



**Roadway Signing and
Pavement Marking
Guidelines
2015 Edition**



Roadway Signing and Pavement Marking Guidelines

2015 DRAFT

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Introduction:

The *Illinois Tollway Roadway Signing and Pavement Marking Guidelines* were begun in the 1990s as a sign design guide. The 2015 Edition replaces the previous version dated 2012. The purpose of this document is:

- To provide clear, concise information to motorists traveling on the Tollway through the use of consistent and effective signing.
- To provide Design Section Engineers (DSE) with sufficient information to prepare contract documents for signs, sign placement, and markings for their roadway sections. The DSEs are wholly responsible for the selection and placement of signage and markings to meet professional civil engineering standards.
- To assist Illinois Tollway signage personnel on the 200+ types of signs which are unique to the Illinois Tollway system.

The *Illinois Tollway Roadway Signing and Pavement Marking Guidelines* is a “living document” and should be updated periodically for the benefit of the Illinois Tollway, its consultants and its contractors. Comments and suggestions for the Guidelines should be directed to the Chief Engineer’s office at the Illinois Tollway.

The 2015 Edition was prepared by Hanson Professional Services Inc. and was based on 2012 Edition prepared by Epstein.

These Guidelines are not intended to be inclusive of all signs required for use on the Illinois Tollway. The current issue of the Manual for Uniform Traffic Control Devices (MUTCD), its supplements and all other documents governing Federal, State, and Municipal laws and best practices must be consulted as needed in coordination with the Tollway’s Project Coordinator in any case of disagreement with these Guidelines. This document is to be used in conjunction with the Illinois Tollway Standard Drawings, the MUTCD, the Illinois Supplement to the MUTCD, and the Standard Highway Signs and Markings book.



Major Highlight Revisions:

The *Illinois Tollway Roadway Signing and Pavement Marking Guidelines* dated 2015 replace the previous version called *Illinois Tollway Signage and Markings Guidelines* dated 2012. This document has been revised to reflect the most recent changes in the *Manual on Uniform Traffic Control Devices* (2009 with revision 1 and revision 2) and current Tollway Standards.

- Chapter 1.** The title of this manual has been updated to the *Illinois Tollway Roadway Signing and Pavement Marking Guidelines*.
- Chapter 2.** Added information regarding the use of reflective sheeting on signs in section 2.12. Added additional information on temporary signing installed on wood supports in section 2.13. Added reference to Tollway Standards for the maximum lateral offset for ground-mounted signs and load capacities on overhead structures in section 2.15.
- Chapter 3.** Added additional information regarding staggering regulatory signs at interchanges in sections 3.2.2, 3.2.3, and 3.2.4. Added additional information regarding the use of reflective sheeting and luminaires on overhead mainline plaza signs in sections 3.2.11. Updated Illustration SP-IT1 to show a Diverging Diamond Interchange (DDI) and a Single Point Urban Interchange (SPUI). Added a new detail for guidance on Diamond Interchange Crossroad Turn Lanes and Pavement Marking called SP-IT2B. Added two new details (SP-IT9A and SP-IT9B) for Crash Investigation Site design for both Mainline and Toll Plaza layouts. Added two new sections that describe two new interchange layouts for DDI and a SPUI. Section 3.2.15 Diverging Diamond Interchange (Illustration SP-IT15A-B) and Section 3.2.16 Single Point Urban Interchange (Illustration SP-IT16). Added new section for Weigh-In-Motion (WIM) Enforcement Area located in Section 3.2.17 and also added a new WIM Sign Placement Illustration called SP-IT17.
- Chapter 4.** Added new sign detail G-IT3F – Crossroad: Shield, Toll, Cardinal, Control Destination, Cross Arrow. Added information regarding new sign detail G-IT3F in section 4.7.3. Combined previous 2 series signs with 1 series signs and adjusted all detail signs thereafter accordingly. Revised 5 series Exit Direction Signs (G-IT5A-E) to show blank Exit Number Plaques above to cross reference with 6 series Exit Number Plaque (G-IT6A-K) which shows blank Exit Direction Signs. Added a new sign detail G-IT7C – Exit Only Panel with 2 Directional Arrows. Removed previous single panel Trailblazer Assemblies (previously called G-IT24A-B) and replaced with new Trailblazer assemblies (G-IT23A-C).
- Chapter 5.** No change.
- Chapter 6.** Added information regarding replacement of warning signs in a series in section 6.2.



Major Highlight Revisions:

- Chapter 7.** Added new section 7.6.15 – Mainline Plaza: Overhead Open Road Tolling Signage (Illustration P-IT15). Added a new sign detail P-IT15 – Overhead Open road Tolling Signage. Updated sign details P-IT2, P-IT3A, P-IT3B to show I(dot)Pass instead of I(hyphen)Pass.
- Chapter 8.** Added new section for All Electronic Tolling (AET) located in Section 8.3.7.
- Chapter 9.** Added new sections 9.7.18 – Sponsorship Signs (Illustration I-IT6), 9.7.19 – Blue Board Signage Program, 9.7.20 – Welcome to the Illinois Tollway Signage (Illustration I-IT7), and 9.7.21 – Tollway Ends Thank You Signage (Illustration I-IT8). Added new sign details I-IT6 – Sponsorship Sign, I-IT7 – Welcome to the Illinois Tollway Sign, and I-IT8 – Tollway Ends Thank You sign.
- Chapter 10.** No change.
- Chapter 11.** New chapter added. Chapter 11 is now called Pavement Marking Guidelines.
- Chapter 12.** Previously called chapter 11 in the 2012 edition of this manual. This chapter was renamed to Pavement Marking Layout. Added new pavement marking detail PM-IT2B – Lane-Reduction Transition Markings.
- Chapter 13.** Previously called chapter 12. No other changes except for revising chapter and section numbers.
- Chapter 14.** Previously called chapter 13. No other changes except for revising chapter and section numbers.
- Chapter 15.** Previously called chapter 14. Updated index to reflect updated page numbers of this manual.
- Chapter 1-15.** All signs containing the word I-Pass with a hyphen has been updated to show I●Pass to match the latest version of the Illinois Tollway Style Guide criteria.



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1. Sign Guidelines

1 - Introduction and Overview

1.1 Purpose and Approach

The *Illinois Tollway Roadway Signing and Pavement Marking Guidelines* (RSPMG) are written for the following qualified professionals, who may be unfamiliar with the Illinois State Toll Highway Authority (Tollway), in assisting them to quickly comprehend the Tollway standards for the design, fabrication, and installation of signs unique to the Tollway:

- Designers
- Signing and Graphic Consultants
- Fabricators
- Installation Contractors
- Construction Managers

Designer: The person (or consultant team) responsible for performing a design task for a Tollway project. Although this is typically the Design Section Engineer (DSE), it can also include a person (or consultant team) hired by a Contractor to perform design as part of a Value Engineering Proposal or part of a Performance Based Design. This document will use the term “Designer”, which covers anyone performing design, and will only use the term “DSE” when discussing tasks specific to the DSE.

All signing on the Tollway should use symbols to convey messages as opposed to text, wherever possible.

