

Appendix E
Division of Aviation Sign Standards



PHL PHILADELPHIA INTERNATIONAL AIRPORT

Sign Standards and Guidelines

December 2014



G R E S H A M
S M I T H A N D
P A R T N E R S

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INTRODUCTION

This Sign Standards and Guidelines manual is intended for use in the planning, implementation, and maintenance of a comprehensive interior signage standards program for Philadelphia International Airport (PHL).

Developed in conjunction with the Philadelphia International Airport Signage Upgrade Project (2012–2014), the Sign Standards and Guidelines manual is designed to help the airport staff maintain and extend the program as needed, while maintaining a consistent design, application, and content for signage.

This manual is divided into sections which address the different steps in the development of a sign project:

SECTION 1: WAYFINDING PROCESS contains a summary of the wayfinding approach and logic behind the current program, and includes circulation diagrams which illustrate the pathways taken by different types of passengers (departing, arriving, connecting etc.).

SECTION 2: GENERAL GUIDELINES contains guidance on establishing and maintaining a centralized control process for signage, visual hierarchy and establishment of viewing zones for signage, sign placement, message hierarchies, nomenclature, and sign lighting.

SECTION 3: GRAPHIC STANDARDS contains information on sign format and layout, typeface families, letter height and spacing, arrows, symbols, and color standards for signage.

SECTION 4: SIGN TYPES contains a quick reference overview for each of the sign families that make up the signage standards program, followed by drawings and information for each individual sign type explaining the intended use, location, mounting, materials, and lighting for each sign type.

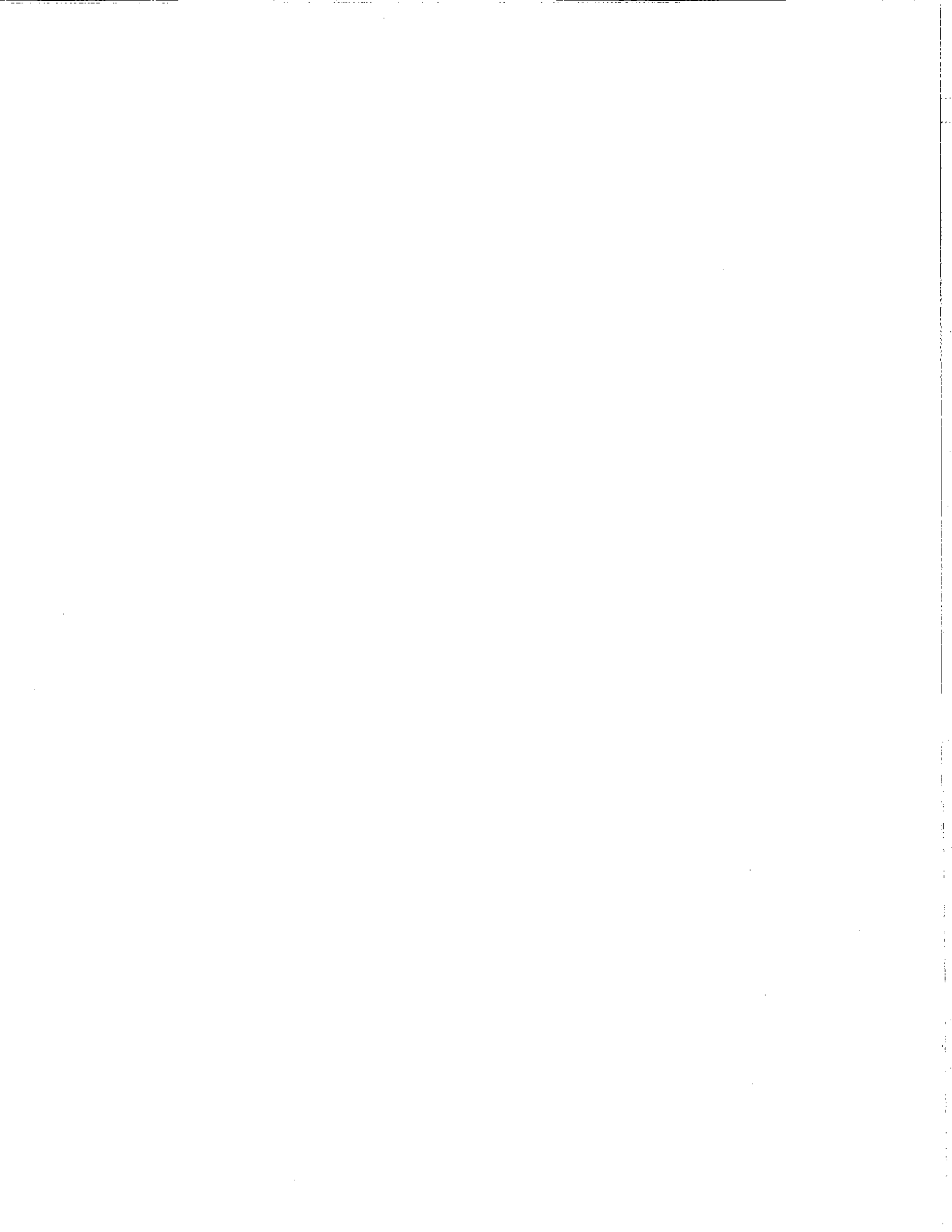
SECTION 5: TENANT SIGNAGE GUIDELINES is reserved for future use by the Division of Aviation.

SECTION 6: SIGN MANAGEMENT AND MAINTENANCE contains information on the sign program GIS inventory and numbering system, sign ownership and responsibility, maintenance procedures, and procedures for updating and modifying the sign program.

APPENDIX A: SHOP DRAWINGS (separate volume) includes the shop drawing submittals provided by the Signage Contractor for the 2012–2014 Signage Upgrade Project.

APPENDIX B: DRAFT SPECIFICATIONS (separate volume) includes a copy of the Section 10 1400 Signage Specifications as a reference for future implementation projects. Note: Information in the specifications that is specific to the Project (sign type list, prototypes, submittal requirements etc.) should be adjusted for each individual project.





SECTION 1:
WAYFINDING PROCESS

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



Wayfinding Process

OVERVIEW

Development of a successful signage and wayfinding plan requires a thorough understanding of a site's circulation and functional relationships. Steps in the process include **site and circulation analysis**, development of a **wayfinding approach and logic**, and identification of the **design drivers** that guide the development of a comprehensive airport signage program.

The Signage Upgrade Project began with a survey and inventory of existing public signage in the airport terminals, ticketing areas, baggage claims, curbsides, and platforms. Individual sign locations were recorded in a Geographic Information System (GIS)-based database for use in the Signage Upgrade Project, as well as for use as a long-term inventory and wayfinding management tool.

Circulation analysis—Once the survey and inventory was complete, the design team generated passenger flow diagrams and circulation plans, conducted field surveys and interviews, and developed analysis and recommendations to remedy wayfinding gaps and address non-linear and non-intuitive circulation scenarios.

Architectural factors affecting wayfinding (connectivity, sight lines, viewing distances, obstacles, detours, etc.) were identified. Curbsides and terminals were analyzed to identify physical opportunities, means and methods to display information to make those areas safer, less congested, and easier to navigate.

Sign lighting was evaluated in order to identify issues regarding visibility, maintenance and sustainability.

Existing airport signage was evaluated from both a design and implementation perspective, with specific attention to issues of consistency, color, message content and hierarchy, nomenclature, sign sizes and layouts, functionality, and maintenance.

Wayfinding approach refers to the guiding principles that provide a framework to address wayfinding issues in a systematic and consistent manner. **Wayfinding logic** refers to the relationship between an environment's physical layout and the circulation patterns followed by its users. Once identified, this relationship helps to define the pathways and decision points at which information should be communicated to the user. In developing a system that supports a logical decision-making process for the user, the wayfinding program should embody the principles of **continuity** (understanding the wayfinding sequence

and what information the user needs at what point), **connectivity** (understanding the physical space and relationships between destinations in order to determine optimal routing), and **consistency** (making sure that information is packaged and delivered in a way that allows users to "learn" and use the system quickly).

Circulation within and between airport terminals, ticketing areas, curbsides, platforms, and garages was documented and analyzed for the project, in order to establish the wayfinding approach and logic that guides the development of wayfinding locations and messages.

Design drivers are identified factors—requirements, constraints and opportunities—that inform the planning and design of a wayfinding signage program. For the creation of the new signage standards, the following design drivers were identified:

SIGN MESSAGING—Revise sign messages as needed to address issues of consistency, connectivity and continuity. Remedy non-linear and non-intuitive wayfinding scenarios. Standardize terminology and symbol usage.

SIGN PLACEMENT—Add or relocate signs as needed to address issues of continuity and sign visibility.

SIGN LIGHTING—Revise external sign lighting for terminal directionals to address issues of distribution, viewing angle, reflectivity and glare. Replace existing fluorescent sign lighting with new LED fixtures.

SIGN DESIGN—Revise signs to standardize:

- Message placement and layouts.
- Text and arrow size, position and spacing.
- Symbol use and placement.
- Maintenance of negative space.
- Use of lower sign band.
- Sign colors.

SIGN CONSTRUCTION—Design signage to be modular and easy to update.

For the PHL project, the decision was made to perpetuate selected design elements of the Terminal A West and Terminal F sign programs for all terminal and baggage claim areas, modified as needed for consistency. For curbside areas, a new standard was developed to replace the existing signage with new signs, keeping the existing blue/white color scheme.



Wayfinding Process

CIRCULATION ANALYSIS

This following pages contain diagrams and plans illustrating the analysis of pedestrian circulation within the airport site.

The diagrams depict the circulation sequences for departing, terminating, and connecting passengers, and for meeter-greeters. These diagrams were developed to show the functional, physical and spatial relationships between passenger origination points, circulation pathways, and destination points.

The plans that accompany each diagram show the current circulation pathways on each level for departing, terminating and connecting domestic and international passengers and meeter-greeters, from origination to destination. Wayfinding decision points are noted on the plans, along with the locations of other key elements that affect passenger circulation and wayfinding.

In cases where passenger circulation requires non-linear or non-intuitive paths of travel, these are described in the context of the overall wayfinding process.



Circulation: Departing Passengers

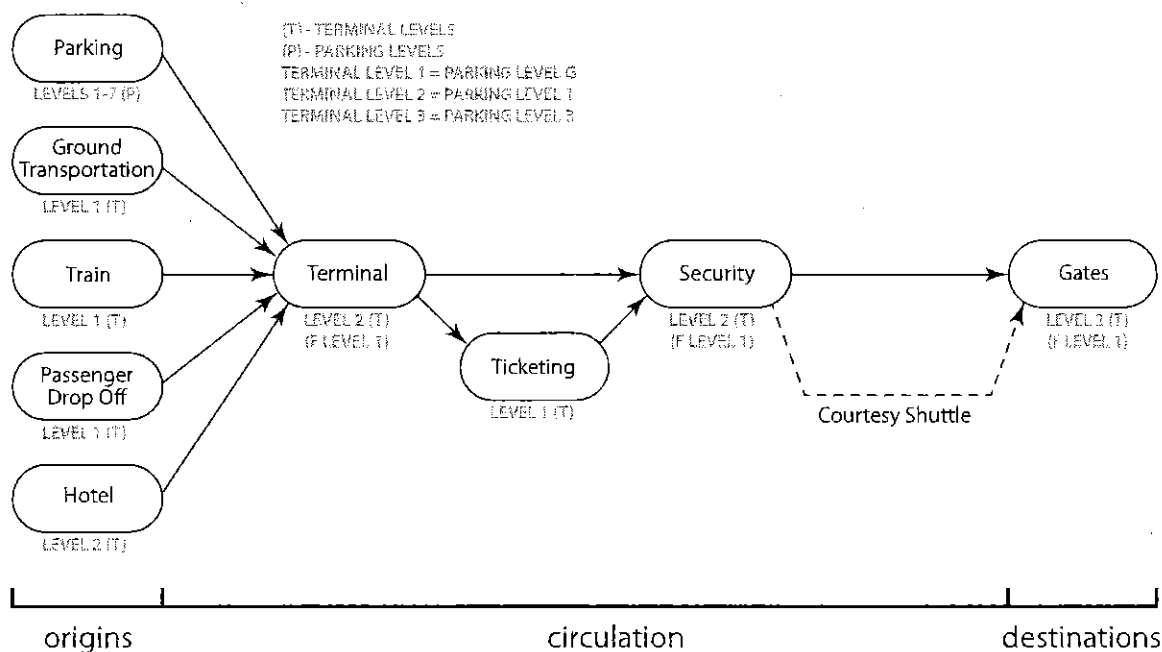


Fig. 1.1: Departing Passenger Circulation

Departing Passengers - Terminal Level 1 / Garage Level G

Departing passenger circulation on Terminal Level 1 (Garage Level G) consists primarily of passengers dropped off at the departures curbsides and entering the ticketing areas, as well as self-parking passengers entering the garages from the roadway and passengers arriving by train. For all passengers except those dropped off at the ticketing curbside, access to ticketing requires vertical circulation and navigating the bridges that connect the garages and train platforms to the main terminal buildings.

Sequence: Departures Curbside—Ticketing.

For passengers arriving at the departures curbside, the primary wayfinding information is the identification of each terminal and the airlines within. The new sign standards include prominent terminal identification signs attached to the airline identification signage along each curbside.

Sequence: Parking Garage—Ticketing.

The sequence for passengers parking in the garages is particularly challenging. The floor plates of garages A-B and D-E-F connect internally on upper levels (C is stand-

alone). All short term parking on level G is connected. Passengers parking on the upper levels need to take the correct elevator and bridge to access correct ticketing lobby for their departure airline. At A-B passengers must walk outside to reach other lobbies.

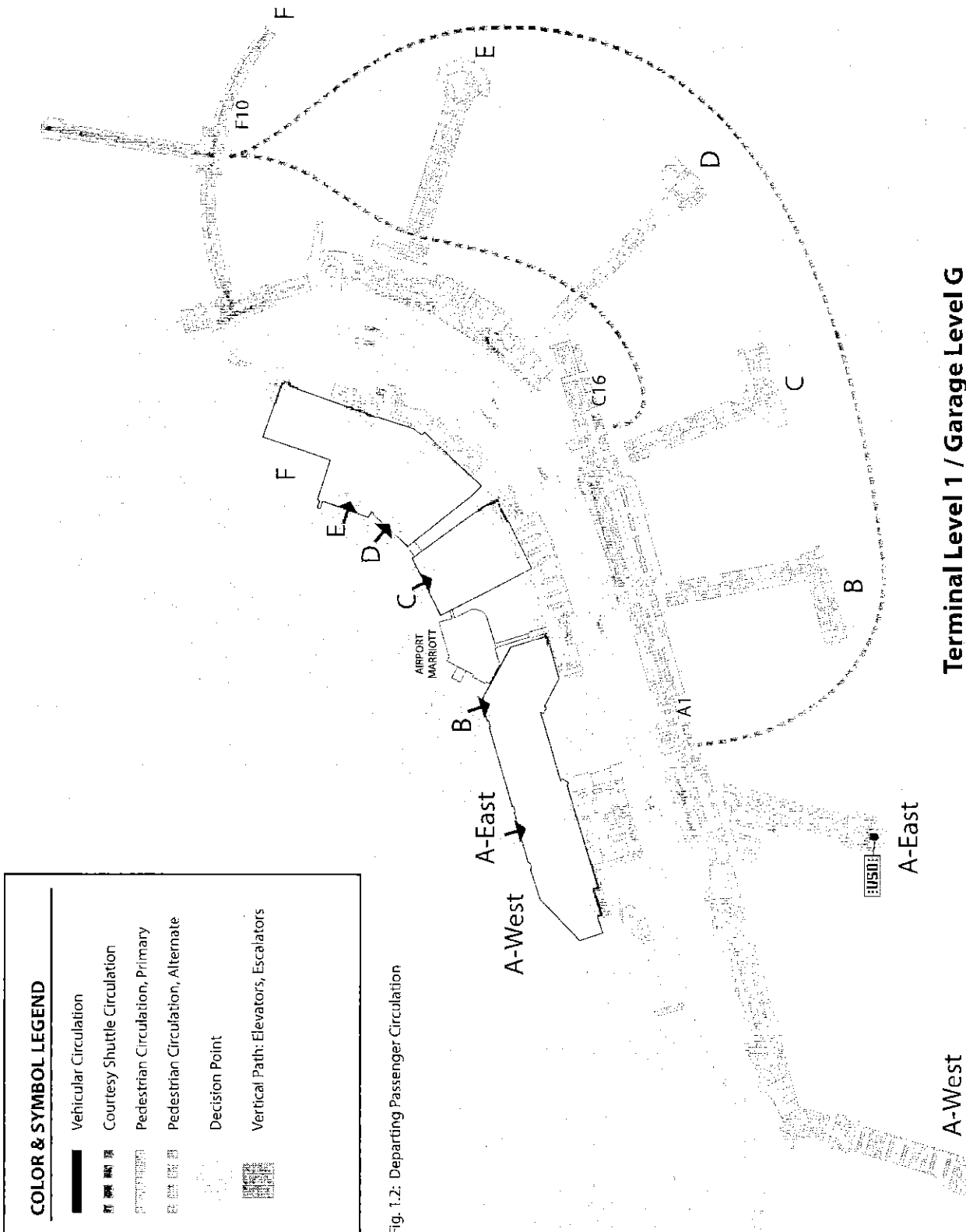
The new signage standards include signs to direct and orient pedestrians at garage elevators, in order to help them understand the wayfinding sequence and garage-terminal connectivity. Signs in the terminals and bridges also help passengers find their way back to the correct garage upon their return.

Sequence: Train Platforms—Ticketing.

Passengers arriving by train exit the platform by using the vertical circulation at each platform to access the bridges connecting the terminals to baggage claims and garages, where they will see signs directing to ticketing and gates. They may also walk across the road at grade to reach baggage claims and garages.



Circulation: Departing Passengers



Circulation: Departing Passengers

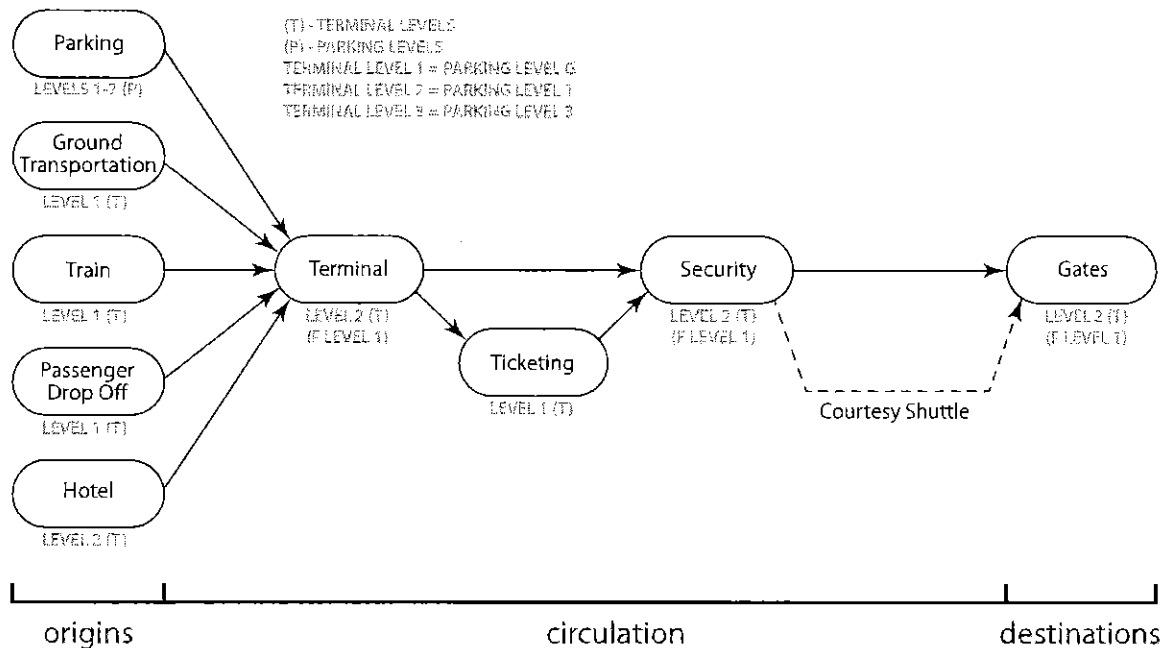


Fig. 1.3: Departing Passenger Circulation

Departing Passengers - Terminal Level 2 / Garage Level 1

Departing passenger circulation on Terminal Level 2 (Garage Level 1) includes the bridges connecting the garages and baggage claims to the terminals, the terminal security checkpoints, post-security inter-terminal connectors, and terminal gate concourses (except for Terminal F, which is on Level 1).

Sequence: Parking Garage—Terminals.

As noted, the sequence for passengers parking in the garages is particularly challenging. The floor plates of garages A-B and D-E-F connect internally on upper levels (C is stand-alone). Passengers parking on the upper levels need to take the correct elevator and bridge to access correct ticketing lobby for their departure airline. At A-B passengers must walk outside to reach other lobbies.

The new signage standards include signs to direct and orient pedestrians at garage elevators, in order to help them understand the wayfinding sequence, the garage-terminal level identification and connectivity, and the vertical circulation requirements.

Sequence: Terminal—Gates.

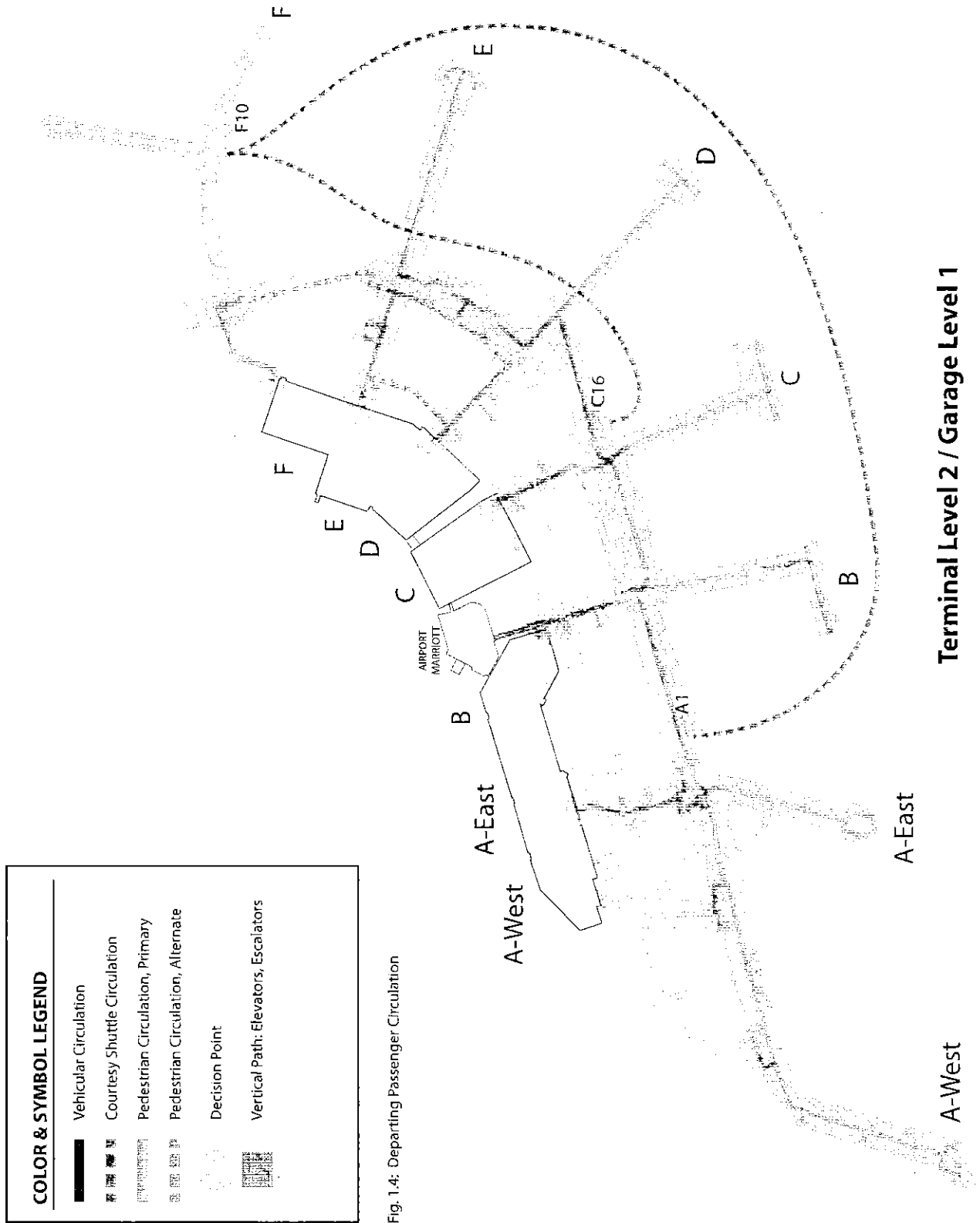
Upon arriving at each terminal, passengers encounter signs directing down to ticketing and to security checkpoints on Level 2. Post security, signs direct to gates by terminal (A, B, C, D, E, F), using the terminal identification icons developed for the new sign standards. Passengers are able to circulate between terminals on the secure side with the exception of Terminal F (note: a secure-side connection to Terminal F is planned for completion in 2015).

Passengers can also take inter-terminal shuttles between Terminals A and F and Terminals C and F. The sign standards include signs that prominently identify and direct passengers to the shuttle departure lounges.

Signs at entrances to concourses identify gate ranges, and as passengers move along concourses signs provide more detailed direction to individual gates as needed.



Circulation: Departing Passengers



COLOR & SYMBOL LEGEND

- Vehicular Circulation
- Courtesy Shuttle Circulation
- Pedestrian Circulation, Primary
- Pedestrian Circulation, Alternate
- Decision Point
- Vertical Path: Elevators, Escalators

Fig. 1.4: Departing Passenger Circulation

Circulation: Terminating Passengers, Domestic Arrivals

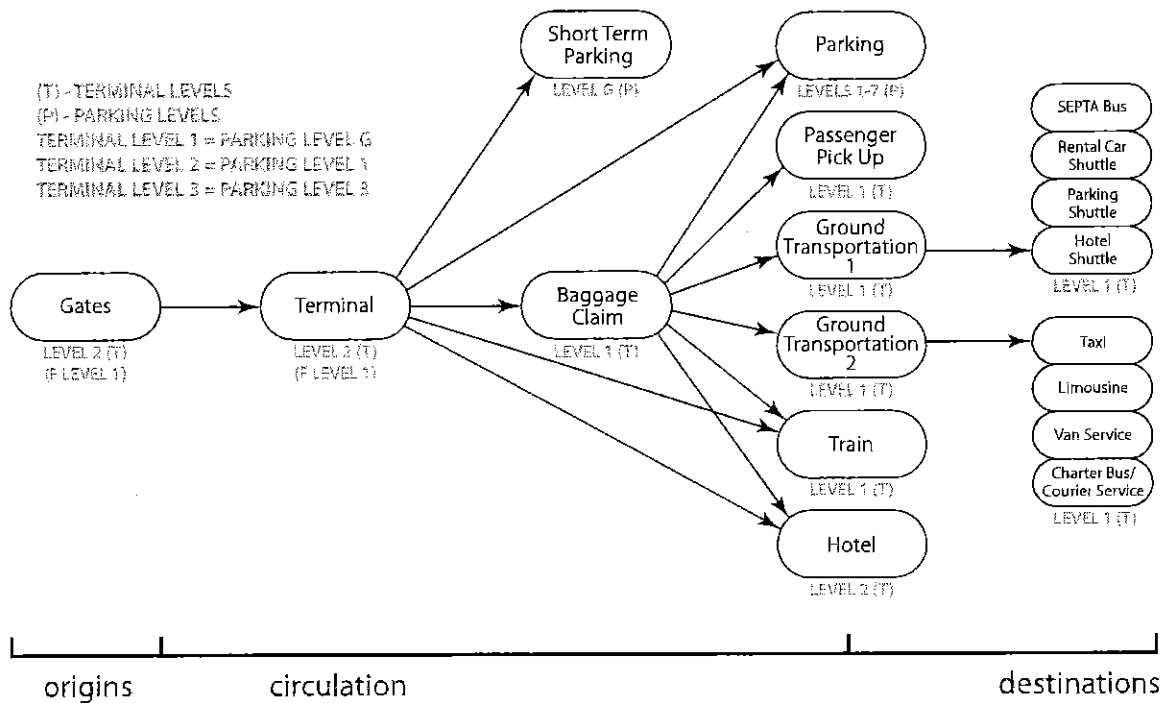


Fig. 1.5: Terminating Passenger Circulation: Domestic Arrivals

Terminating Domestic Passengers - Terminal Level 2 / Garage Level 1

Terminating domestic passenger circulation on Terminal Level 2 (Garage Level 1) consists primarily of passengers arriving at terminal gates (excepting Terminal F), exiting security, and proceeding across the bridges to the garages and the vertical circulation points for baggage claim and ground transportation.

Sequence: Arrival Gates—Center City Train, Baggage Claim, Ground Transportation.

Arriving passengers are directed from gates to the major destinations Baggage Claim and Ground Transportation. On Level 2 terminal signage directs passengers across the bridges (with separate direction for passenger traffic to the train platforms) and to the vertical circulation points for the baggage claims.

Sequence: Arrival Gates—Parking.

Arriving passengers who have parked in the garages will follow the same exit sequence as passengers going to baggage claim. Once on the bridges, self-park passengers will be directed to garages identified by their alpha-designation.

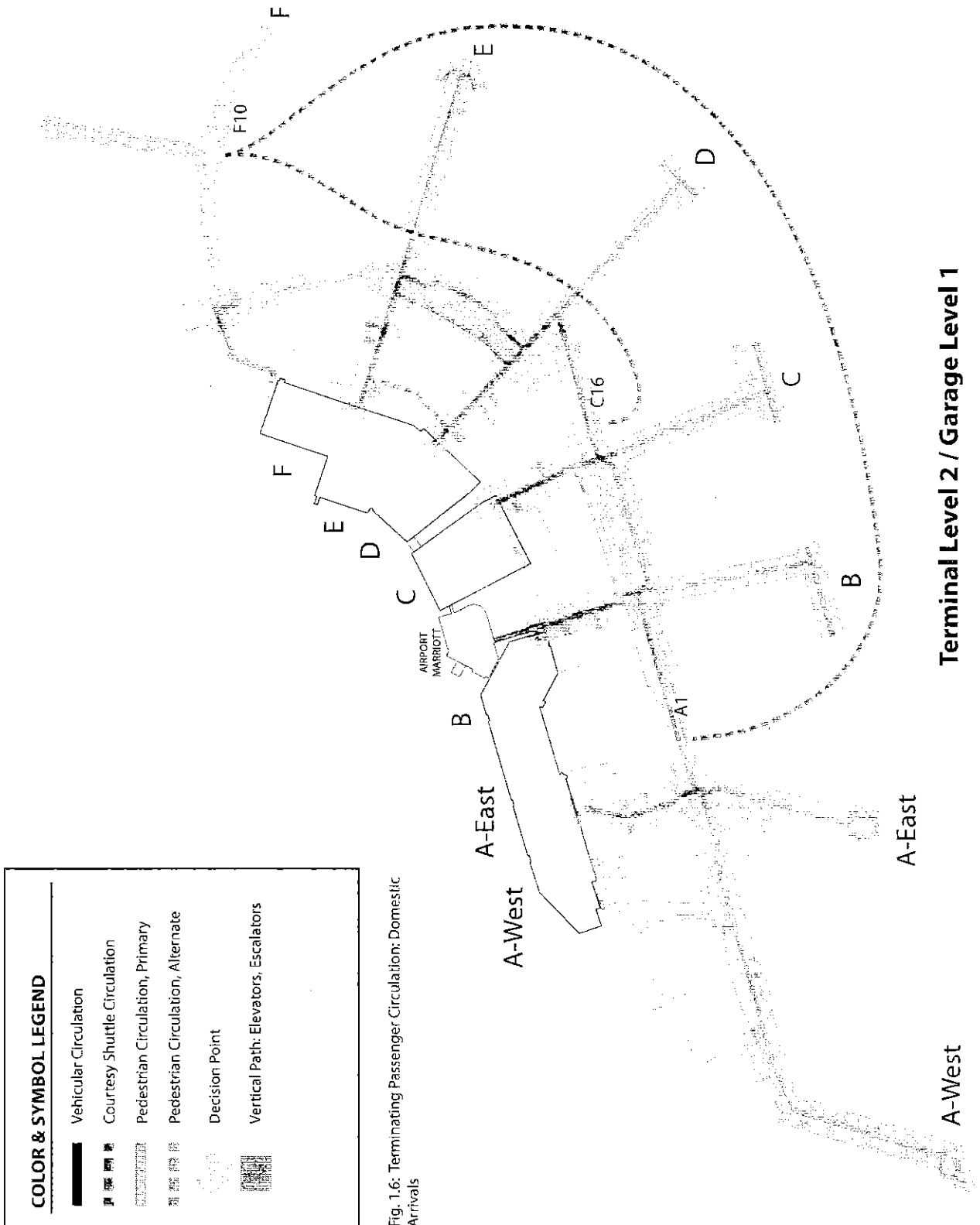
As noted, the sequence for passengers parking in the garages is particularly challenging. The floor plates of garages A-B and D-E-F connect internally on upper levels (C is stand-alone). The new signage standards include signs to direct and orient pedestrians at garage elevators, in order to help them understand the wayfinding sequence and the garage-terminal level identification and connectivity. Signs at the terminal bridges help passengers confirm that they are returning to the correct garage.

Sequence: Arrival Gates—Airport Marriott Hotel.

Once arriving passengers reach the circulation spine linking terminals on the secure side, they encounter directions to the Airport Marriott. These directions will take them to Terminal B and across the B bridge to the hotel entrance on Level 2. This is an important sequence for the convenience of passengers who do not have to go to baggage claim, since they can walk indoors.



