,” and “down/behind.”

- When bus stop symbols are used on a sign, the bus stop messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.

- **DSO signs must not be placed in locations that are inappropriate.**

- **DSO signs must not be placed in locations where they may confuse or distract drivers or cyclists.**
Section D2
Directional Overhead Signs

Sign Type DSO-1

General
Sign type DSO-1 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays one arrow and up to two lines of symbols and text.

1 Sign Face
The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

2 Opaque Graphics
Graphics shall be cut-out, applied, opaque graphic sheeting. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.
The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

3 Concealed Mounting Hardware
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

Associated Sign Structures:
For ceiling mounted locations, use SON or SOC sign structures. See page D2.15 and D2.16 for additional information.
For soffit or wall mounted locations, use SOS sign structure. See page D2.17 for additional information.
### SECTION D2
Directional Overhead Signs

**Sign Type DSO-2**

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**General**
Sign type DSO-2 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays one arrow and up to three lines of symbols and text.

1. **Sign Face**
The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

2. **Opaque Graphics**
Graphics shall be cut-out, applied, opaque graphic sheeting. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied.

   The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

   The font used for the messages shall be Helvetica LT Std Bold.

   See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

   Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

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All layouts need to be submitted to the RTA for review prior to fabrication.

3. **Concealed Mounting Hardware**
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

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*When part of the message line, symbols 6-1 through 6-13 shall be 3 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 3 1/8" high, centered vertically on the text. There shall be 1 1/4" of space between the text and the symbol, and 1 1/4" of space between symbols.*
SECTION D2
Directional Overhead Signs

Sign Type DSO-3

Associated Sign Structures:
For ceiling mounted locations, use SON or SOC sign structures. See page D2.15 and D2.16 for additional information. For soffit or wall mounted locations, use SOS sign structure. See page D2.17 for additional information.

**Description**

**General**
Sign type DSO-3 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays up to two arrows with up to six lines of symbols and message copy.

**1 Sign Face**
The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

**2 Opaque Graphics**
Graphics shall be cut-out, applied, opaque graphic sheeting. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied. The dotted arrow position box is shown for reference only and shall not appear on the final sign faces. The font used for the messages shall be Helvetica LT Std Bold. See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content. Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics. All layouts need to be submitted to the RTA for review prior to fabrication.

**3 Concealed Mounting Hardware**
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

*When part of the message line, symbols 6-1 through 6-13 shall be 3 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 3 1/8" high, centered vertically on the text. There shall be 1 1/4" of space between the text and the symbol, and 1 1/4" of space between symbols.
### Section D2
#### Directional Overhead Signs

**Sign Type DSO-4**

**General**
Sign type DSO-4 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays up to two arrows with up to six lines of symbols and copy.

**Sign Face**
The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

**Opaque Graphics**
Graphics shall be cut-out, applied, opaque graphic sheeting. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied.

The dotted arrow position box is shown for reference only and shall not appear on the final sign face. The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

**Concealed Mounting Hardware**
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.
Section - Sign Type DSO-10

Scale: N.T.S.

Approx. 8’-2” V.O. - Verify the existing conditions and coordinate the sign face size as required

Elevation - Sign Type DSO-10

Scale: 1 1/2" = 1’-0"

Associated Sign Structure:
Sign type DSO-10 is a custom sized sign face that is fitted into existing internally illuminated sign cabinets.

Description

General
Sign type DSO-10 is a new custom sized sign face that is used to replace the existing sign face in existing CTA sign type E-19.

At each location, the existing sign face shall be removed. Field verify the size, condition, mounting height, and construction of the existing sign box. Depending on the mounting height, the graphic layout may need to be revised from the typical standard shown in order to conform with ADA guidelines for minimum character height. Coordinate the size and thickness of the new sign face with the existing sign box as required for the new sign face to fit correctly and function properly.

1 Sign Face
The sign face shall consist of two layers. Layer 1 shall be 1/8” thick clear polycarbonate. Layer 2 shall be 1/8” thick translucent white polycarbonate. The clear polycarbonate is the outermost panel. It is placed in front of the translucent panel. The graphics are applied to the face of the translucent polycarbonate panel. The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

2 Translucent Graphics
White text, symbols, arrows and other white graphics shall be the translucent white polycarbonate. Translucent colors, for example the red bus boarding area symbol background, shall be translucent graphic films applied to the face of the translucent polycarbonate panel.

3 Opaque Background
The sign face background shall be completely opaque using silkscreen or mask and spray methods.
SECTION D2  
Directional Overhead Signs

Layout Alternates  
DSO Sign Types

**Description**

**General**
DSO signs are overhead mounted directionals. Typically, DSO signs display messages in groups consisting of one arrow and up to three lines of symbols and text.

Shown are guidelines for alternate layouts that may be applied to DSO signs that have more than one arrow for a single group of messages, DSO signs that have a message that may require more than one line, or DSO signs with more than one column of messages.

The alternate layouts shown may be applied to DSO-1, DSO-2, DSO-3, DSO-4, and DSO-10.