In general, signs should be used where specific regulations apply, where hazards are not self-evident or where information is needed to inform the motorist. Sign selection, design, and placement should be based on an engineering study or the application of engineering judgment in conformance with the *MUTCD*. Each sign should be displayed only for the specific purpose as stated in the *MUTCD*.

1.2 - Relationship to Other Manuals

The RSPMG is devised in accordance with the guidelines given in both the national *Manual on Uniform Traffic Control Devices for Streets and Highways* (*MUTCD*), 2009 Edition with Revision 1 and Revision 2, published by the U.S. Department of Transportation, and the *Illinois Supplement to the MUTCD*, published by the State of Illinois Department of Transportation (IDOT). Whereas the Illinois Supplement covers a wide range of facilities as required for the statewide design purposes, these guidelines are designed to specifically address signing unique to the Tollway System. The RSPMG also governs trailblazing signing and off-network signing related to Tollway routes. In the event of conflict between the directives in these guidelines and state or federal standards, the user should consult the Tollway staff for appropriate resolution.

Since the Tollway System connects with interstate highways serving three different states, a significant amount of interstate traffic requires the use of uniform signing that is easily recognizable to both in-state and out-of-state travelers. For this reason, the national

MUTCD was referenced in conjunction with the Illinois Supplement to produce this text.

Letter and message spacing for sign layout should be based on the current edition of the Federal Highway Administration’s *Standard Highway Signs and Markings* book. The Federal Highway Administration’s *Standard Alphabets for Traffic Control Devices* should also be used for selecting the proper letter series. Reference is made to the American Association of State Highway and Transportation Officials (AASHTO) *List of Control Cities for Use in Guide Signs on Interstate Highways* for the determination and use of control cities on Tollway guide signs when associated with an interstate highway. In general, sign supports are based on the latest edition of AASHTO’s *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*.

Certain circumstances might dictate that other agency standards and guidelines be used in conjunction with the RSPMG. For example, a sign might need to be attached to an overpass belonging to IDOT. In such a case, the sign design could follow the RSPMG but the attachment details would require IDOT’s review and approval.

Due to the nature of the Tollway System, there are numerous signing situations that are not addressed in the *MUTCD*. Most of these signing situations deal with the toll plaza areas, oasis areas and special application signs that are unique to the Tollway. Since none of these signs are standard signs from the *MUTCD*, all of these should be designed and fabricated according to the guidelines set forth here, and also with reference to the *MUTCD* and the *Standard Highway Signs and Markings* book.

For guidance on signing used in construction zones, Designers shall refer to the *Tollway Roadway Traffic Control and Communications Manual*.

1.3 - Sign Classifications

The following general classifications of sign types are used by the Tollway:

1. **Guide Signs** provide direction to the driver regarding traffic lanes, exits, interchanges, routes and destinations. Guide signs are placed in advance of, or at the point where, a decision is to be made regarding a change in direction of travel. The signing should furnish drivers with clear instruction for orderly progress to their destinations.
2. **Regulatory Signs** inform the driver of traffic laws or regulations and indicate the applicability of legal requirements that might not otherwise be apparent.
3. **Warning Signs** alert the driver to potentially hazardous conditions on or adjacent to the roadway that might not otherwise be readily apparent.
4. **Plaza Signs** advise and direct drivers to and through toll plazas. These can be guide, regulatory, or warning signs, or combinations of the three types, all aimed at plaza area traffic control.
5. **Electronic Toll Signs** provide traffic control for cashless toll payment using electronic transponders. Most of these signs are

combinations of guide, regulatory, and warning signs.

6. **Information Signs** identify services, communities, structures and crossroads, and identify the presence of off-road destinations at certain exits. These signs are ancillary to safe use of the roadway. These are a subgroup of Guide signs in the *MUTCD*.
7. A specific subcategory of **Information Signs** is **Traffic Generator Signs**. These are supplemental guide signs that may show destinations not displayed on the major guide signs. The Tollway shall review all such signs and has sanctioning power regarding the implementation of new traffic generator signs. The following is a general list of traffic generator signs:
 - Cultural Facilities: Museums, Performing Arts
 - Government Facilities: Courts, Motor Vehicle, Law Enforcement Agencies
 - Higher Educational Facilities
 - Recreational Facilities
 - Transit Facilities
 - Points of Interest
 - Airports
 - Municipalities

Traffic Generator signs are **not** addressed in this document. Consult the latest edition of the *Traffic Generator and Specific Service Sign Policy Guide* for guidance on use and design.

1.4 - Sign Naming

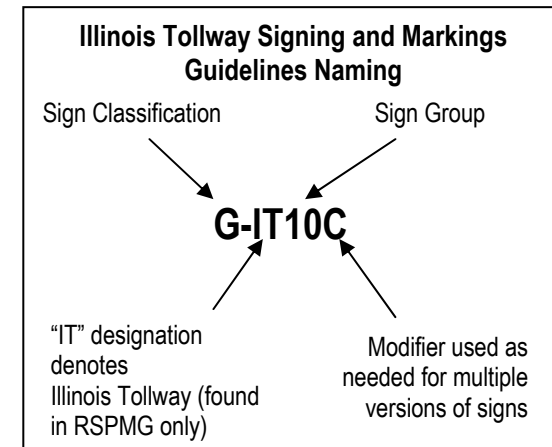


Figure 1-1 Sign Naming Conventions

All national standard signs are designated in the *MUTCD* with letters and numbers such as R2-1. The beginning letter often indicates the general type of sign, such as “R” for regulatory or “W” for warning. The first number indicates a sign group, and the number after the hyphen is the designation of the sign within its group.

State of Illinois standard signs that differ from those in the *MUTCD* have a letter and number designation beginning with the letter “I,” such as I100, to distinguish them from the signs found in the *MUTCD*. For example, instead of a W10-11 sign in the *MUTCD*, Illinois replaces it with a different sign designated W10-I100.

Tollway standard signs may or may not differ from those in the *MUTCD* and the Illinois Supplement.

The Tollway uses the following beginning letters to indicate sign classification:

G = Guide
P = Plaza (Ramp and/or Mainline)
ET = Electronic Toll
I = Information
R = Regulatory
W = Warning

This is followed by “IT” for Illinois Tollway and a number indicating a sign group that may in turn be followed by an upper case letter indicating variations on the group, e.g., G-IT2A and G-IT2B.

MAY – a permissive or provisional condition. No requirement for design or application is intended, and typically conveys a design option.

The basic guidelines set forth in this text should be considered as generalizations without reference to actual field conditions. All dimensions and distances should be viewed as the allowable minimums (or maximums, as stated) and should be adhered to wherever possible.

1.5 - Terminology

The RSPMG uses the words “shall”, “should”, and “may” throughout the text. To clarify the meanings intended in this guideline by the use of these words, the following definitions apply:

SHALL – a mandatory condition. Where certain requirements in the design or application of the device are described with the “shall” stipulation, it is mandatory when an installation is made that these requirements be met. A deviation will be considered only if a documented engineering study is completed and is not guaranteed.

SHOULD – an advisory condition. Where the word “should” is used, it is considered to be advisable usage, subject to engineering study in most cases, and is recommended but not mandatory. General Tollway practice is to support significant deviations from a “should” condition with written documentation.