Circulation: Terminating Passengers, Domestic Arrivals



COLOR & SYMBOL LEGEND







-  Vehicular Circulation
-  Courtesy Shuttle Circulation
-  Pedestrian Circulation, Primary
-  Pedestrian Circulation, Alternate
-  Decision Point
-  Vertical Path: Elevators, Escalators

Fig. 1.6: Terminating Passenger Circulation: Domestic Arrivals

Circulation: Terminating Passengers, Domestic Arrivals

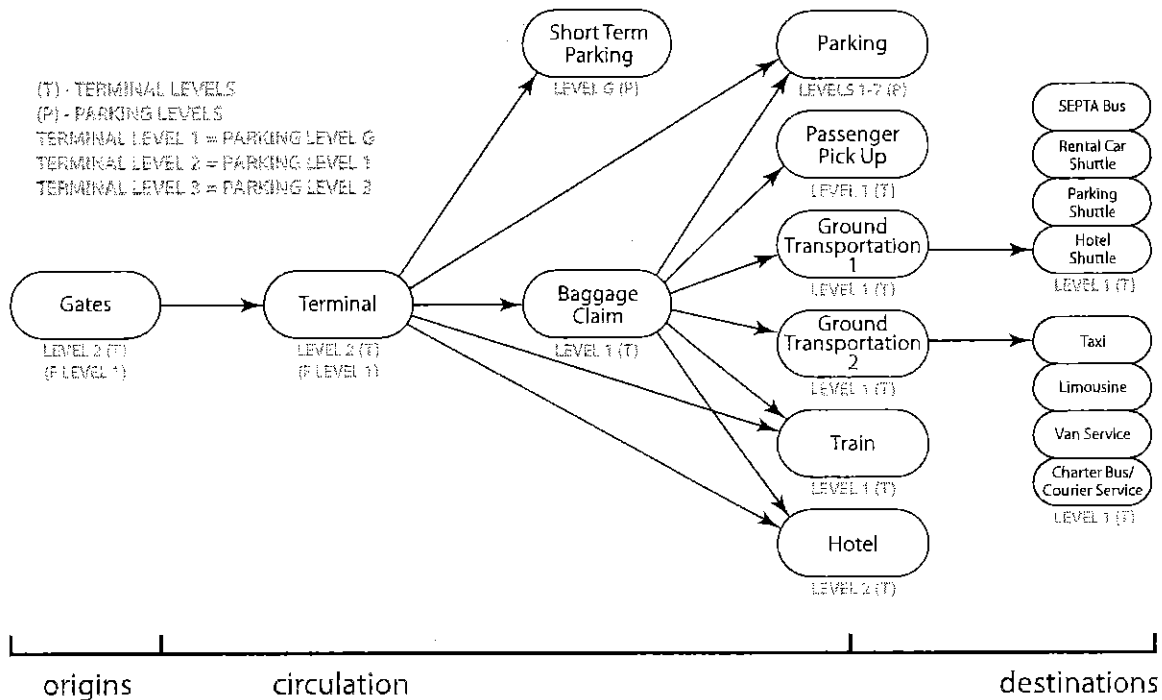


Fig. 1.7: Terminating Passenger Circulation: Domestic Arrivals

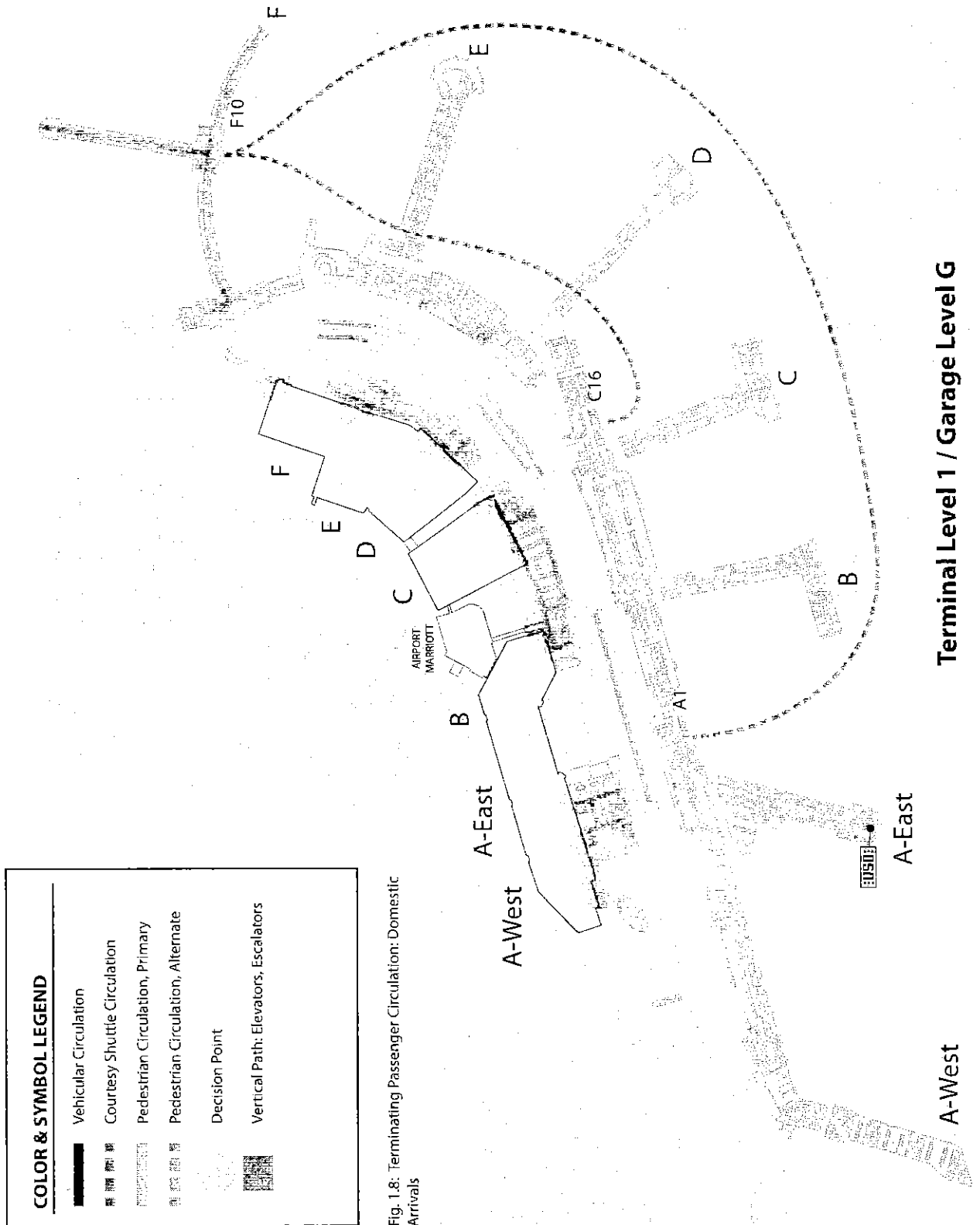
Terminating Domestic Passengers - Terminal Level 1 / Garage Level G

Once terminating domestic passengers arrive at baggage claims, they are directed to individual baggage carousels and to individual modes of ground transportation. Direction to different ground transportation categories occurs on overhead signs as well as signs above curbside exit doors; this reinforcement is important due to the separation of ground transportation options on both sides of the baggage claim buildings.

Private passenger pickup occurs on the outboard curbside, where passengers are directed to pickup points marked by large-scale signs that also serve as confirmation for private vehicles.

Pedestrian directional signs along the north-side baggage claim curbside direct exiting passengers to adjacent baggage claims, short term parking areas, and the Airport Marriott Hotel.

Circulation: Terminating Passengers, Domestic Arrivals



Circulation: Terminating Passengers, International Arrivals

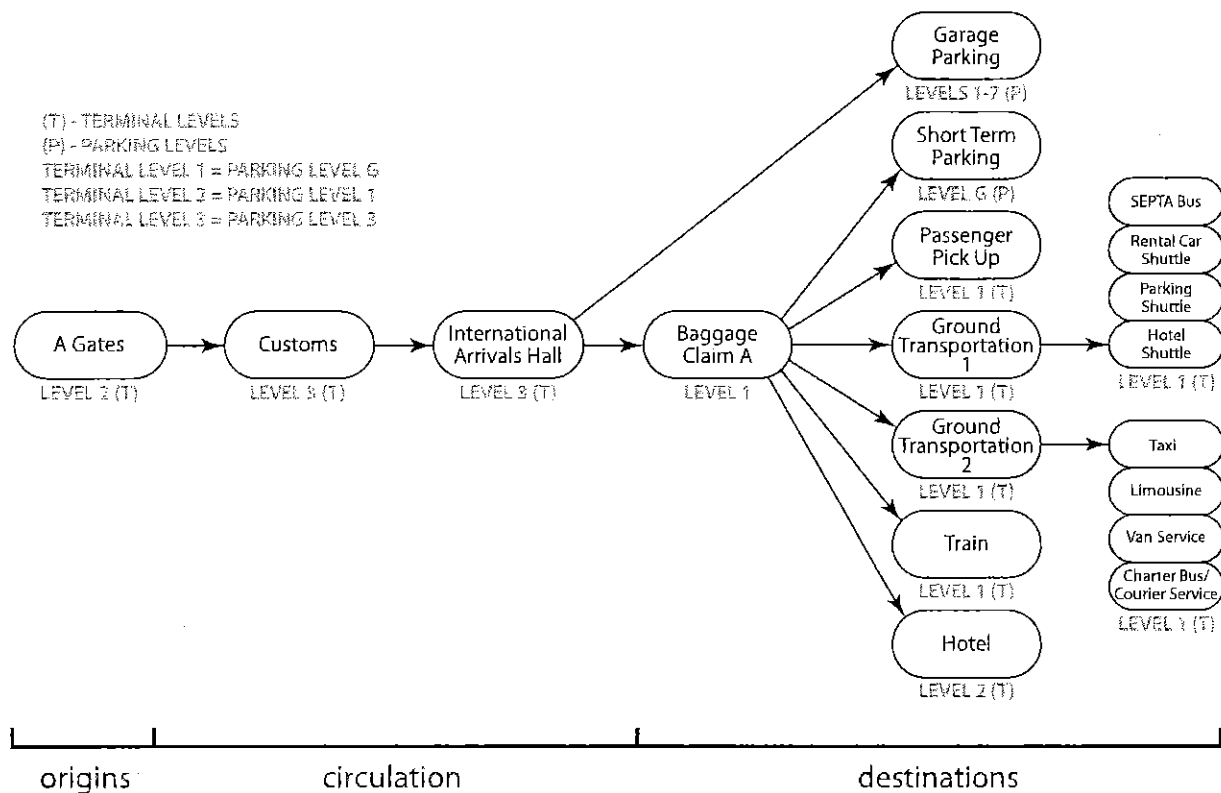


Fig. 1.9: Terminating Passenger Circulation: International Arrivals

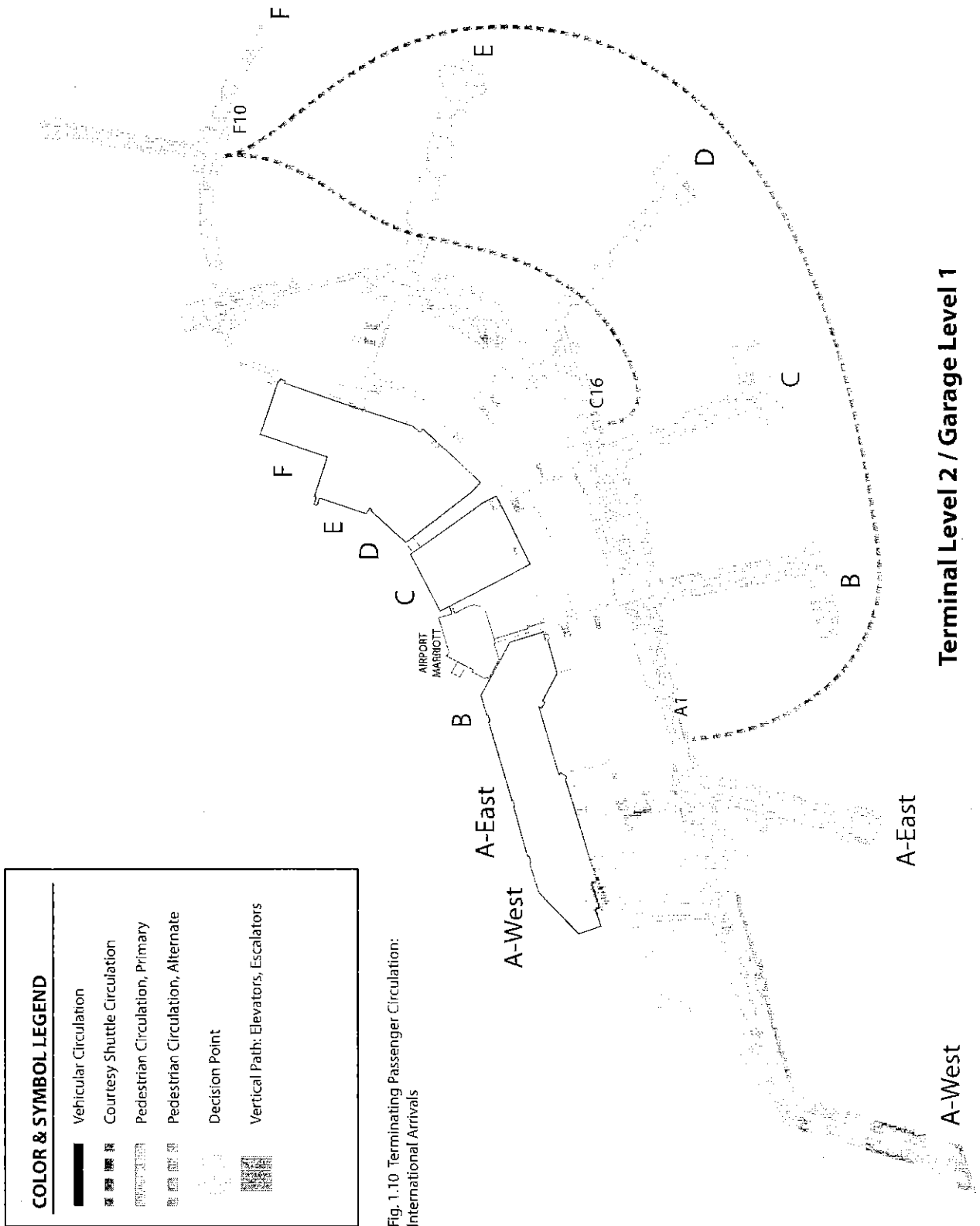
Terminating International Passengers - Terminal Level 2 / Garage Level 1

Arriving international passengers are directed to the vertical circulation leading to Customs.

On this level the circulation is restricted to the sterile area, and therefore does not require a high level of wayfinding. Directional signs are provided for reassurance, reinforcement and confirmation.



Circulation: Terminating Passengers, International Arrivals



Circulation: Terminating Passengers, International Arrivals:

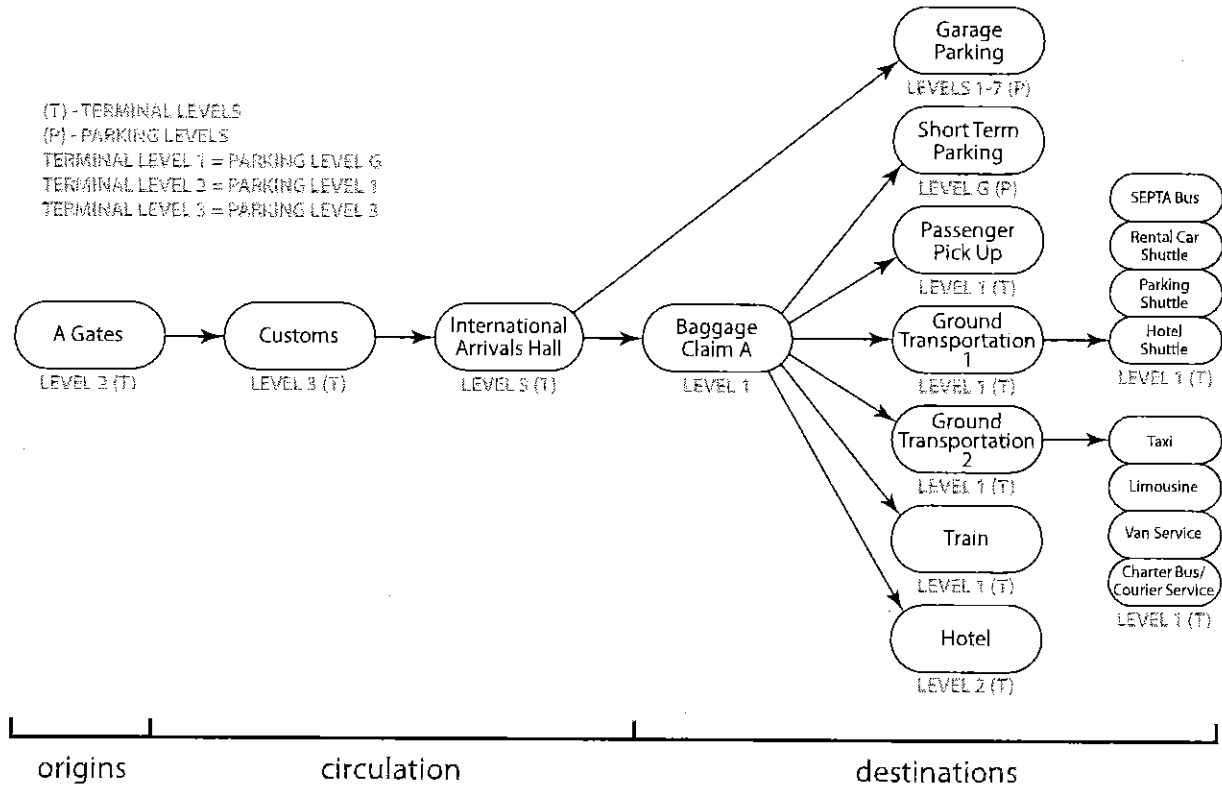








Fig. 1.11: Terminating Passenger Circulation: International Arrivals

Terminating International Passengers - Terminal Level 3 / Garage Level 3

From the Customs area, arriving international passengers are directed to the vertical circulation leading to Baggage Claim A, and to the A East garage.



Circulation: Terminating Passengers, International Arrivals

COLOR & SYMBOL LEGEND	
	Vehicular Circulation
	Courtesy Shuttle Circulation
	Pedestrian Circulation, Primary
	Pedestrian Circulation, Alternate
	Decision Point
	Vertical Path: Elevators, Escalators

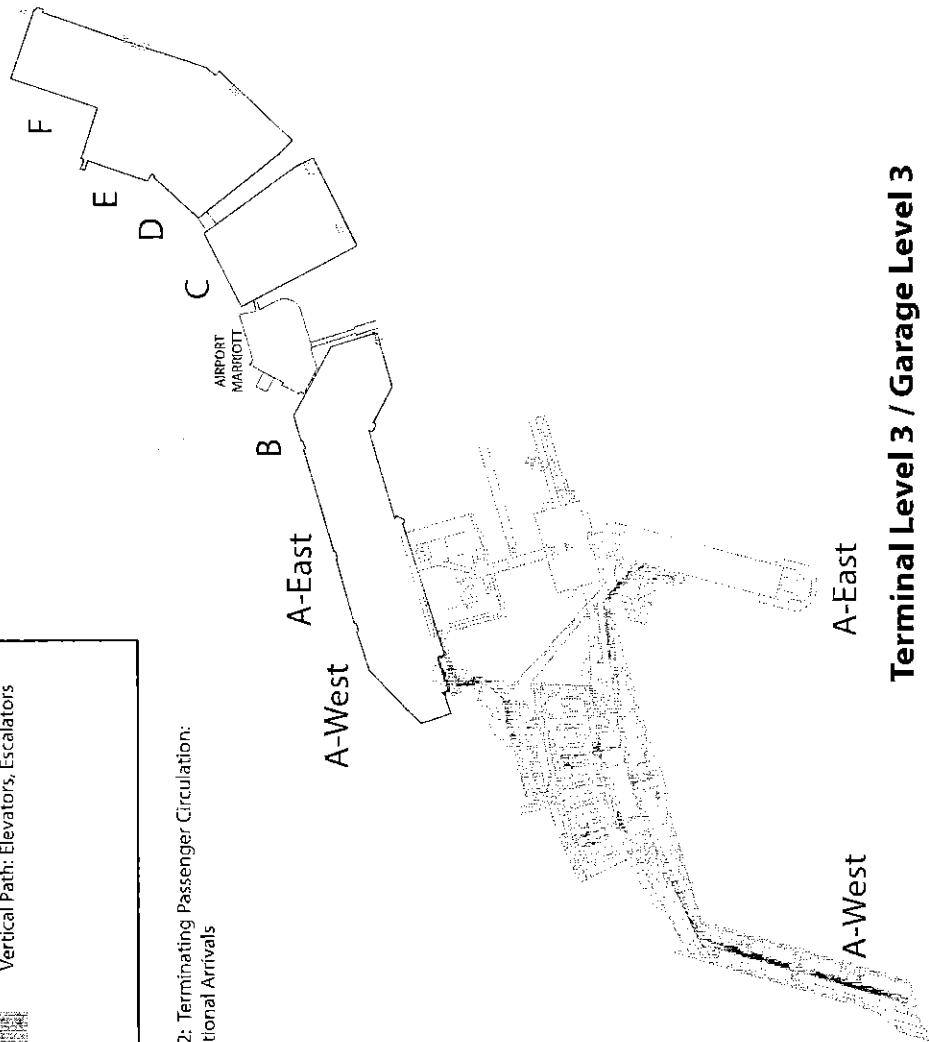


Fig. 1.12: Terminating Passenger Circulation: International Arrivals



Circulation: Terminating Passengers, International Arrivals

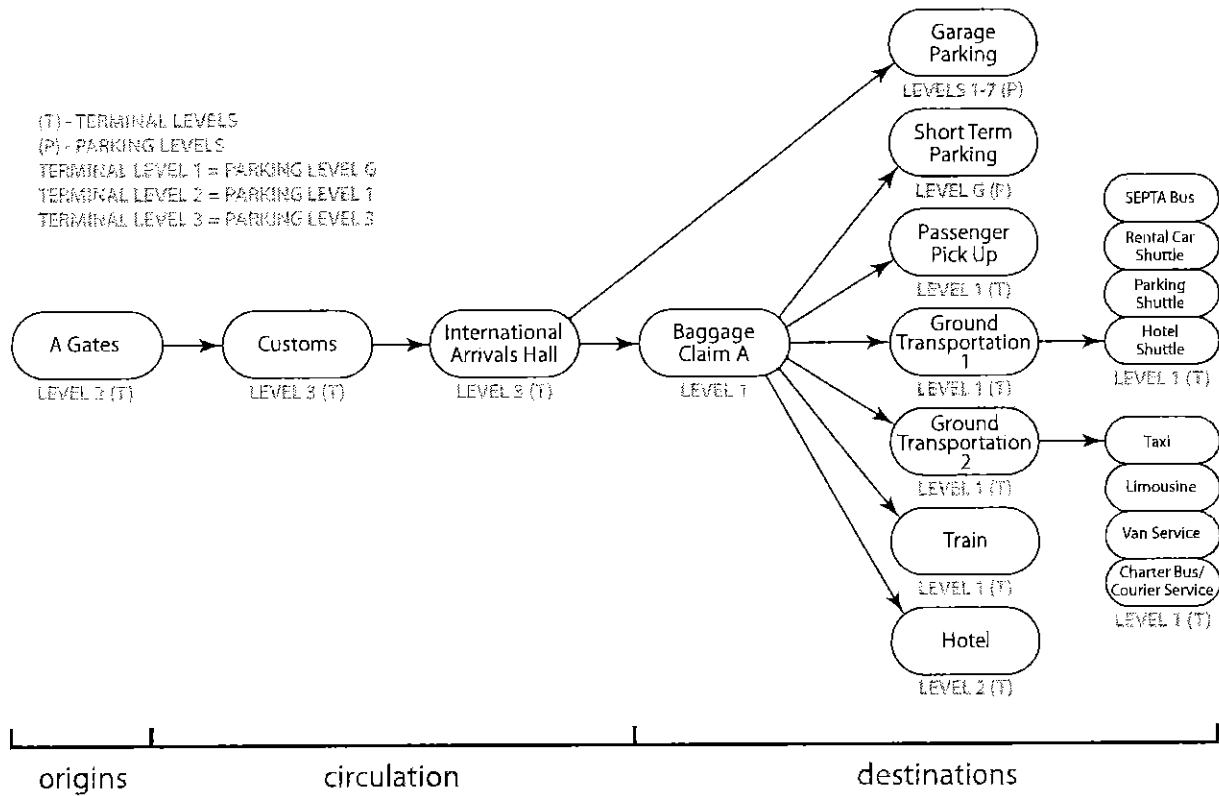


Fig. 1.13: Terminating Passenger Circulation: International Arrivals

Terminating International Passengers - Terminal Level 1 / Garage Level G

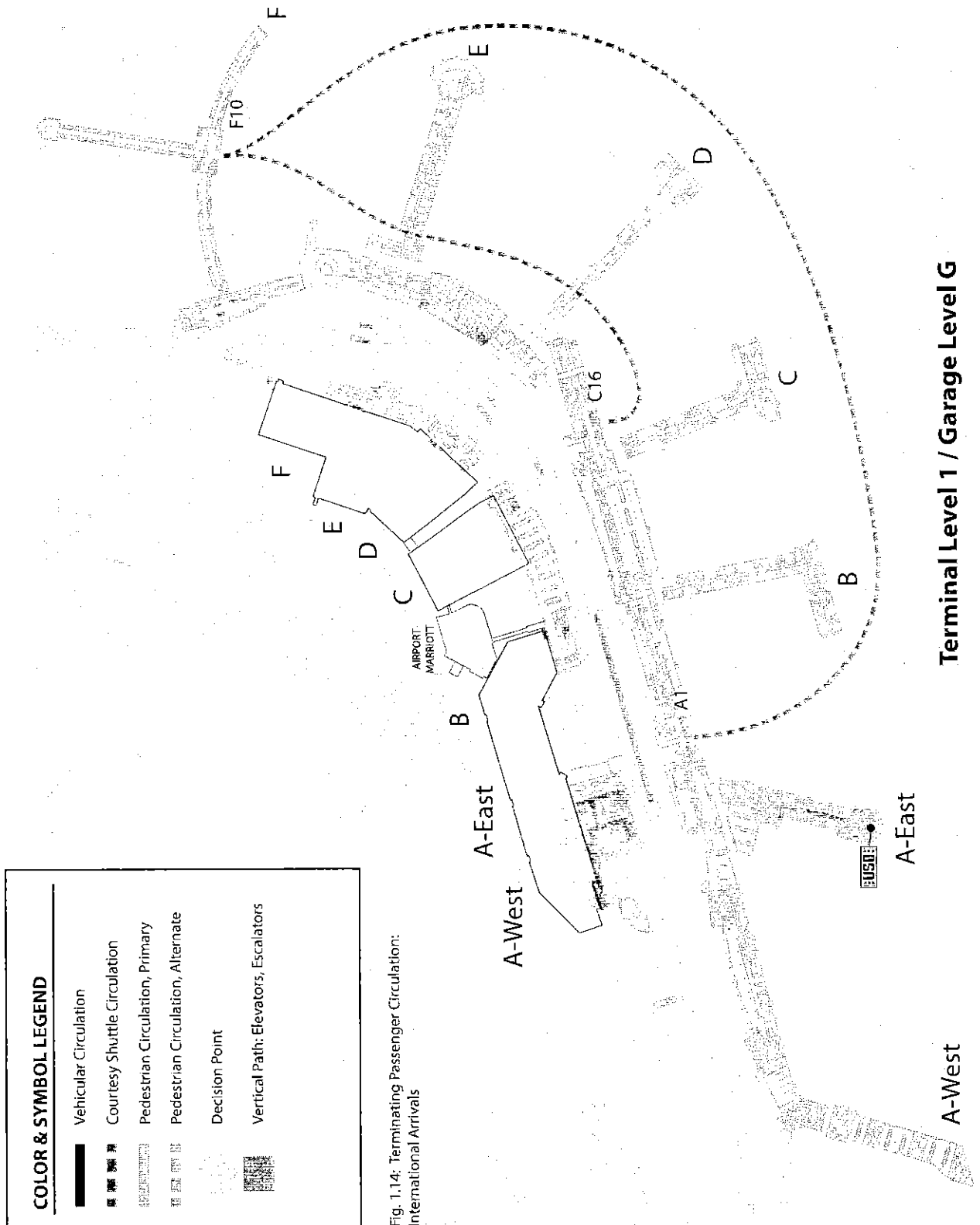
From the International Arrivals Hall, arriving passengers are directed to Baggage Claim A (a two-level transition). Once in the baggage claim area, they are directed to individual carousels and ground transportation options.

For access to the Airport Marriott Hotel, arriving passengers are directed from Baggage Claim A to Baggage Claim B, then to the elevator to Level 2.

For access to the Center City Train, passengers are directed from the baggage claim level up to the Level 2 bridge.



Circulation: Terminating Passengers, International Arrivals



Circulation: Connecting Passengers, Domestic Arrivals

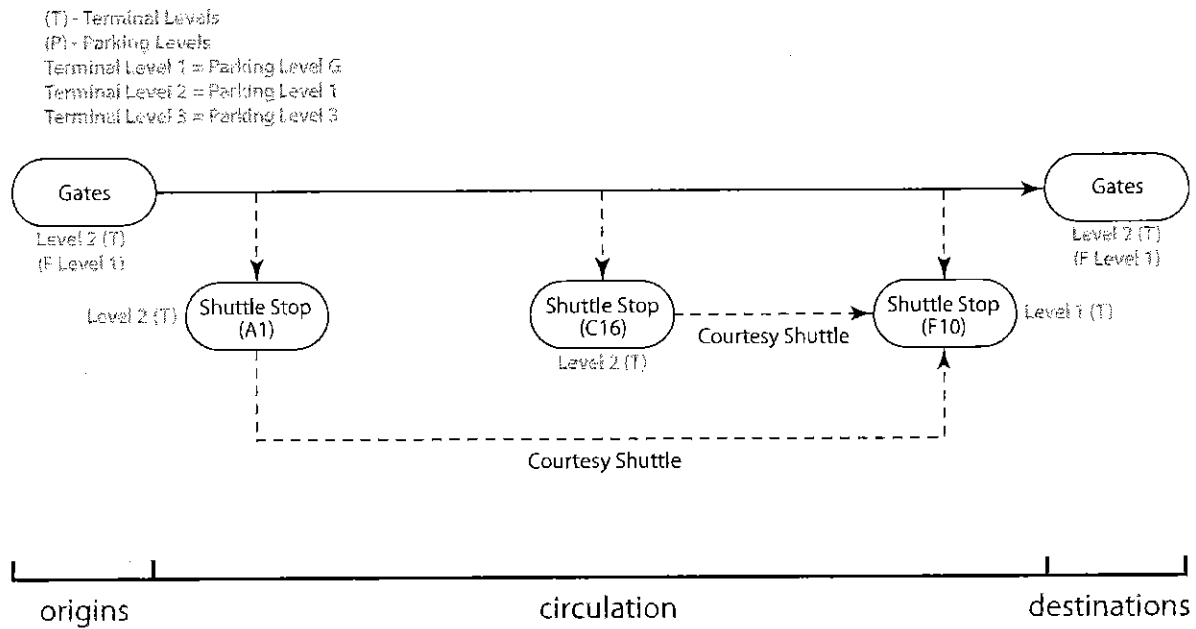


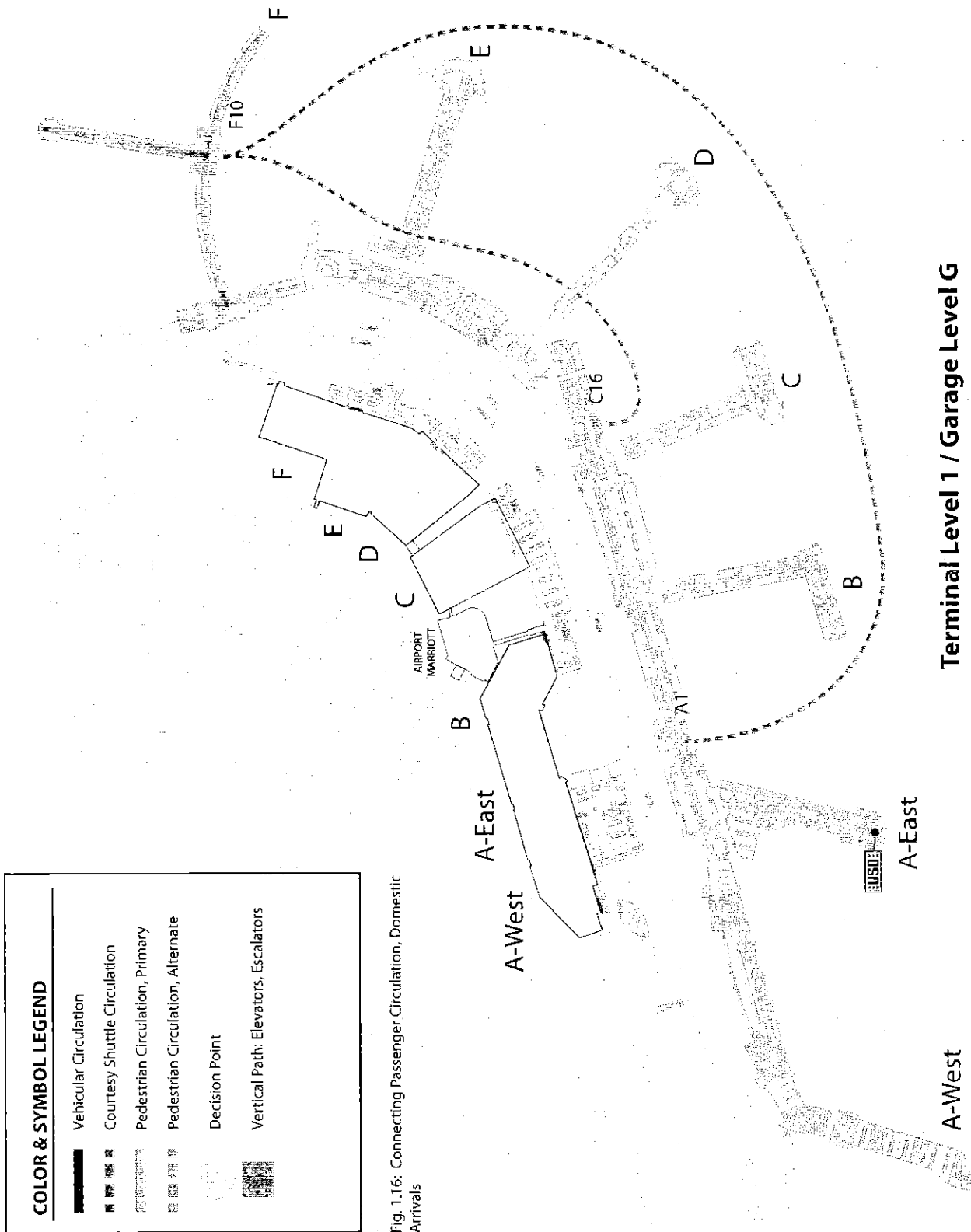
Fig. 1.15: Connecting Passenger Circulation, Domestic Arrivals

Connecting Domestic Passengers - Terminal Level 1 / Garage Level G

Connecting passenger circulation on Terminal Level 1 (Garage Level G) consists primarily of passengers flying in or out of Terminal F and taking the inter-terminal shuttle to or from Terminals A and C.

In order to make this "walk vs. ride" decision, particularly with regard to Terminal F, passengers are alerted to the current lack of a secure-side walking connection to Terminal F (expected completion 2015). Terminal directional signs include direction to shuttle stops, and the stops are prominently identified.