A similar layout approach may be applied to sign types DSO-11, DSO-12, DSO-13, and DSO-14. For these sign types, the dimensions shown for arrows, line spacing, margins, etc. may need to be revised.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

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**Elevation - Typ. Alt. Layouts**

Scale: 1 1/2" = 1'-0"

*When part of the message line, symbols 6-1 through 6-13 shall be 3 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 3 1/8" high, centered vertically on the text. There shall be 1 1/4" of space between the text and the symbol, and 1 1/4" of space between symbols.

All layouts need to be submitted to the RTA for review prior to fabrication.
**Section - Sign Type DSO-11**

*Scale: N.T.S.*

**Elevation - Sign Type DSO-11**

*Scale: 1 1/2" = 1'-0"*

**Associated Sign Structure:**
Sign type DSO-11 is a custom sized sign face that is fitted into existing internally illuminated sign cabinets.

**Description**

**General**
Sign type DSO-11 is a new custom sized sign face that is used to replace the sign faces and dynamic displays in certain existing RTA information signs.

At each location, the existing sign face and the existing dynamic display shall be removed. Additional lighting fixtures shall be added as required to evenly and adequately illuminate the entire sign face. Field verify the size, condition, and construction of the existing sign box. Coordinate the size and thickness of the new sign face with the existing sign box as required for the new sign face to fit correctly and function properly.

**Sign Face**
The sign face shall consist of two layers. Layer 1 shall be 1/8" thick clear polycarbonate. Layer 2 shall be 1/8" thick translucent white polycarbonate. The clear polycarbonate is the outermost panel. It is placed in front of the translucent panel. The graphics are applied to the face of the translucent white polycarbonate. The panels are to be installed so that the clear panel may be removed and replaced without having to also replace the translucent panel.

**Translucent Graphics**
White text, symbols, arrows and other white graphics shall be the translucent white polycarbonate. Translucent colors, for example the red bus boarding area symbol background, shall be translucent graphic films applied to the face of the translucent polycarbonate panel.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics. All layouts need to be submitted to the RTA for review prior to fabrication.

**Opaque Background**
The sign face background shall be completely opaque using silkscreen or mask and spray methods.

*When part of the message line, symbols 6-1 through 6-13 shall be 5 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 4 3/4" high, centered vertically on the text. There shall be 2 1/4" of space between the text and the symbol, and 2 1/4" of space between symbols.*
EXHIBIT D

SECTION D2
Directional Overhead Signs

Custom Sizes
Sign Type DSO-12

Description

General
Sign type DSO-12 is a new custom sized sign face, DSO-12 may be used to replace existing sign faces in existing non-internally illuminated overhead signs. DSO-12 may also be used at locations where the sizes of the other DSO signs types are inappropriate and a custom sized overhead sign is required.

At each existing sign location, the existing sign face shall be removed and replaced. Field verify the size, condition, and construction of the existing sign face and sign box. At all locations, verify the site dimensions and conditions. Coordinate the size of the new sign with the site conditions. Coordinate the size and thickness of new sign faces with existing sign structures as required for the new faces to fit correctly and function properly.

Digital art for the new sign face may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the new sign face graphics. The new sign face layout shall be based on the layout guidelines established for other DSO signs, the required content, and the existing site dimensions.

All layouts need to be submitted to the RTA for review prior to fabrication.

1. Sign Face
The sign face shall be a seamless aluminum panel with an opaque painted finish on the panel face and returns.

2. Opaque Graphics
Graphics shall be cut-out, applied, opaque graphic sheeting. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Concealed Mounting Hardware
Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.
SECTION D2
Directional Overhead Signs

Custom Sizes
Sign Type DSO-13

Description

General
Sign type DSO-13 is a new custom sized sign face. Sign type DSO-13 is installed over existing wall mounted or ceiling hung sign panels at locations where it would not be feasible to remove the existing sign panel.

At each existing sign location, field verify the size, condition, and construction of the existing sign face and sign box. At all locations, verify the site dimensions and conditions. Provide the RTA with written documentation of existing dimensions and site conditions. Coordinate the size of the new sign with the site conditions. The existing sign panel should be completely covered by the new sign face.

Digital art for the new sign face may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the new sign face graphics. The new sign face layout shall be based on the layout guidelines established for other DSO signs, the required content, and the existing site dimensions.

All layouts need to be submitted to the RTA for review prior to fabrication.

1 Sign Face
The sign face shall be a 2mm Dibond or equivalent aluminum composite material with an opaque painted finish on the panel face and returns.

2 Opaque Graphics
Graphics shall be digitally printed using UV cured inks. Apply an exterior-grade, UV and graffiti resistant, clear protective layer over the entire sign face. The clear protective layer shall be trimmed flush with the edges of the sign face and shall be compatible with the graphics and the materials to which it is applied.

The dotted arrow position box is shown for reference only and shall not appear on the final sign face.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

3 Mounting Hardware
Provide mounting hardware as required to properly, safely, and securely mount the sign panel to the sign frame. Mounting hardware that is visible on the new sign face shall be painted to match the background color. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.

Coordinate size with sign cabinet, sign content, and conditions at the installation location.
SECTION D2
Directional Overhead Signs

Internally Illuminated
Sign Type DSO-14

Information to Come.
SECTION D2
Directional Overhead Signs

SON Pendant Mounted Sign Structure

Description

General
The SON is an non-illuminated sign structure that is ceiling mounted and fabricated from aluminum. Sign type DSO sign panels are mounted to the SON sign structure.