2. Sign Specifications

2 - Sign Specifications

2.1 - Sign Purpose

The purpose of signing is to provide clear, concise information and movement directives to motorists traveling on the Tollway through the use of consistent and effective signing. The Tollway generally adheres to the national *MUTCD*, the *Standard Highway Signs and Markings* book, and the *Illinois Supplement to the national MUTCD* for typical signs. However, the Tollway has a number of signs that are unique to the Tollway, and are specified here in the RSPMG.

Signing and pictographs unique to the Tollway were redesigned as part of the Open Road Tolling (ORT) program, based on national best practices with input from engineering, planning, and communications staff, and with the overall twin goals of increased comprehensibility and safety. The aesthetics of the new signing complements the new Tollway architecture, and is an intended counterpoint to the natural landscape. The new I-Pass pictograph illustrates the relationship between the various aesthetic tools for image-making: the heroic "I" is architectural in character. The roadway curve embedded in the "I" conveys motion and speed, and also natural, more organic forms seen in the landscape. The "I" is accompanied by the "I • PASS" word legend located beneath the "I" except where the word legend cannot fit on a sign.

2.2 - Sign Design

The Tollway distinguishes between Guide Signs (G-series), Regulatory Signs (R-series), Warning Signs (W-series), Plaza Signs (P-series), Electronic Toll (ET-series), and Information Signs (I-series). Information Signs are a subgroup of Guide Signs that typically identify structures and crossroad routes, and the presence of special destinations at certain exits. These signs are usually ancillary to safe use of the roadway.

Road users should be guided with consistent signing on the approaches to interchanges, whether driving through rural or urban areas. Since geographical, geometric and operating factors regularly create significant differences between urban and rural conditions, the signing needs to take the specific conditions into account.

Message layouts for each sign are provided in the sign illustrations sections of these Guidelines. Messages should not differ from the messages presented in this document unless a specific situation warrants a change. In this case, it is left to the Designer to determine what an appropriate message layout should be, given the constraints of the specific situation and subject to the approval of the Tollway. The Designer shall use clear, simple language to convey the full meaning and intent of the altered sign. Consistent signing should be used throughout the Tollway System.

2.3 - Sign Shape

Most signs utilized on the Tollway System are rectangular in shape, although Warning Signs may be diamonds. Standard *MUTCD* and IDOT signs such as STOP and YIELD signs that are not rectangular may also appear as part of sign assemblies on the Tollway.

2.4 - Sign Size

The size of specific signs should be determined by the message displayed on the sign and any physical constraints at the sign location. Sign messages shall be sized according to the *MUTCD* and the direction presented herein.

2.5 - Sign Color

The background color of signs used on the Tollway System shall follow the *MUTCD* standards. Refer to Tollway Special Provisions, "Retroreflective Sheeting for Information Signs".

2.6 - Sign Reflectorization and Illumination

For all active design projects, the Tollway shall replace all guide and warning signs with 3M™ Diamond

Grade™ DG³ Reflective Sheeting as described in section 2.12. In general, all toll plaza signs should also be replaced in this manner. All other regulatory and informational signs (blue and brown) shall be prismatic (diamond grade equivalent). Designers shall adhere to the IDOT Standard Specifications 720 & 1091 as well as to the direction by the Tollway Project Manager in compliance with this directive.

Sheeting color shall comply with the standard color tolerance chart issued by USDOT (see Title 23 of the Code of Federal Regulations, Part 655, Appendix to Subpart F, Tables 1 through 6) and FHWA, and with all specifications outlined in ASTM D 4956. Intensity is to follow ASTM E 810 and applicable sections of ASTM D 4956-04.

Refer to Tollway Special Provisions, “Retroreflective Sheeting for Information Signs”.

See the Tollway *Guidelines for Roadway Illumination* for standards pertaining to roadway and sign lighting. The Tollway has eliminated the installation of sign luminaires on most overhead signs. The current policy is only to install luminaires on all mainline toll plaza approach signs, and other signs which require lighting based on geometry.

If the Tollway decides to install sign lighting, the Designer shall make appropriate provisions for the reinstallation of sign lighting using the *Structural Design Manual* and Tollway *Guidelines for Roadway Illumination*.

3M™ Diamond Grade™ DG³ Reflective Sheeting (see section 2.12 for sign sheeting materials) will now be

used unless otherwise directed by the Tollway. This will eliminate the installation of sign luminaires on overhead sign structures span type, overhead sign structures cantilever type, and bridge-mounted structures. The installation of flashing beacons and closed circuit television cameras will continue to be required per the Tollway’s current guidelines.

2.7 - Sign Message

The message of Tollway signs should use the minimum number of words, pictographs, symbols and diagrams to safely and consistently convey a message to roadway users. The size of lettering shall follow *MUTCD* minimum sizing for various signs and Tollway-specified font and sizes as shown on the GuidSIGN© layouts and sign illustrations included in these Guidelines. Symbols and pictographs, if used, should be sized proportionately to the sign or surface on which they are mounted such that an attractive relationship between background ‘open space’ and the symbol is created.

Font: All lettering type styles and spacing requirements shall follow the *MUTCD* standards and the *Standard Highway Signs and Markings* book and 2012 Supplement.

The Tollway has a standardized letter style and spacing for signs to promote uniform application. The Tollway uses Clearview 5W and E Modified fonts for positive contrast legends on all guide signs and will continue to do so per the following requirements:

1. Clearview 5W font shall only be used for the positive contrast portion of signs, meaning white lettering on a green, brown, or blue background.

2. Clearview 5W font shall only be used for mixed-case lettering (places, names, and destinations). E Modified font shall be used for any text that is all upper-case or special characters.

3. E Modified font shall be used for all numbers except when numbers are used as part of a street name, such as 75th Street.

4. Lower-case letter loop heights for Clearview 5W fonts shall be 84% of the corresponding upper-case letter heights, as opposed to 75% for other standard fonts.

5. Reduced width Clearview 5W-R font may only be used for overlaying an existing sign or replacement of a sign panel on an existing sign post or an existing sign structure that cannot support a larger sign panel.

6. Clearview font spacing shall follow the spacing tables specific to the Clearview font.

Arrows and Symbols shall be from the *Standard Highway Signs and Markings* book and 2012 Supplement.

2.8 - Sign Legend

Sign legends shall follow the *MUTCD* which provides guidelines on how to properly space letters in a word,

words in a line, lines with other lines, and the proper spacing of edges. These rules shall be followed to ensure that uniformity is attained in all signs.

2.9 - Sign Borders

All sign borders shall follow the *MUTCD* standards.

2.10 - Diagrammatic Signs

Diagrammatic signs are used to show a graphic view of an exit or entry lane configuration. Diagrammatic signs shall follow the *MUTCD* and the *Standard Highway Signs and Markings* book and the current Supplement guidelines and standards for the design and use of diagrammatic signs (current Supplement is 2012 as of July, 2014). In general, diagrammatic signs on the Tollway are limited to specific applications.

2.11 - Sign Symbols and Pictographs

Symbols should be used, in lieu of words, wherever practical and effective on Tollway signs. The I-Pass pictograph should be used to assist roadway users in selecting appropriate lanes to pay tolls. Symbols should follow the *MUTCD* and the standards of the *Standard Highway Signs and Markings* book and current Supplement.