Circulation: Connecting Passengers, Domestic Arrivals



Circulation: Connecting Passengers, Domestic Arrivals

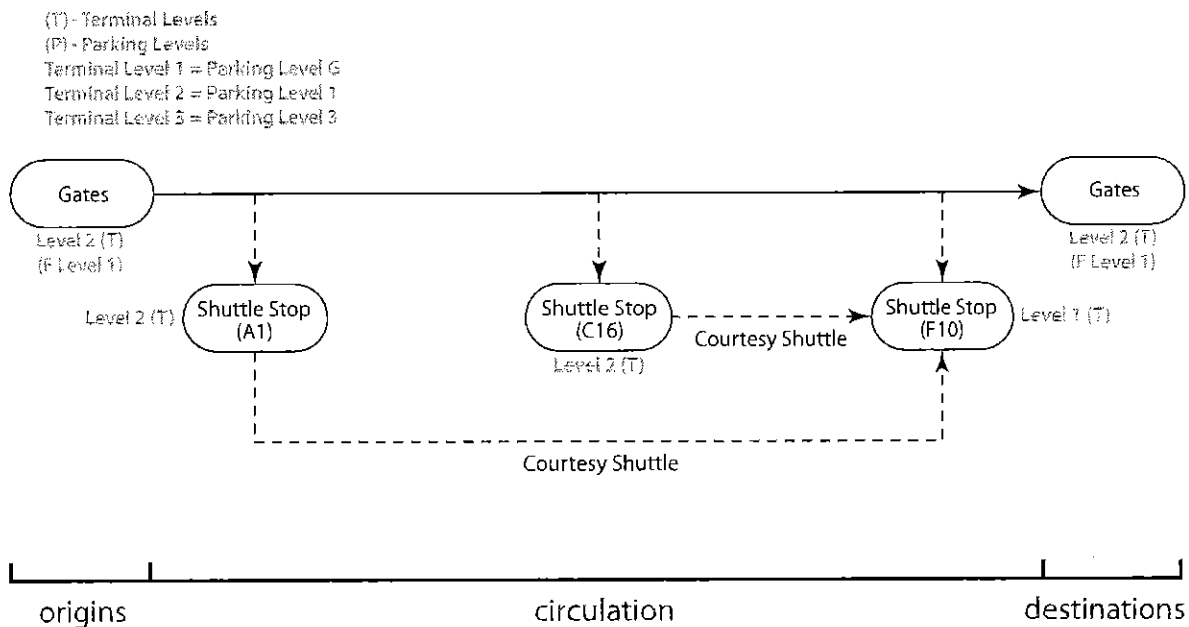


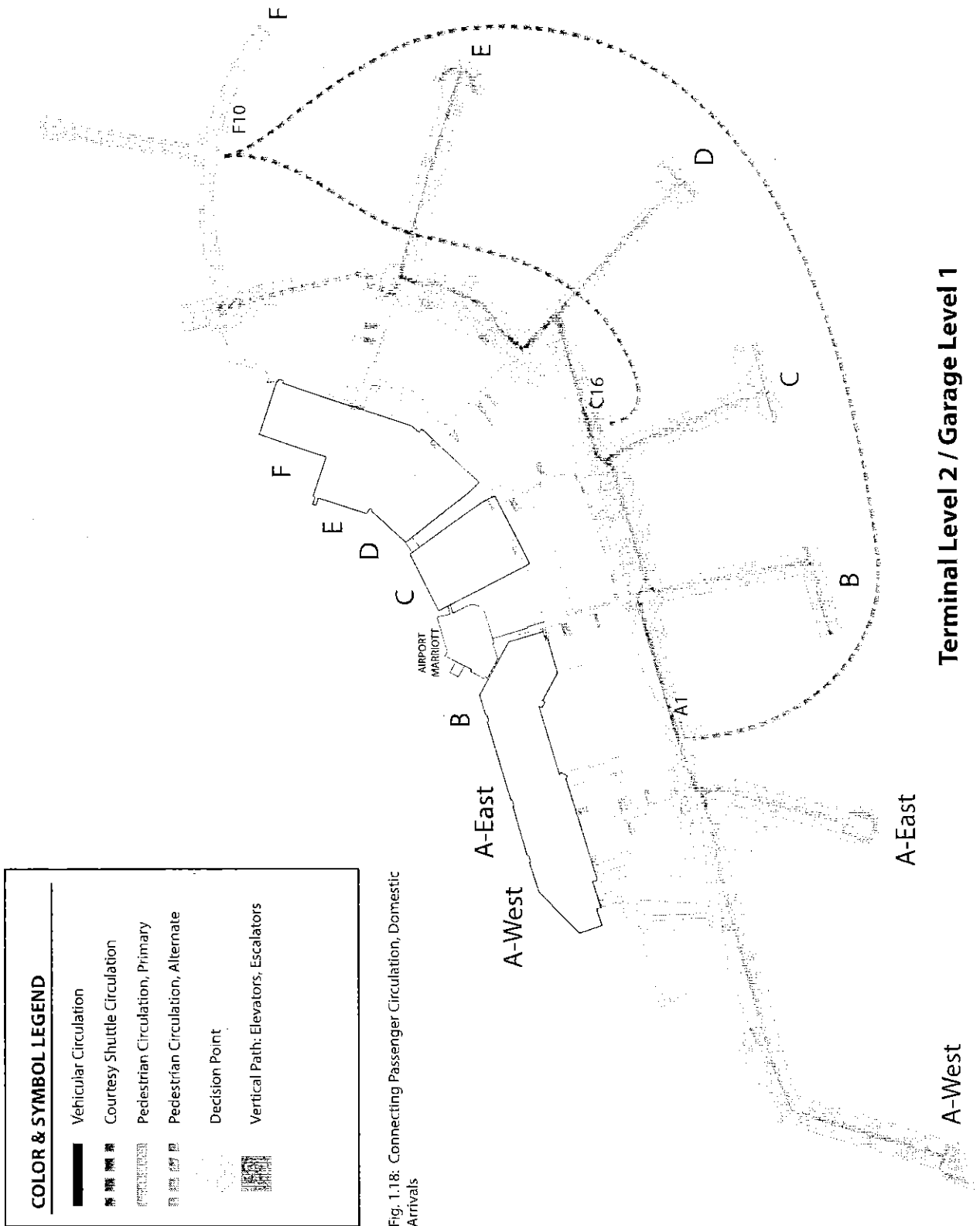
Fig. 1.17: Connecting Passenger Circulation, Domestic Arrivals

Connecting Domestic Passengers - Terminal Level 2 / Garage Level 1

Passengers arriving at Terminals A, B, C, D, and E are directed from arrival gates toward the circulation spine that connects terminals on the secure side. Once they reach the decision points at the terminal-spine intersections, they are directed to other gates by their terminal alpha designation (Gates A, Gates B etc), using the terminal identification icons developed for the new sign standards.



Circulation: Connecting Passengers, Domestic Arrivals



Circulation: Connecting Passengers, International Arrivals

(T) - Terminal Levels
 (P) - Parking Levels
 Terminal Level 1 = Parking Level G
 Terminal Level 2 = Parking Level 1
 Terminal Level 3 = Parking Level 3

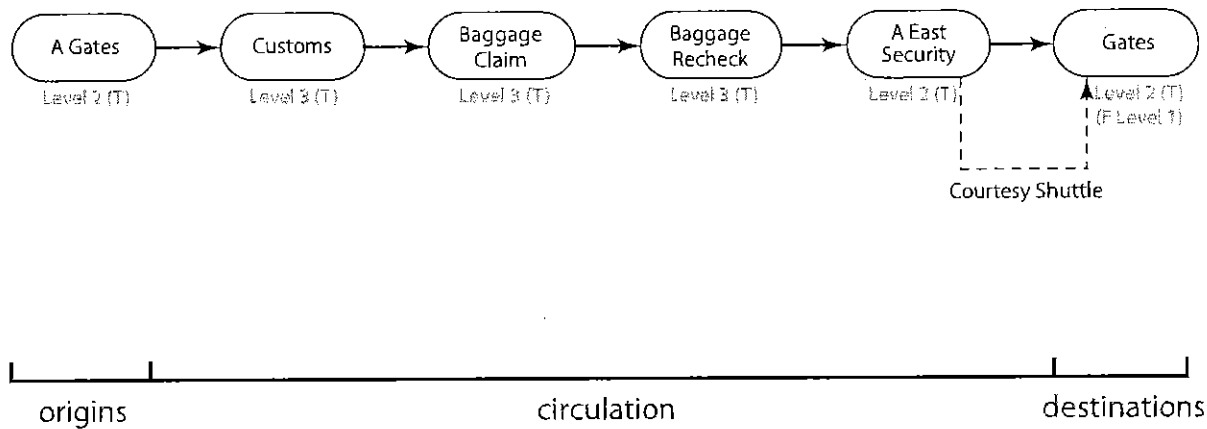


Fig. 1.19: Connecting Passenger Circulation, International Arrivals







Connecting Domestic Passengers - Terminal Level 3 / Garage Level 3

Once connecting international passengers have cleared Customs, they are directed to baggage recheck and then through a sterile connector to security rescreening.

On this level the circulation is restricted to the sterile area, and therefore does not require a high level of wayfinding. Directional signs are provided for reassurance, reinforcement and confirmation.



Circulation: Connecting Passengers, International Arrivals

COLOR & SYMBOL LEGEND	
	Vehicular Circulation
	Courtesy Shuttle Circulation
	Pedestrian Circulation, Primary
	Pedestrian Circulation, Alternate
	Decision Point
	Vertical Path: Elevators, Escalators

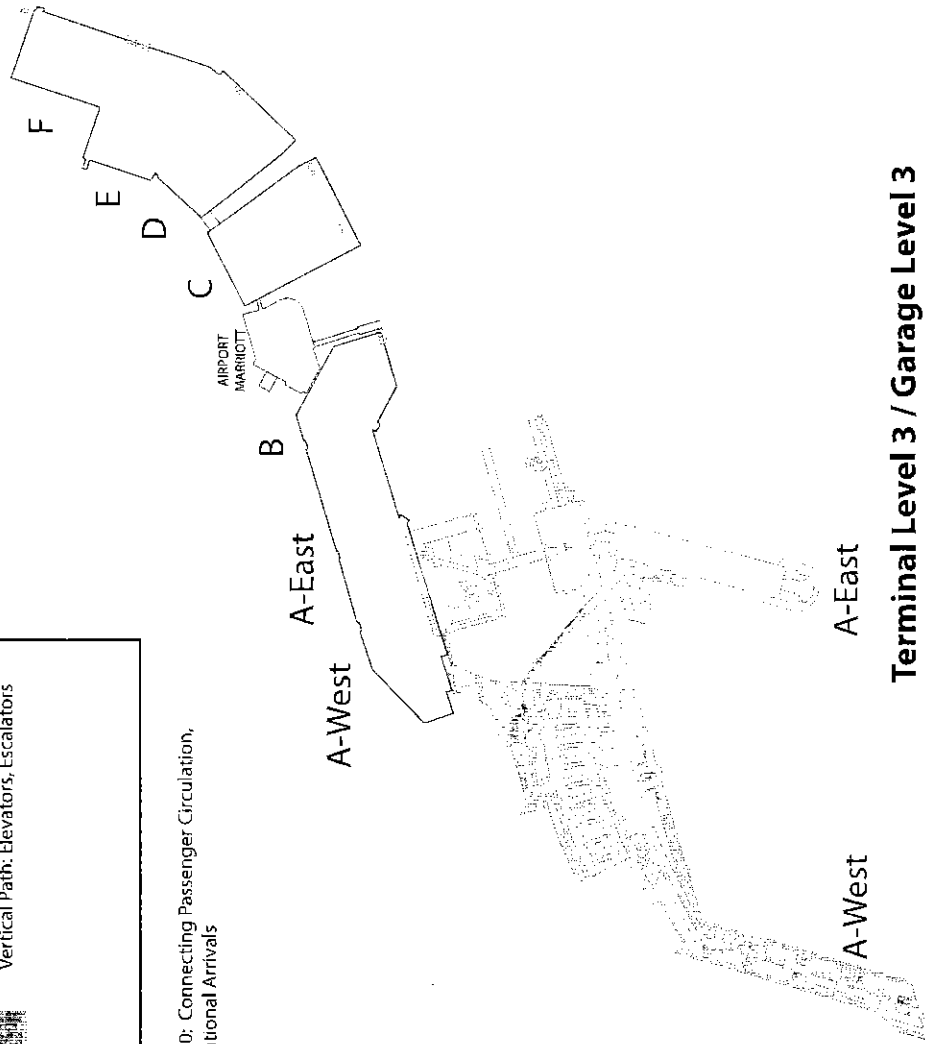


Fig. 1.20: Connecting Passenger Circulation, International Arrivals

Terminal Level 3 / Garage Level 3



Circulation: Connecting Passengers; International Arrivals

(T) - Terminal Levels
 (P) - Parking Levels
 Terminal Level 1 = Parking Level G
 Terminal Level 2 = Parking Level 1
 Terminal Level 3 = Parking Level 3

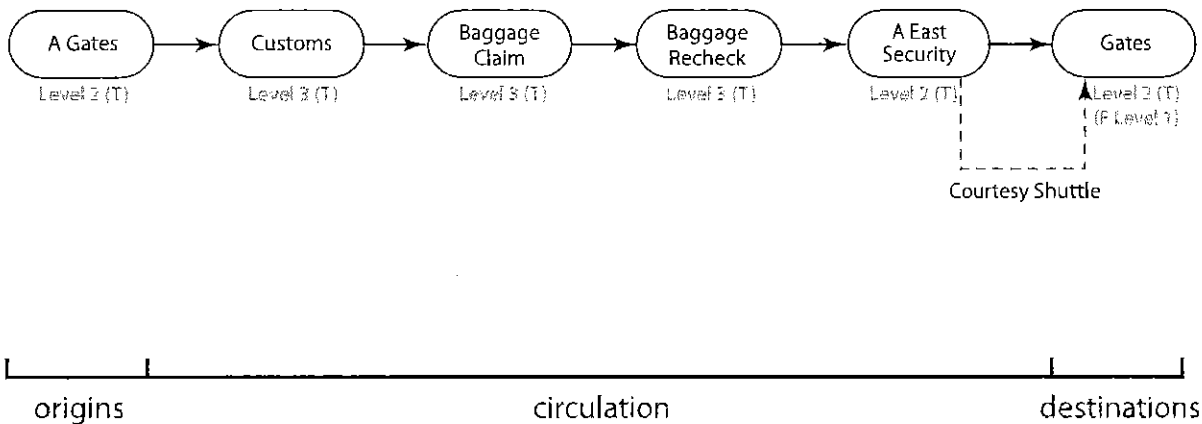


Fig. 1.21: Connecting Passenger Circulation, International Arrivals

Connecting International Passengers - Terminal Level 2 / Garage Level 1

Once international passengers have rescreened at the Terminal A checkpoint, they are directed to other gates by their terminal alpha designation (Gates A, Gates B etc), using the terminal identification icons developed for the new sign standards.



Circulation: Connecting Passengers, International Arrivals

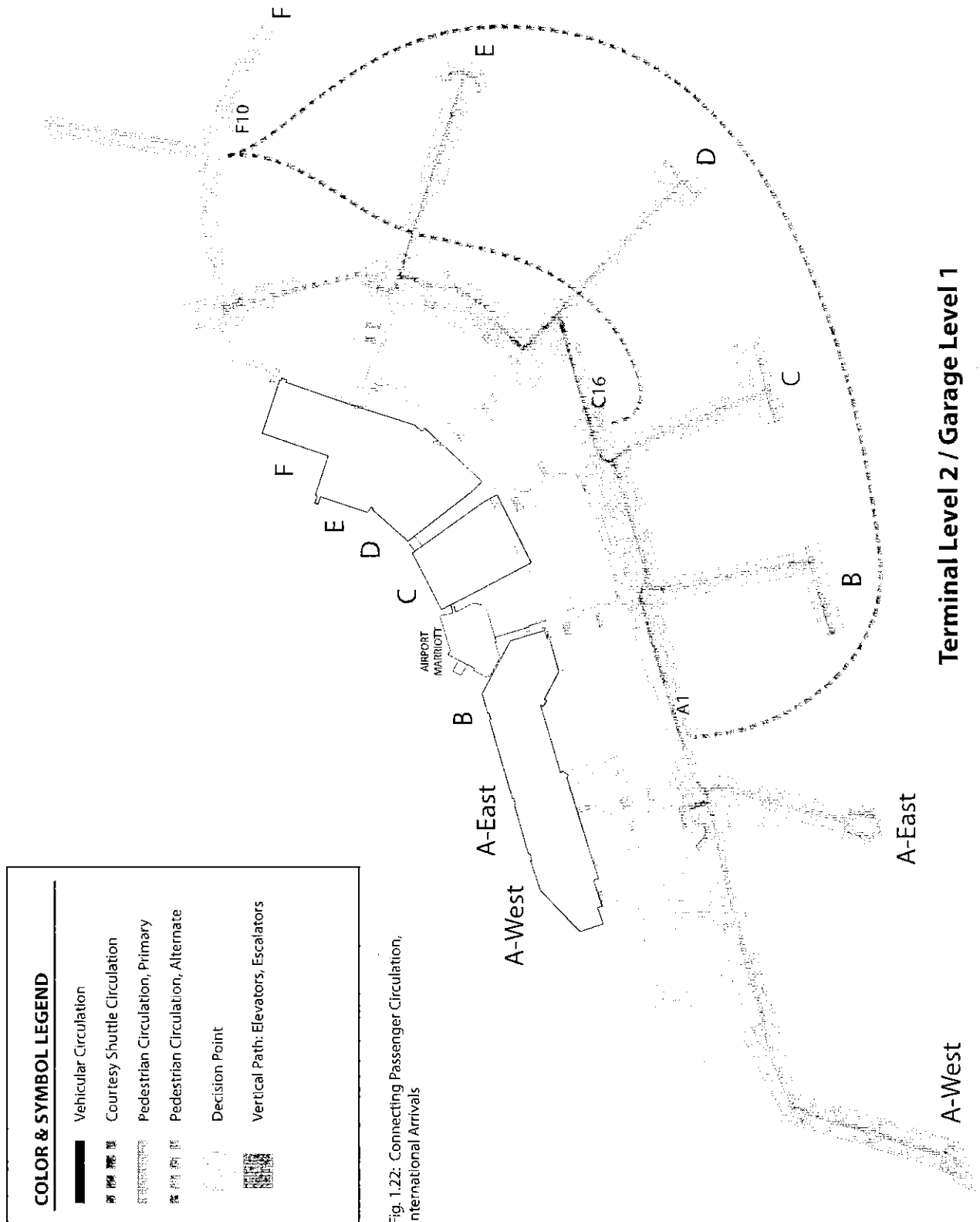


Fig. 1.22: Connecting Passenger Circulation, International Arrivals

COLOR & SYMBOL LEGEND	
	Vehicular Circulation
	Courtesy Shuttle Circulation
	Pedestrian Circulation, Primary
	Pedestrian Circulation, Alternate
	Decision Point
	Vertical Path: Elevators, Escalators

Circulation: Connecting Passengers, International Arrivals

(T) - Terminal Levels
 (P) - Parking Levels
 Terminal Level 1 = Parking Level G
 Terminal Level 2 = Parking Level 1
 Terminal Level 3 = Parking Level 2

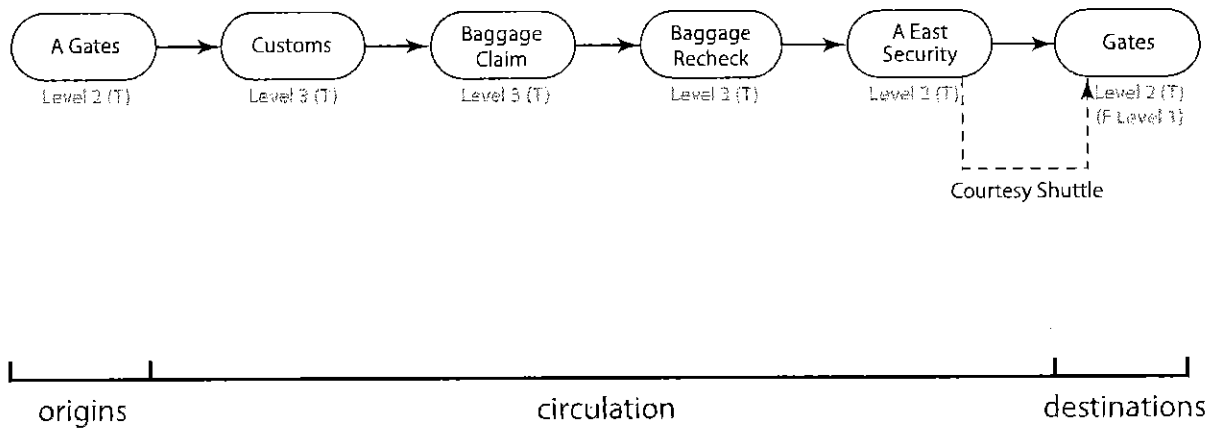


Fig. 1.23: Connecting Passenger Circulation, International Arrivals

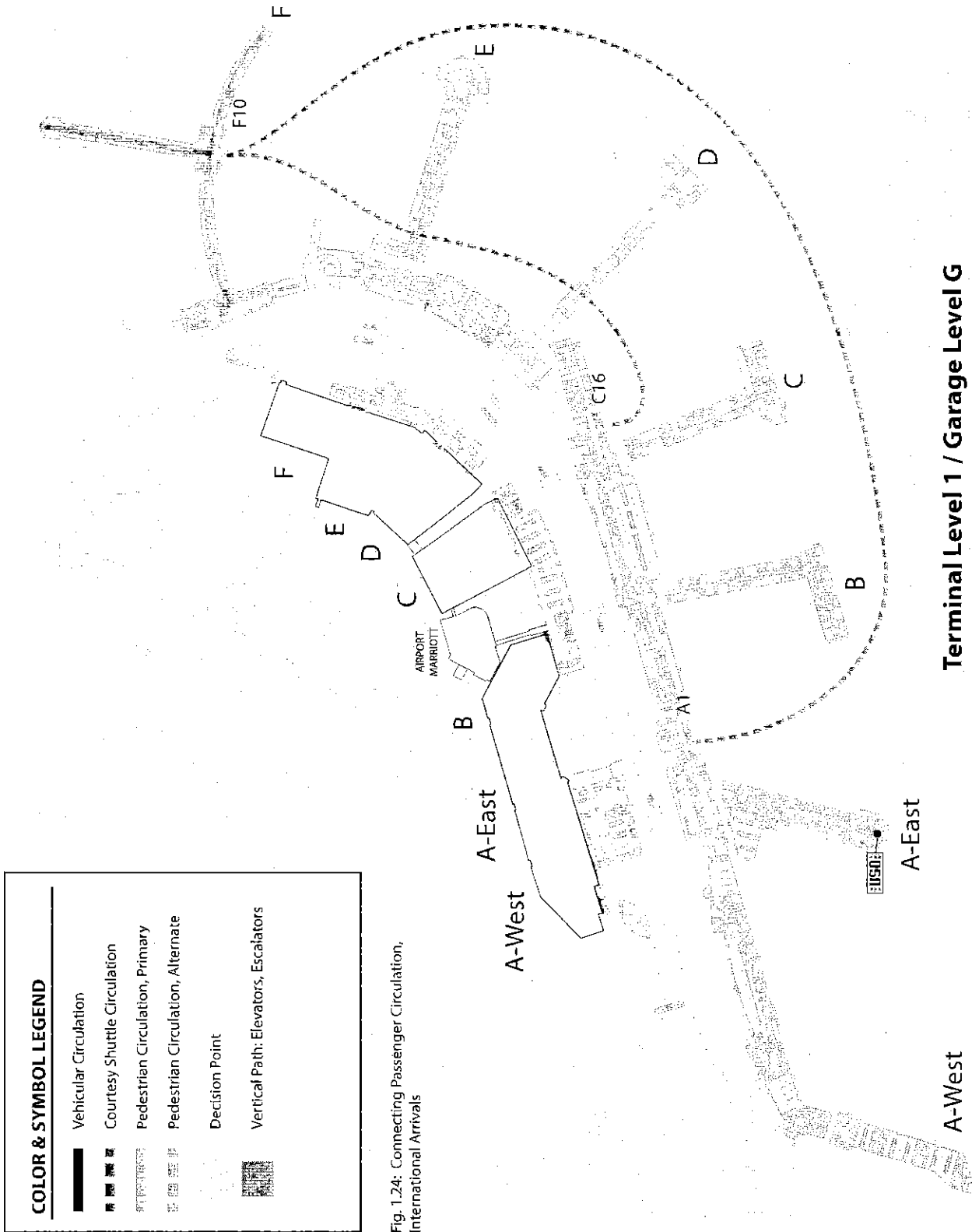
Connecting International Passengers - Terminal Level 1 / Garage Level G

International connecting passengers have the same “walk vs. ride” decision as other connecting passengers who have the option of taking the inter-terminal shuttle to or from Terminals A and C.

In order to make this “walk vs. ride” decision, particularly with regard to Terminal F, passengers are alerted to the current lack of a secure-side walking connection to Terminal F (expected completion 2015). Terminal directional signs include direction to shuttle stops, and the stops are prominently identified.



Circulation: Connecting Passengers, International Arrivals



Circulation: Meeter-Greeter

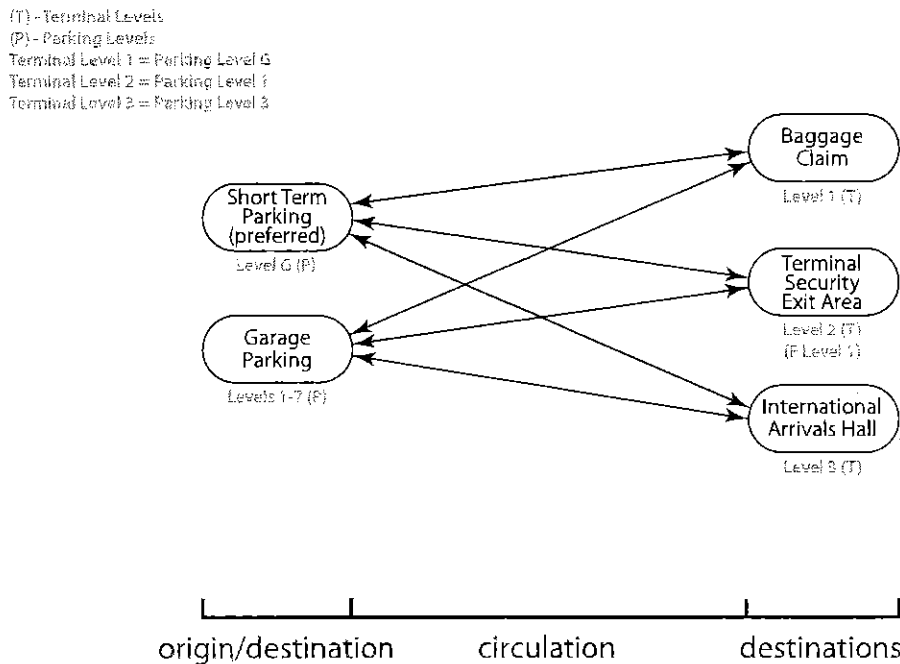


Fig. 1.25: Meeter-Greeter Circulation

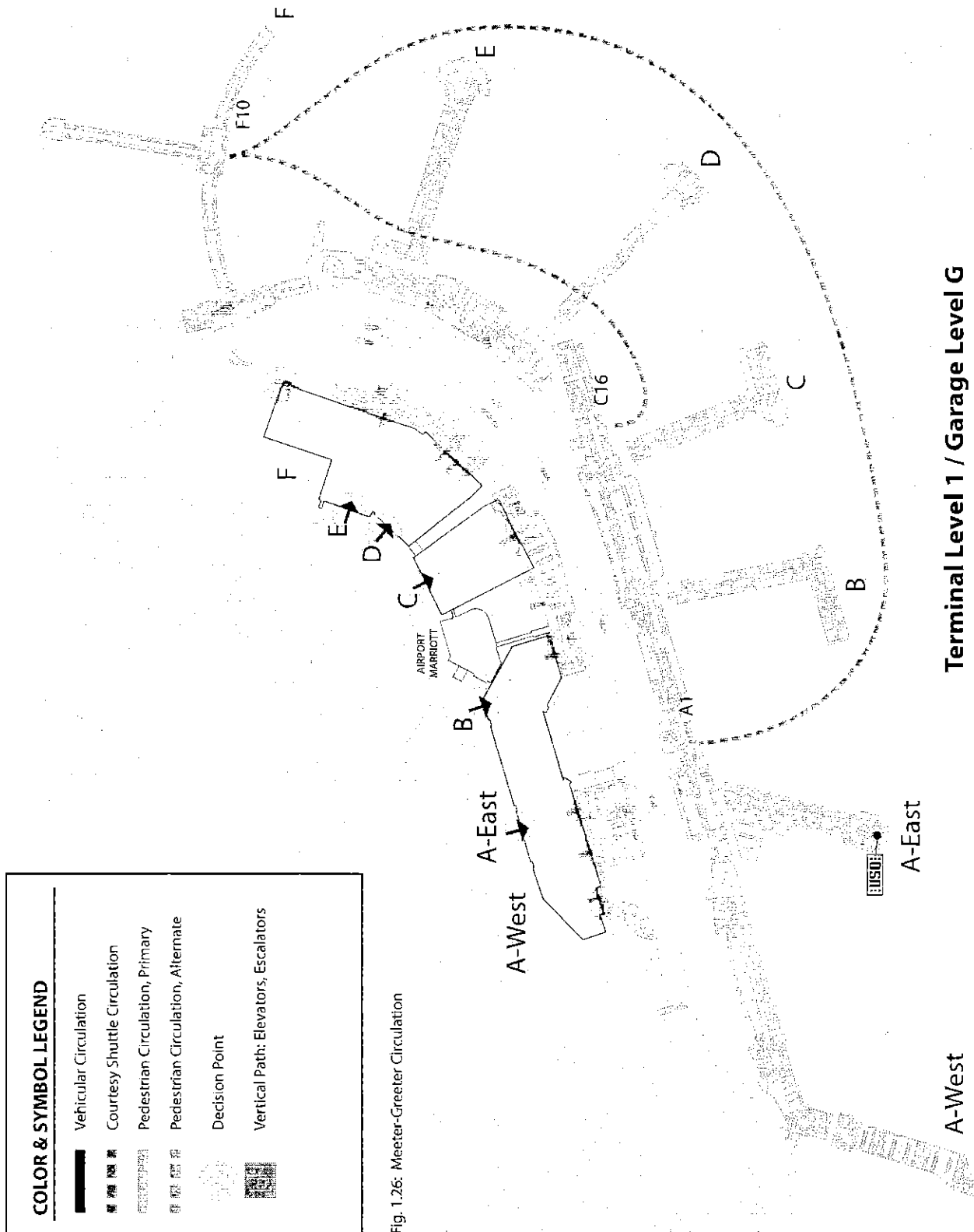
Meeter-Greeter - Terminal Level 1 / Garage Level G

Meeter-greeter circulation on Terminal Level 1 (Garage Level G) consists primarily of people parking in one of the short term lots and entering the baggage claim buildings.

If the meeter-greeter is meeting a passenger on the terminal side, they will follow the directional signs to the terminal, following the same multi-level sequence as a departing passenger.



Circulation: Meeter-Greeter



Circulation: Meeter-Greeter

(T) - Terminal Level
 (P) - Parking Level
 Terminal Level 1 = Parking Level G
 Terminal Level 2 = Parking Level 1
 Terminal Level 3 = Parking Level 3

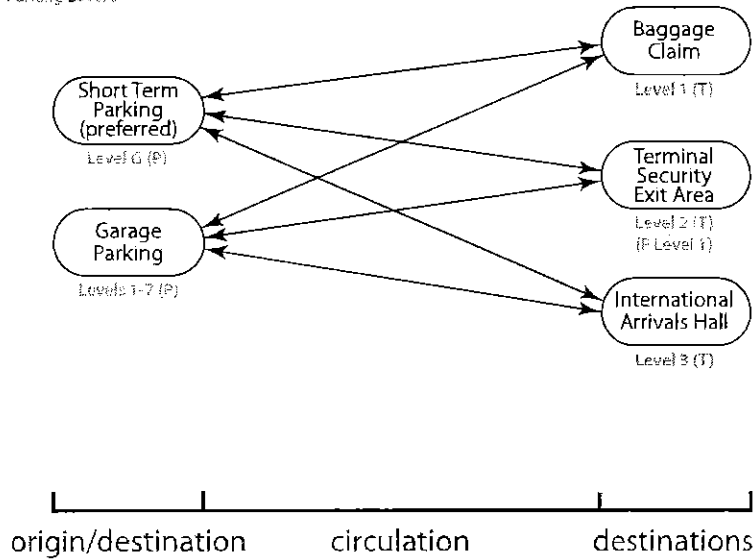


Fig. 1.27: Meeter-Greeter Circulation

Meeter-Greeter - Terminal Level 2 / Garage Level 1

Meeter-greeters who are meeting passengers at the terminal will proceed to the Level 2 bridges and cross to the terminal side. Meeting points are identified at the areas immediately outside the secure side exits.



Circulation:

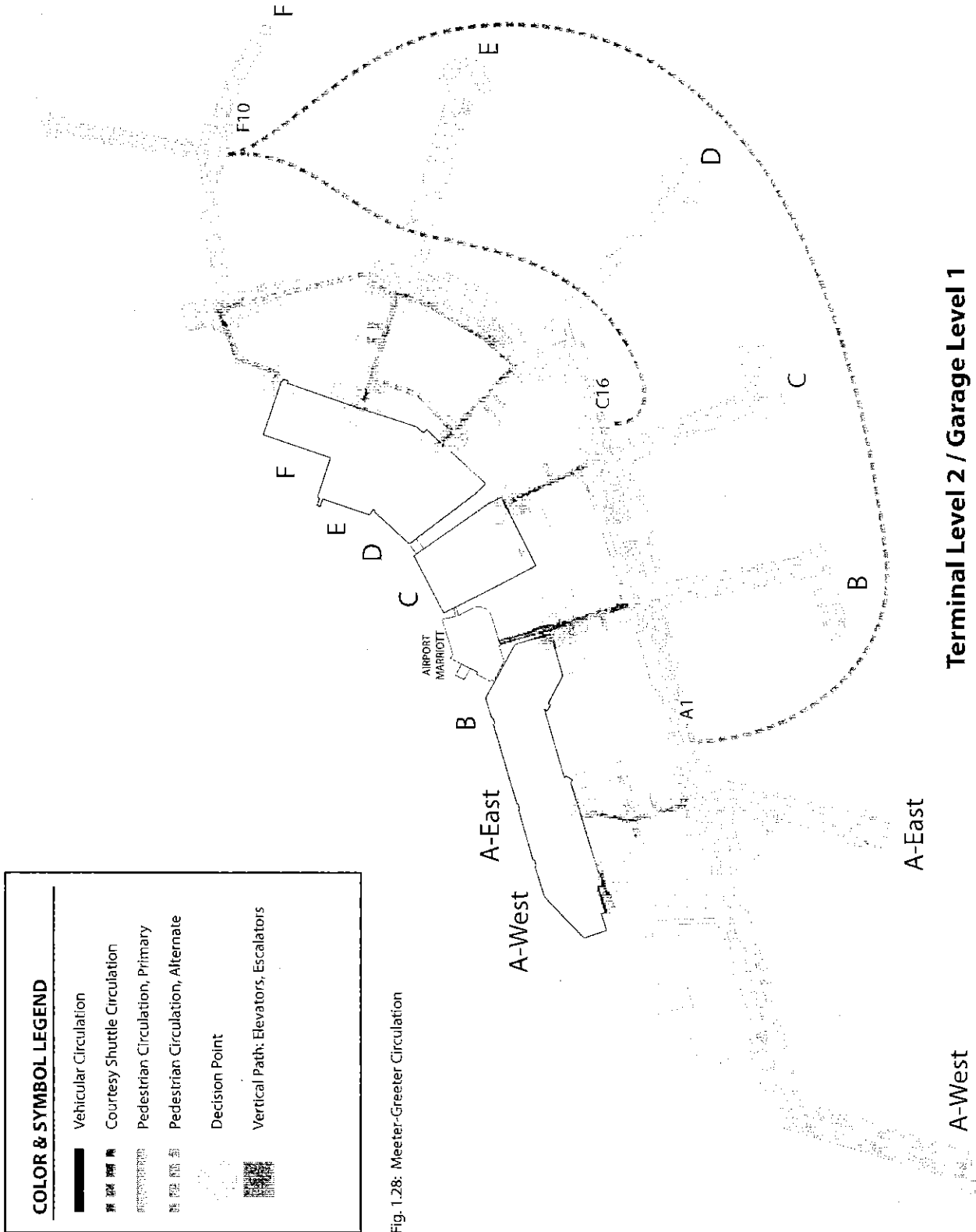


Fig. 1.28: Meeter-Greeter Circulation



Circulation: Meeter-Greeter

(T) - Terminal Levels
 (F) - Parking Levels
 Terminal Level 1 = Parking Level G
 Terminal Level 2 = Parking Level J
 Terminal Level 3 = Parking Level 3

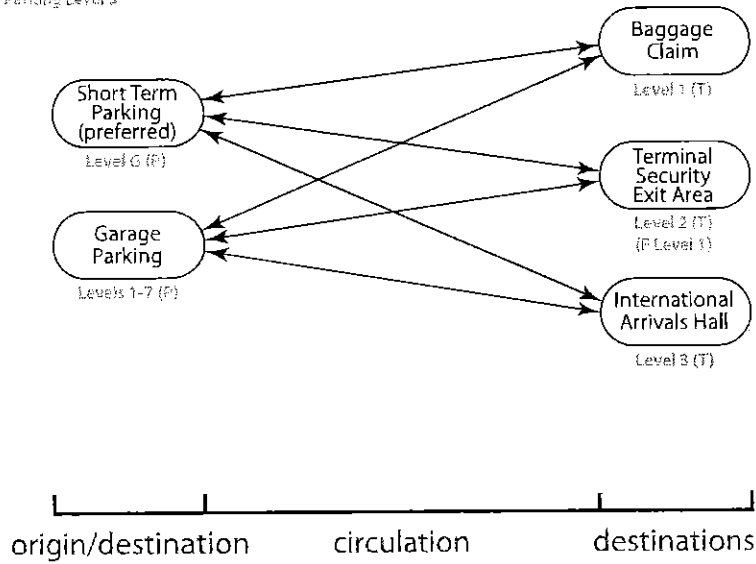








Fig. 1.29: Meeter-Greeter Circulation

Meeter-Greeter - Terminal Level 3 / Garage Level 3

Meeter-greeters who are meeting international arrivals at the terminal will enter the A Baggage Claim and follow signs to the International Arrivals Hall on Level 3.