1. Aluminum Reveal Panel
Painted aluminum reveal panels support the removable sign faces. The reveal panels are safely, securely, properly, and permanently mounted to the sign’s internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign faces. Coordinate the size and location of the openings in the reveal panels with the sign face mounting clips so that the clips properly engage with the reveal panels and so that the sign faces are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign faces and the end bars.

2. DSO Sign Panels
Sign type DSO panels shall be mounted to both sides of the SON sign structure with concealed mounting clips. If messages are to appear on only one side, a blank sign panel must be supplied for the opposite side. The sign panels shall be removable for maintenance, repairs, and updates.

3. Ceiling Mount Support Tubes
Provide painted aluminum tubes to properly and securely support the SON sign structure and the DSO sign panels mounted to it.

4. Internal Framing
Provide concealed internal framing and bracing as needed for the SON sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign panels which shall be mounted to it.

5. Removable Top Bar
A removable painted aluminum bar shall lock the DSO panels in position. The bar shall be mounted using flush, vandal-resistant hardware.

6. Sign Mounting Hardware
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SON sign structure to various ceiling surfaces or at other overhead mounting locations. Provide any additional structural elements or materials needed to properly and securely support the sign. All sign hardware and components shall be vandal-resistant and suitable for exterior use.

7. Pivot Mounting Hardware
Provide pivot mounting hardware that shall hold the sign firmly but shall also allow the sign to give if struck.

For Sign Face Layout Information: See pages D2.4 - D2.13 for sign type DSO sign face layout information.
SECTION D2
Directional Overhead Signs

SOC Ceiling Mounted Sign Structure

1 Typical Mounting Height - Ceiling Mounted
Scale: 1/8" = 1'-0"

DSO sign panel Width - Adjust the width and height of the SOC sign structure to coordinate with the width and height of the DSO sign panel.

2 Elevation - SOC Sign Structure
Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:
See pages D2.4 - D2.13 for sign type DSO sign face layout information.

Description

General
The SOC sign structure is ceiling mounted and fabricated from aluminum. Sign type DSO sign panels are mounted to the SON sign structure.

1 Aluminum Reveal Panel
Painted aluminum reveal panels support the removable sign faces. The reveal panels are safely, securely, properly, and permanently mounted to the sign’s internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign faces. Coordinate the size and location of the openings in the reveal panels with the sign face mounting clips so that the clips properly engage with the reveal panels and so that the sign faces are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign faces and the end bars.

2 DSO Sign Panels
Sign type DSO panels shall be mounted to both sides of the SOC sign structure with concealed mounting clips. If messages are to appear on only one side, a blank sign panel must be supplied for the opposite side. The sign panels shall be removable for maintenance, repairs, and updates.

3 Side Bars
Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSO sign panels.

4 Internal Framing
Provide concealed internal framing and bracing as needed for the SOC sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign panels which shall be mounted to it.

5 Removable Bottom Bar
A removable painted aluminum bar shall lock the DSO sign panels in position. The bar shall be secured using flush, vandal-resistant hardware.

6 Mounting Bracket
Provide painted aluminum mounting brackets that shall properly, safely, and securely support the sign. The mounting brackets shall hold the sign firmly but shall also allow the sign to give if struck.

7 Ceiling Mounting Hardware
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SOC sign structure to various ceiling surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.
**SECTION D2**

**Directional Overhead Signs**

**SOS Soffit Mounted Sign Structure**

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**General**

The SOS sign structure is wall mounted and fabricated from aluminum. A sign type DSO panel is mounted to the SOS sign structure.

**Aluminum Reveal Panel**

Painted aluminum reveal panel supports the removable sign face. The reveal panel is safely, securely, properly, and permanently mounted to the sign’s internal framing. When the sign is complete, hardware shall not be visible on the reveal panel. The reveal panel shall have laser cut openings to accept the mounting clips on the back of the sign face. Coordinate the size and location of the openings in the reveal panel with the sign face mounting clips so that the clips properly engage with the reveal panel and so that the sign face is safely, securely, and properly held in the correct position. Portions of the reveal panel will be visible between the sign face and the end bars.

**DSO Sign Panel**

A sign type DSO series sign panel shall be mounted to the SOS sign structure with concealed mounting clips. The SOS sign structure and the DSO sign panel mounting hardware shall allow for removal of the DSO sign panel for maintenance, repairs, and updates.

**Side Bars**

Provide painted aluminum side bars at each end of the SOS sign structure. The face of the side bars shall be flush with the face of the DSO sign panel.

**Internal Framing**

Provide concealed internal framing and bracing as needed for the SOS sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign panel which shall be mounted to it.

**Removable Top Bar**

A removable painted aluminum bar shall lock the DSO sign panel in position. The bar shall be secured using flush, vandal-resistant hardware.

**Concealed Wall Mounting**

Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SOS sign structure to various wall surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. Mounting hardware shall not be visible.

For Sign Face Layout Information:
See pages D2.4 - D2.13 for sign type DSO sign face layout information.
SECTION D3
Directional Street Signs

Section Introduction

Description

General
Section D3 general reference.
Sign Type DSS
Directional Street Signs

The DSS sign types provide directional information along public sidewalks.