2.12 - Sign Materials

Flat Sheet Aluminum Signs: Flat sheet aluminum signs should be designed in vertical and horizontal increments of six inches. Flat sheet aluminum signs are made from a blank aluminum sheet covered with reflective sheeting. Messages shall be direct-applied or silk-screened onto the reflective material in a sign shop. Signs that are 60" x 48" or smaller can be constructed with only a single sheet of aluminum blank material; larger signs are made from extrusions.

Extruded Aluminum Channel Signs: Extruded aluminum channel signs should be designed in vertical increments of 12" and horizontal increments of 6"; the maximum sign width that Tollway Sign Shop can fabricate is 42'. Extruded aluminum channel signs are made from 12" high channels placed one on top of the other to form a single sign of the desired height. The sign face is covered with reflective sheeting. The legend and border are generally demountable copy or direct applied reflective sheeting following *MUTCD* standards. This sign material is normally used for large Guide Signs. Refer to Tollway Standard F10 for connection and mounting details.

Plywood Signs: Plywood signs may only be used for temporary sign installations used for temporary traffic control measures. The plywood should conform to Standard Specifications. The sign material is covered with reflective sheeting and the legend and borders are made of cutout letters and characters from reflective sheeting materials following *MUTCD* standards. Designers shall refer to the guidelines set forth in the

Tollway Roadway Traffic Control and Communications Manual.

Reflective Sheeting: All signs shall use 3M™ Diamond Grade™ DG³ Reflective Sheeting Series 4000. DG³ sheeting is designed to have the highest retroreflective characteristics for roadway signs. No additional luminaires shall be required for roadway signs on cantilevers or span structures except for Plaza Signs as described in Chapter 4, sections 4.7.10 - 4.7.12.

2.13 - Sign Supports

The design and installation of sign supports shall conform to *Tollway Standard Drawings* and the latest edition of AASHTO's *Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals*. In addition, sign supports shall meet the performance criteria contained in the *National Cooperative Highway Research Program (NCHRP) Report 350, Recommended Procedures for the Safety Performance Evaluation of Highway Features*, and *Manual for Assessing Safety Hardware (MASH)*.

Overhead Sign Installations: Overhead signs will prove valuable at many locations. The factors justifying the erection of overhead sign displays are enumerated in the *MUTCD*. Overhead signs on the Tollway shall provide a vertical clearance as indicated in the Tollway Structure Design Manual in section 24.0. The Designer should refer to the appropriate *Tollway Standard Drawings* and design criteria for overhead sign structure span type and overhead sign structure cantilever type

for both new and replacement signs to ensure signs do not exceed structure capacity.

Overhead Sign Structure Span Type: A standard overhead sign structure span type should be used where large signs are required to span multiple roadway lanes or when more than one sign is needed at a location.

Overhead Sign Structure Cantilever Type: A standard overhead sign structure cantilever type may be used for some applications where only a single sign is needed at a location.

Overhead Bridge Mounts: Overcrossing bridge structures can often serve as support for overhead signs, and under some circumstances, may be the only practical solution that will provide adequate viewing distance. Use of such bridge structures as sign supports will eliminate the need for additional foundations and sign supports along the roadside and is the preferred mounting method where feasible. Such signs thus can enhance both safety and economy. Refer to Tollway Standard H10 for specifications for the design and construction of structural supports for highway signs on bridges. Overhead bridge mounts shall be coordinated with the owner of the structure (IDOT or other agencies).

Ground-Mounted Steel Channel Bar Posts (U-Channel): Ground-Mounted Steel Channel Bar Posts are frequently used to install regulatory, warning and small guide signs along the Tollway. See AASHTO's *Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals* as well as MUTCD section 2A.21 to determine the required size

and number of posts for each sign installation. See IDOT Specification Book Articles 1006.29 and 1006.09 and Standard Drawing 729001 for installation details.

Ground-Mounted Wood Posts: Wood posts are commonly used to install Guide and Information Signs along the Tollway. Braced wood supports are not allowed for Tollway ground mounted post supports unless protected.

Temporary Signing shall be installed on Ground-Mounted supports. The support material shall be 6"x6" Southern Pine No.2 or Douglas Fir No. 2. Determining the number of supports and maximum sign panel dimension sizes shall be based on the criteria found in AASHTO's *Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*.

See *Chapter 13 – Engineering Studies* regarding the number of sign posts required based on sign size and post size allowed for temporary signing on Ground-Mounted Wood Posts.

In cases where larger temporary signs are required, the sign and supports shall be designed and placed at locations where it is shielded by barrier or guardrail.

See AASHTO's *Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals* to determine the required size and number of posts for each sign installation. See IDOT Specification Book Article 730.03 for installation details.

Wood posts are installed without a concrete foundation. Posts installed in soil (no foundation) should be placed in a vertical hole not exceeding 12" in diameter and not

less than 5' deep. The support should be placed in the center of the hole and backfilled with stone screenings. The supports shall be spaced as shown in Tollway Standard F9.

Flat sheet aluminum and plywood signs are attached to wood posts with 3/8" x 7" stainless steel bolts. Extruded aluminum channel signs are attached to the post with aluminum angles and post clips.

Steel with Beam Breakaway Posts: Breakaway supports shall be designed to yield when struck by a vehicle thereby minimizing injury to the occupants of the vehicle and damage to the vehicle. All roadside signs on high-speed highways located within the suggested clear zone width given in the current AASHTO *Roadside Design Guide* shall be placed on breakaway supports, unless they are located behind a barrier or crash cushion. Supports outside the clear zone may be breakaway. The design of breakaway posts shall be based on *Tollway Standard Drawings* and the latest edition of AASHTO's *Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*.

2.14 - Foundations

Concrete foundations are required to support large signs and overhead sign support structures. The design and construction of foundations should conform to *Tollway Standard Drawings* except where soil conditions or site constrictions make other types of foundations a better choice. Generally, foundations should meet the requirements of the latest edition of AASHTO's *Standard Specifications for Structural*

Supports for Highway Signs, Luminaires and Traffic Signals. The foundation should include adequate steel reinforcement and anchor bolts to be attached to the sign support system. A soils investigation and structural foundation design is required to determine the proper foundation design and is the responsibility of the Designer. The most common types of foundations are listed below, but other special designs may be necessary in certain circumstances:

Caissons (Drilled Shafts): If the proper soil conditions exist, the caisson foundation may be applicable for use in vertical overhead sign structure cantilever type supports where the horizontal shear is carried in bending by a single pole.

Piles: In special cases, pile foundations may be used when adequate bearing pressures for spread footings do not exist at reasonable depths below the ground surface. They are particularly favorable when dewatering and caving of excavations are found to be problems. Resistance to uplift is dependent upon the skin friction between pile and soil. A soils investigation shall be performed to determine friction values.

2.15 - Sign Installation

Mounting Heights: All ground mounted Tollway signs shall be installed with minimum vertical clearance, measured from the bottom edge of the sign to the top of edge of traveled way pavement elevation adjacent to the sign, following Tollway Standard F9 and *MUTCD* standards. If a secondary sign panel is mounted below

another sign, the combined sign assembly shall be installed at mounting heights necessary to achieve vertical clearance below the sign, following Tollway Standard F9 and *MUTCD* standards. Overhead mounted signs on the Tollway shall provide a vertical clearance as indicated in the *Tollway Structure Design Manual*, section 24.0.