Circulation:

COLOR & SYMBOL LEGEND	
	Vehicular Circulation
	Courtesy Shuttle Circulation
	Pedestrian Circulation, Primary
	Pedestrian Circulation, Alternate
	Decision Point
	Vertical Path: Elevators, Escalators

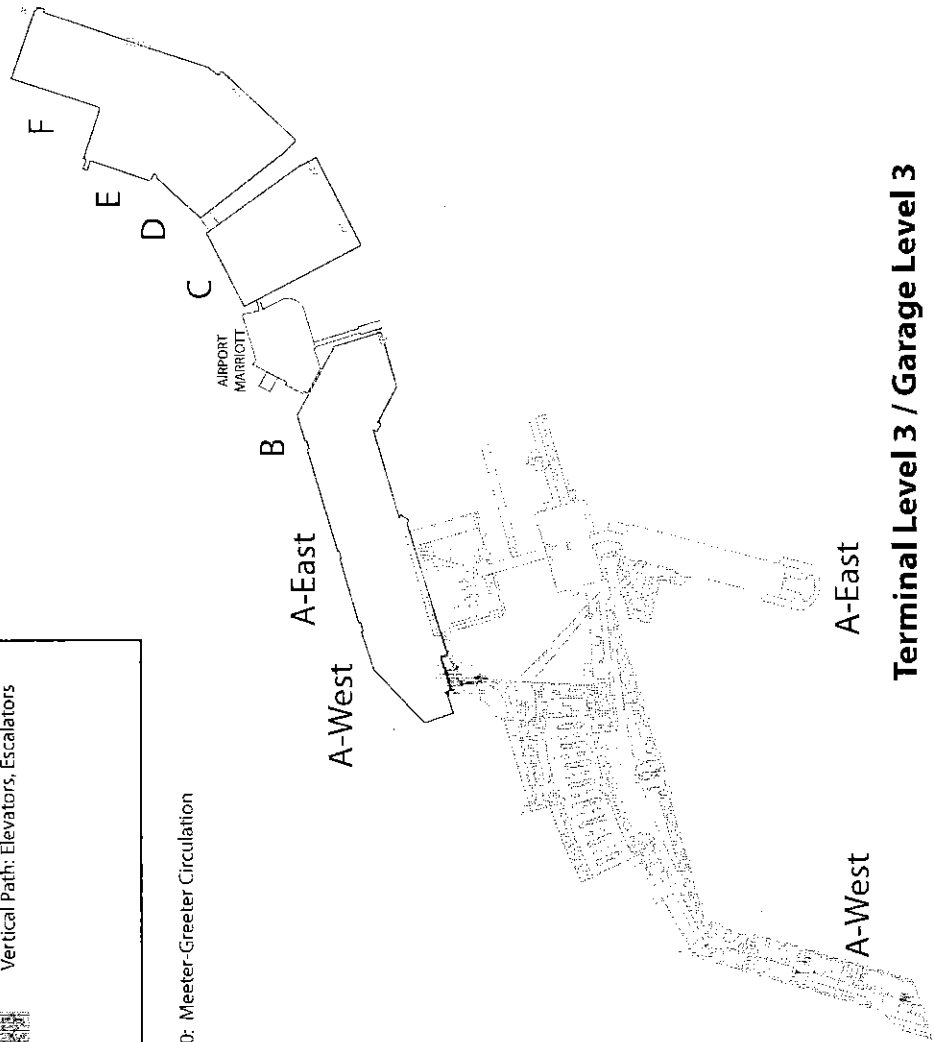


Fig. 1.30: Meeter-Greeter Circulation





SECTION 2:
GENERAL GUIDELINES

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



General Guidelines

OVERVIEW

Purpose—The purpose of this section is to provide a guide for the ongoing maintenance and expansion of the PHL sign program.

The circulation analysis in the previous section is designed to help the airport planner or consultant understand the circulation of each passenger group and develop a systematic approach to developing, expanding or maintaining a wayfinding program.

The success of a signage program depends on consistency in design and application. It is not enough to have signs that look the same; they must also be used in a consistent manner. Consistency in application includes the selection of sign types, sign frequency, sign placement, and message content. It is important to understand that the elements in a sign program function as a system, and each individual element plays its part.

Project implementation—Once a signage program need has been identified and analyzed, the Sign Standards and Guidelines will serve as a reference for the selection and application of specific sign types to address the program need. Once the necessary sign types and categories of information to be conveyed have been identified, project implementation is the process during which specific sign quantities and locations are determined, sign placement and attachment methods are specified, and specific messages, graphics, and layouts are developed for each sign.

Note—implementation may also include phasing strategies to accommodate the airport's needs related to funding, individual project scheduling, and planned long-term growth.

Control process—To guide the long term implementation and maintenance of the PHL sign standards program, a control process should be established to identify and address issues related to sign priorities, design, programming and messaging, placement, modifications, removals, etc. This process should include a policy for centralized review and approval of all signage-related requests by designated Division of Aviation staff or representatives. The control process is crucial to the long

term success of the wayfinding program, and helps to avoid issues with information overload and uncontrolled addition of new signs or messages to existing signs.

The following pages contain some specific guidelines for implementing a sign program.

VISUAL HIERARCHY AND VIEWING ZONES

Airports—including PHL—are information intensive environments. Airport visitors need clear direction and destination confirmation in order for the facility to function. Motorists need direction to departures, arrivals, parking, and rental car return. Passengers—departing, arriving, and connecting—need clear directional information to and from gates, parking, baggage claim, and ground transportation.

In addition, wayfinding information typically must compete with advertising, marketing, concessions, and artwork for the viewer's attention.

In order to maintain the integrity of a wayfinding signage program, it is important to establish priorities to guide the placement of signs and other forms of visual communication.

Step one—Establish a priority ranking for all airport signage and displays (e.g. wayfinding [both static and digital], regulatory, art, advertising, marketing, and concessions), FIDS and CCTV.

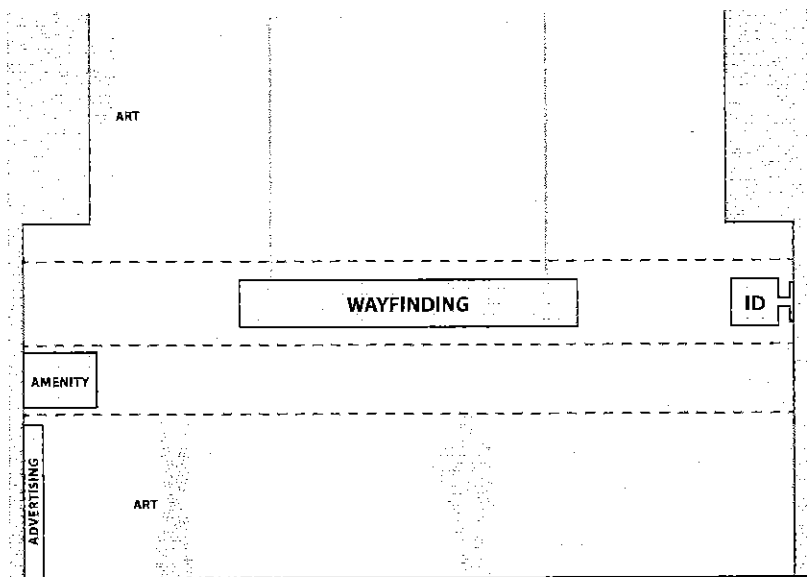


Fig. 2.1: Typical Sign Category Viewing Zones



General Guidelines

Directional signs, directories and FIDS should be the first priority, based on the need to facilitate the safe and efficient movement of vehicles and people throughout the airport. These are followed by informational signage, then regulatory signs, advertising, retail, marketing, and artwork.

Step two—Use the priority ranking to establish a hierarchy for placement that assigns value and balances needs for passenger safety, wayfinding and revenue generation. Based on this hierarchy, designated viewing zones can be established for each signage category and type of information.

When wayfinding signage is located within a consistent viewing zone, the viewer is more easily able to filter and recognize relevant wayfinding information.

WAYFINDING SIGN PLACEMENT

The effectiveness of a wayfinding program depends on the communication of information to the viewer in the proper sequence and at the proper locations. As previously noted, continuity, connectivity, and consistency are key principles to consider.

Continuity—A successful wayfinding system provides information with sufficient frequency to guide and reassure the user.

Connectivity—Successful wayfinding design requires an understanding of the physical space, users, and destinations to determine the best way to move people safely and efficiently, and to use signage to deliver routing information to the viewer.

Consistency—Consistency in appearance, messaging and placement throughout the airport facilities helps the viewer quickly recognize, understand and use the information provided.

Sign placement is also an important factor in the visibility, legibility and readability of information on the sign.

General guidelines for sign placement:

1. Locate signs at or near decision points with consideration for the viewer's path of travel.
2. Place signs perpendicular to path of travel.
3. Place signs for maximum visibility within comfortable field of vision and viewing angle.
4. Place signs at consistent heights and on uniform mounting surfaces whenever possible.
5. Locate signs with sufficient frequency to ensure viewers do not feel abandoned.

Curbside and Roadway sign placement:

1. Locate roadway signs in accordance with FHWA standards, where practical.

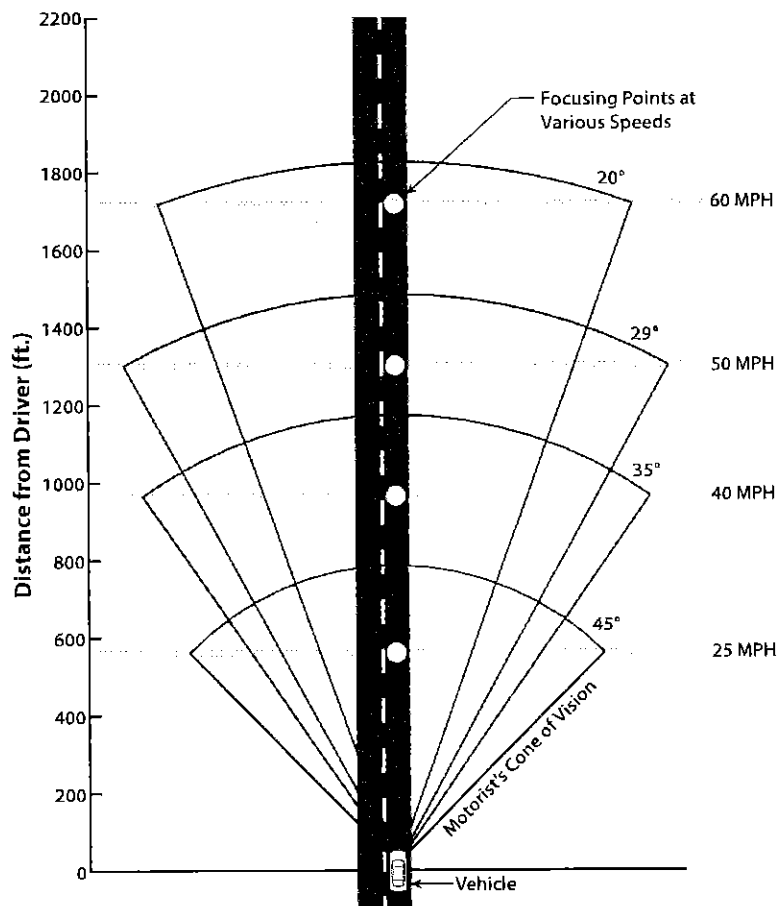


Fig. 2.2: Vehicular Viewing Distance and Angle

General Guidelines

Number of Lanes	Reaction Time (seconds)	Speed (MPH)	Distance traveled during reaction (feet)	Recommended Copy Height (inches)	Total Area of Sign (sq. feet)	
					Airports, Commercial, Industrial	Others
2	8	15	176	4	8	6
		30	352	7	25	18
		45	528	10	50	36
		55	704	14	100	70
4	10	15	220	4	8	6
		30	440	9	40	28
		45	660	13	90	64
		55	880	17	150	106
6	11	15	242	5	13	10
		30	484	9	140	28
		45	726	14	100	70
		55	968	19	190	134
Highway/ Interstate	12	55	1056	21	230	162

Fig. 2.3: Vehicular Viewing Legibility

2. Work with a licensed traffic engineer to ensure that regulations governing sign placement are observed, and that no signs are placed so as to create a hazard for motorists or pedestrians.
3. Locate signs in advance of decision points in order to allow motorists time to process directional and lane assignment information and react without endangering themselves or other motorists.
4. Size text and graphics appropriately for the intended viewing distance.
5. Locate signs within the driver's normal cone of vision.
6. Locate signs so they are not obscured by vegetation or other structures.
7. Avoid locating signs so as to interrupt necessary pedestrian pathways.

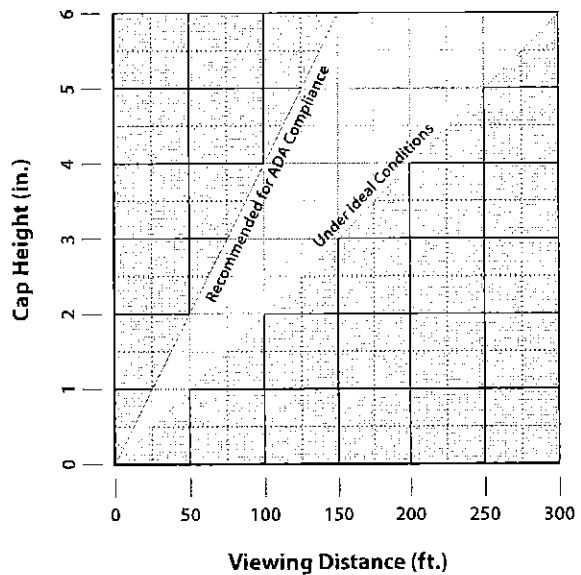


Fig. 2.4: Pedestrian Viewing Distance



General Guidelines

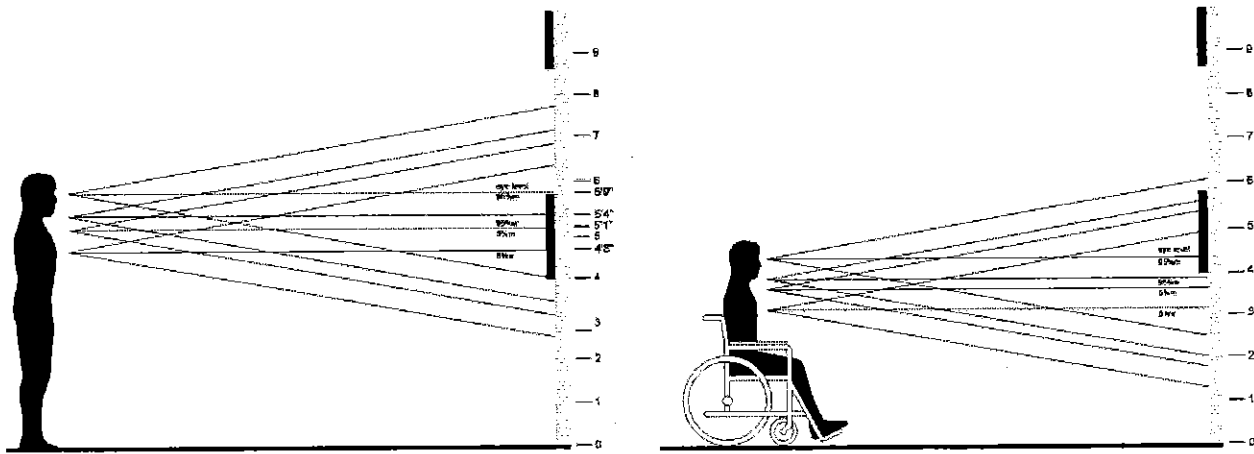


Fig. 2.5: Pedestrian Viewing Distance and Angle

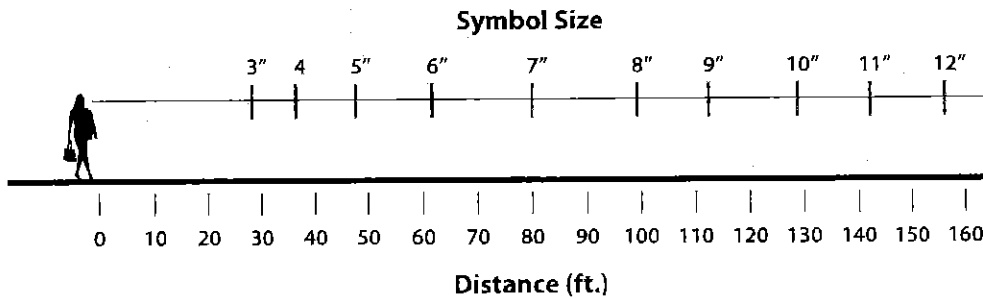


Fig. 2.6: Symbol Sizing

Pedestrian signage placement:

1. Establish consistent viewing zones and mounting heights for wayfinding.
2. Locate interior signage in accordance with ADA and ADAAG standards.
3. Size text and graphics appropriately for the intended viewing distance and viewing conditions.
4. Locate signs so they are not obscured by structures or other signage.



General Guidelines

MESSAGE HIERARCHY

In order for the wayfinding program to function most effectively for the greatest number of people, the information on signs should be prioritized so that the destinations sought by the greatest number of users are given prominence.

Time is always a factor for airport users in a hurry; prioritizing helps to put essential information where it can be seen and processed quickly.

Messages can be categorized according to type:

Primary—The first priority is directional and identification signage that relates to major wayfinding destinations; this is absolutely necessary to enable the movement of vehicles and people throughout the facility in a safe and efficient manner.

Secondary—The second priority is information that relates to specific amenities, services, and support functions,

and information that supplements primary destination information.

Tertiary—The third priority includes non-wayfinding information including regulatory messages, advertising and marketing, and other supplemental information.

Prioritize information on signs at major decision points to focus on primary destinations. Examples might include Departures, Arrivals, Parking and Rental Car Return (roadways); Terminals, Elevators, and Tram Stops (garages); Ticketing/Check-In, Gates, Baggage Claim, Ground Transportation, Restrooms, etc. (terminals).

Prioritizing can also help limit messages to avoid information overload on signs at key decision points.

Direct to secondary destinations (amenities, services, and support functions) only on signs in the immediate vicinity of the destinations.

HIERARCHY LEVEL	GARAGE: PEDESTRIAN	CURBSIDE	TERMINALS	
<p>Primary Messages</p> <p>The first priority is directional and identification signage that relates to major wayfinding destinations; this is absolutely necessary to enable the movement of vehicles and people throughout the facility in a safe and efficient manner.</p>	<p>Garage names</p> <p>Terminals (A-East, A-West, B, C, D, E, F)</p> <p>Elevator</p> <p>Airline directory</p> <p>Level</p> <p>Row</p>	<p>Terminal ID</p> <p>Airline listing</p>	<p>Gates</p> <p>Ticketing</p> <p>Security screening</p> <p>Baggage claim</p> <p>Ground transportation</p> <p>Parking information</p>	<p>Restrooms</p> <p>Other terminals</p> <p>International arrivals</p>
<p>Secondary Messages</p> <p>The second priority is information that relates to specific amenities, services, and support functions, and information that supplements primary destination information.</p>	<p>Garage color code</p>	<p>Ground transportation zones</p>	<p>Elevator</p> <p>Directories</p> <p>Meeting point</p> <p>Concessions</p> <p>Services</p> <p>Taxi / Limo / Bus / Shuttles</p> <p>Economy parking</p> <p>Rental cars</p>	<p>Telephones</p> <p>Customs and Border Protection</p> <p>Automatic External Defibrillator (AED)</p> <p>Airport hotel</p> <p>USO</p>
<p>Tertiary Messages</p> <p>The third priority includes non-wayfinding information including regulatory messages, advertising and marketing, and other supplemental information.</p>	<p>Regulatory information</p>	<p>Regulatory information</p> <p>Smoking area</p> <p>Pet relief area</p>	<p>Room number</p> <p>Tenant name</p> <p>Regulatory information</p> <p>Advertising</p> <p>Marketing</p> <p>Employee information</p> <p>Restricted area message</p>	

Fig. 2.7: Message Hierarchy



General Guidelines

NOMENCLATURE

Consistency in nomenclature is essential to effective communication in a wayfinding program. Unless the same terms are used for the same destinations throughout, users cannot learn or develop confidence in the system.

Specific guidelines for nomenclature include:

1. Use commonly understood standard terms currently in use at PHL (see list below).
2. Use the same terms consistently for destinations and services.
3. As part of the signage and wayfinding program control process, evaluate nomenclature periodically and add or revise terms as needed.
4. Use English only for signs (associate written terms with symbols where appropriate to reinforce comprehension).
5. Use collective terms (e.g. Parking, Ground Transportation) for combined destinations where possible.

AIRPORT ID	CURBSIDES	BAGGAGE CLAIM	TERMINALS
Philadelphia International Airport	Philadelphia international Airport	Baggage Claim	All Gates
PHL	Terminal (A-East, A-West, B, C, D, E, F)	Ground Transportation	Gates (A, B, C, D, E, F)
	(Airline listing)	Terminal (A-East, A-West, B, C, D, E, F)	Shuttle to Gates
	Baggage Claim	Parking (A-East, A-West, B, C, D, E, F)	Connecting Flights
	Short Term Parking	Short Term Parking	Ticketing / Check-In
	Airport Marriott	Airport Marriott	Baggage Claim
	Taxi	Taxis	Oversized Baggage
	Limo	Limousines	Ground Transportation
	Charter Bus	Charter Buses	Parking (A-East, A-West, B, C, D, E, F) Airport Marriott
	Van Service	Vans	Center City Train
	Center City Train	Center City Train	Security Screening
	Hotel Courtesy Shuttle	Hotel Shuttles	USO
	Parking Courtesy Shuttle	Parking Shuttles	Meeting Point
	Rental Car Courtesy Shuttle	Rental Car Shuttles	Customs
	SEPTA Buses	Courtesy Shuttles	Agriculture
	Private Vehicles	SEPTA Buses	Passport Control
	Courier Service Couriers	Private Vehicles	Duty Free Shop
	Elevator	TDD Phone	Snack Bar
	PET PORT	Restrooms	International Arrivals Hall
		All Gates	Int'l Arrivals Hall
		Ticketing / Check-In	All Passengers
		Int'l Arrivals Hall	Telephones
			TDD Phone
			Information
			Elevator
			Restrooms
			Women
			Men
			Companion Care
			Automatic External Defibrillator

Fig. 2.8: Nomenclature



General Guidelines

SIGN LIGHTING

The new Sign Standards include both internally illuminated and externally illuminated sign types. A majority of the internally illuminated signs are designed with internal fluorescent fixtures; these include some existing sign cabinets that are retrofitted with new faces as part of the Signage Upgrade Project. All externally illuminated sign types have LED fixtures attached to the sign cabinets, and positioned to light the sign faces evenly without excessive light bleed, glare or hot spots.

Over time, it is anticipated that new sign types, including those that are internally illuminated, will be equipped with LED lighting.

Refer to Appendix A: Shop Drawings and Appendix B: Draft Specifications for details on lighting fixtures and mounting.



SECTION 3:
GRAPHIC STANDARDS

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



Graphic Standards

OVERVIEW

An effective wayfinding program consists of signage that is consistent in both appearance and application; this allows the viewer to become familiar with the system and use it efficiently.

The purpose of this section is to establish uniform standards for typography, symbols, arrows, iconography, colors, and graphic layouts for all signs in the airport wayfinding program.

The following pages contain specific guidelines for sign formats and layout, typeface families, arrows, symbols, and color standards. These guidelines are reflected in the designs for the new sign families shown in Section 4. In addition, these guidelines should be followed for the design of any additional sign types required at PHL in the future.

SIGN FORMAT AND LAYOUT

Sign format refers to the ordering, positioning and size of the graphics that appear on sign faces in a wayfinding program. As is the case with other design elements, consistency in formatting helps the viewer see and understand the information on the sign quickly.

The primary goal for sign formatting is to support readability and ease of comprehension. Text, arrows, and symbols should be sized appropriately for viewing at the required distances. Letter and line spacing should be adjusted for maximum legibility.

Signs should be designed to accommodate the proper amount of information based on location, viewing conditions, and wayfinding needs at decision points.

The layout grids shown on this page have been developed to define sizes and relationships for text and graphics on directional sign faces throughout the new sign standards program. The standard layout for interior overhead directional signs is designed to accommodate a maximum of three lines of text and symbols. Directional arrows are placed on a red background for emphasis. Size and spacing of text and symbols are standardized to provide a consistent viewing experience for the user.

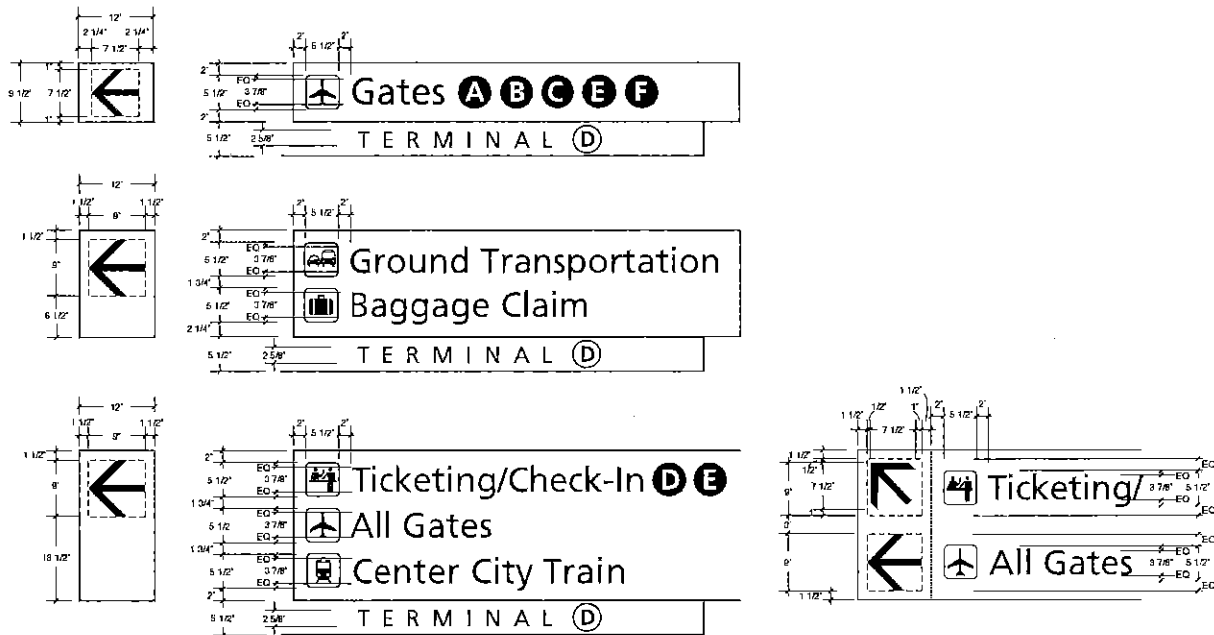


Fig. 3.1: Directional Sign Layout Grid - Proportion and Spacing of Arrows, Symbols, Text and Icons



Graphic Standards

TYPEFACE FAMILIES

The Frutiger font family, a typeface widely used in airports, has been selected as the standard typeface for the new signage standards program, and is to be used for all terminal and curbside signage at PHL. Typeface selections for individual sign types have been chosen for visibility, legibility and readability.

Frutiger 55 Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Frutiger 65 Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Frutiger 56 Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Frutiger 66 Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Fig. 3.2: Project typefaces

Graphic Standards

LETTER SPACING

Proper letter spacing fosters good readability, especially when white or light-colored letters are placed on a darker background, where tight letter spacing can often cause letters to appear to merge. For text created using Adobe Creative Suite or similar graphics applications, two settings should be customized for signage text at PHL: kerning should be set to "Optical," and Tracking should be set to 20 for slightly open spacing.

Ground Transportation
Tracking: 0



Ground Transportation
Tracking: 20 – PHL STANDARD

Ground Transportation
Tracking: 50



Fig. 3.3: Letter Spacing

LETTER HEIGHT

All text dimensions are measured by the capital height of squared letters such as E, T and I. Do not measure by the ascenders in letters such as d, l and t, or by rounded capital letters such as G, O and S.

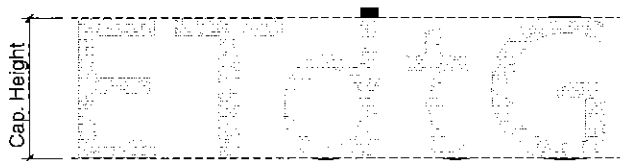


Fig. 3.4: Letter Height

ARROWS

For all airport non-roadway directional signage, the standard is a simple arrow shape with a medium-weight stroke.

For directional signage, the standard for arrow placement is to the left of symbols and text. Typically, direction straight ahead is indicated with an up arrow (UA). Up/left (ULA) and up/right (URA) arrows should be used only when the change in direction occurs immediately after the sign location, and should be avoided in locations where the intent could be misconstrued as indicating a vertical change (e.g. next to an escalator).

Down (DA), down/left (DLA), and down/right (DRA) arrows should be used only to indicate travel that includes a level change (e.g. at a stair, escalator or ramp).

Use artwork provided by designer. Arrow will be square

Diagonal arrow to be inset inside square defined by horizontal arrow

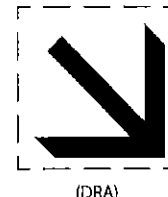
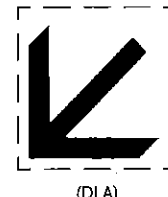
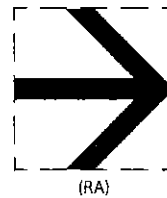
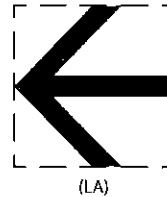


Fig. 3.5: Project Arrows



Graphic Standards

SYMBOLS

Symbols play an important role in wayfinding communication, especially for travelers who do not read English. When paired with text, symbols can function as a learned "shorthand" for viewers; some common symbols can function as stand-alone communicators.

The PHL symbol standards are based on the family of symbols developed by the American Institute of Graphic Arts (AIGA). These symbols are widely used and recognized by travelers worldwide.

The abbreviations to the left of each symbol are to be used when producing a message schedule for any new signs being fabricated or existing signs being altered.

As part of the signage and wayfinding program control process, symbol usage and needs should be periodically evaluated and new symbols added as needed.


(AG)  Agriculture	(G)  Gates	(RC)  Rental Cars
(AMH)  Airport Marriott	(GT)  Ground Transportation	(UNI)  Restrooms
(AED)  AED	(H)  Accessible	(SCP)  Security Screening
(BC)  Baggage Claim	(HS)  Hotel Shuttle	(SEP)  SEPTA Bus
(BI)  Bicycle	(I)  Information	(S)  Shops / Gifts
(CB)  Charter Bus	(IA)  International Arrivals Hall	(SB)  Snacks / Food
(CC)  Companion Care	(ICF)  In Case of Fire...	(ST)  Stair
(CO)  Computer	(L)  Limousines	(TX)  Taxi
(CSB)  Courtesy Shuttle Bus, Shuttle, Rental Car Shuttle	(M)  Men	(G)  Terminal
(CU)  Customs	(MP)  Meeting Point	(TDD)  TDD Phone
(DNE)  Do Not Enter	(P)  Parking	(TCI)  Ticketing/Check-In
(EL)  Elevator	(PP)  Passport	(TR)  Center City Train
(ESD)  Escalator (Down)	(PC)  Pedestrian Crossing	(USO)  USO
(ESU)  Escalator (Up)	(PC2)  Pedestrian Crosswalk	(VS)  Vans
(EX)  Exit	(PH)  Phone	(W)  Women
(EXW)  Express Walkway	(PV)  Private Vehicles	
 Walk Left	 Stand Right	



Fig. 3.6: Project Symbols

Graphic Standards

TERMINAL ID ICONS

A set of unique terminal icons has been designed for PHL that will stand out on directional signage. These will be displayed in a consistent manner throughout the wayfinding system to help departing and connecting passengers navigate to their destinations in a minimum amount of time. The abbreviations in parentheses are to be used when producing a message schedule for any new signs being fabricated or existing signs being altered.

Proper spacing between text and icons is shown below.

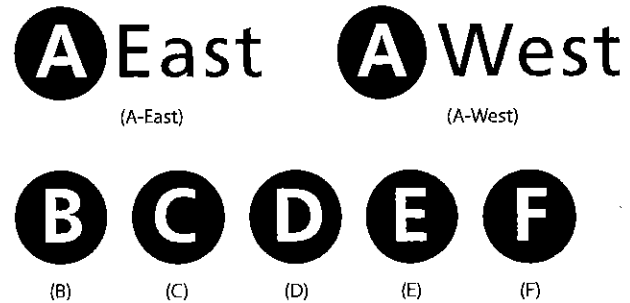


Fig. 3.7: Terminal ID icons

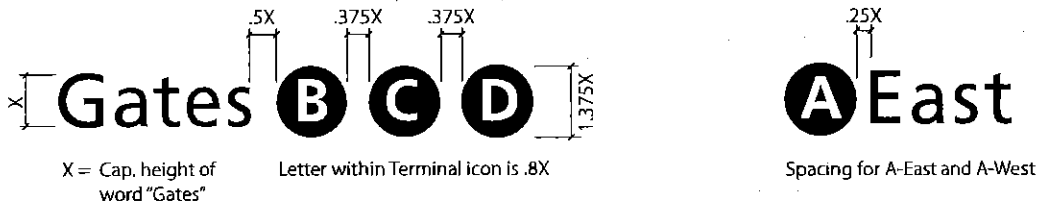


Fig. 3.8: Terminal ID icon and text spacing

When the terminal icons are placed on the grey band at the bottom of a sign, they should be reversed, with a positive terminal letter and a thin ring for the circle. The spacing of the text and terminal icon is shown below. The entire graphic should be centered on the grey band.