The DSS sign types are mounted to new street posts or to existing sign posts, street lights, or other existing structures.

**Description**

**General**

Sign type DSS has three standard sizes and an additional custom size. Determine the size required based on the information to be displayed and the space available for the sign.
SECTION D3
Directional Street Signs

Sign Type DSS
Size Summary and Layout Examples

Description

General
Sign type DSS has three standard sizes and an additional custom size. Determine the size required based on the information to be displayed and the space available for the sign.
SECTION D3
Directional Street Signs

Sign Type DSS
Panel Hole Placement

Description

General
Sign type DSS panels can be side / flag mounted using CMFB of CMFS mounting hardware or center mounted using CMCS, CMCC, or CMWB mounting hardware. Position mounting holes in the panels as shown based on the mounting method used at each sign installation location.
SECTION D3
Directional Street Signs

Sign Type DSS-1

Design and Layout Notes

Description

General Design and Layout Information – DSS Signs

- DSS sign size shall be coordinated with site requirements and message content. Generally, DSS-1 shall be used where it is not practical or advisable to use a larger DSS sign. Select DSS-1.1, DSS-1.2, or DSS-1.3 based on the quantity of information to be displayed. When more than one DSS sign appears at a single location, all the signs shall be the same size.

- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA trains, 2) Messages for Metra trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.

- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.

- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered “up,” “left,” “right,” and “down/behind.”

- When all bus stops and/or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.

- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.

- Access symbols (elevator, stairs, etc.) are typically placed above the directional text to the right of the transit mode symbol.

- DSS signs must not be placed in locations that are inappropriate.

- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.
SECTION D3
Directional Street Signs

Sign Type DSS-1

Mounting Heights

Description

Typical Mounting Heights for DSS-1 Sign Type

All locations shall be examined on site to determine the final mounting height.

Elevation - Sign Type DSS-1 Mounting Heights

Scale: 1/4" = 1'-0"

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract drivers or cyclists.
**SECTION D3**  
**Directional Street Signs**

### Sign Type DSS-1.1

#### General Information

**General**  
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.5 for Design and Layout Notes.

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**Aluminum Sign Panel**  
The sign substrate is a .080" thick solid aluminum panel.

**Background**  
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

**Printed Graphics**  
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

**Holes for Mounting Hardware**  
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

**Mounting Brackets**  
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA ‘L’ line symbols with line names.

Elevation - Sign Type DSS-1.1 – CTA Train Message Layouts
Scale: 3" = 1'-0"
Section D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, square CTA ‘L’ line symbols

Elevation - Sign Type DSS-1.1 – CTA Train Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Elevation - Sign Type DSS-1.1 – CTA Train Message Layouts

Scale: 3" = 1'-0"

Multiple arrows, square CTA ‘L’ line symbols
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or more messages

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Two arrows, each with one message

Elevation - Sign Type DSS-1.1 – Metra Trains / General Text Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Elevation - Sign Type DSS-1.1 – Bus Message Layouts
Scale: 3" = 1'-0"

One arrow, bus boarding area symbols
SECTION D3
Directional Street Signs

Sign Type DSS-1.1

Graphic Layout Example

Multiple arrows, multiple bus boarding area symbols

1 Elevation - Sign Type DSS-1.1 – Bus Message Layouts
Scale: 3" = 1'-0"

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.
SECTION D3
Directional Street Signs

Sign Type DSS-1.2

General Information

**Elevation - Sign Type DSS-1.2 – Side Mounting**

**Elevation - Sign Type DSS-1.2 – Center Mounting**

**Description**

**General**

Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.5 for Design and Layout Notes.

**Aluminum Sign Panel**

The sign substrate is a .080” thick solid aluminum panel.

**Background**

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

**Printed Graphics**

The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

**Holes for Mounting Hardware**

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

**Mounting Brackets**

DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs

Sign Type DSS-1.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA ‘L’ line symbols with line names.
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, multiple square CTA ‘L’ line symbols.

**Elevation - Sign Type DSS-1.2 – CTA Train Message Layouts**

Scale: 3” = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Two or more arrows, multiple square CTA ‘L’ line symbols.

Elevation - Sign Type DSS-1.2 – CTA Train Message Layouts
Scale: 3” = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or multiple messages. For Metra directionals, use this layout when there is one or more station in the same direction.

1 Elevation - Sign Type DSS-1.2 – Metra Train / General Text Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages.
For Metra directionals, use this layout when there is more than one station in multiple directions.

1 Elevation - Sign Type DSS-1.2 - Metra Train / General Text Message Layouts
Scale: 3\(^\circ\) = 1'-0"
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols symbols.

**Elevation - Sign Type DSS-1.2 – Bus Message Layouts**

Scale: 3" = 1'-0"
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple bus boarding area symbols symbols.

Elevation - Sign Type DSS-1.2 – Bus Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.3

General Information

Description

General
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.5 for Design and Layout Notes.

1 Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

2 Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4 Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5 Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs
Sign Type DSS-1.3
Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Typ.</th>
<th>Symbol</th>
<th>Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CTA Trains</td>
<td>(CTA Train Line Symbol)</td>
<td>CTA Trains</td>
<td>(CTA Train Line Symbol)</td>
</tr>
</tbody>
</table>

Use dividing line to separate message groups.