Lateral Offset: The minimum and maximum lateral clearance outside the usable roadway shoulder for ground-mounted signs or for overhead sign supports, either to the right or left side of the roadway, shall be as indicated in Tollway Standard Drawing F9. The minimum clearance shall also apply outside of a barrier curb. If located within the clear zone, the signs shall be mounted on crashworthy supports or shielded by appropriate crashworthy barriers. Lesser clearances may be used on ramps at interchanges, following Tollway Standards.

Site Grading and Sign Location: The Designer and sign installer should have a sound working knowledge of the *AASHTO Roadside Design Guide*. This guide contains information and guidance on many aspects of safer roadside design for public streets and highways.

Roadside hardware for sign supports should not be located in or near ditch bottoms or on the back slope near drainage channels where erosion and freezing could affect the proper operation of the structural supports.

Signs may be erected on level or moderately sloping ground, following *MUTCD* standards. The earth should be graded smooth, with no rock or debris protruding from the ground level. The area should be clear of

trees or other heavy vegetation that might interfere with the view and erection of the sign.

Signs on Sound Walls: Signs mounted on sound walls should be avoided. Signs may be installed perpendicular to the sound wall. At a location where there is an offset in the sound wall, the sign should be installed parallel to the sound wall. A free-standing sign in front of the sound wall (roadside) is preferred.

Sound walls are typically required in narrow right-of-way conditions and signing adjacent to sound walls is frequently located within the suggested clear zone given in the *AASHTO Roadside Design Guide*. In these conditions, a barrier wall or guardrail shall be provided in accordance with BWA, in addition to the horizontal and vertical clearances required above.

Signs on Median or Barrier Walls: In tight right-of-way or lane configurations, signs may be located on median or barrier walls if the required safe lateral and vertical clearances can be maintained.

Signs on Bridges: Signs may be located on a bridge abutment perpendicular to the roadway if the mounting surface is large enough to accommodate the sign and permits a minimum of 12" of mounting surface to be visible on all sides of the signs. Approval to mount signs on bridge abutments must be obtained by the controlling authority prior to installation.

Signs at Overhead Installations: If overhead signs are needed, the number of signs at these locations should be limited to only those essential in communicating guide information to the road user. Exit Direction signs for a single exit and the Advance Guide signs should

have only one panel with one or two destinations. Regulatory Signs, such as speed limits, should not be used in conjunction with overhead guide signs. At overhead locations, more than one sign may be installed to advise drivers of multiple exit conditions at an interchange. However, there should not be more than three guide signs displayed at any one location either on the overhead structure or its support, as recommended by the *MUTCD*. Structural load capacity on cantilever and span structures with overhead signs shall be evaluated according to the F-series of the Tollway Standard Drawings.

2.16 – Sign Software and Format

All sign illustrations, diagrams, and sign panel reports included in the RSPMG were created with GuidSIGN Version 6.1 for Microstation V8i. Sign panel reports created by Designers and submitted for review and approval to the Tollway must be in the format presented in this document.



3. Sign Placement - Major Applications

3 - Sign Placement – Major Applications

3.1 - General Guidelines

3.1.1 - Context

Road users should be guided with consistent signing on the approaches to interchanges whether driving through rural or urban areas. Since geographical, geometric and operating factors regularly create significant differences between urban and rural conditions, the signing should take these conditions into account.

The Tollway roadways extend through rural, suburban and urbanized areas. As such, the roadway cross-sections vary greatly including flat, at-grade sections, depressed roadways, and elevated viaducts, although the former is the predominant cross-section on the Tollway. In those areas, existing landscape can be minimal or quite lush, to screen developed areas outside of the roadway. Recent and often uncontrolled development and signing adjacent to many Tollway sections, however, create a visually chaotic corridor, which competes with Tollway signing.

For purposes of signing per the *MUTCD*, a Service Interchange on the Tollway is normally considered an Intermediate Interchange, except in a few limited cases. The DSE is responsible for checking with the Tollway

PM to identify the *MUTCD* classification of a subject Service Interchange.

Note that only Service Interchange Signing is addressed in the Sign Placement illustrations in this chapter through the placement of Advanced Guide signs, Exit Direction signs, and Regulatory signs. System Interchanges (freeway to freeway) are unique facilities that must be addressed on an individual basis. Consult *MUTCD* Section 2E.44 and the Tollway Project Manager when undertaking System Interchange design.

For interchanges that are closely spaced, less than 800' between interchanges, Interchange Sequence signs should be used instead of the Advanced Guide signs for the affected interchanges. Designers shall refer to *MUTCD* Section 2E.40 for guidance.

Missing signs in a series shall be brought to standard. Contact Tollway PM for additional guidance.

3.1.2 - Applications

The sign placement diagrams and sign illustrations included in these guidelines were selected to cover a range of conditions most often encountered on the Tollway to show how the *MUTCD* and Tollway standards are coordinated for new or replacement sign applications. These guidelines are not intended to be applied to existing signs; that is, these guidelines are not a retroactive standard. They may be used, however, to evaluate existing signs for safety, clarity, placement and overall serviceability. The final decision to redesign and replace existing signs is the responsibility of the Tollway, which includes the Sign Shop and Incident

Manager. The standards and guidelines provided in the *MUTCD* should be followed in all sign applications.

3.1.3 - Approach

A sign should be located where it commands attention and placed in advance of the point, object, or situation to which it applies. Its location, combined with suitable legibility, should be such that a driver traveling at normal speed has adequate time to make the proper response. The placement of signs should follow *MUTCD* standards and guidelines.

There are a wide variety of roadway configurations on the Tollway mainline, and at exits and interchanges, for which sign placement is critical to safe motorist negotiation of the roadway. The following placement descriptions enumerate typical conditions on the Tollway mainline, at entry and exit ramps, and at interchanges, oases, and plazas.

Sign selection, design, and placement should be made on the basis of an engineering study, and the application of engineering judgment in conformance with the *MUTCD*. This work is the responsibility of the Designer. The intent of these diagrams is to serve as a guide to designers and provide uniformity throughout the Tollway System.

3.2 - Major Applications

All Sign Placement illustrations follow the text below and a list of illustrations is included at the end of the

chapter. The illustration identifier is listed in parentheses following each application name.

3.2.1 - Composite Sign Placement Diagram (Illustration SP-IT1)

The Composite Sign Placement diagram illustrates the most common applications for signing along the Tollway mainline. The main Tollway roadway configurations are: an entry ramp plaza, cloverleaf interchange with full collector-distributor roadways, mainline plaza, diamond interchange, and an exit ramp plaza. The Composite Sign Placement illustration is intended to serve as a guide to Designers and provide uniformity throughout the Tollway System. Follow the rest of the sections in this chapter for further guidance on sign placement descriptions and illustrations.

3.2.2 - Diamond Interchange (Illustration SP-IT2A-B)

Signing for diamond interchanges with non-interstate highways should include, as a minimum, overhead signing at the theoretical gore, and advance ground mounted signing at the ½ mile and 1 mile locations. Where the interchange spacing is greater than 5 miles, an advance sign at 2 miles should be added.