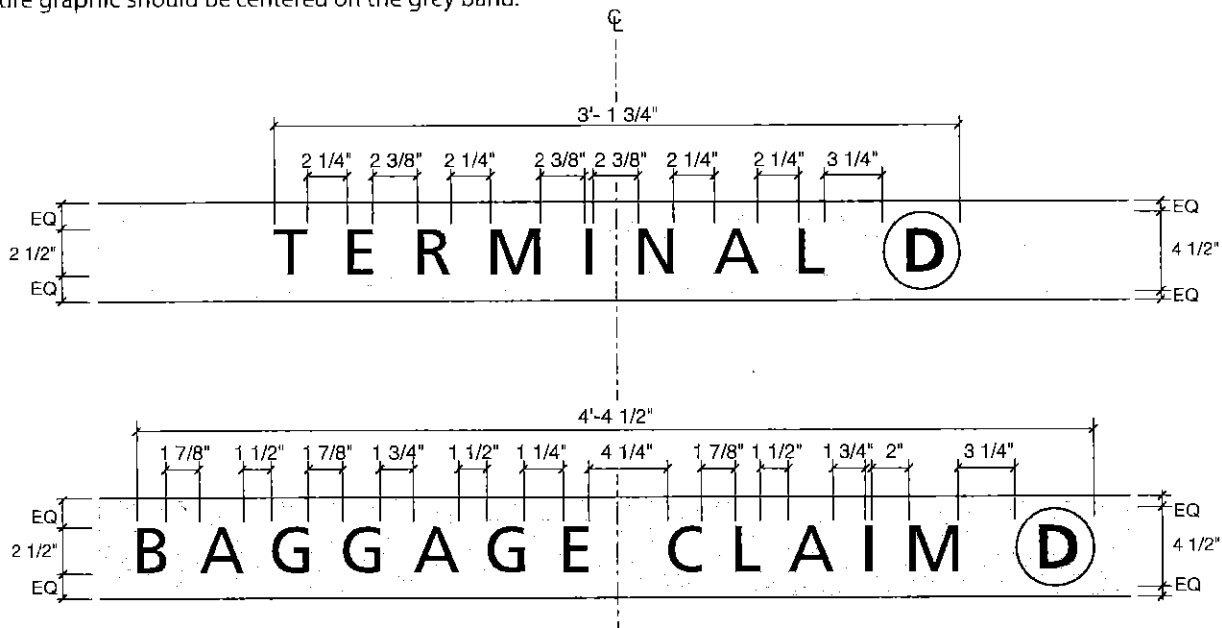


Fig. 3.9: Terminal ID icon and text on gray sign bands



Graphic Standards

COLORS

Colors can serve different functions in an airport wayfinding program.

Sign colors can help express the airport identity or brand. As a system, a color scheme can help to unify and define a site and its facilities.

The selection of contrasting colors for sign faces and graphics can support readability. The use of a single primary background color for wayfinding, and the reservation of that color for wayfinding signage, helps the viewer to locate and focus on important wayfinding information.

The primary colors for PHL interior signs are black, white, red and gray. Primary colors for curbside signs are blue and white.

















C1  Paint – satin finish To match Benjamin Moore 2126 Black Tar	C7  Translucent vinyl 3M™ Scotchcal™ 3630-167 Bright Blue	C14  Clear anodic finish with clear finish coat
C2  Paint – satin finish Light gray to match Sherwin Williams SW6248 Jubilee	C8  Translucent white, masked out of background	C15  Paint – satin finish To match Matthews MP10190 Highway Yellow
C3  Opaque vinyl 3M™ Scotchcal™ 7725-13 Tomato Red	C9  Paint – satin finish White to match 3M™ Scotchcal™ 7725-20 Matte White	C22  Opaque vinyl Light grey to match Sherwin Williams SW6248 Jubilee
C4  Opaque vinyl 3M™ Scotchcal™ 7725-20 Matte White	C10  Paint – satin finish To match Matthews MP13539 Dominican Green	C23  Paint – satin finish To match Matthews MP13795 Graynola
C5  Opaque vinyl 3M™ Scotchcal™ 7725-22 Matte Black	C11  Reflective vinyl 3M™ Scotchcal™ 3650 Reflective White	
C6  Paint – satin finish To match Matthews MP00973 Diner Door Blue	C13  Paint – matte finish To match Matthews MP10256 Esprit Red	

Fig. 3.10: Project colors



SECTION 4: **SIGN TYPES**

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



Sign Types

OVERVIEW

This section contains visual representations for the family of sign types developed for the PHL Sign Standards program.

The pages at the beginning of this Section contain sign type family overviews for each sign category in the program—Directional, Identification, Informational, and Regulatory. These overviews are useful for quick reference when selecting signs to address a specific signage need.

The overviews are followed by pages showing each individual sign type in detail. Each sign type page includes a brief description of the sign's intended use, location, materials, lighting and mounting. These individual sign description pages are intended to help the user understand how each sign is used in developing a comprehensive sign program.

PLEASE NOTE: The text and graphics shown on the drawings for individual sign types on the following pages are included for illustration only. Actual text, graphics and layouts for all sign types and locations will be determined as part of each sign implementation package.

Any structural and mounting elements are shown for reference. The Sign Contractor shall have final responsibility for all structural details and shall provide structural drawings stamped by a licensed Structural Engineer for each signage implementation project.



Sign Type Family: Directional



DIOH1.1



DIOH1.2



DIOH1.3



DIOH2.1



DIOH2.2



DIOH2.3



DIOH3.1



DIOH3.2



DIOH3.3

Mounting note: DIOH sign types may be suspended, ceiling-mounted, or surface-mounted.

Sign Type Family: Directional



DIOH4.1



DIOH4.2



DIOH4.3



DIOH5.1



DIOH5.2



DIOH5.3



DIOH6.1



DIOH6.2



DIOH6.3

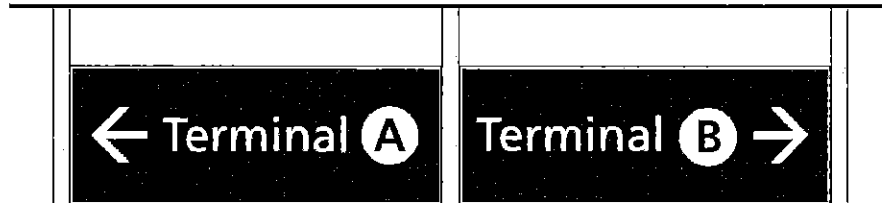
Mounting note: DIOH sign types may be suspended, ceiling-mounted, or surface-mounted.



Sign Type Family: Directional



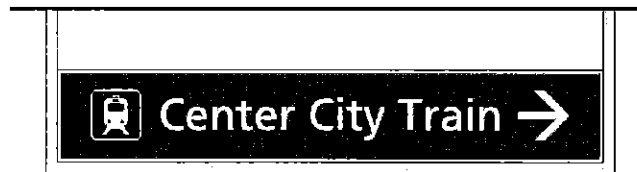
DIOH7.1 (Suspended)
DIOH7.2 (Ceiling-Mounted)
DIOH7.3 (Flag-Mounted)



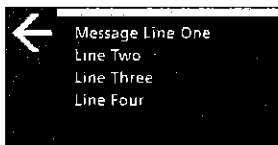
DIOH8-R



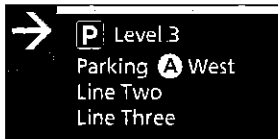
DIWM1



DIOH9-R



DIWM2.1



DIWM2.2



DIWM2.3



DIWM2.4



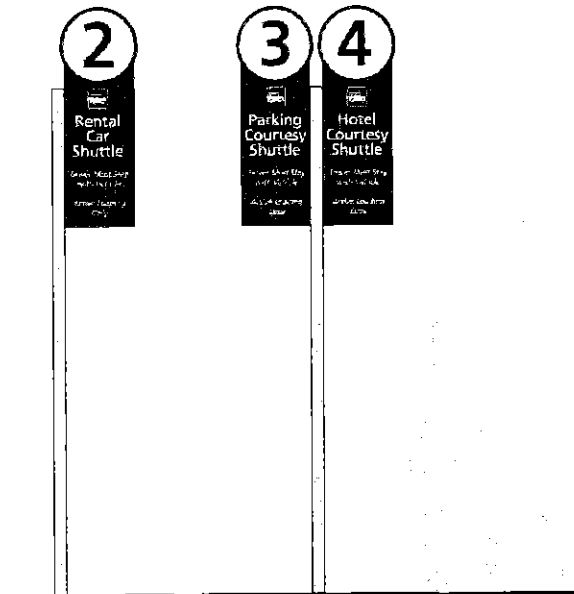
DIWM3



DIFS1

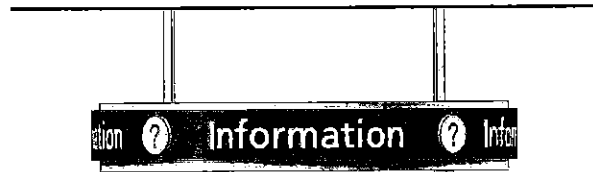


Sign Type Family: Identification



IDFS1.1

IDFS1.2



IDOH1.1



IDOH1.2 (Suspended)
IDOH1.3 (Ceiling-mounted)
IDOH1.4 (Wall-mounted)



IDOH2.2



IDOH2.3



IDOH3



IDOH4.1



IDOH4.2



IDOH5.1



IDOH5.2



IDOH6



IDOH7.1 (Ceiling-mounted)
IDOH7.2 (Wall-mounted)



IDOH8.1 (Ceiling-mounted)
IDOH8.2 (Flag-mounted)
IDOH8.3 (Angled flag)
IDOH8.4 (Wall-mounted)



IDOH9.1 (Ceiling-mounted)
IDOH9.2 (Flag-mounted)
IDOH9.3 (Angled flag)
IDOH9.4 (Wall-mounted)

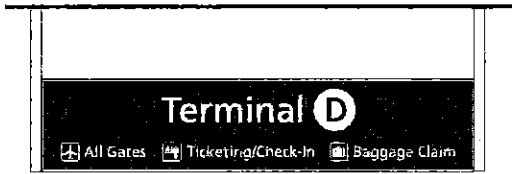


IDOH10.1 (Suspended)
IDOH10.2 (Flag-mounted)
IDOH10.3 (Wall-mounted)

Sign Type Family: Identification



IDOH11



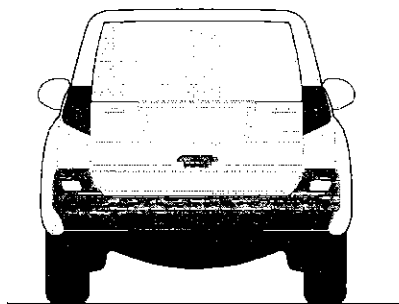
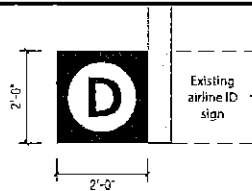
IDOH12-R



IDOH13



IDOH14



IDOH16



IDOH15



IDOH18



IDOH19-R



Sign Type Family: Identification



ELEVATOR

IDWM1.1



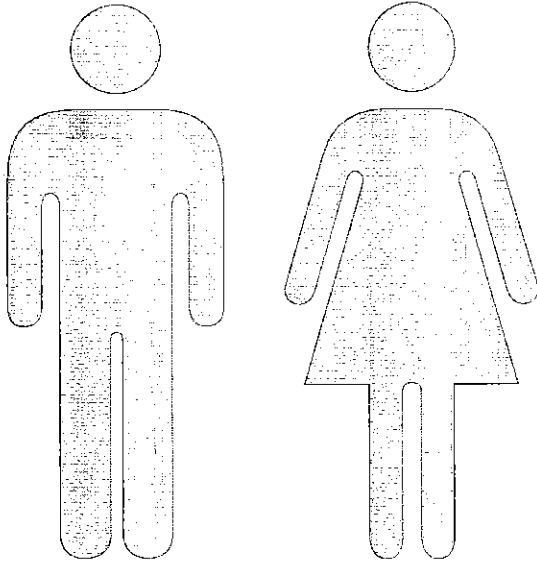
COMPANION CARE

IDWM1.2



AED
AUTOMATIC
EXTERNAL
DEFIBRILLATOR

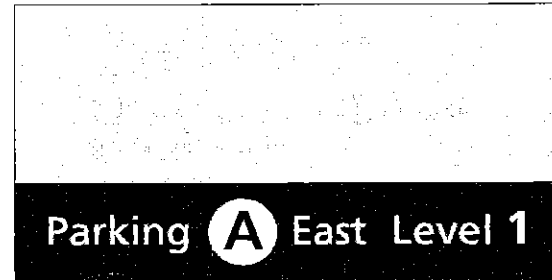
IDWM2.1



IDWM3



IDWM4.1



IDWM4.2



Sign Type Family: Informational



INOH1.1 (Suspended)
 INOH1.2 (Ceiling-mounted)
 INOH1.3 (Wall-mounted)



INOH2.1 (Suspended)
 INOH2.2 (Ceiling-mounted)
 INOH2.3 (Wall-mounted)



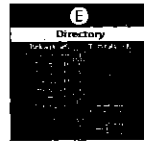
INOH2.4



INWM1.1



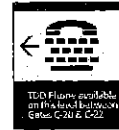
INWM1.2



INWM2



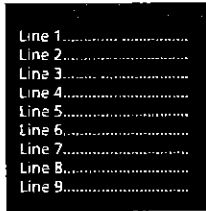
INWM3



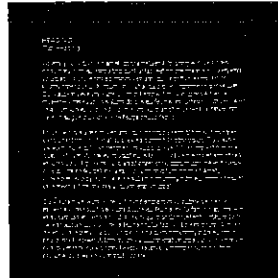
INWM4



INWM5



INWM6



INWM7



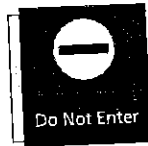
Sign Type Family: Regulatory



REOH1.1 (Suspended)
REOH1.2 (Wall-mounted)



REOH2



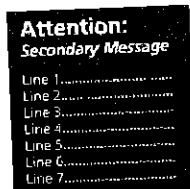
REOH3



REWM1.1



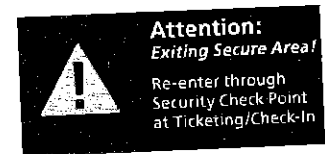
REWM2.1



REWM3



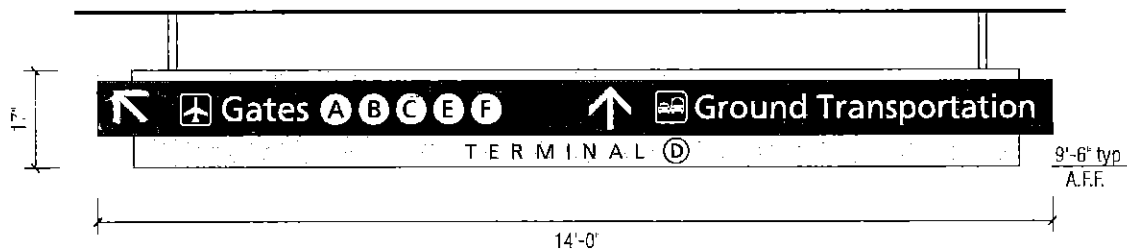
REWM4



REWM5

Sign Type DIOH1.2: Overhead Directional (1-line text / 2-panel)

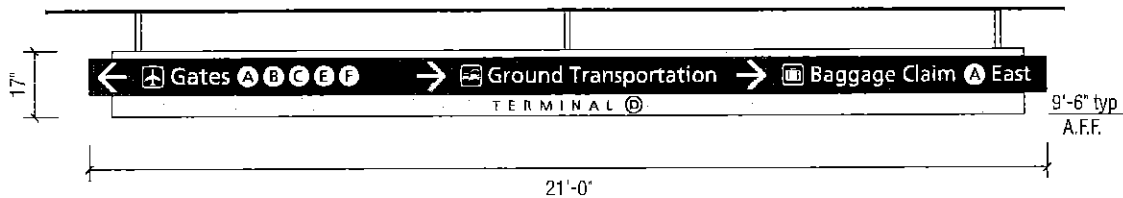
- Use:** Displays major directional information for pedestrians (2-direction / 2-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH1.3: Overhead Directional (1-line text / 3-panel)

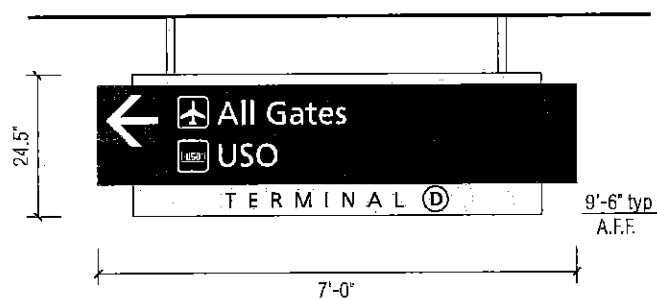
- Use:** Displays major directional information for pedestrians (3-direction / 3-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 1/4" = 1'-0"

Sign Type DIOH2.1: Overhead Directional (2-line text / 1-panel)

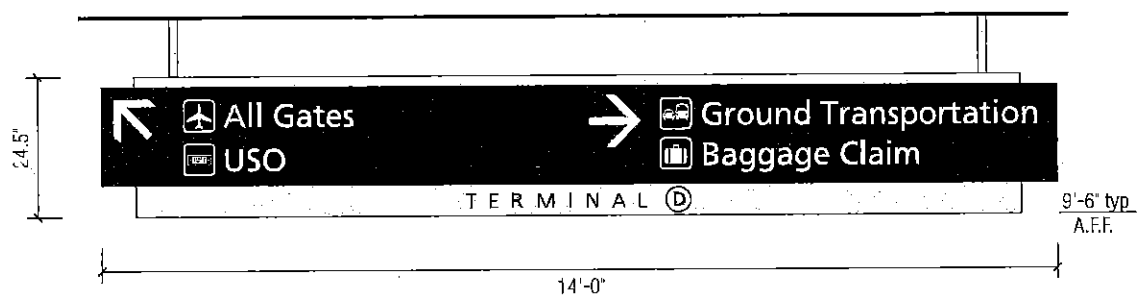
- Use:** Displays major directional information for pedestrians (1-direction / 2-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH2.2: Overhead Directional (2-line text / 2-panel)

- Use:** Displays major directional information for pedestrians (2-direction / 4-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"



Sign Type DIOH2.3: Overhead Directional (2-line text / 3-panel)

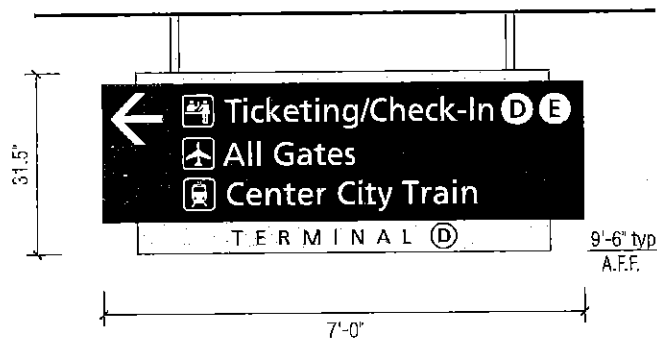
- Use:** Displays major directional information for pedestrians (3-direction / 6-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 1/4" = 1'-0"

Sign Type DIOH3.1: Overhead Directional (3-line text / 1-panel)

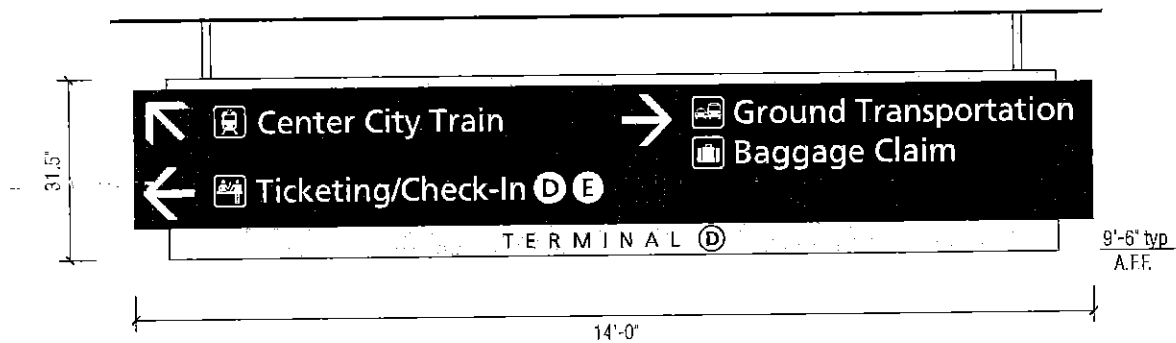
- Use:** Displays major directional information for pedestrians (1-direction / 3-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH3.2: Overhead Directional (2-line text / 2-panel)

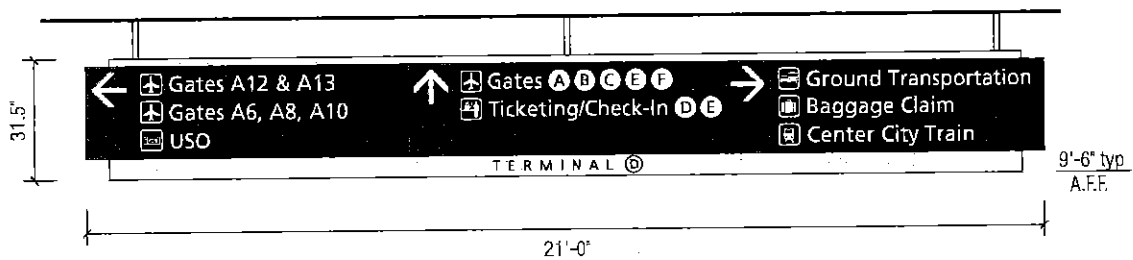
- Use:** Displays major directional information for pedestrians (2-direction / 6-destination maximum). Note: sign shown with optional 2-direction single-panel layout—this layout may be used for any 3-line panel where there is a need to indicate multiple directions.
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH3.3: Overhead Directional (3-line text / 3-panel)

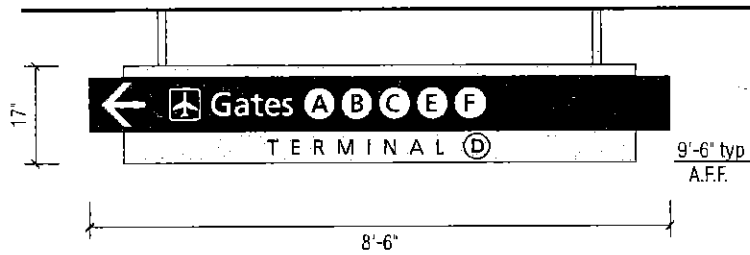
- Use:** Displays major directional information for pedestrians (3-direction / 9-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 1/4" = 1'-0"

Sign Type DIOH4.1: Overlaid Directional-Width (1-line text / 1-panel)

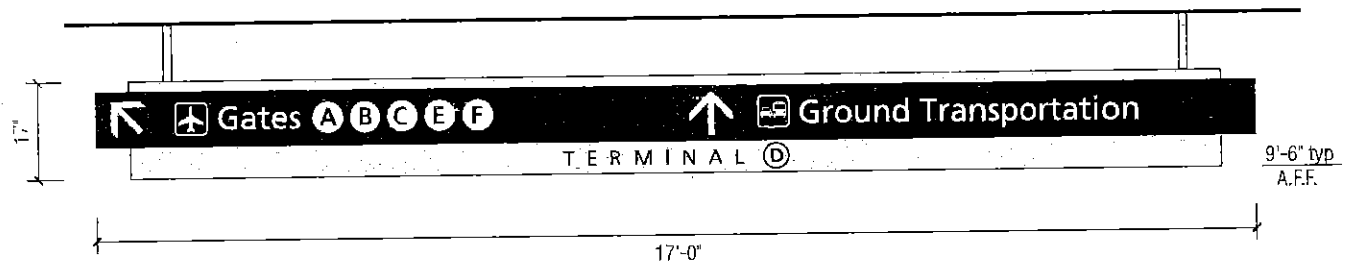
- Use:** Displays major directional information for pedestrians (1-direction / 1-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH4.2: Overhead Directional-Wide (1-line text / 2-panel)

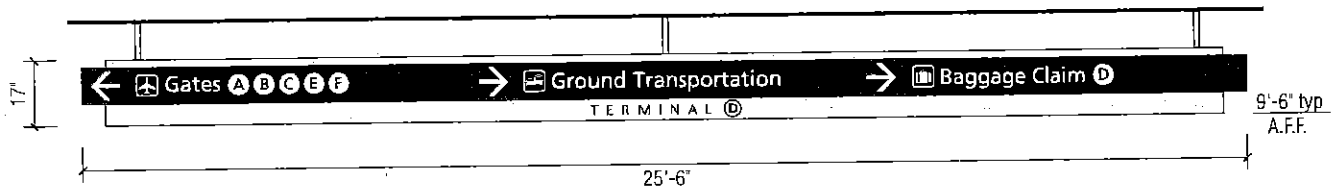
- Use:** Displays major directional information for pedestrians (2-direction / 2-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type D10H4.3: Overhead Directional-Wide (9-Line text / 3-panel)

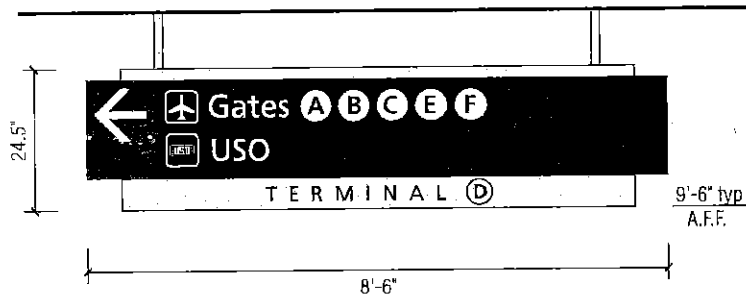
- Use:** Displays major directional information for pedestrians (3-direction / 3-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 1/4" = 1'-0"

Sign Type DIOH5.1: Overhead Directional-Wide (2-line text / 1-panel)

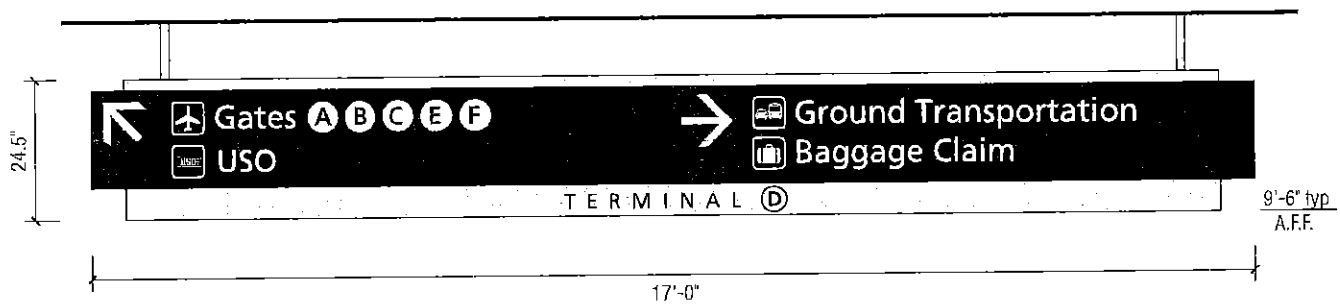
- Use:** Displays major directional information for pedestrians (1-direction / 2-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH5.2: Overhead Directional-Wide (2-line text / 2-panel)

- Use:** Displays major directional information for pedestrians (2-direction / 4-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

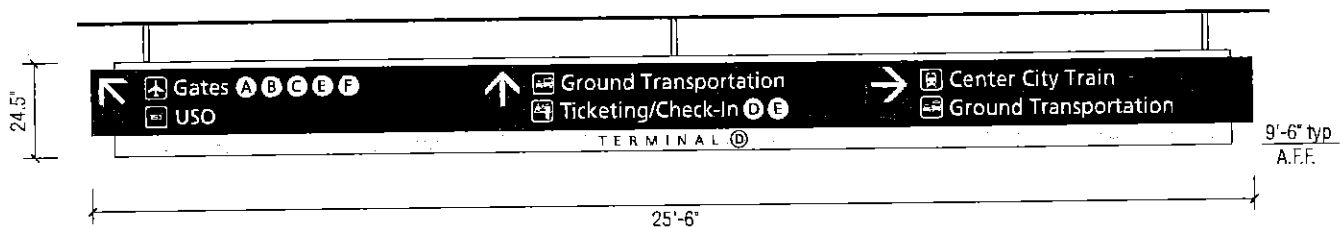


Sign Type DIOH5.3: Overhead Birectional—Wide (2-line text / 3-panel)

- Use:** Displays major directional information for pedestrians (3-direction / 6-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



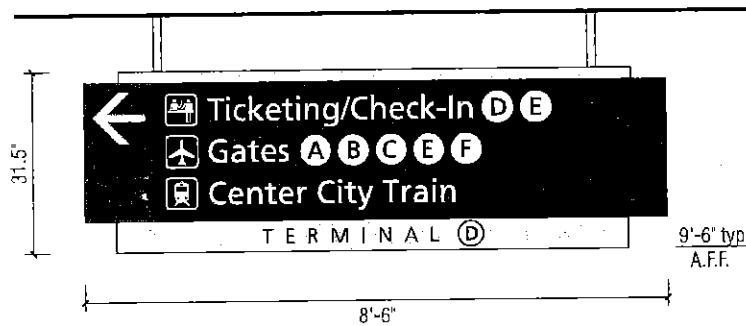
Alternate Panel Layout



Scale: 1/4" = 1'-0"

Sign Type DIOH6.1: Overhead Directional-White (3-line text / 1-panel)

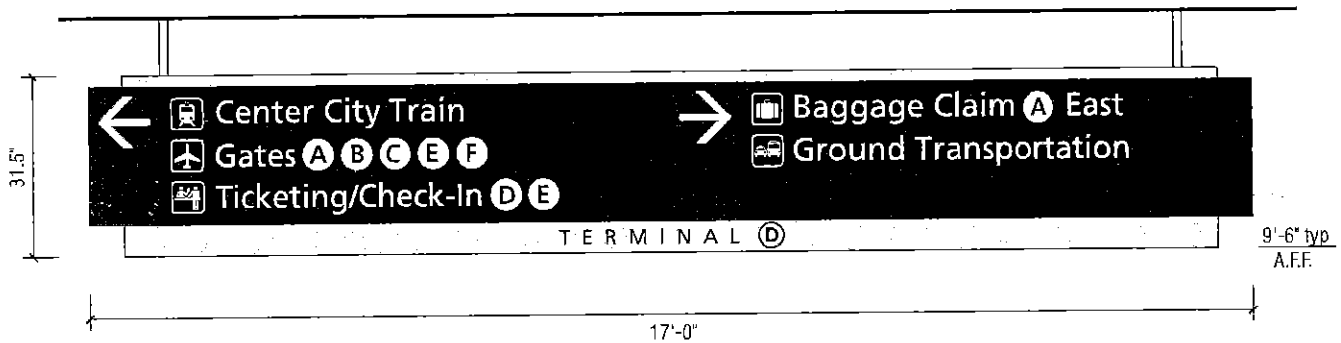
- Use:** Displays major directional information for pedestrians (1-direction / 3-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH6.2: Overhead Directional- Wide (3-line text / 2-panel)

- Use:** Displays major directional information for pedestrians (2-direction / 6-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

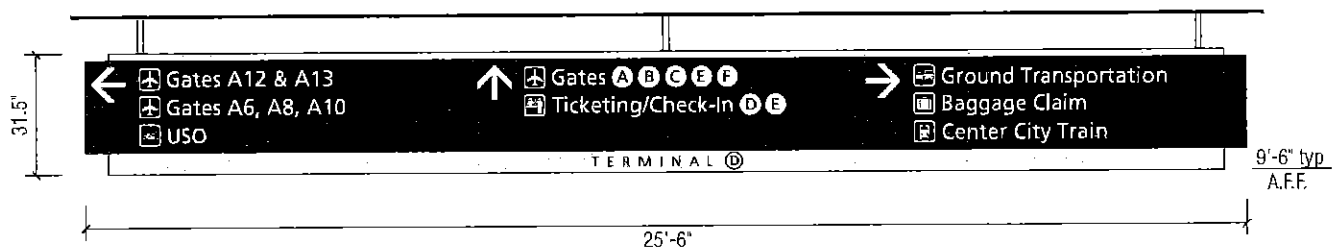


Scale: 3/8" = 1'-0"



Sign Type DIOH6.3: Overhead Directional-Wide (3-line text / 3-panel)

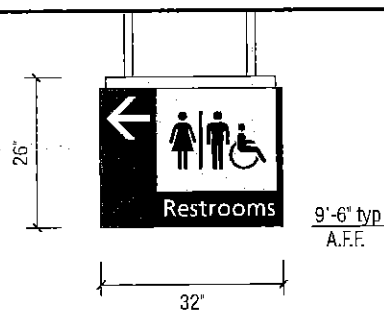
- Use:** Displays major directional information for pedestrians (3-direction / 9-destination maximum).
- Location:** Major pedestrian decision points.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 1/4" = 1'-0"

Sign Type D10H7.1: Staff Directional

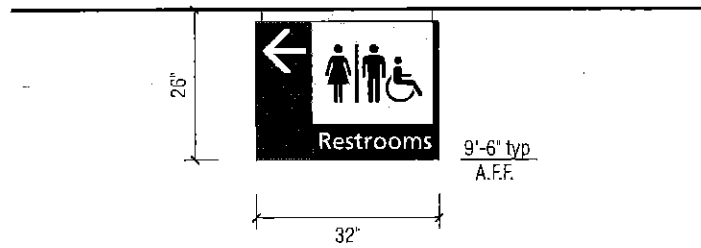
- Use:** Displays amenity-related directional information for pedestrians.
- Location:** Pedestrian decision point for visually obstructed destination.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type D10H7.2: Small Directional