One arrow, CTA ‘L’ line symbols with line names.

**Elevation - Sign Type DSS-1.3 – CTA Train Message Layouts**

Scale: 3” = 1'-0"
SECTION D3
Directional Street Signs
Sign Type DSS-1.3

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Elevation - Sign Type DSS-1.3 – CTA Train Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.3

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple square CTA ‘L’ line symbols.

1 Elevation - Sign Type DSS-1.3 – CTA Train Message Layouts
Scale: 3" = 1'-0"

(New Message Group)
SECTION D3
Directional Street Signs

Sign Type DSS-1.3

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or multiple messages.
For Metra directionals, use this layout when there is one or more station in the same direction.
D3.28

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages.
For Metra directionals, use this layout when there is more than one station in multiple directions.

Elevation - Sign Type DSS-1.3 – Metra Train / General Text Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-1.3

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols symbols.

Elevation - Sign Type DSS-1.3 – Bus Message Layouts
Scale: 3" = 1'-0"
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, boarding area symbols.

**Elevation - Sign Type DSS-1.3 – Bus Message Layouts**

Scale: 3" = 1'-0"
SECTION D3  
Directional Street Signs  
Sign Type DSS-1.3  
Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Note: Use this layout only if there is not enough room on the sign panel to use a layout with text.

One or more arrows, bus boarding area symbols symbols.

Elevation - Sign Type DSS-1.3 – Bus Message Layouts
Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-3

Design and Layout Notes

General Design and Layout Information – DSS Signs

- DSS sign size shall be coordinated with site requirements and message content. Generally, DSS-3 shall be used unless its size is not appropriate for the conditions at the installation site and a smaller sign is needed, or the message content requires a larger sign be used. Select DSS-3.1 or DSS-3.2 based on the quantity of information to be displayed. Sign type DSS-3.4 is used only as a primary site identification sign. When more than one DSS sign appears at a single location, all the signs shall be the same size.

- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.

- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.

- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered “up,” “left,” “right”, and “down/behind.”

- When all bus stops and / or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols.

- Access symbols (elevator, stairs, etc.) are typically placed above the directional text to the right of the transit mode symbol.

- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.
SECTION D3
Directional Street Signs

Sign Type DSS-3

Mounting Heights

**Description**

**Typical Mounting Heights for DSS-3 and BS-1 Sign Types**

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract drivers or cyclists. All locations shall be examined on site to determine the final mounting height.

When adding a DSS-3 or second BS-1 to a location with sign type BB and BS-1 already mounted to an SRSP sign post, mount all the DSS and BS sign panels at the same height.
SECTION D3
Directional Street Signs

Sign Type DSS-3.1

General Information

Description

1 Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

2 Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double-sided panels shall have the printed film applied to both sides of the panel. Single-sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4 Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5 Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.

Elevation - Sign Type DSS-3.1 - Side Mounting
Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:
For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.

See page D3.32 for Design and Layout Notes.
SECTION D3
Directional Street Signs

Sign Type DSS-3.2

General Information

Description

General
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.32 for Design and Layout Notes.

1 Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

2 Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4 Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5 Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs

Sign Type DSS-3.4

General Information

Description

General
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.32 for Design and Layout Notes.

Aluminum Sign Panel
The sign substrate is a .080” thick solid aluminum panel.

Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
**SECTION D3**

**Directional Street Signs**

**Sign Type DSS-5**

**Design and Layout Notes**

- **Elevation - Sign Type DSS-5.1**
  - Scale: 1 1/2" = 1'-0"
  - CTA Trains
  - Metra Van Buren St Station

- **Elevation - Sign Type DSS-5.2**
  - Scale: 1 1/2" = 1'-0"
  - Metra Rock Island District
  - Bus Stops

- **Elevation - Sign Type DSS-5.4**
  - Scale: 1 1/2" = 1'-0"
  - Metra Mayfair Station

**General Design and Layout Information – DSS Signs**

- **DSS sign size** shall be coordinated with site requirements and message content. Generally, DSS-5 shall be used where the message content requires a sign larger than DSS-3, and the DSS-5 is appropriate for the conditions at the installation location. Select DSS-5.1 or DSS-5.2 based on the quantity of information to be displayed. Sign type DSS-5.4 is used only as a primary site identification sign. When more than one DSS sign appears at a single location, all the signs shall be the same size.

- **Messages are typically ordered** as per the following general message hierarchy: 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

  - When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.

  - If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.

  - On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered “up”, “left”, “right”, and “down/behind”.

  - When all bus stops and/or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

  - If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.

  - If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.

  - Access symbols (elevator, stairs, etc.) are typically placed above the text to the right of the transit mode symbol.

  - DSS signs must not be placed in locations that are inappropriate.

  - DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.
SECTION D3  
Directional Street Signs

Sign Type DSS-5

Mounting Heights

When adding a DSS-5 or second BS-2 to a location with sign type BB and BS-2 already mounted to an SRSP sign post, mount all the DSS and BS sign panels at the same height.