Exact placement of signs on the ramps varies from case to case. In general, signs should be placed at least 500' apart. Regulatory signs along the mainline and at the beginning and end of ramps shall be staggered along the median light poles while holding proper dimensional

offsets along the outside shoulder based on required distances shown in this manual. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first advance interchange sign is typically 2 miles from the theoretical gore of the interchange, bearing the upcoming exit number, route number, and cross street name. The second and third signs should be at 1 mile and ½ mile from the theoretical gore.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in each of the exit gore areas.

Regulatory Sign: A STOP sign shall be placed at the end of the exit ramp, if applicable. Follow applicable engineering studies for exact placement.

Warning Sign: A STOP AHEAD sign or SIGNAL AHEAD sign may be placed on the ramp before the crossroad to give motorists advance notice and to ensure a safe stop. A YIELD AHEAD sign may also be used if warranted.

Regulatory Signs: WRONG WAY, 1-WAY and DO NOT ENTER signs shall be placed at the end of every exit ramp to advise motorists not to enter. NO RIGHT TURN and NO LEFT TURN signs may also be appropriate on the crossroad to help eliminate wrong way turns. See *MUTCD* Section 2B.41.

Warning Sign: Also, if a speed-reducing curve exists on the exit ramp, an EXIT SPEED sign shall be placed along the deceleration lane or on the ramp far enough

in advance to allow sufficient time to slow down and to safely maneuver on the ramp. These signs should not be used indiscriminately.

Crossroad Guide Sign and Trailblazer Marker Sign: Crossroad guide signs and trailblazer assemblies should be used on the crossroad at an interchange in advance of an entrance ramp.

Regulatory Sign: A MOTOR VEHICLES ONLY sign should be installed on the right shoulder of all entrance ramps at the beginning of the ramp.

Regulatory Sign: A YIELD sign shall be placed at the end of the entrance ramp where an acceleration lane is not provided, or where one is provided and is not the standard length.

Warning Sign: A MERGE sign shall be placed at a location along the major roadway in advance of the point where traffic merges from an entrance ramp and where it does not obstruct the driver's view of vehicles on the entering roadway.

Regulatory and Route Signs: A series of signs should be placed along the mainline roadway following the occurrence of an interchange entrance ramp. A confirmation route sign shown at 1000' past the gore should be placed at the end of an acceleration lane where the 10" edge line meets the 4" edge line. The signs should be spaced at intervals of 1000' when possible.

Regulatory Sign: A SPEED LIMIT sign shall be placed 1500' feet from the theoretical gore. In areas of the six-county metropolitan area where 60 mph or greater is permitted, a supplemental speed limit sign for slower

speed vehicles should be placed 500' from the SPEED LIMIT sign.

Regulatory Sign: A TRUCKS USE 2 RIGHT LANES sign shall be placed 2500' from the theoretical gore.

Regulatory Sign: An EMERGENCY STOPPING ONLY - 2 HOUR LIMIT sign should be placed 3000' from the theoretical gore.

Regulatory Sign: An AHEAD only sign shall be placed along the center median of the crossing road as shown in 3-SP-IT2B.

3.2.3 - Cloverleaf Interchange (Illustration SP-IT3)

Advance signing for Cloverleaf Interchanges should direct mainline motorists to the exit and interchange for a crossroad. Regulatory signs along the mainline and at the beginning and end of ramps shall be staggered along the median light poles while holding proper dimensional offsets along the outside shoulder based on required distances shown in this manual. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first advance interchange sign is typically 2 miles from the theoretical gore of the interchange, bearing the upcoming exit number, route number, and cross street name. The second and third signs should be at 1 mile and ½ mile from the theoretical gore.

Second Exit Direction and Advance Guide Signs: Above the mainline lanes, separate guide signs for the next two interchanges should be mounted bearing the exit number, route number (if applicable), cross street name, and distance to the respective interchange.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in each of the exit gore areas.

Regulatory Sign: A YIELD sign shall be placed at the end of entrance ramps where an acceleration lane is not provided, or where one is provided and is not the standard length. A YIELD AHEAD sign may also be used.

Warning Sign: If a speed-reducing curve exists on the Exit ramp, an EXIT SPEED warning sign shall be placed along the deceleration lane or on the ramp far enough in advance to allow sufficient time to slow down and to safely maneuver on the ramp. If a speed-reducing curve exists on the Entrance ramp, a RAMP SPEED warning sign shall be placed along the ramp. These signs should not be used indiscriminately.

Crossroad and Trailblazer Guide Signs: Guide signs and trailblazer assemblies should be used on the crossroad at an interchange and in advance of an entrance ramp.

Regulatory Sign: A MOTOR VEHICLES ONLY sign should be installed on the right shoulder of all entrance ramps at the beginning of the ramp.

Warning Sign: A MERGE sign shall be placed at a location along the major roadway in advance of the

point where traffic merges from an entrance ramp and where it does not obstruct the driver's view of vehicles on the entering roadway.

Regulatory Signs and Route Signs: A series of signs should be placed along the mainline roadway following the occurrence of an interchange entrance ramp. A confirmation route sign shown at 1000' past the gore should be placed at the end of an acceleration lane where the 10" edge line meets the 4" edge line. The signs should be spaced at intervals of 1000' when possible.

Regulatory Sign: A SPEED LIMIT sign should be placed 1500' from the theoretical gore. In areas of the six-county metropolitan area where 60 mph or greater is permitted, a supplemental speed limit sign for slower speed vehicles should be placed 500' from the SPEED LIMIT sign.

Regulatory Sign: A TRUCKS USE 2 RIGHT LANES sign shall be placed 2500' from the theoretical gore.

Regulatory Sign: An EMERGENCY STOPPING ONLY - 2 HOUR LIMIT sign should be placed 3000' from the theoretical gore.

3.2.4 - Cloverleaf Interchange with Full Collector/Distributor Roadways (Illustration SP-IT4)

Advance signing for collector-distributor interchanges should direct mainline motorists to the exit and interchange for a crossroad and adjacent community (or communities). The signs indicated here are

supplemental to those listed for the Cloverleaf Interchange (SP-IT3), and should be designed and installed in accordance with the *MUTCD*. Regulatory signs along the mainline and at the beginning and end of ramps shall be staggered along the median light poles while holding proper dimensional offsets along the outside shoulder based on required distances shown in this manual. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first advance interchange sign is typically 2 miles from the theoretical gore of the interchange, bearing the upcoming exit number, route number, and community name(s). The second and third signs should be at 1 mile and ½ mile from the theoretical gore.

Exit Direction Signs: The next sign in the sequence shall be an Exit Direction sign on a cantilever in the vicinity of the theoretical gore. The sign shall include the route name and number as well as community name(s). The next sign set, located at the collector-distributor road exit theoretical gore, should be an Exit Direction sign for the first exit and a pull-through Advance Guide sign for the second exit, as shown.