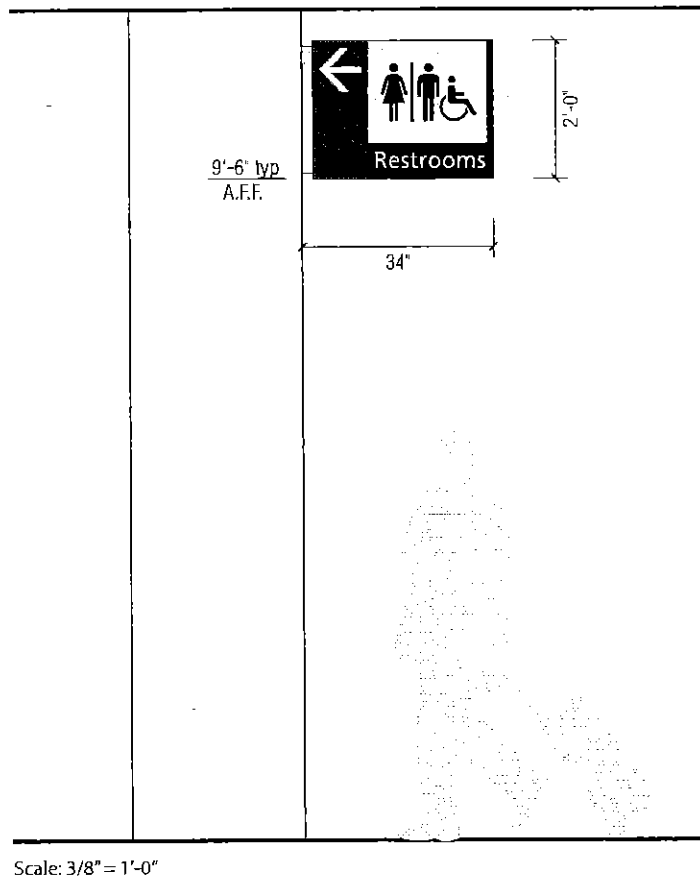
- Use:** Displays amenity-related directional information for pedestrians.
- Location:** Pedestrian decision point for visually obstructed destination.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH7.3: Small Directional

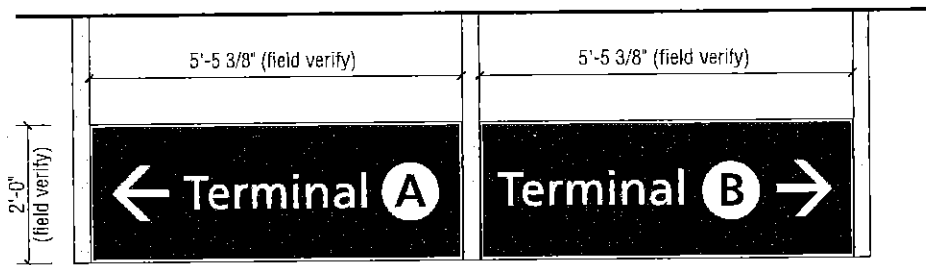
- Use:** Displays amenity-related directional information for pedestrians.
- Location:** Pedestrian decision point for visually obstructed destination.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH8-R: Directional Metro

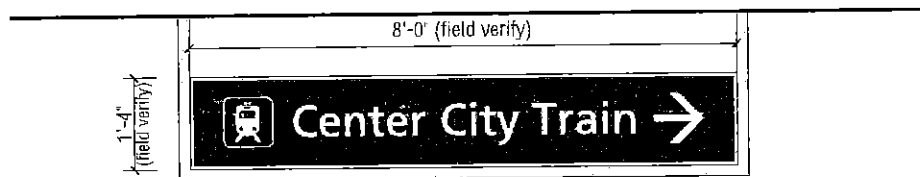
- Use:** Displays major directional information for pedestrians. Note: sign shown is an existing sign retrofitted to match new sign standards.
- Location:** Train platform.
- Materials:** Translucent sign face with applied vinyl graphics; installed in existing sign structure.
- Lighting:** Existing.
- Mounting:** Existing.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIOH9-R: Directional Retrofit

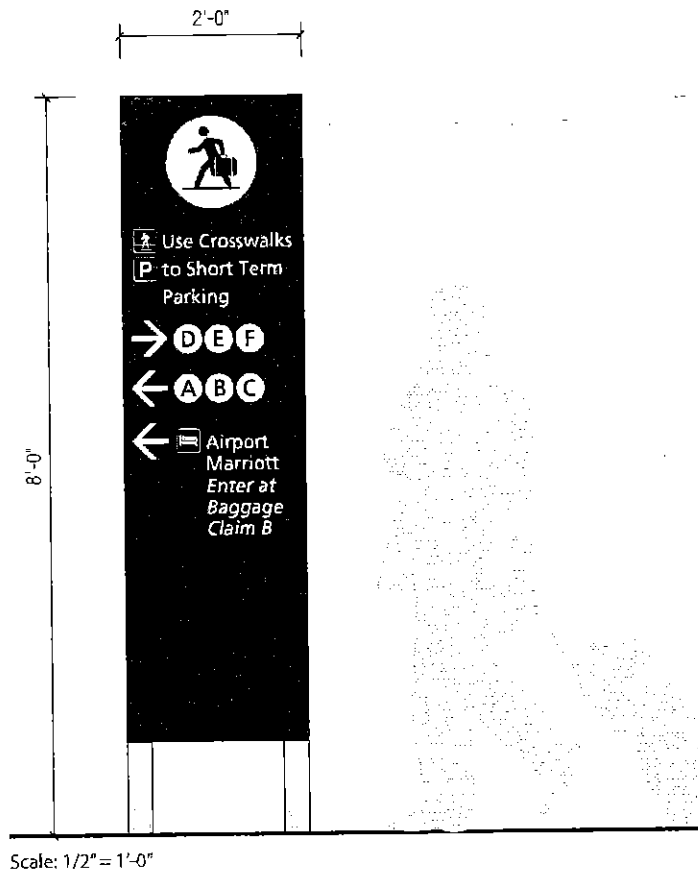
- Use:** Displays major directional information for pedestrians. Note: sign shown is an existing sign retrofitted to match new sign standards.
- Location:** Train platform.
- Materials:** Translucent sign face with applied vinyl graphics; installed in existing sign structure.
- Lighting:** Existing.
- Mounting:** Existing.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type DIFS1: Curbside Pedestrian Directional

- Use:** Displays directional information for pedestrians.
- Location:** Baggage Claim curbside.
- Materials:** Anodized aluminum supports; painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Freestanding.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type DIWM1: *Wall-Mounted Directional*

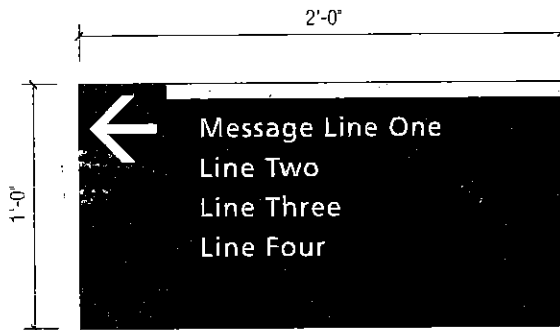
- Use:** Displays secondary directional information for pedestrians.
- Location:** Pedestrian decision point.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



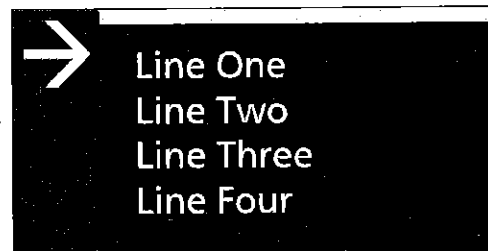
Scale: 3/4" = 1'-0"

Sign Types DIWM2: Wall-Mounted Directionals

- Use:** Displays secondary directional information for pedestrians.
- Location:** Pedestrian decision point.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



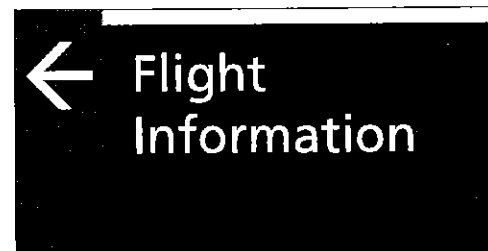
Sign Type DIWM2.1



Sign Type DIWM2.2



Sign Type DIWM2.3

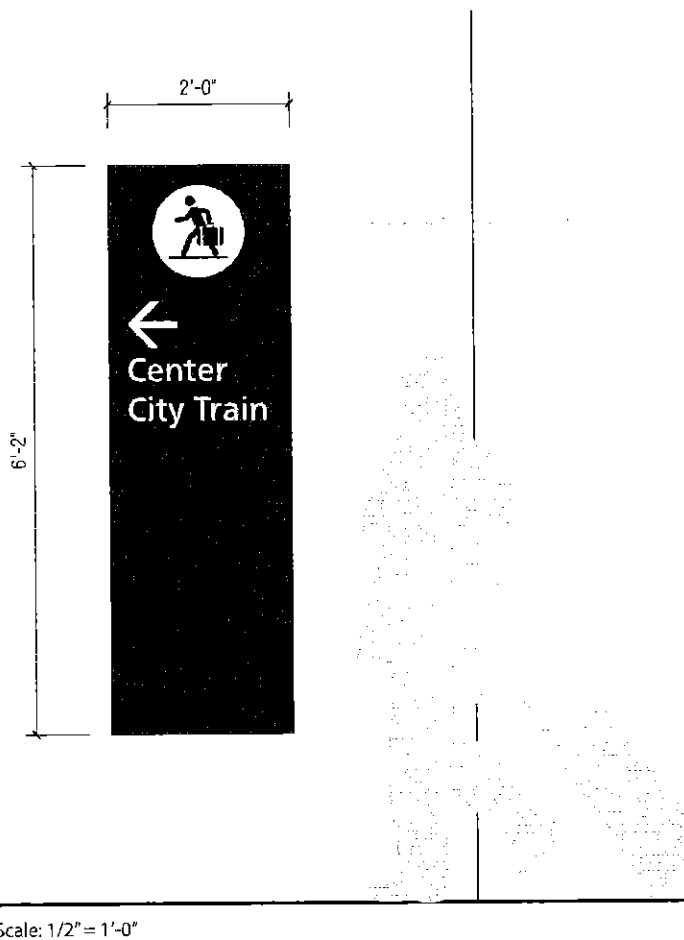


Sign Type DIWM2.4

Scale: 1" = 1'-0"

Sign Types DIWM3: Wall-Mounted Directional - Corbeils

- Use:** Displays secondary directional information for pedestrians.
- Location:** Pedestrian decision point.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



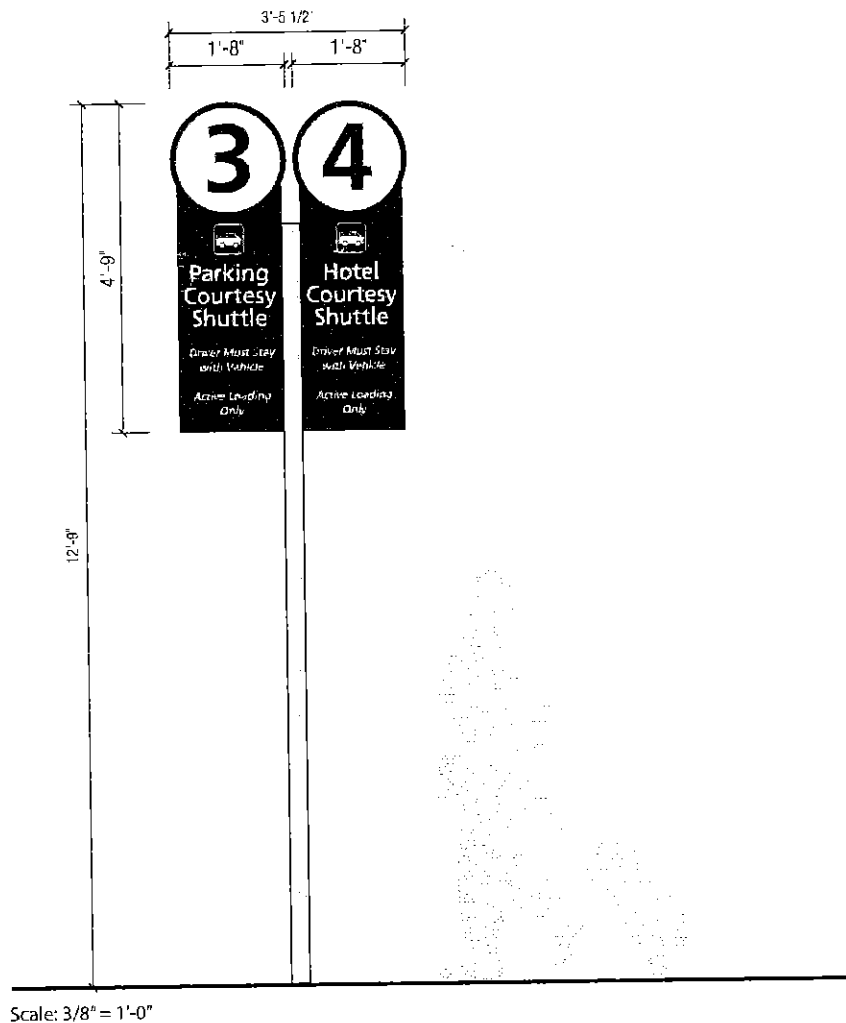
Sign Type IDFS1.1: Curbside Single Zone Identification

- Use:** Displays Ground Transportation Zone identification and information.
- Location:** Baggage Claim curbside.
- Materials:** Anodized aluminum supports; painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Freestanding.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



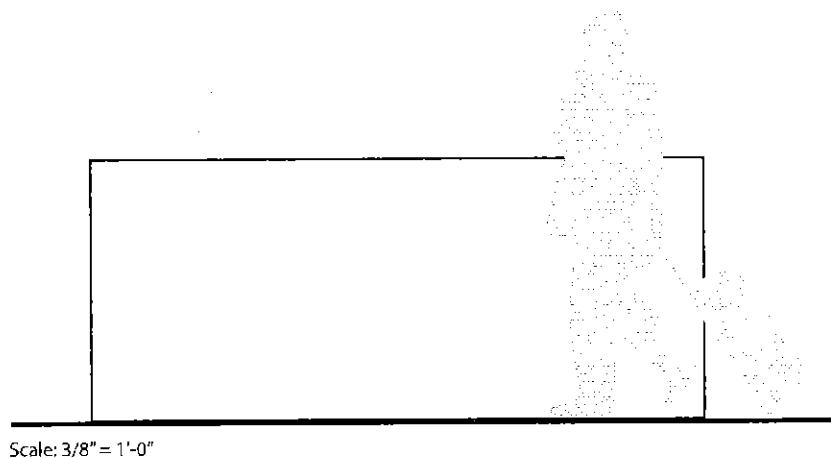
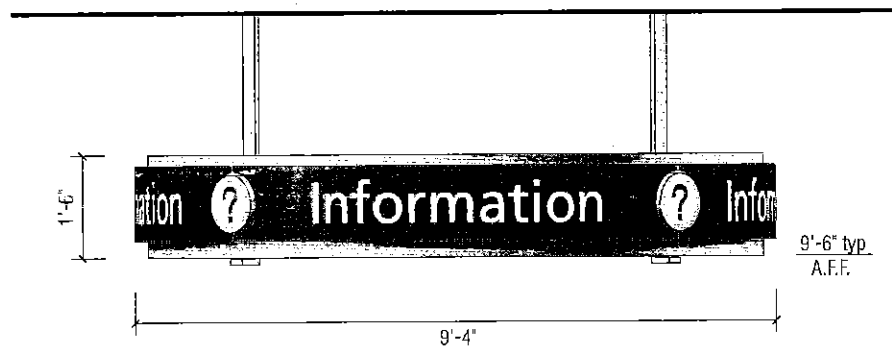
Sign Type IDFS1.2: Curbside Dual Zone Identification

- Use:** Displays Ground Transportation Zone identification and information (shared curb locations).
- Location:** Baggage Claim curbside.
- Materials:** Anodized aluminum supports; painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Freestanding.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type IDOH1.1: Overhead Identification

- Use:** Displays Information booth identification (360-degree display).
- Location:** Above Information booth.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

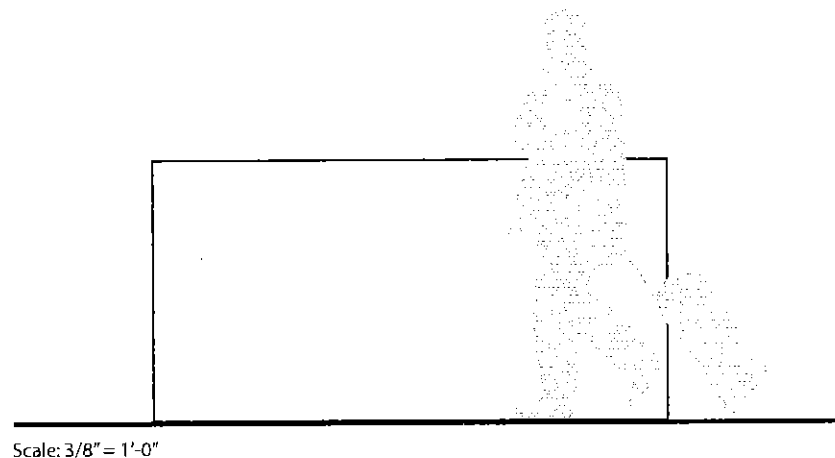
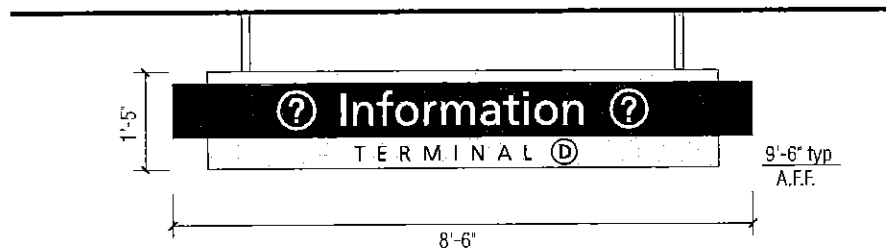


Sign Type IDOH1.2: ~~Overhead Identification~~

- Use:** Displays Information booth identification (2-sided display).
- Location:** Above Information booth.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

② Ground Transportation ②

Alternate Panel Layout

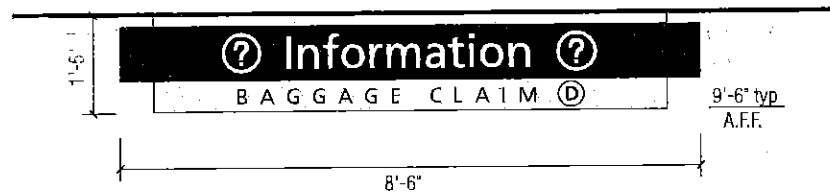


Sign Type IDOH1.3: Overhead Identification

- Use:** Displays Information booth identification (2-sided display).
- Location:** Above Information booth.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

⓪ Ground Transportation ⓪

Alternate Panel Layout



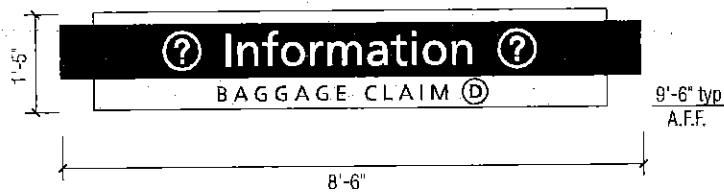
Scale: 3/8" = 1'-0"

Sign Type IDOH1.4: Overhead Identification

- Use:** Displays Information booth identification (2-sided display).
- Location:** Above Information booth.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

⓪ Ground Transportation ⓪

Alternate Panel Layout

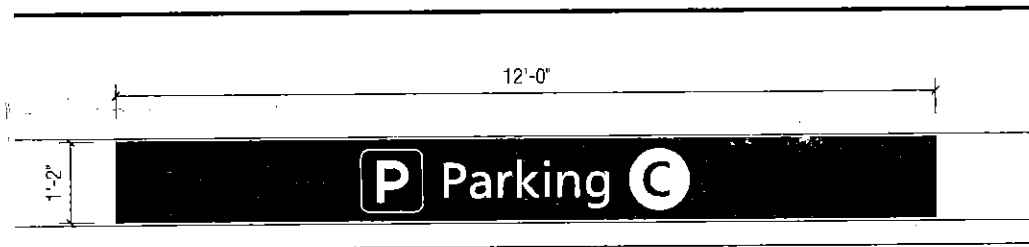


Scale: 3/8" = 1'-0"



Sign Type IDOH2.2: Overhead Identification

- Use:** Displays Parking Garage identification.
- Location:** Garage entry from terminal bridge. Note: sign sized to fit available space.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted in niche.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

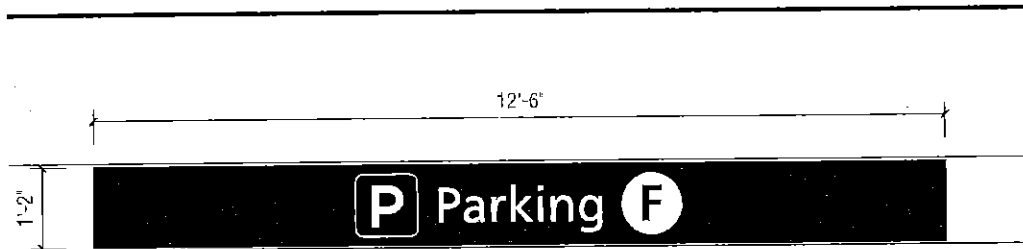


Scale: 3/8" = 1'-0"



Sign Type IDOH2.3: Overhead Identification

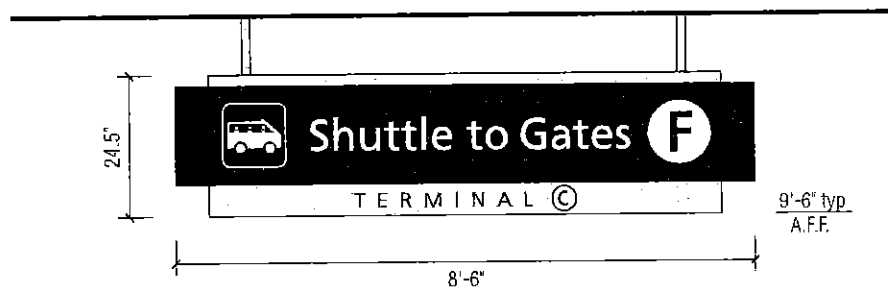
- Use:** Displays Parking Garage identification.
- Location:** Garage entry from terminal bridge. Note: sign sized to fit available space.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted in restrictive bulkhead area.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH3: Overhead Identification

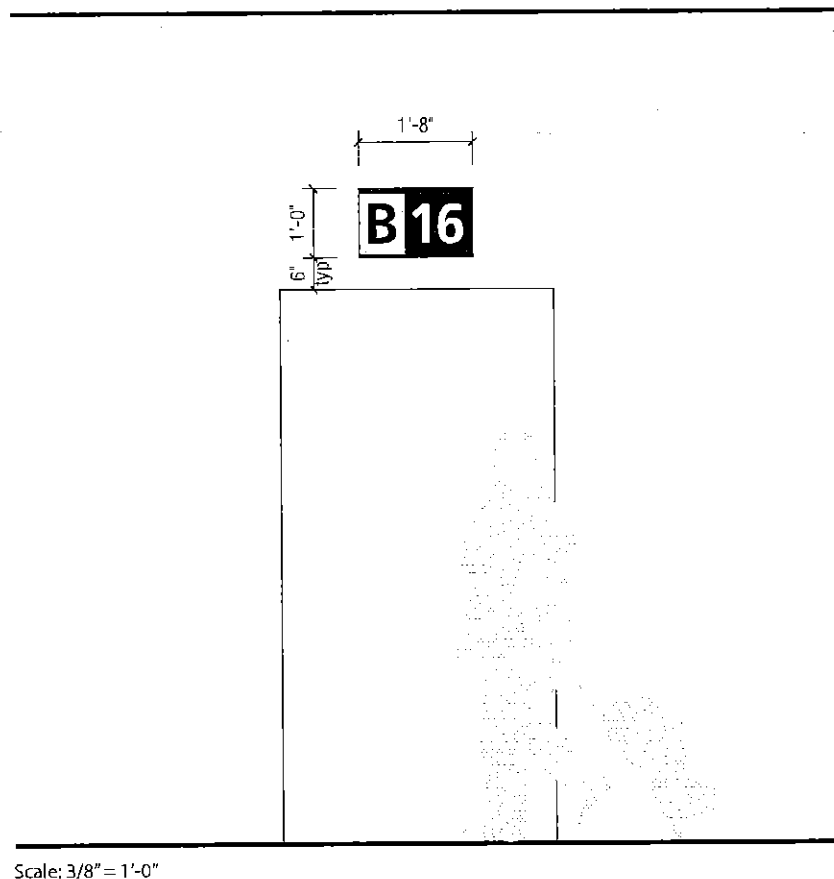
- Use:** Displays shuttle stop identification.
- Location:** At entrance to shuttle departure area.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

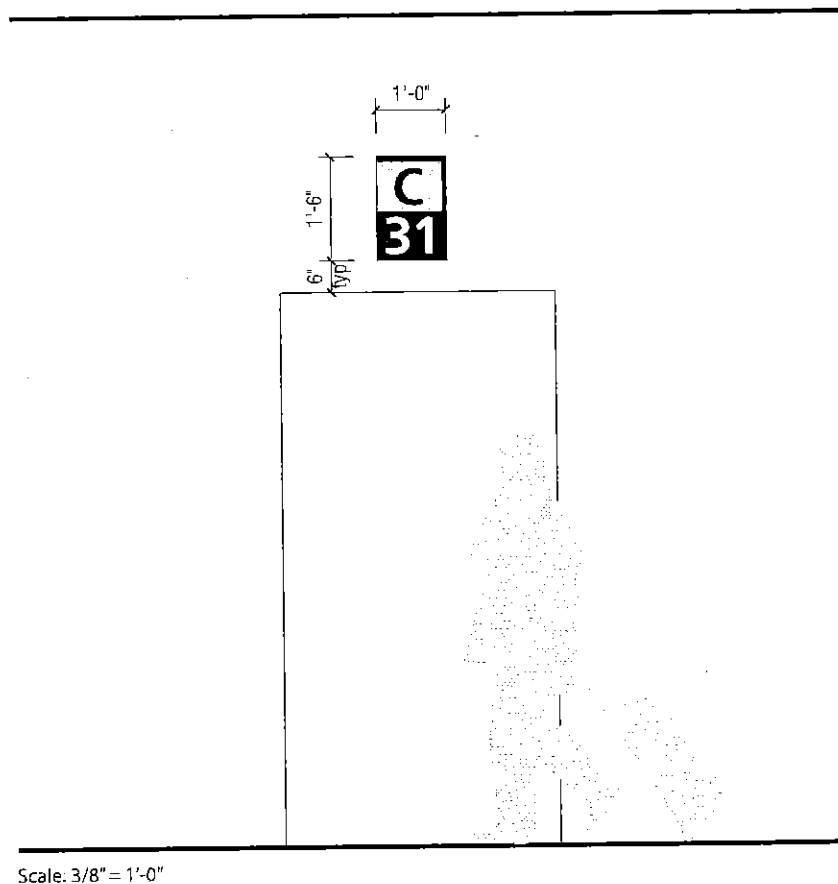
Sign Type IDOH4.1: Jetway Entrance Identification – Horizontal

- Use:** Displays Gate number.
- Location:** Above entrance to jetway.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



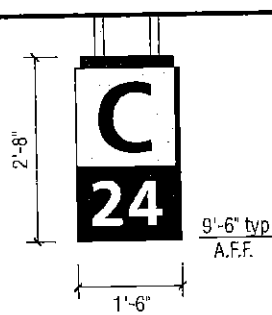
Sign Type IDOH4.2: Jetway Entrance Identification - Vertical

- Use:** Displays Gate number.
- Location:** Above entrance to jetway.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A; Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type IDOH5.1: Gate Identification

- Use:** Displays Gate number.
- Location:** In concourse at entrance to gate holding area.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

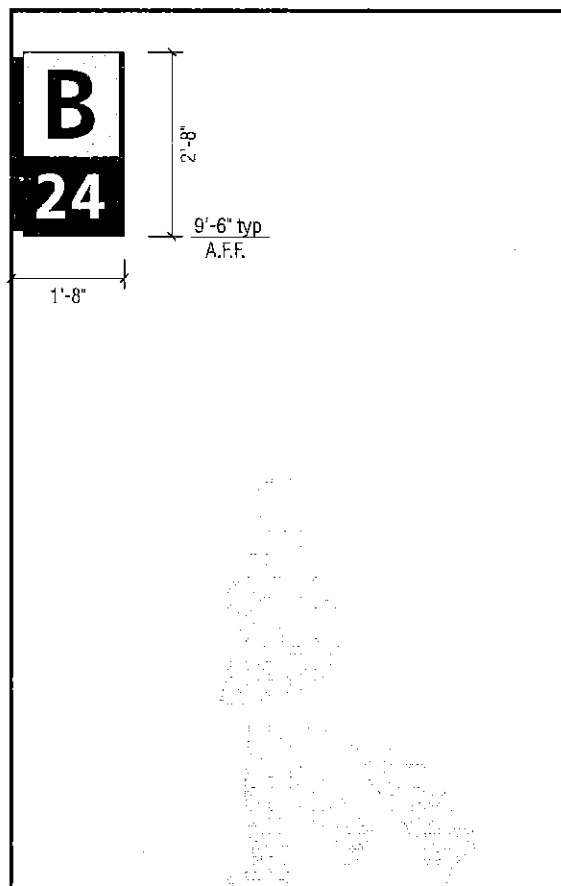


Scale: 3/8" = 1'-0"



Sign Type IDOH5.2: Gate Identification

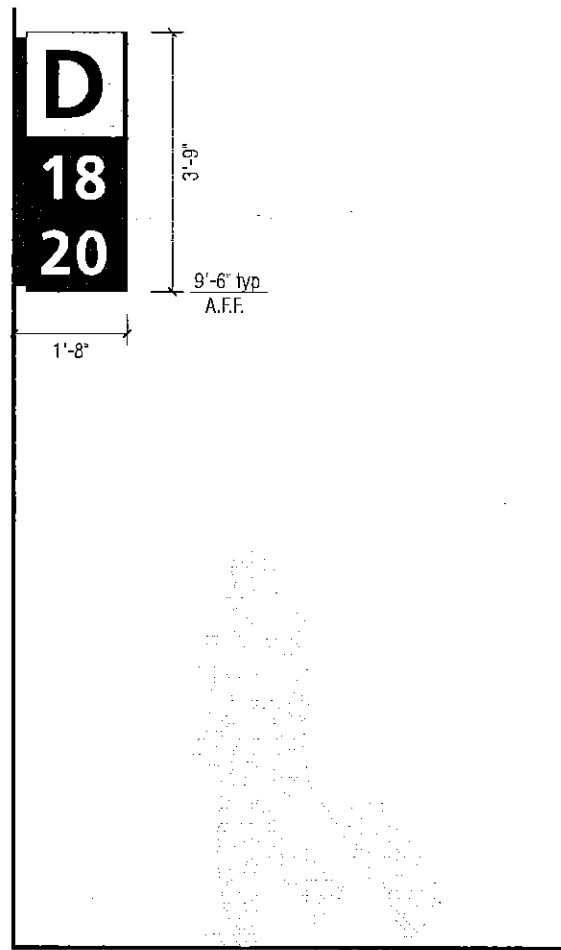
- Use:** Displays Gate number.
- Location:** In concourse at entrance to gate holding area.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH6: Gate Identification - Dual

- Use:** Displays multiple Gate numbers.
- Location:** In concourse at entrance to dual gate holding area.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

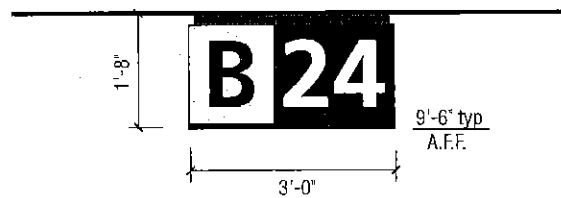


Scale: 3/8" = 1'-0"



Sign Type IDOH7.1: Gate Identification

- Use:** Displays Gate number.
- Location:** In concourse at entrance to gate holding area.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

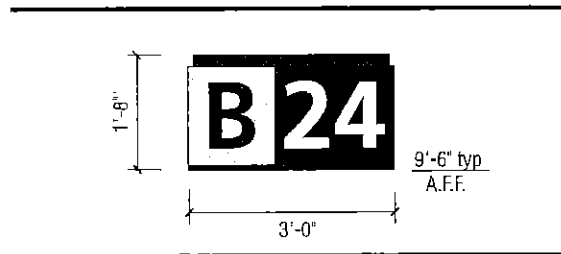


Scale: 3/8" = 1'-0"



Sign Type IDOH7.2: Gate Identification

- Use:** Displays Gate number.
- Location:** In concourse at entrance to gate holding area.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



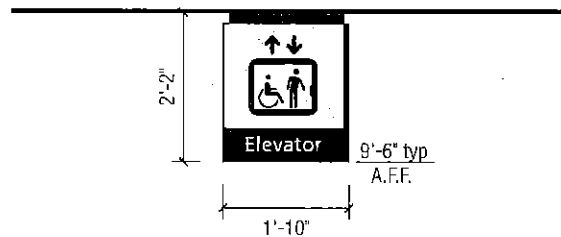
Scale: 3/8" = 1'-0"

Sign Type IDOH8.1: Small Identification

- Use:** Displays elevator, telephone or other amenity identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of identified element.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



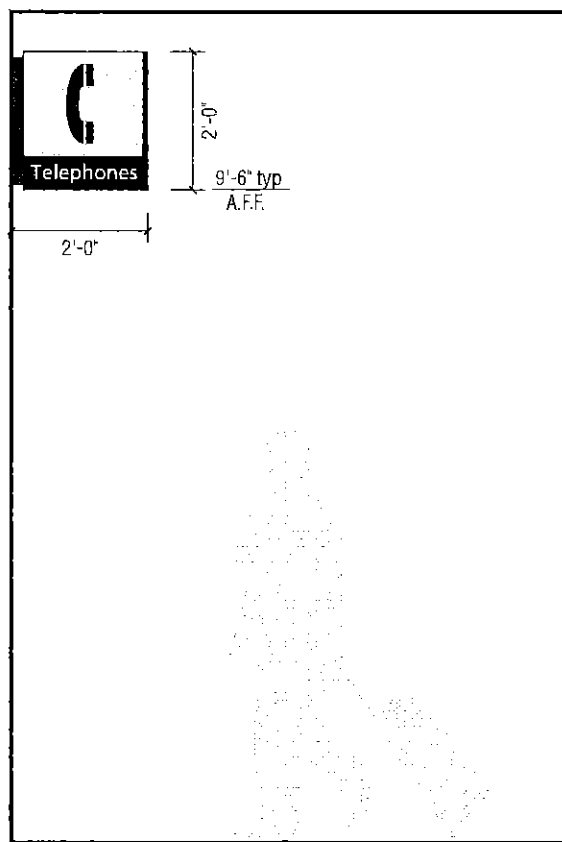
Alternate Panel Layout



Scale: 3/8" = 1'-0"

Sign Type IDOH8.2: Small Identification

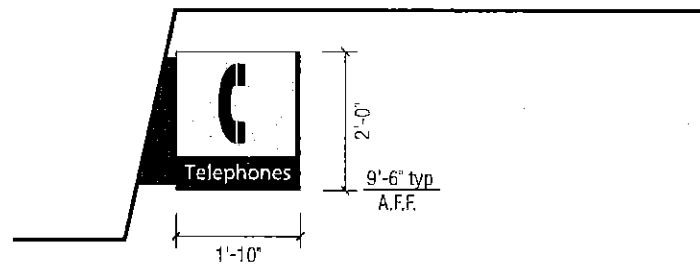
- Use:** Displays elevator, telephone or other amenity identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of identified element.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH8.3: Small Identification