**Elevation - Sign Type DSS-5 Mounting Heights**

Scale: 1/4” = 1’-0”

**Description**

**Typical Mounting Heights for DSS-5 and BS-2 Sign Types**

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract drivers or cyclists. All locations shall be examined on site to determine the final mounting height.
SECTION D3
Directional Street Signs

Sign Type DSS-5.1

General Information

1. **Elevation - Sign Type DSS-5.1 – Side Mounting**
   - Scale: 1 1/2" = 1'-0"

   **Sign Post and Sign Mounting Information:**
   - For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

   For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.

   **Description**
   - **General**
     - Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

     Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

     See page D3.37 for Design and Layout Notes.

2. **Elevation - Sign Type DSS-5.1 – Center Mounting**
   - Scale: 1 1/2" = 1'-0"

   **1. Aluminum Sign Panel**
   - The sign substrate is a .080" thick solid aluminum panel.

   **2. Background**
   - The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double-sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

   **3. Printed Graphics**
   - The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

   **4. Holes for Mounting Hardware**
   - Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

   **5. Mounting Brackets**
   - DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs

Sign Type DSS-5.2

General Information

**Description**

**General**
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.37 for Design and Layout Notes.

1. **Aluminum Sign Panel**
The sign substrate is a .080" thick solid aluminum panel.

2. **Background**
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3. **Printed Graphics**
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4. **Holes for Mounting Hardware**
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5. **Mounting Brackets**
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.

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**Elevation - Sign Type DSS-5.2 – Side Mounting**

Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:
For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.

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**Elevation - Sign Type DSS-5.2 – Center Mounting**

Scale: 1 1/2" = 1'-0"
SECTION D3
Directional Street Signs

Sign Type DSS-5.4

General Information

Description

General
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.37 for Design and Layout Notes.

1 Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

2 Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

4 Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5 Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D3
Directional Street Signs

Sign Types DSS-3.1 and 5.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA ‘L’ line symbols with line names.

Elevation - Sign Types DSS-3.1 and 5.1 - CTA Train Message Layouts

Scale: 3" = 1'-0"
Section D3
Directional Street Signs

Sign Types DSS-3.1 and 5.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

CTA Trains

One arrow, multiple square CTA ‘L’ line symbols

Elevation - Sign Types DSS-3.1 and 5.1 - CTA Train Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Types DSS-3.1 and 5.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, square CTA ‘L’ line symbols

1 Elevation - Sign Types DSS-3.1 and 5.1 – CTA Train Message Layouts
Scale: 3" = 1'-0"
**SECTION D3**
Directional Street Signs

**Sign Types DSS-3.1 and 5.1**

**Graphic Layout Example**

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

---

**Elevation - Sign Types DSS-3.1 and 5.1 – Metra Train / General Text Message Layouts**

Scale: 3" = 1'-0"

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One arrow, one or multiple messages.
For Metra directionals, use this layout when there is one or more station in the same direction.

Use dividing line to separate message groups.
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages. For Metra directionals, use this layout when there is more than one station in multiple directions.

Elevation - Sign Types DSS-3.1 and 5.1 – Metra Train / General Text Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Types DSS-3.1 and 5.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, multiple bus boarding area symbols

1 Elevation - Sign Types DSS-3.1 and 5.1 - Bus Message Layouts
Scale: 3" = 1'-0"
Section D3
Directional Street Signs

Sign Types DSS-3.1 and 5.1

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Elevation - Sign Types DSS-3.1 and 5.1 – Bus Message Layouts

Multiple arrows, multiple bus boarding area symbols

1

Elevation - Sign Types DSS-3.1 and 5.1 – Bus Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA ‘L’ line symbols with line names.

**Elevation - Sign Types DSS-3.2 and 5.2 - CTA Train Message Layouts**

Scale: 3" = 1'-0"

1

**CTA Trains**

(CTA Train Line Symbol)

(CTA Train Line Symbol)

(New Message Group)
SECTION D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Elevation - Sign Types DSS-3.2 and 5.2 – CTA Train Message Layouts

Scale: 3" = 1'-0"

One arrow, square CTA 'L' line symbols
Section D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple square CTA ‘L’ line symbols.

1 Elevation - Sign Types DSS-3.2 and 5.2 – CTA Train Message Layouts
Scale: 3” = 1'-0"
SECTION D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or multiple messages.
For Metra directionals, use this layout when there is one or more stations in the same direction.

Elevation - Sign Types DSS-3.2 and 5.2 – Metra Train / General Text Message Layouts

Scale: 3" = 1'-0"

(DSS-3 sign panels (shown), 2'-6" - DSS-5 sign panels)

(New Message Group)

Use dividing line to separate message groups.
**SECTION D3**  
**Directional Street Signs**

**Sign Types DSS-3.2 and 5.2**

**Graphic Layout Example**

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages.
For Metra directionals, use this layout when there is more than one station in multiple directions.

---

**Elevation - Sign Types DSS-3.2 and 5.2 - Metra Train / General Text Message Layouts**

*Scale: 3" = 1'-0'*
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols.

Elevation - Sign Types DSS-3.2 and 5.2 - Bus Message Layouts

Scale: 3" = 1'-0"
SECTION D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple bus boarding area symbols.