Warning Sign: If a speed-reducing curve exists on the Exit ramp, an EXIT SPEED warning sign shall be placed along the deceleration lane or on the ramp far enough in advance to allow sufficient time to slow down and to safely maneuver on the ramp. If a speed-reducing curve exists on the Entrance ramp, a RAMP SPEED warning sign shall be placed along the ramp. These signs should not be used indiscriminately.

Bridge Signs: The second Exit Direction sign and a pull-through sign to the mainline shall be placed overhead on the bridge structure as shown.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in each of the exit gore areas.

Regulatory Signs and Route Signs: A series of signs should be placed along the mainline roadway following the occurrence of an interchange entrance ramp. A confirmation route sign shown at 1000' past the gore should be placed at the end of an acceleration lane where the 10" edge line meets the 4" edge line. The signs should be spaced at intervals of 1000' when possible.

Regulatory Sign: A SPEED LIMIT sign should be placed 1500' from the theoretical gore. In areas of the six-county metropolitan area where 65 mph is permitted, a supplemental speed limit sign for slower speed vehicles should be placed 500' from the SPEED LIMIT sign.

Regulatory Sign: A TRUCKS USE 2 RIGHT LANES sign shall be placed 2500' from the theoretical gore.

Regulatory Sign: An EMERGENCY STOPPING ONLY - 2 HOUR LIMIT sign should be placed 3000' from the theoretical gore.

3.2.5 - Partial Cloverleaf Interchange (Illustration SP-IT5A-B)

Advance signing for partial cloverleaf interchanges is similar to a cloverleaf interchange in one direction of travel and similar to a diamond interchange in the other direction. While these configurations should be referenced when making sign configuration decisions, the relative locations of Advance Guide signs and Mainline Confirmation Trailblazers have been diagrammed here for convenience.

3.2.6 - Mainline Exit with Mandatory Exit Lane(s) (Illustrations SP-IT6A-B)

The Tollway has a number of exits that have mandatory exit lanes. These are calcified as follows:

- 1) A *dropped lane* is either (a) a through lane that must exit at an interchange, or (b) an auxiliary lane between successive entrance and exit ramps of adjacent interchanges from which drivers must exit at the second interchange. Through lanes in the first case typically exist for a mile or more, while in the second case the dropped lane may be less than a mile and may be much shorter.
- 2) An *auxiliary exit lane* that is more than about 500 feet long but less than about a mile. The Tollway has several such lanes that are in the neighborhood of 1/4 to 1/2 mile long.

For purposes of signing, these cases are treated similarly. SP-IT6A illustrates a single exit lane case, and SP-IT6B illustrates a double exit lane case.

Signing for shorter auxiliary exit lane cases (less than about 500 feet) should be designed on a site-by-site basis as a function of geometry and traffic volumes.

First Advance Guide Sign: The first Advance Guide sign should be cantilevered on the right shoulder at about 1 mile from the theoretical gore, and shall include the exit number, route shield, street name and distance. If the mandatory exit lane(s) exist at this location, an EXIT ONLY panel with centered downward-pointing arrow(s) shall be included. A further upstream Advance Guide sign may also be included depending on characteristics of the interchange exit.

Second Advance Guide Sign: A second Advance Guide sign should be provided between the first Advance Guide sign and the theoretical gore and provide the same information, except the distance may be omitted if the sign is less than about ½ mile from the theoretical gore. This sign should be placed at a location where the mandatory exit lane(s) exist and thus include an EXIT ONLY panel with centered downward-pointing arrow(s). In the case of an auxiliary lane that is less than 1 mile long between successive entrance and exit ramps of adjacent interchanges, the Advance Guide sign immediately downstream of the entrance ramp should typically contain the distance message.

Exit Direction Sign: The Exit Direction sign shall be placed at the theoretical gore including the EXIT ONLY panel with the appropriate number of diagonal up-and-away arrows.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in the exit gore area.

3.2.7 - Mainline Multi-Lane Exit with Mandatory Exit Lane and an Option Lane (Illustrations SP-IT7A-B)

Some Tollway interchanges involve one (possibly more) mandatory exit lane(s) plus an optional exit lane. Signing for these needs to take account of whether the interchange is classified as Major or Intermediate. Sign layout also depends on the length of dropped lane or auxiliary lane - see Section 3.2.6 for definitions of dropped lane and auxiliary exit lane. Consult the Tollway Project Coordinator to determine if the interchange is classified as Major or Intermediate, and to develop the sign design. Other signs typically should not be placed between the Advance Guide and Exit Direction sign set.

SP-IT7A illustrates signing for a Major interchange, while SP-IT7B illustrates signing for an Intermediate interchange.

Major Interchanges: Major interchanges should use advance overhead arrow per lane signs (OAPL) as illustrated on SP-IT7A at ½, 1 and 2 miles from the theoretical gore where geometrics allow. These signs shall include the exit number, route shields, TOLL (where applicable), cardinal directions and control destinations, plus the illustrated upward oriented lane use arrows. If the interchange has one or more advance OAPL signs, the distance to the theoretical gore should

be included on the first advance OAPL sign in the sequence, and may be included on subsequent advance signs. The last OAPL sign shall be located at or near the divergence point from the mainline for the mandatory exit lane, and not at the theoretical gore. A confirmation route sign should be placed on the mainline shoulder approximately 500 ft. past the theoretical gore.

Intermediate Interchanges: For Intermediate interchanges (see SP-IT7B), the first Advance Guide sign should be placed about 1 mile before the theoretical gore on a cantilever mount, and shall include the exit number, route shield, street name and distance. If the mandatory exit lane exists at this location, a panel with a downward-pointing arrow shall be provided. A second similar Advance Guide sign should be placed at an intermediate location where the mandatory exit lane exists and shall include a downward-pointing arrow. The distance may be omitted if the sign is less than about ½ mile from the theoretical gore. In the case of a dropped auxiliary lane that is less than 1 mile long between successive entrance and exit ramps of adjacent interchanges, the first Advance Guide sign immediately downstream of the entrance ramp should typically contain the distance message. The Exit Direction sign shall be placed at the theoretical gore and shall include two diagonal up-and-away arrows centered over the option lane and the mandatory exit lane.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in the exit gore area.

3.2.8 - Oasis (Illustration SP-IT8)

An Oasis provides general motorist services, such as food, fuel and phone, in addition to motorist information. An Oasis is accessed off the Tollway mainline as an exit without paying a toll. The signs should be laid out in such a way as to have traffic moving through the Oasis in one direction. Therefore, wherever there is a possibility of a vehicle going the wrong way, a regulatory sign should be placed to direct traffic in the proper direction.

Oasis Advance Motorist Services Signs: Two information signs should be placed in advance of an Oasis. The signs should display the NAME OF THE OASIS / OPEN XX HOURS, and the distance to the Oasis, XX MILES. These signs should also display the shields and/or logos of the restaurants and gas stations that provide services at the Oasis. The following paragraphs detail the typical sequence of signs encountered while driving on the mainline approach to an Oasis and on the exit ramp servicing the Oasis from the mainline.

Exit Direction Motorist Services Information Sign: At the beginning of the deceleration lane for an Oasis, an overhead or ground-mounted sign should be placed. This sign will be an information sign similar in design to an exit direction sign. The name of the Oasis and corporate logos of the services provided at the Oasis should appear on the sign. A diagonally upward-pointing arrow should be oriented to indicate the direction of the ramp.