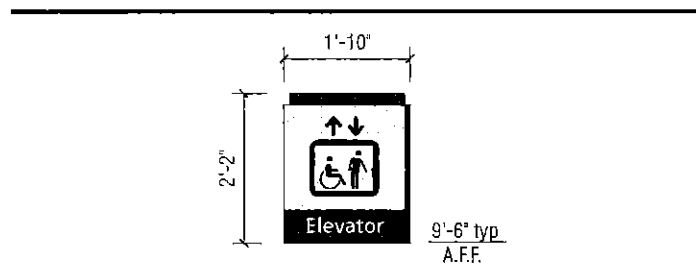
- Use:** Displays elevator, telephone or other amenity identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of identified element.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted to angled wall.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: $3/8" = 1'-0"$

Sign Type IDOH8.4: Small Identification

- Use:** Displays elevator, telephone or other amenity identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of identified element.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

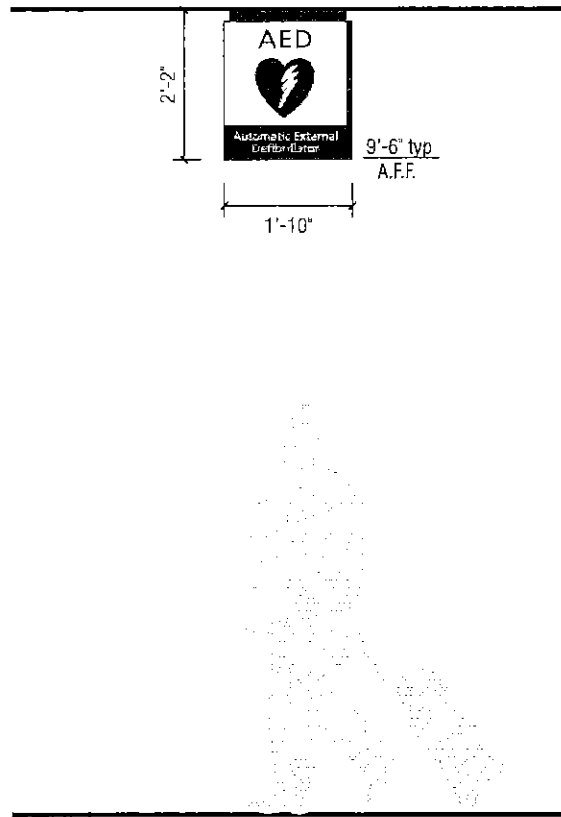


Scale: 3/8" = 1'-0"



Sign Type IDOH9.1: AED Identification

- Use:** Displays AED identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of AED equipment.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

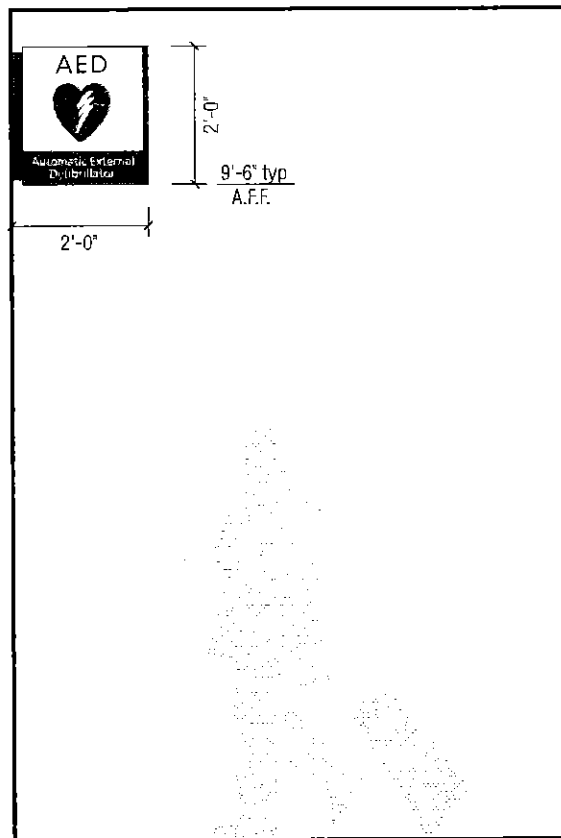


Scale: 3/8" = 1'-0"



Sign Type IDOH9.2: Small Identification

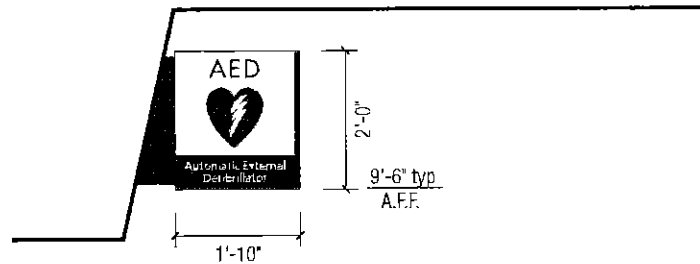
- Use:** Displays AED identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of AED equipment.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH9.3: Small Identification

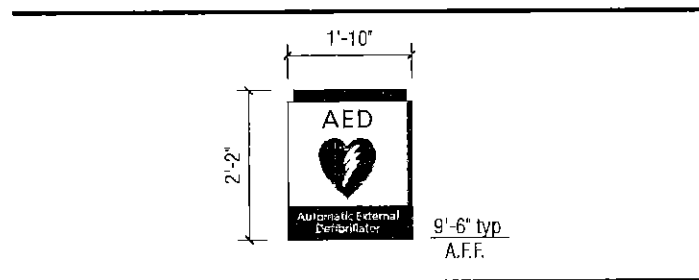
- Use:** Displays AED identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of AED equipment.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted to angled wall.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH9.4: AED Identification

- Use:** Displays AED identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark location of AED equipment.
- Materials:** Painted aluminum sign box; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

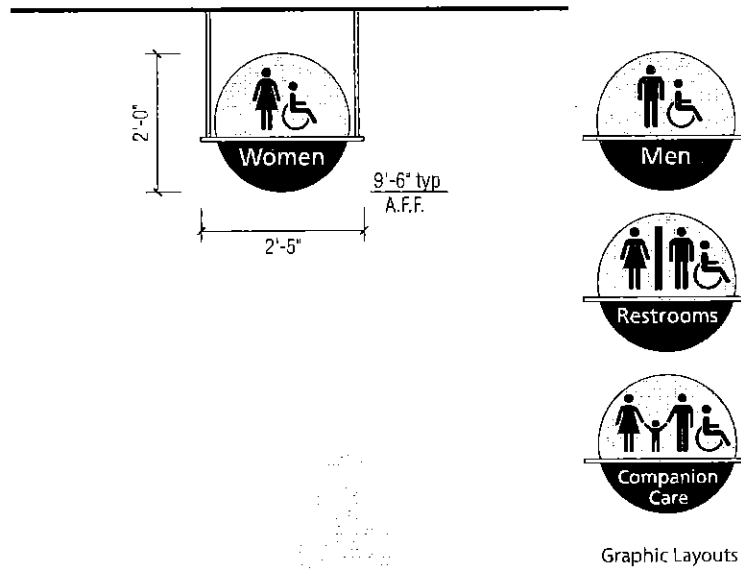


Scale: 3/8" = 1'-0"



Sign Type IDOH10.1: Restroom Identification

- Use:** Displays Restroom identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark restroom entrance.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

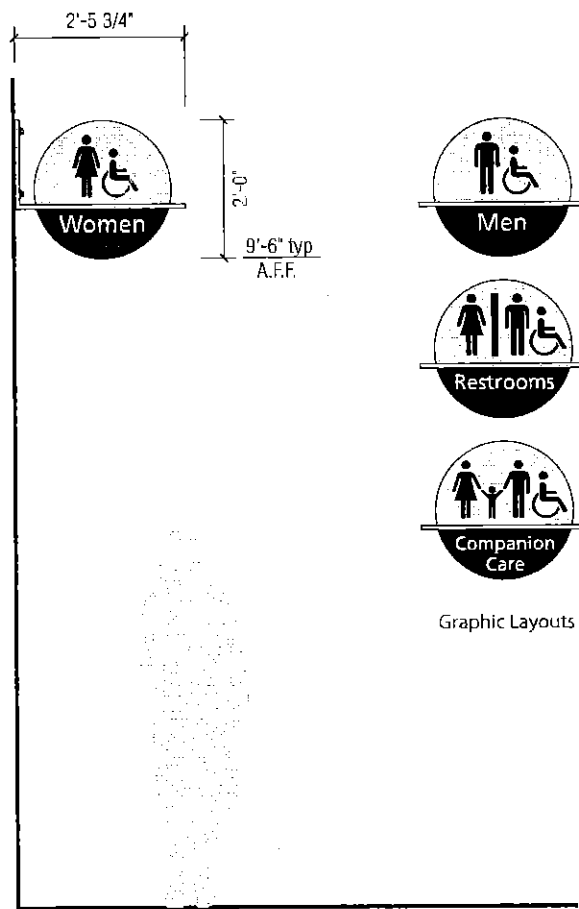


Scale: 3/8" = 1'-0"



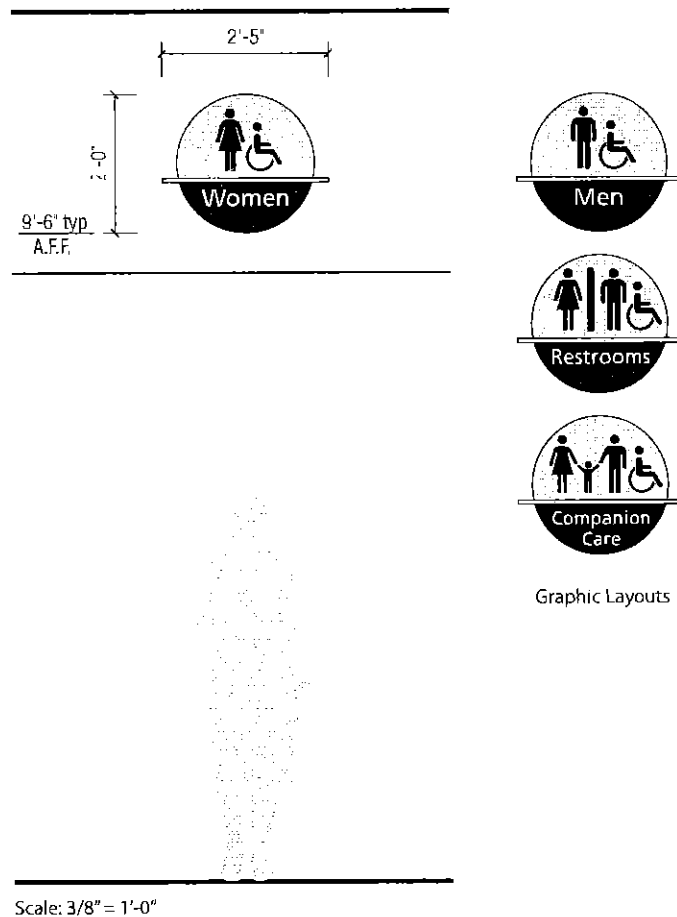
Sign Type IDOH10.2: Restroom Identification

- Use:** Displays Restroom identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark restroom entrance.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



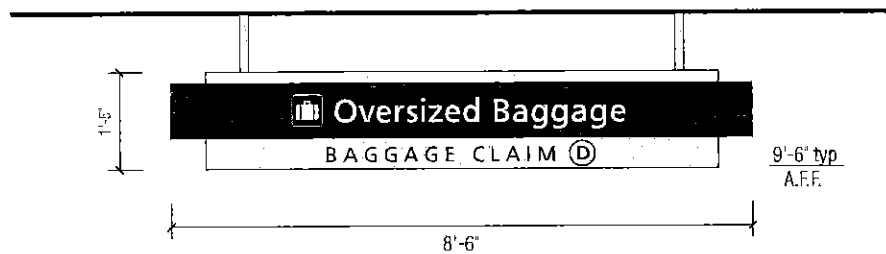
Sign Type IDOH10.3: Restroom Identification

- Use:** Displays Restroom identification.
- Location:** (Typ) perpendicular to pedestrian path of travel to mark restroom entrance.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type IDOH11: Oversized Identification

- Use:** Displays area or service identification.
- Location:** At area or service location.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended (shown), ceiling or surface mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

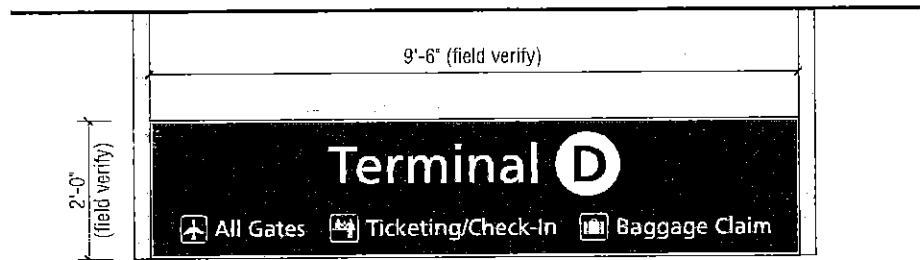


Scale: 3/8" = 1'-0"



Sign Type IDOH12-R: Platform Sign

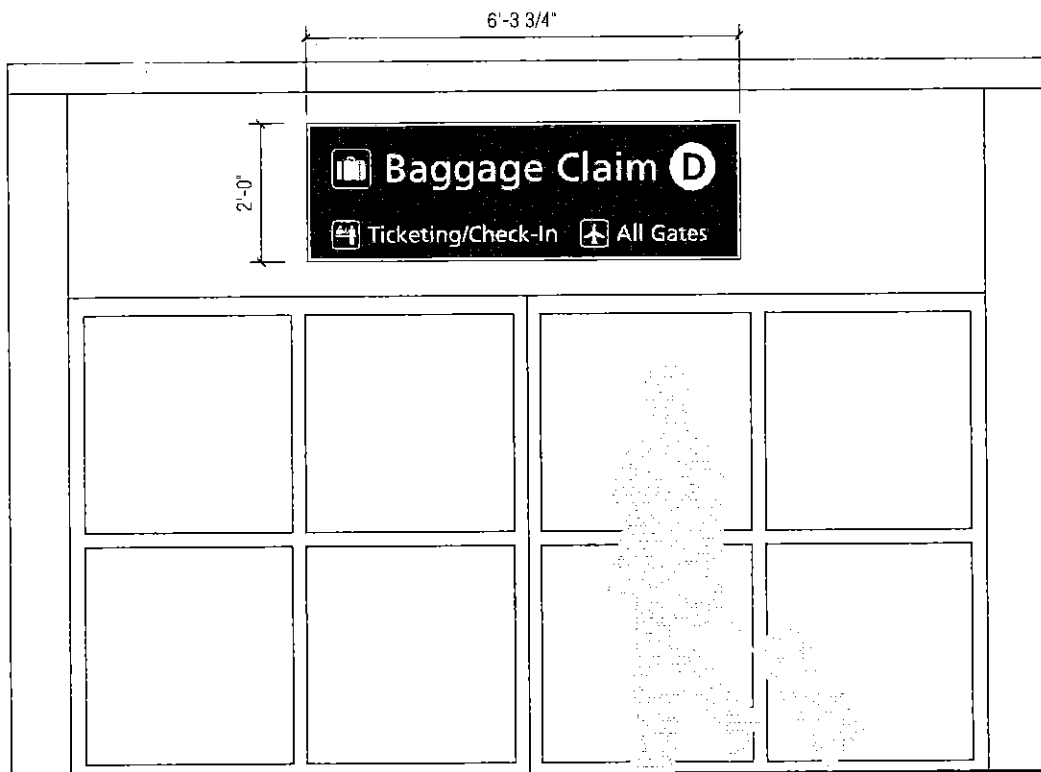
- Use:** Displays Terminal identification information for pedestrians. Note: sign shown is an existing sign retrofitted to match new sign standards.
- Location:** Train platform.
- Materials:** Translucent sign face with applied vinyl graphics; installed in existing sign structure.
- Lighting:** Existing.
- Mounting:** Existing.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type IDOH13: Baggage Claim Identification

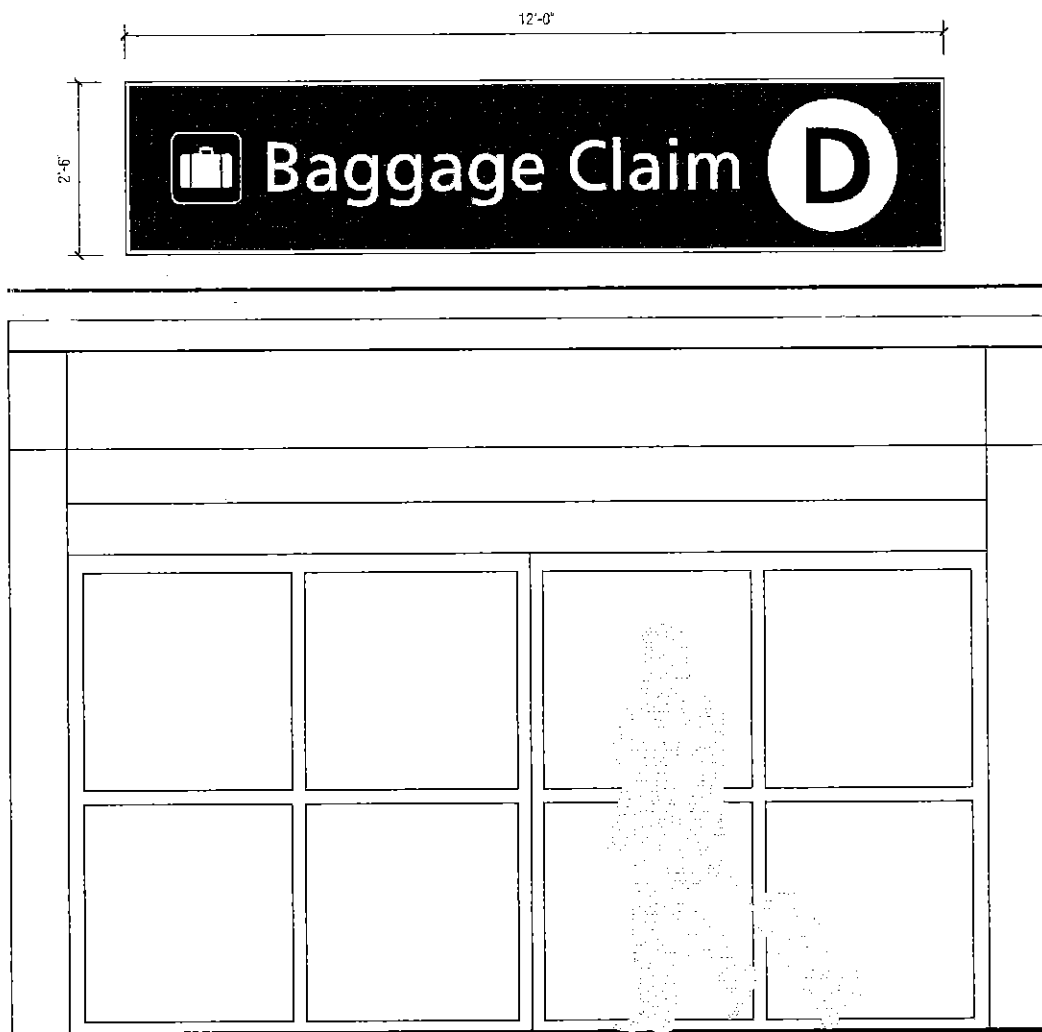
- Use:** Displays Baggage Claim identification information for pedestrians.
- Location:** Entrance to Baggage Claim building from train platform.
- Materials:** Painted aluminum sign cabinet; translucent sign face with applied vinyl graphics.
- Lighting:** Internal fluorescent fixtures.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

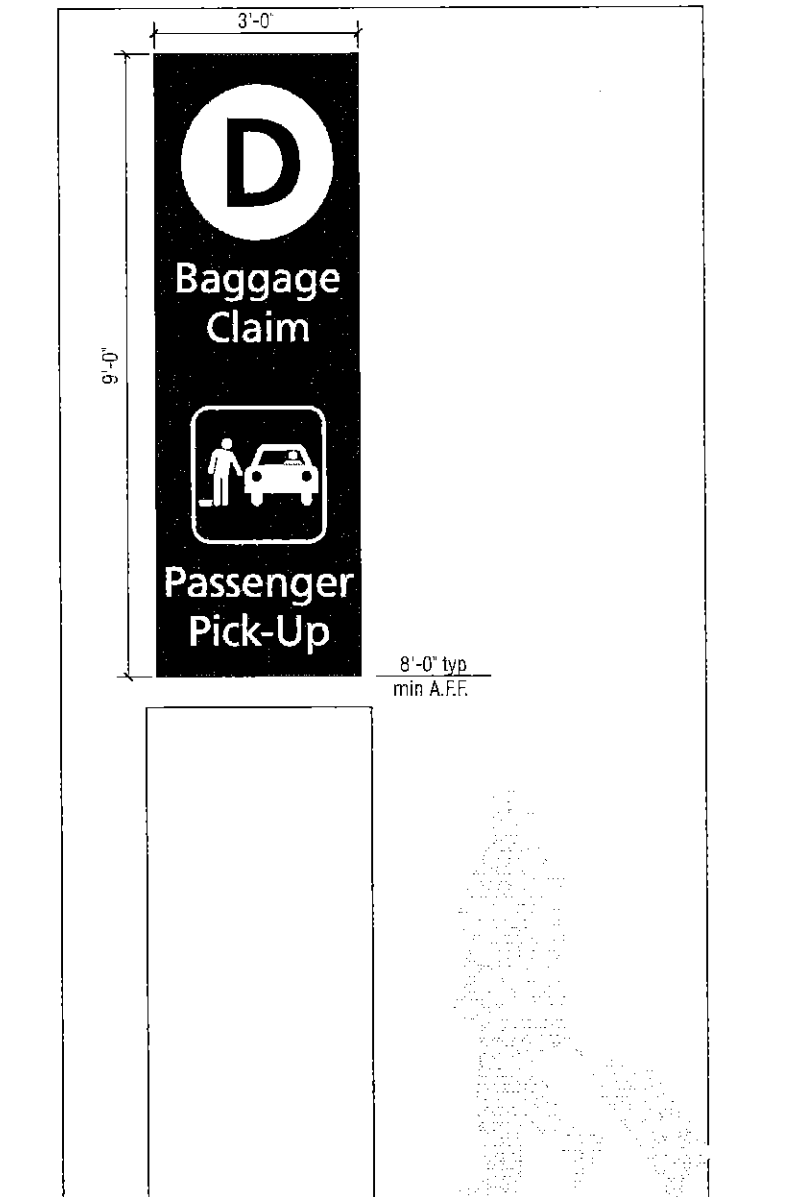
Sign Type ID0H14: Baggage Claim Identification

- Use:** Displays Baggage Claim identification information for motorists and pedestrians.
- Location:** Entrance to Baggage Claim building at Arrivals curbside; facing Short Term Parking.
- Materials:** Painted aluminum sign cabinet; translucent sign face with applied vinyl graphics.
- Lighting:** Internal fluorescent fixtures.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type IDOH15: Passenger Pick-Up Identifier

- Use:** Displays Baggage Claim Passenger Pick-Up information for motorists and pedestrians.
- Location:** Facing traffic at Arrivals passenger pick-up curbside.
- Materials:** Painted aluminum sign cabinet; translucent sign face with applied vinyl graphics.
- Lighting:** Internal fluorescent fixtures.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

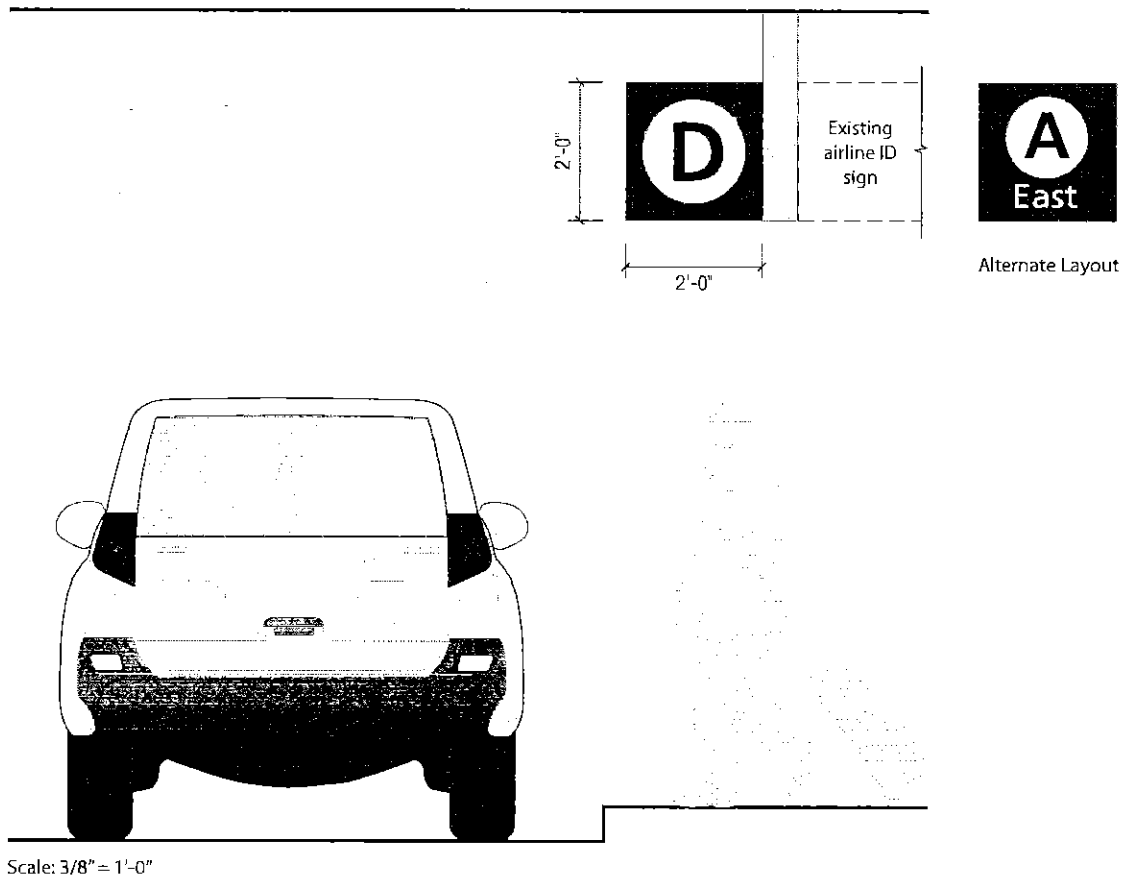


Scale: 3/8" = 1'-0"



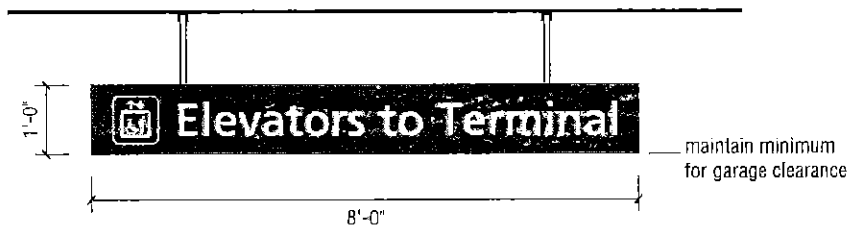
Sign Type IDOH16: Terminal ID at Departures Curbside

- Use:** Displays Terminal ID icon at Departures curbside for each terminal for motorists and pedestrians.
- Location:** Attached to existing sign structures along the curbside length.
- Materials:** Painted aluminum sign cabinet; translucent sign face with applied vinyl graphics.
- Lighting:** Internal.
- Mounting:** Flag-mounted to existing suspended sign.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type IDOH18: Garage Elevator Identification

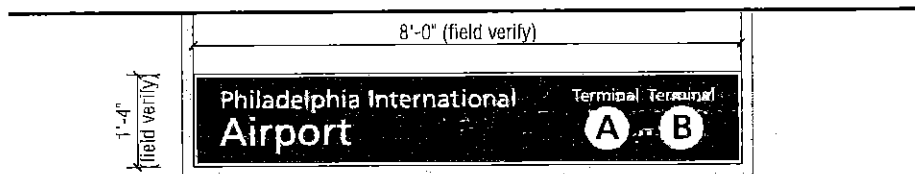
- Use:** Displays information to mark the location of garage elevators for pedestrian departures.
- Location:** Over drive aisle in front of garage elevators.
- Materials:** Painted aluminum sign panel and supports.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: $3/8" = 1'-0"$

Sign Type IDOH19-R: Platform Sign

- Use:** Displays Airport and Terminal identification information for pedestrians. Note: sign shown is an existing sign retrofitted to match new sign standards.
- Location:** Train platform.
- Materials:** Translucent sign face with applied vinyl graphics; installed in existing sign structure.
- Lighting:** Existing.
- Mounting:** Existing.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



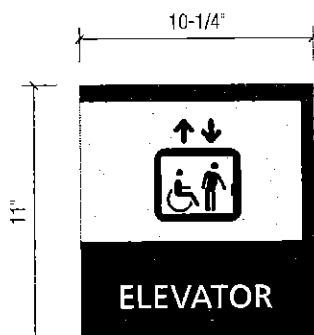
Scale: 3/8" = 1'-0"

Sign Type IDWM1.1: *Wall-Mounted Identification*

- Use:** Displays room or area identification.
- Location:** (Typ) beside door or entrance to area.
- Materials:** Painted acrylic with raised photopolymer graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Alternate layouts

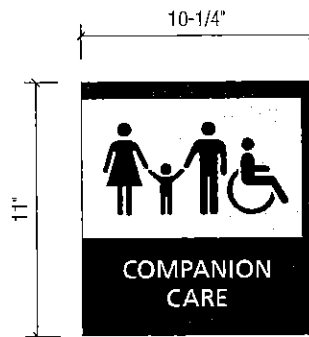


Scale: 1 1/2" = 1'-0"



Sign Type IDWM1.2: *Wall-Mounted Identification*

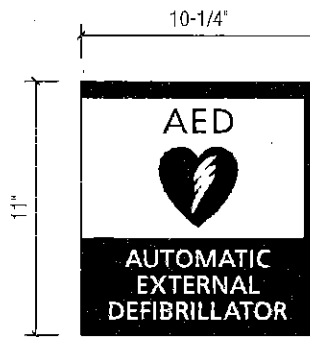
- Use:** Displays room or area identification.
- Location:** (Typ) beside door or entrance to area.
- Materials:** Painted acrylic with raised photopolymer graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

Sign Type IDWM2.1: Wall-mounted Identification

- Use:** Displays AED identification.
- Location:** Adjacent to AED equipment location.
- Materials:** Painted acrylic with raised photopolymer graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

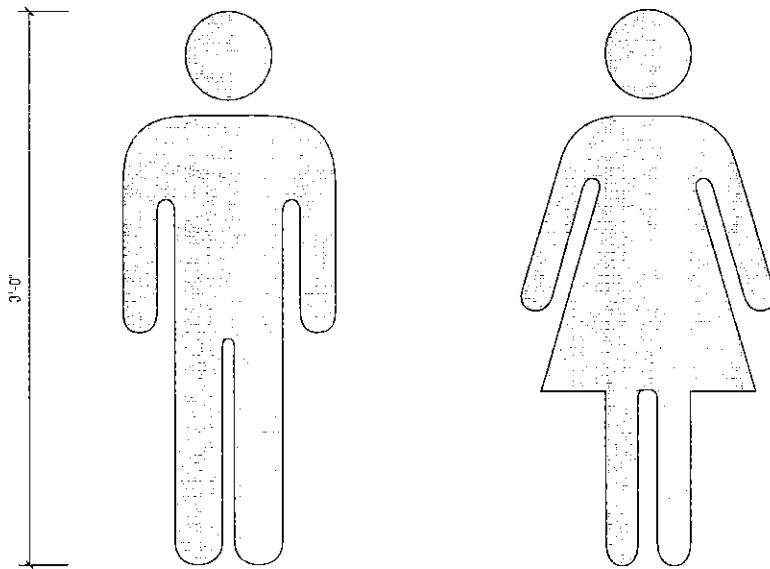


Scale: 1 1/2" = 1'-0"



Sign Type IDWM3: ~~Wall-Mounted Identification~~

- Use:** Large-scale figures to reinforce restroom identification at entries.
- Location:** At restroom entry vestibule.
- Materials:** Natural finish brushed aluminum.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

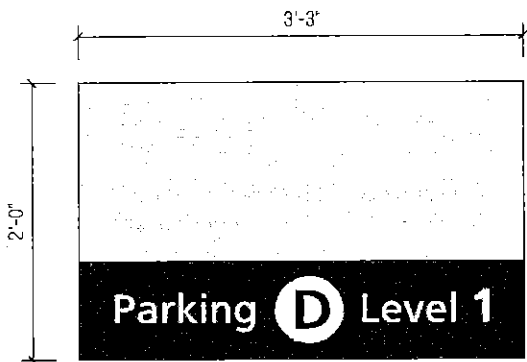


Scale: 3/4" = 1'-0"



Sign Type IDWM4.1: Garage Elevator Identification (E, CD, EA)

- Use:** Displays garage elevator identification and information regarding access to other destinations for departing pedestrians.
- Location:** At entrance to garage elevator lobby.
- Materials:** Painted aluminum sign panel; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

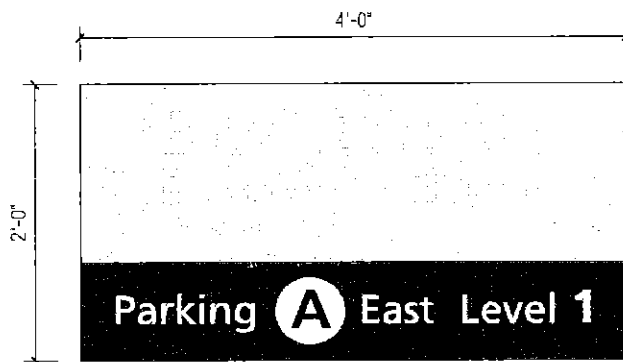


Scale: 3/4" = 1'-0"



Sign Type IDWM4.2: Garage Elevator Identification (A-East)

- Use:** Displays garage elevator identification and information regarding access to other destinations for departing pedestrians.
- Location:** At entrance to garage elevator lobby.
- Materials:** Painted aluminum sign panel; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A; Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

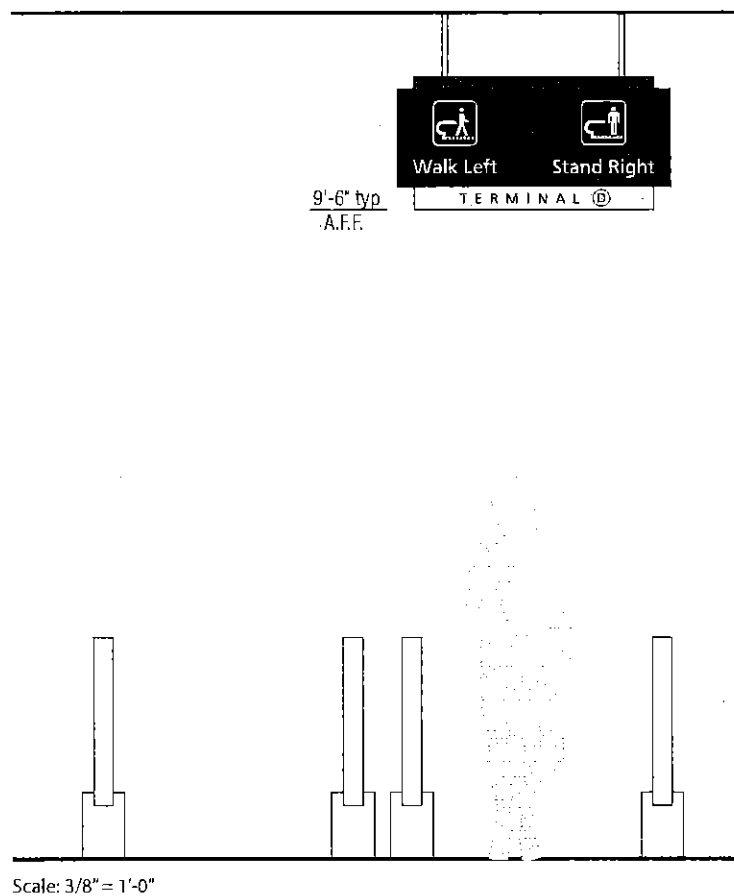


Scale: 3/4" = 1'-0"