Elevation - Sign Types DSS-3.2 and 5.2 - Bus Message Layouts

Scale: 3" = 1'-0"

1

RTA Interagency Signage Standards Manual

Date: 08.29.14
Revised: 07.22.16

Section D3

D3.55
SECTION D3
Directional Street Signs

Sign Types DSS-3.2 and 5.2

Graphic Layout Example

Note: Use this layout only if there is not enough room on the sign panel to use a layout with text.

One or more arrows, bus boarding area symbols symbols.

Elevation - Sign Types DSS-3.2 and 5.2 – Bus Message Layouts

Scale: \(3^\prime = 1^\prime-0^\prime\)
Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

No arrow, one message
Use this layout only for primary site identification.

Elevation - Sign Types DSS-3.4 and 5.4 – Metra Train / General Text Message Layouts

Scale: 3" = 1'-0"
**SECTION D3**

**Directional Street Signs**

**Sign Type DSS-7**

**General Design and Layout Information - DSS Signs**

- **DSS-7** is a custom sized sign panel for use in specific locations where the site conditions and / or message requirements prohibit the use of a standard sized DSS-1, DSS-3 or DSS-5 panel. DSS-7 sign panel size shall be coordinated with site requirements and message content. When more than one DSS sign appears at a single location, all the signs shall be the same size.

- Typically, sign face layouts for sign type DSS-7 shall be developed using the layout standards specified for sign types DSS-1, DSS-3, or DSS-5 (whichever is most appropriate). If directed to do so by the RTA, develop a custom sign face layout in order to meet unique site or message requirements.

- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.

- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.

- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered “up”, “left”, “right”, and “down/behind”.

- When all bus stops and / or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.

- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.

- Access symbols (elevator, stairs, etc.) are typically placed above the text to the right of the transit mode symbol.

- DSS signs must not be placed in locations that are inappropriate.

- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.
SECTION D3
Directional Street Signs

Sign Type DSS-7

General Information

Description

General
Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.58 for Design and Layout Notes.

Aluminum Sign Panel
The sign substrate is a .080" thick solid aluminum panel.

Background
The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

Printed Graphics
The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics.

Holes for Mounting Hardware
Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

Mounting Brackets
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions to be used at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.
SECTION D4
Structures for Wall Signs

Section Introduction

Description

General
Section D4 general reference.
**Section D4: Structures for Wall Signs**

**Structure Overview**

**Description**

**General**

The SFD sign structure supports sign type DSW directional sign panels.
**Description**

**General**
The SFD sign structure supports DSW sign panels. The width of the SFD structure will vary to coordinate with the size of the DSW sign panels.

To coordinate with site conditions and to maintain design intent, sign fabrication and mounting as outlined in these Guidelines may need to be revised.

See the Technical Specifications for additional information and requirements.
SECTION D4
Structures for Wall Signs

Elevation - SFD Sign Structure

For Sign Face Layout Information:
See Section D1 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW.

Description

General
The SFD sign frames are ground mounted, freestanding, sign support structures fabricated from aluminum. Sign type DSW-1 sign panels are mounted to the SFD structures.

1 Aluminum Reveal Panel
Painted aluminum reveal panels support the removable sign panels. The reveal panels are safely, securely, properly, and permanently mounted to the sign’s internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign panels. Coordinate the size and location of the openings in the reveal panels with the sign panel mounting clips so that the clips properly engage with the reveal panels and so that the sign panels are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign panels and the side bars.

2 DSW Series Sign Panels
Sign type DSW-1 sign panels shall be mounted to both sides of the SFD frame with concealed hardware. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the DSW sign panels for maintenance, repairs, and updates.

3 Aluminum Legs
Provide painted aluminum legs to properly, safely, and securely support the SFD structure and the sign types mounted to it. The tops of the legs shall be closed with flush aluminum caps. All welded frame joints shall be carefully ground smooth and painted for a seamless appearance and continuous finish.

4 Internal Framing
Provide internal framing and bracing as needed for the sign type SFD to be rigid and structurally sound and to properly, safely, and securely support the sign types mounted to the SFD frame. Internal framing shall not be visible when the DSW sign panels are in position.

5 Removable Top Bar
Removable painted aluminum bar locks the DSW panels in position. The bar shall be secured using flush, vandal-resistant, corrosion-resistant, set screws.

6 Structure Mounting
Provide all mounting hardware and materials as needed to properly and securely mount the SFD sign structure. Coordinate the fabrication of the aluminum legs with the structure mounting and site conditions. See page D4.5 for additional information.

Associated Structure Mounting Information:
For information on mounting the SFD sign structure, see page D4.5 for additional information.
Section D4
Structures for Wall Signs

SMFD Structure Mounting

Description

General
Structure mounting SMFD is for ground mounting the SFD sign structure.

1. Aluminum Legs From SFD Sign Structure
Coordinate the fabrication of the SFD sign structure with the SMFD sign mounting and foundation as needed to maintain the correct overall sign structure height and to not exceed the maximum distance from the ground to the bottom of the sign. Coordinate the SMFD structure mounting with the site conditions and the materials, finishes, and construction of the SFD aluminum legs as required. Prior to fabrication, inform the RTA of any conditions or locations that would cause the maximum distance from the ground to the bottom of the sign to be exceeded. The fabrication of the sign SFD sign structure may need to be revised to coordinate with the site conditions and to keep the distance from the ground to any point along the bottom of the sign at 2'-3" or less.

2. SFD Mounting Flanges
Provide an aluminum mounting flange for each of the legs of the sign structure. Weld the mounting flanges to the bases of the aluminum legs. All welded frame joins shall be carefully ground smooth and finished as needed for a seamless appearance and continuous finish. Size the mounting flanges as required to properly, safely, and securely support the entire sign.

3. Existing Floor / Pavement or New Concrete Foundations (if required)
If required, provide new, professionally engineered concrete foundations. Coordinate the size and type of foundations with the sign structure and with the existing conditions at each installation location. Coordinate the foundation with the required anchor bolts and mounting hardware as required to properly, safely, and securely anchor the entire sign. Verify on site the conditions at each installation location. At all locations, carefully finish exposed portions of the foundations to provide a neat, smooth, and finished appearance. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

4. Anchor Bolts & Mounting Hardware
Provide all anchor bolts and mounting hardware as needed to properly, safely, and securely mount the entire sign. Coordinate the anchor bolts and mounting hardware with the mounting surface and site conditions as required. Install signs plumb and level. Provide appropriate systems and set ups to accommodate uneven surfaces at installation locations. Provide leveling hardware as required. Secure the sign structure to the anchor bolts with appropriate locking nuts. Provide appropriate stainless steel acorn-type cap nuts, or similar finished stainless steel cap nuts accepted by the RTA, to finish the tops of the anchor bolts. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

5. Non-shrink Grout
Provide appropriate non-shrink grout to fill the space between the flanges and the tops of the foundations or finished floor / pavement as required.
The RTA engaged Centralis to conduct field-based user testing at two (Van Buren St and Davis St) of the four test locations for the Interagency Transit Passenger Information Design project. The goals of testing were to validate and help optimize final design and placement of signage based on several scenarios of transferring between different transit modes. A wide variety of participants were selected for the testing. The participants were asked how to navigate from one boarding location to another using the public transportation modes that were detailed on the interagency signage installed at the particular test location.

**Key Findings from Centralis’ Testing**

- Participants felt that the interagency signage reflected well on Chicago as a city that cares about citizens and tourists.
- Overall, both wayfinding signs and map groupings were noticed and understood, with participants finding their destination much more easily than in previous testing. The consistent design and colors of the signage was appreciated.
- People were reassured by consistent wayfinding signage at close intervals, and only struggled at a ‘decision point’ if there was not a sign in immediate view. Participants expect clearer, easier to locate signage when moving from inside to outside when transferring to a different transit mode. Participants expect clear signage visible whenever they are required to make a turn when transferring to a different transit mode.
- Wayfinding signs organized by mode of transit functioned well, although sometimes they did not support awareness of the full range of choices within a mode of transit.
- Arrows and message dividing lines on directional signs proved to be confusing to some participants. The correct directional arrow was not always related to its correct directional message.
- While wayfinding signs provided information for those with limited mobility, it was sometimes overlooked because it was not connected closely enough to modes of transit. Certain map and schedule signs were place too high for participants in wheelchairs to read all of the information on the sign. The type on some maps and schedules was too small for participants to easily read.
- Participants were less familiar with Metra conventions, and many felt that they would need additional signage to identify the correct platform for their direction of travel. Map signage should be placed adjacent to monitors.
- Most participants easily determined which map of a map grouping would be most useful for them, but had difficulty determining their current location on a chosen map due to the lack of a “you are here” indicator. Certain participants relied on wayfinding signage rather than maps to find their mode of transit, and others used the opposite approach. This results in maps being required at both the arrival and departure points. Train line maps should be orientated with north at the top. Multiple Metra train lines presented on a single map should be shown as separate routes. Add tourist destinations to maps.
- Participants continually missed references to bus boarding areas because they did not anticipate this convention and current signage did not emphasize it strongly enough.

**Conclusion**

As RTA’s interagency signage and wayfinding program is expanded to new locations, the results from the user tests should be considered as new signs and graphics are developed and located.
SECTION E1
Appendix 2

CTA Sign Mounting Bracket
CTA Item No. 2100361

Drawing shown for reference only.

Not to scale.

EXHIBIT D
CTA Sign Post
CTA Item No. (See Table)

Drawing shown for reference only.

Not to scale.

Material:
- #2-5/8" x 11 GA. (0.120)
- HOT ROLLED, ELECTRICAL RESISTANCE WELDED (ERW), LOW CARBON STEEL
- MECHANICAL TUBING
- ASTM A 513, TYPE 1

Finish:
- CATHODIC ACRYLIC ELECTROCOAT
  (UV CORRECTED)
- COLOR: BLACK
- THICKNESS: 0.8 MIL (MIL)

Notes:
1) Holes may be punched or drilled. Holes depressions not to exceed 3/16", depressed area not to exceed 1-1/2" in length and 1" in width. Outside diameter not to exceed dimensions shown.
2) Top of signpost may be beveled or plain.
3) Remove all exterior & end burrs and sharp edges.
4) Dimensional & geometric tolerances typical for all types.
5) All opposing holes must be on tubing centerline, H-N-1 and perpendicular to datum -A-.
6) Work to dimensions. Do not scale drawing.

Appendix 4

EXHIBIT D

Date: 08.29.14
Revised: 07.22.16