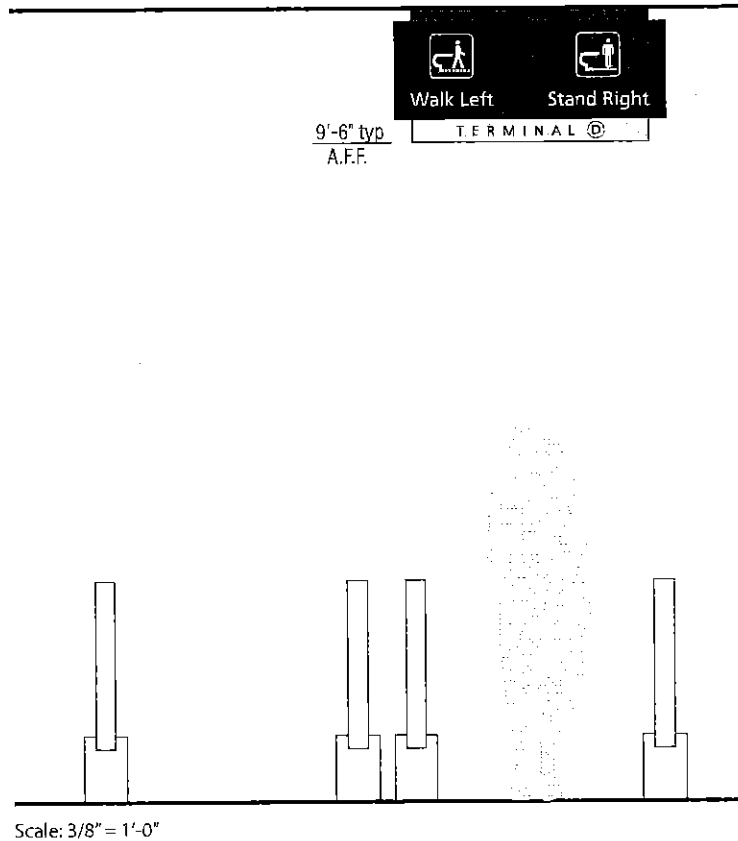
Sign Type INOH1.1: Overhead Informational

- Use:** Displays "Walk / Stand" information for moving walkway.
- Location:** Above moving walkway.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



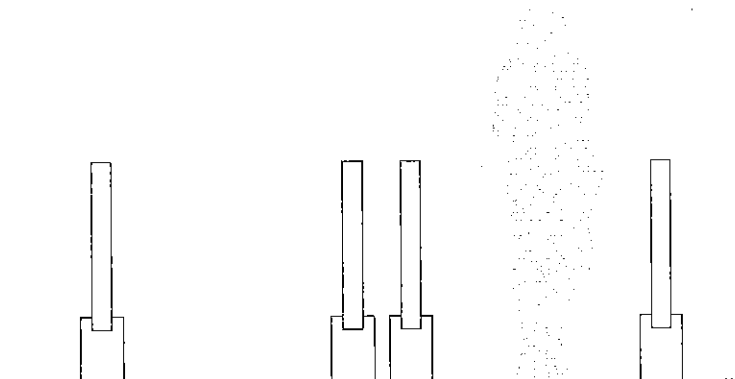
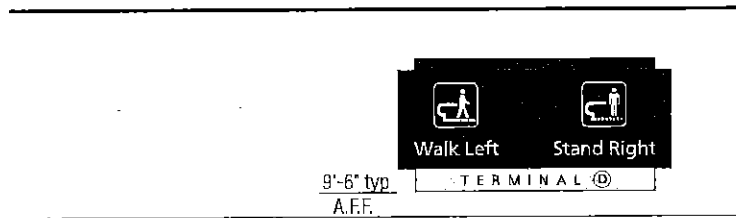
Sign Type INOH1.2: Overhead Informational

- Use:** Displays "Walk / Stand" information for moving walkway.
- Location:** Above moving walkway.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Sign Type INOH1.3: Overhead Informational

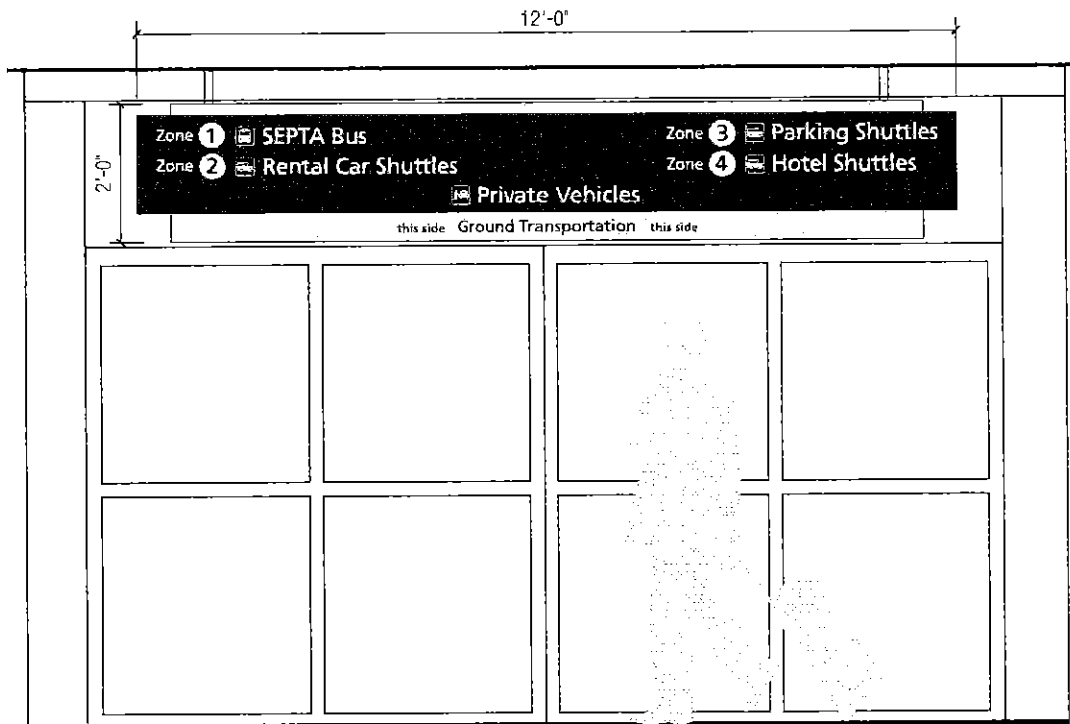
- Use:** Displays "Walk / Stand" information for moving walkway.
- Location:** Above moving walkway.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type INOH2.1: Overhead Information

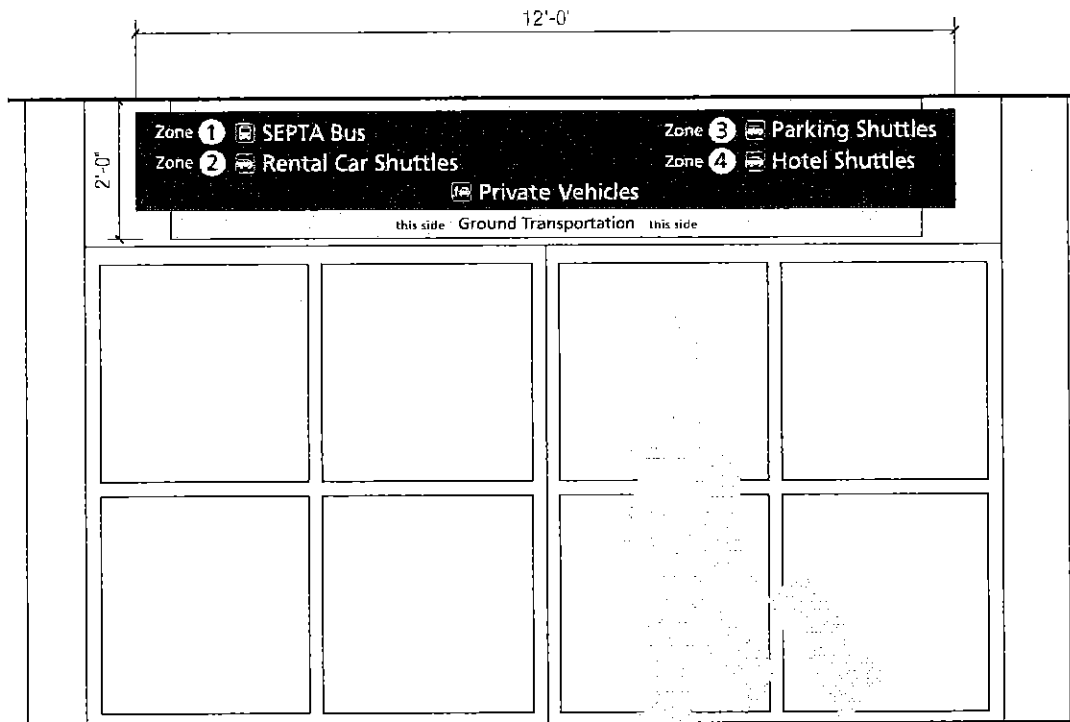
- Use:** Displays Ground Transportation information for pedestrians exiting Baggage Claim to curbside.
- Location:** Above exit to curbside from Baggage Claim.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type INOH2.2: Overhead Informational

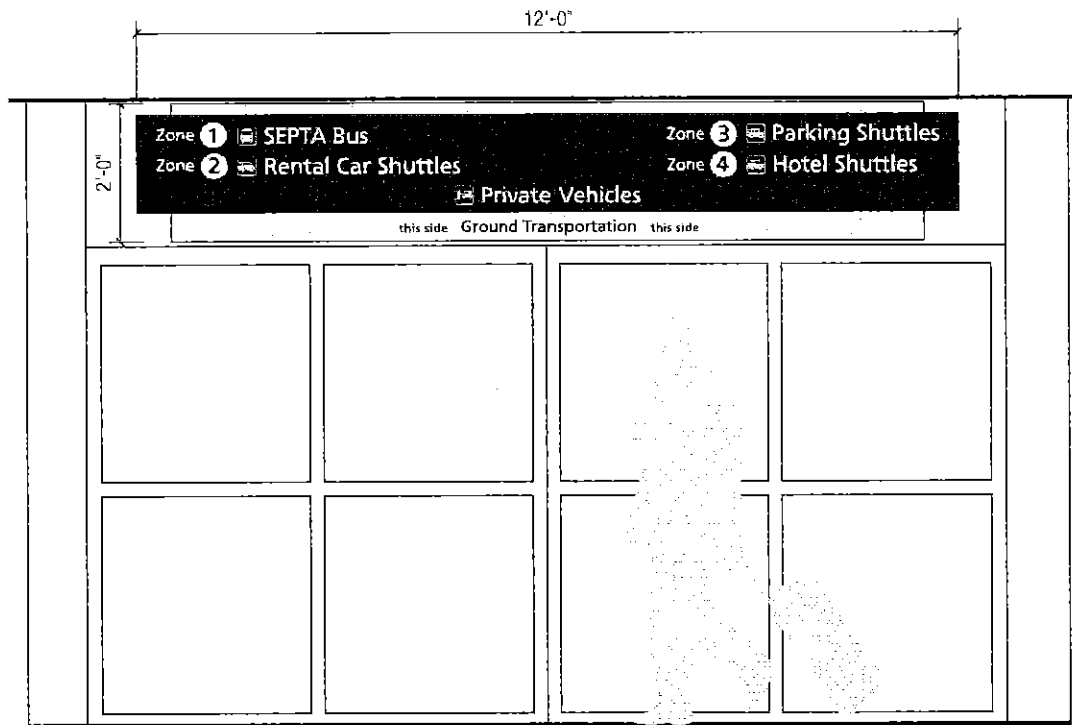
- Use:** Displays Ground Transportation information for pedestrians exiting Baggage Claim to curbside.
- Location:** Above exit to curbside from Baggage Claim.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Ceiling-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type INOH2.3: Overhead Informational

- Use:** Displays Ground Transportation information for pedestrians exiting Baggage Claim to curbside.
- Location:** Above exit to curbside from Baggage Claim.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

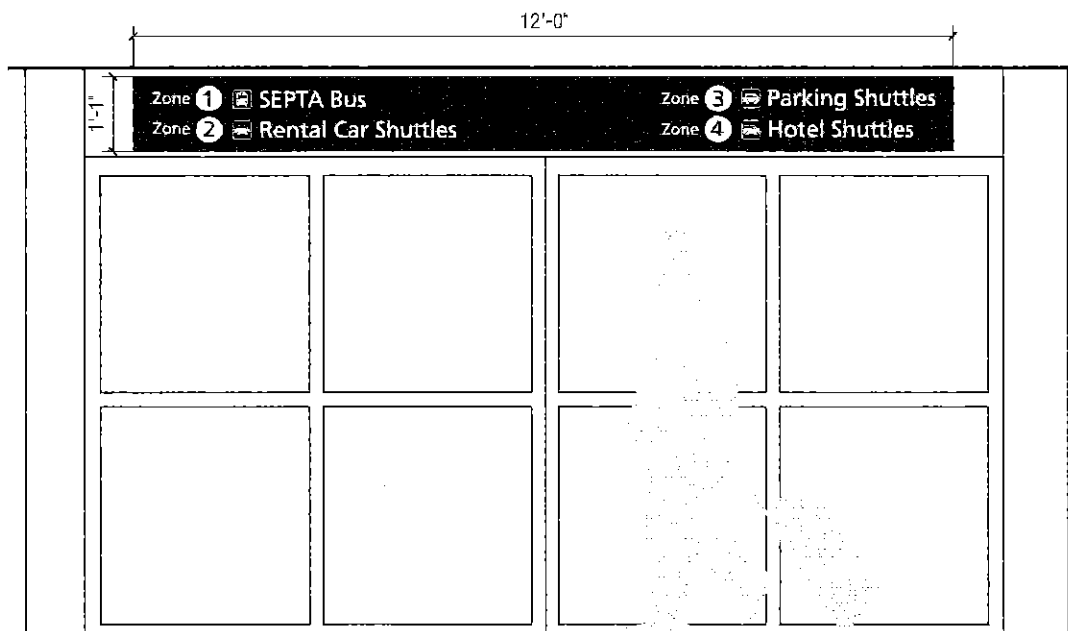


Scale: 3/8" = 1'-0"



Sign Type INOH2.4: Overhead Informational

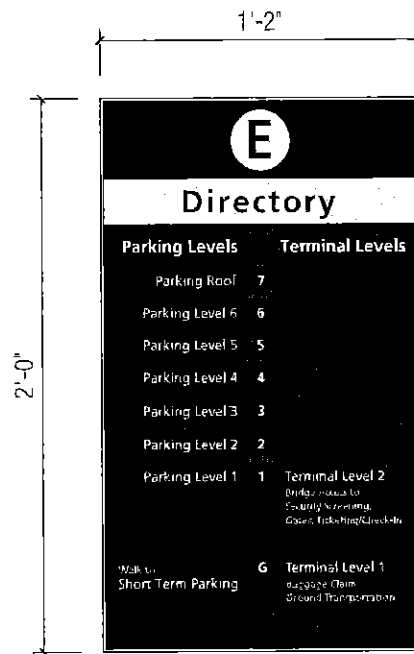
- Use:** Displays Ground Transportation information for pedestrians exiting Baggage Claim to curbside.
- Location:** Above exit to curbside from Baggage Claim.
- Materials:** Painted aluminum sign box and supports; applied vinyl graphics.
- Lighting:** None.
- Mounting:** Wall-mounted in restrictive bulkhead area.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type INWM1.1: Elevator Directory

- Use:** Displays Parking and Terminal Level destination information.
- Location:** Adjacent to elevators at terminal bridge/garage elevators.
- Materials:** Anodized aluminum frame; clear acrylic insert with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

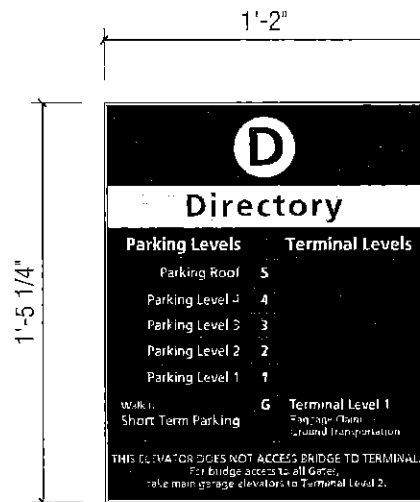


Scale: 1-1/2" = 1'-0"



Sign Type INWM1.2: Elevator Directory

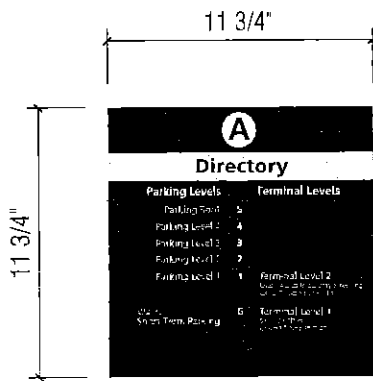
- Use:** Displays Parking and Terminal Level destination information.
- Location:** Adjacent to elevators at non-bridge garage elevators.
- Materials:** Anodized aluminum frame; clear acrylic insert with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



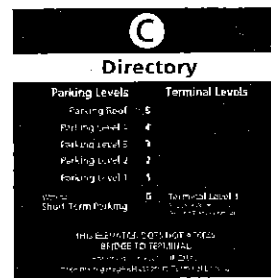
Scale: 1-1/2" = 1'-0"

Sign Type INWM2: Elevator Directory

- Use:** Displays Parking and Terminal Level destination information at terminal bridge/garage elevators.
- Location:** Inside elevators.
- Materials:** Anodized aluminum frame; clear acrylic insert with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted inside elevator cab at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

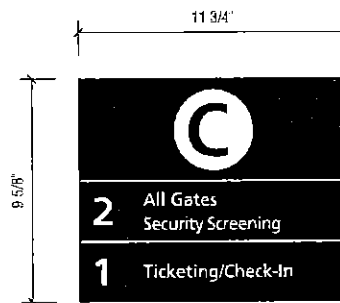


Alternate Layout



Sign Type INWM3: Elevator Directory

- Use:** Identifies major destinations by level.
- Location:** Adjacent to elevators in landside areas.
- Materials:** Acrylic with subsurface printed graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

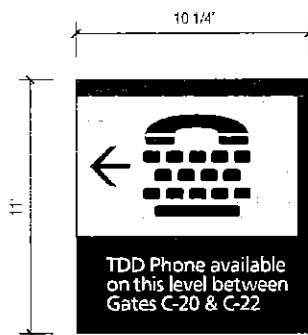


Sign Type INWM4: ~~Wall-Mounted~~ Informational

- Use:** Displays amenity information for pedestrians.
- Location:** As needed to inform or direct pedestrians.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



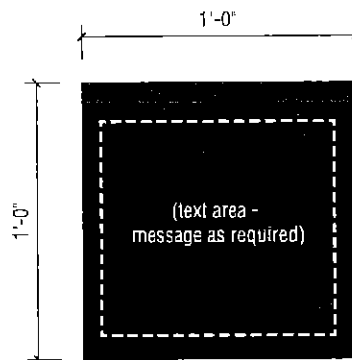
Alternate layouts



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

Sign Type INWM5: ~~Wall-Mounted~~ Informational

- Use:** Displays information for pedestrians.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A; Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

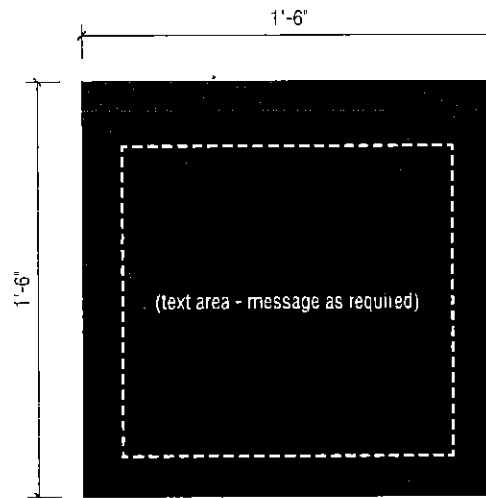


Scale: 1 1/2" = 1'-0"



Sign Type INWM6: Wall-Mounted Informational

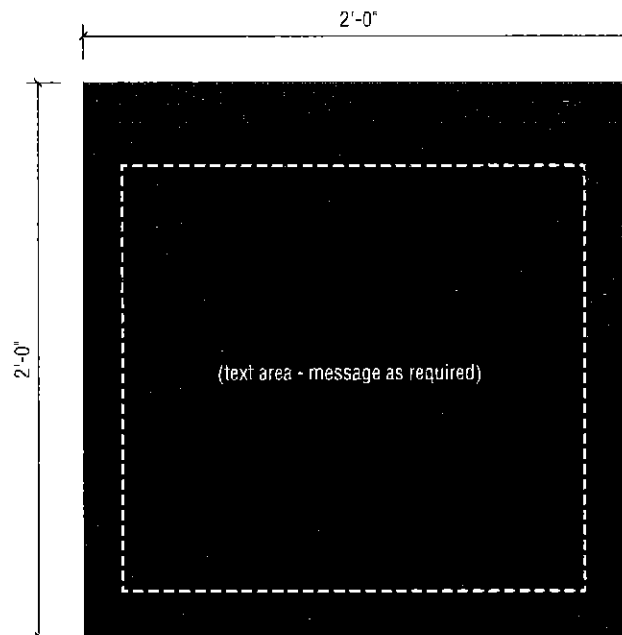
- Use:** Displays information for pedestrians.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

Sign Type INWM7: Wall-Mounted Informational

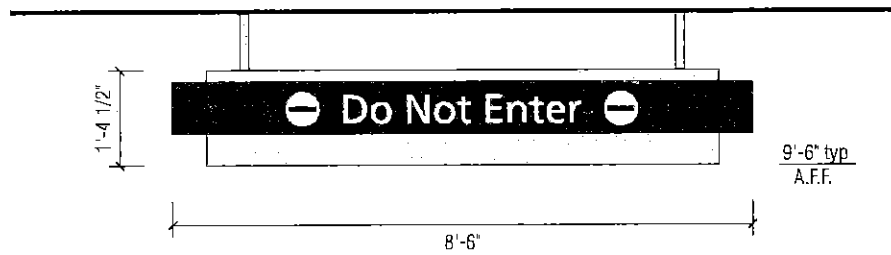
- Use:** Displays information for pedestrians.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

Sign Type REOH1.1: Overhead Regulatory

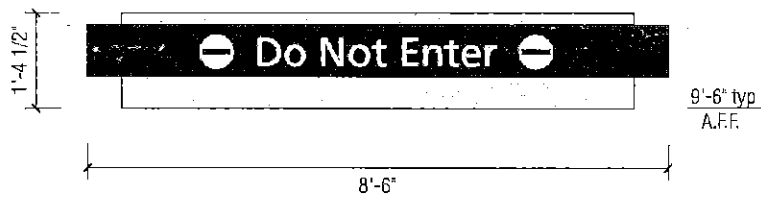
- Use:** Displays regulatory message for pedestrians.
- Location:** At entry to restricted area.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type REOH1.2: Overhead Regulatory

- Use:** Displays regulatory message for pedestrians.
- Location:** At entry to restricted area.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Wall-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.

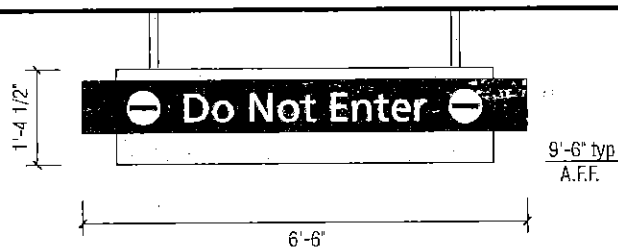


Scale: 3/8" = 1'-0"



Sign Type REOH2: Overhead Regulatory

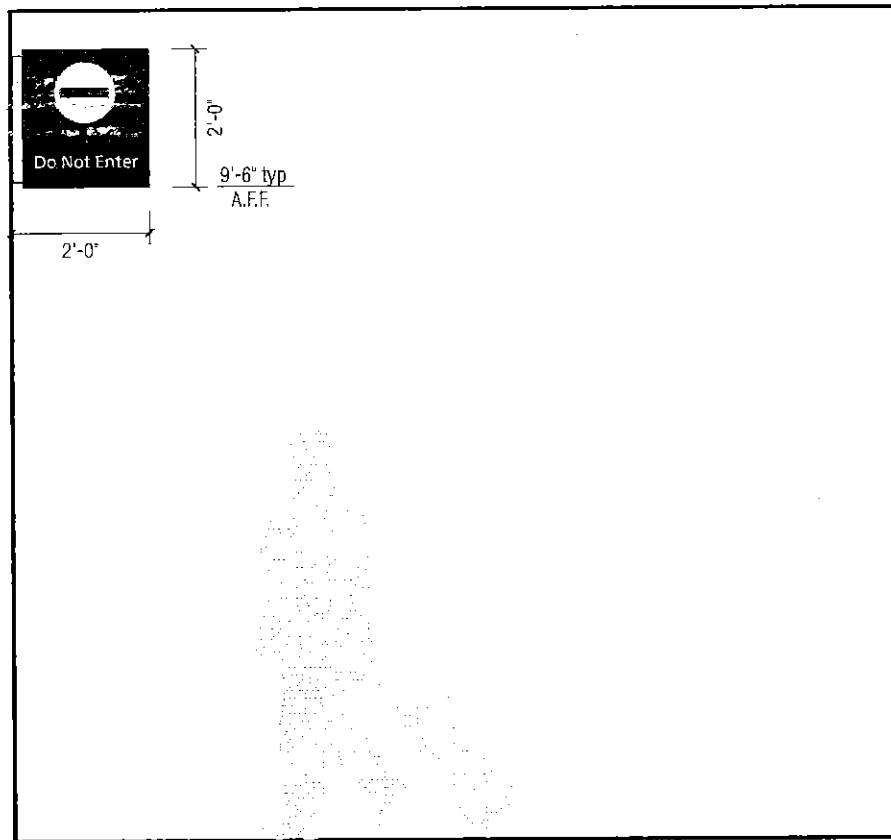
- Use:** Displays regulatory message for pedestrians.
- Location:** At entry to restricted area.
- Materials:** Painted aluminum sign box, applied vinyl graphics.
- Lighting:** External LED fixtures.
- Mounting:** Suspended.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



Scale: 3/8" = 1'-0"

Sign Type REOH3: Flag-Mounted Regulatory

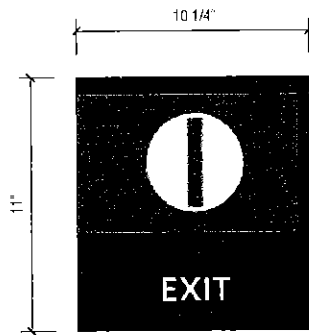
- Use:** Displays regulatory message for pedestrians.
- Location:** At entry to restricted area.
- Materials:** Painted aluminum sign box, applied vinyl graphics
- Lighting:** None.
- Mounting:** Flag-mounted.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



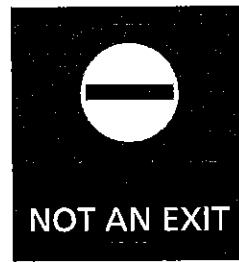
Scale: 3/8" = 1'-0"

Sign Type REWM1.1: Wall-Mounted Regulatory

- Use:** Displays regulatory message for pedestrians.
- Location:** As needed.
- Materials:** Painted acrylic with raised photopolymer graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



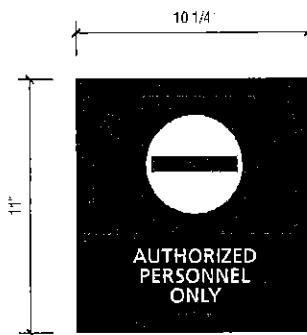
Scale: 1 1/2" = 1'-0"



Alternate layout

Sign Type REWM2.1: ~~Wall-Mounted~~ Regulatory

- Use:** Displays regulatory message for pedestrians.
- Location:** As needed.
- Materials:** Painted acrylic with raised photopolymer graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

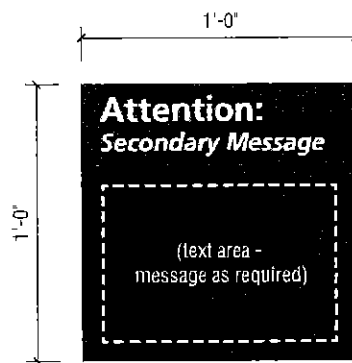


Alternate layouts



Sign Type REWM3: *Wall-Mounted Regulatory*

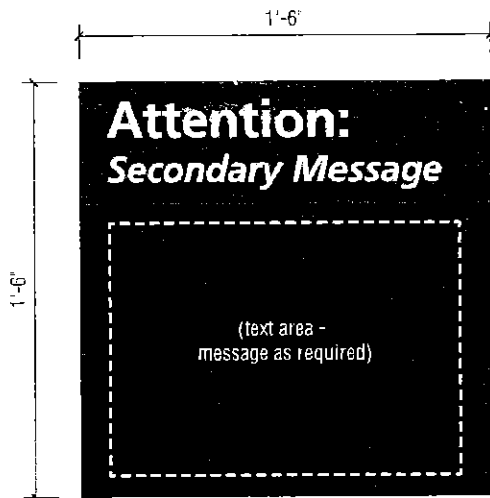
- Use:** Displays regulatory message for pedestrians.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

Sign Type REWM4: *Wall-Mounted Regulatory*

- Use:** Displays regulatory message for pedestrians.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Wall-mounted at ADA mounting height.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



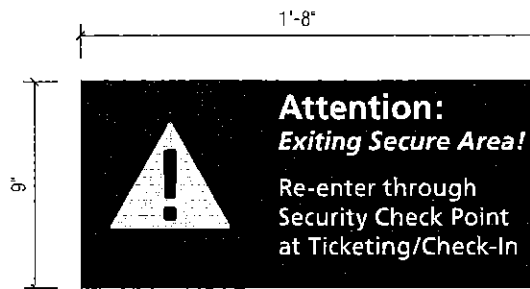
Scale: 1 1/2" = 1'-0"



Sample Layout

Sign Type REWM5: ~~Wall-Mounted~~ Regulatory

- Use:** Displays regulatory message for pedestrians at exit from secure area.
- Location:** As needed.
- Materials:** Acrylic with subsurface graphics.
- Lighting:** None.
- Mounting:** Mounted to wall or exit door.
- Notes:** Refer to Appendix A: Shop Drawings for additional details and specifications. Sign text and symbols shown for illustration only.



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

Airport Controlled Signage: Temporary / Construction

SECTION RESERVED FOR DIVISION OF AVIATION USE.



Airport Controlled Signage: Electronic Information Displays

SECTION RESERVED FOR DIVISION OF AVIATION USE.



Airport Controlled Signage: "YOU ARE HERE" Location Maps

SECTION RESERVED FOR DIVISION OF AVIATION USE.



Airport Controlled Signage: Dynamic Signs / LCD, CRT, LED Monitors

SECTION RESERVED FOR DIVISION OF AVIATION USE.



SECTION 5:

TENANT SIGNAGE GUIDELINES

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



Tenant Signage Guidelines

SECTION RESERVED FOR DIVISION OF AVIATION USE.



SECTION 6:

SIGN MANAGEMENT AND MAINTENANCE

PHILADELPHIA INTERNATIONAL AIRPORT
SIGN STANDARDS AND GUIDELINES



Sign Management and Maintenance

OVERVIEW

This section addresses management and maintenance for the new airport signage standards program. Like any system, the airport signage program must be managed and maintained in order to remain effective and continue to function as designed. This includes content and program management as well as the physical maintenance of signs.

GIS SYSTEM AND SIGN INVENTORY

As part of the initial phase of the Signage Upgrade Project, all public-area signs in the terminals, baggage claims and curbsides were surveyed and inventoried using Geographic Information Systems (GIS) software. Information and photos were collected for each sign and recorded in an expandable database. In addition to serving as a programming tool during design of the Signage Upgrade Project, this database will be maintained by PHL as part of an ongoing GIS-based airport asset management program.

SIGN NUMBERING

For the sign inventory, a sign numbering grid was developed to allow the assignment of a unique identification tag for each sign location. For each location the tag identifies the Terminal (A, B, C, D, E, F), Terminal Area (Baggage Claim, Concourse, Garage, Terminal), Level (G, 1, 2, 3...), and the grid zone plus a unique numerical ID (100, 101, 102...). The grid system also allows for the assignment of additional numbers within each zone to accommodate future sign additions and/or relocations.

SIGNAGE OWNERSHIP AND RESPONSIBILITIES

(RESERVED FOR DIVISION OF AVIATION USE.)

MAINTENANCE PROCEDURES

Physical review process—Management and maintenance of the program should include a process to review and assess the physical condition of individual signs in order to identify any structural or aesthetic issues. The GIS signage database created during the survey and inventory phase of the Master Plan project is one tool which can help with this process, by providing a centralized collection point for real time sign inventory information.

Sign maintenance may be generally categorized by type (planning-related, physical condition) and by the age of the signs—short term (0–4 years), long term (5–9 years), and system life span (10–15+ years). Examples include:

Planning and design—Short term: minor adjustments and addition of signs; long term: destination additions and deletions, overall circulation review; system life span: total review of system.

Physical maintenance—Short term: cleaning, minor wear and tear repairs, vandalism, auto damage; long term: fading, replacement parts, warranties expire; system life span: total sign replacement.

SIGN PROGRAM UPDATING/MODIFICATION PROCEDURES

Control process—In order to continue to function successfully over time, the airport signage program must be managed and maintained. A control process will help to identify and address issues related to sign priorities, design, programming and messaging, placement, modifications, removals, etc. This process should include a policy for centralized review and approval of all signage-related requests by designated Division of Aviation staff or representatives. The control process is crucial to the long term success of the wayfinding program, and helps to avoid issues with information overload and uncontrolled addition of new signs or messages to existing signs.

It is essential that all signage requests be evaluated with regard to their potential impact on the system as a whole.

Procurement—Once signage needs are identified and confirmed, procurement typically involves working with a sign vendor. When a sign program is initially purchased, it is advisable to work with the vendor to establish a procedure for additional sign orders, as well as a predetermined cost schedule to remain in force for a specified length of time following the initial order.

Many sign fabricators have online ordering options that can greatly simplify and streamline the ordering process. However, it is important for Division of Aviation to maintain the centralized review and control process regardless of what ordering procedures are adopted.