Oasis Exit Gore Sign: A sign displaying the message OASIS (with a diagonally upward-pointing arrow) should be placed in the gore area to mark the entrance of the Oasis.

Oasis Supplemental Guide Sign: Approximately halfway up the Oasis entrance ramp on the right should be the sign TRUCKS / BUSES / KEEP / RIGHT.

Oasis Supplemental Guide Sign: At the end of the entrance ramp, the motorists are faced with their first decision point. At this location, the CARS / PICKUPS (arrow up and to the left) / TRUCKS / BUSES (arrow up and to the right) sign should be posted both at the lane split as well as the right-hand side of the roadway before the split.

Oasis Supplemental Guide Sign: At this point, the truck and bus traffic will be exposed to one more decision point which should be marked with the sign TRUCK / FUEL / LEFT LANE / TRUCK / PARKING / RIGHT / LANE. This sign should be a ground-mounted sign by the side of the roadway.

Oasis Supplemental Guide Sign: The car traffic will be faced with another decision point as well, which should be marked with an information sign PHONES / FOOD (diagonally upward-pointing arrow to the left) / FUEL / FOOD (diagonally upward-pointing arrow to the right). This sign should be mounted in the island at the decision point.

3.2.9 - Stand Alone Crash Investigation Site (Illustration SP-IT9 A-B)

The Crash Investigation Site (CIS) signing should alert and direct motorists to a safer site adjacent to the mainline. Location of these sites will be as directed and approved by the Tollway.

CIS Information Sign: The first signs in the sequence should be shoulder-mounted and placed at a distance of 1 mile in advance (and 2 miles for rural areas) from the CIS area.

CIS Information Sign: The next sign in the sequence should be shoulder-mounted and placed at a distance of ½ mile in advance from the CIS area.

CIS Information Sign: The next sign in the sequence should be shoulder-mounted and placed at the access point to the investigation site as determined by CIS access conditions. The sign should include a directional arrow pointing in the direction of the site.

CIS Site Sign: Another CIS sign should be placed within the investigation site, stating the direction, name of the Tollway, mile marker, number to report a crash to Illinois State Police, and the emergency 911 number.

3.2.10 - Mainline Plaza with Crash Investigation Site, No IPO Lanes (Illustration SP-IT10A-B)

The toll plaza signing should provide safe, efficient movement of traffic through the toll area, minimize the time spent in the toll areas, and provide uniform signing of toll plazas throughout the Tollway system. A typical mainline plaza, using the ORT concept, will have non-stop *I-Pass* Only (IPO) lanes that are separated from the toll plaza area by a bifurcated roadway. The toll collection will be recorded from the moving vehicle and will allow vehicles to pass through the collection area without stopping. The right lanes will be directed to the plaza for manual toll collection. *I-Pass* will also be

usable through all lanes of the plaza. Advance signing should accommodate the high rate of speed encountered on the Tollway and should direct motorists into the proper lanes at the bifurcation point. Advance signing for a mainline toll plaza should consist of a series of overhead signs. The actual number of lanes will vary and lane usage will vary, depending upon the composition of traffic. There will be no restrictions for lane use, i.e. trucks, campers, and RV's will be permitted in all lanes in the mainline plaza vicinity. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first sign in the sequence should be ground-mounted on the right side the roadway at a distance of 2 miles from the theoretical gore. The second sign in the sequence should be placed on an overhead structure, centered over the roadway, at a distance of 1 mile from the theoretical gore.

CIS Information Sign: At a distance of 1 mile from the CIS site location shall be a post-mounted CIS sign. There should be another CIS sign at a distance of ½ mile with the words KEEP RIGHT THRU TOLLBOOTH.

Advance Guide Sign: A ½ mile distance from the theoretical gore, the next sign in the sequence should be placed on an overhead structure, centered over the roadway.

Directional Guide Signs: The next signs in the sequence should be a set of two signs placed near the theoretical gore. The left hand sign should be centered over the IPO lanes with one downward arrow centered on each lane. The right hand sign should be centered

over the toll plaza lanes with one arrow pointing diagonally upward, in the direction of the plaza, centered on each lane, and the cash pictograph with CASH below centered on the top line. A W12-1 "Double Arrow" sign shall be placed at the exit gore indicating the bifurcation.

Directional Guide Sign: The next sign in the sequence should be an overhead sign with two beacon lights located in advance of the toll plaza. The sign should have the message STOP AT TOLLBOOTH on the top line with the word CARS, the cash pictograph, and the toll (\$X.XX) on the second line, and ALL LANES on the bottom line.

Toll Paid Sign: A supplemental post-mounted sign downstream of the toll plaza should have the words I-PASS CARS and CASH CARS with the respective toll rates.

Regulatory Signs: A stop sign with the message STOP AT TOLLBOOTH should be placed on the median of each manual collection lane without compromising the vision of the tollbooth collector from incoming vehicles. A STOP sign with a sign plate stating ALL VEHICLES shall be located on the right of the manual lanes at entry ramp plazas.

Plaza Signs: The plaza should be identified with the message PLAZA XX on a sign mounted above the canopy fascia at the center of the canopy. A sign displaying CASH and the cash pictograph shall be mounted on the canopy, one for each lane, and centered on each lane with a tollbooth. Lane-use control signs shall be installed below the lane designation signs, centered over each lane, capable of displaying a downward green arrow indicating an open lane and a

red X indicating a closed lane. WIDE and LOAD signs shall be located on both sides of a wide load lane.

Regulatory Signs: Regulatory signs governing access and parking on the toll plaza site should be placed according to site layout and traffic movement.

CIS Signs: A Crash Investigation Site sign with a directional arrow pointing towards the access and parking area on the toll plaza site shall be provided, along with another CIS sign stating the name of the plaza, direction, name of the Tollway, number to report a crash, and an emergency number.

Plaza Sign: An UNPAID TOLL Sign shall be placed downstream of IPO lanes at the discretion of the Tollway. If space permits, placement should be on both sides of the mainline. Placement of this sign is site specific and varies.

Warning Sign: A merge sign should be placed on the right hand side of the mainline in advance of the plaza merge lane area.

3.2.11 - Mainline Plaza with Interchange Exit and IPO Lanes (Illustration SP-IT11A-B)

A mainline plaza with an interchange exit will have non-stop lanes dedicated to *I-Pass* and separated from the toll plaza area by a bifurcated roadway. Left lanes pass through the ORT readers without stopping. The right lanes will be directed to the plaza for manual toll collection. *I-Pass* will also be usable through all lanes of

the plaza, and at least one IPO lane shall be provided. Advance signing should accommodate the high rate of speed encountered on the Tollway and should direct motorists into the proper lanes at the bifurcation point. Advance signing for a mainline toll plaza should consist of a series of overhead signs, including Advance Guide signs for the interchange. The actual number of lanes will vary and lane usage will vary, depending upon the composition of traffic. Additional guide signs shall be provided downstream of the plaza. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first sign in the sequence should be ground-mounted on the right side of the roadway at a distance of 2 miles from the plaza theoretical gore. The second sign in the sequence should be a post-mounted sign indicating the upcoming interchange exit at a distance of approximately 1½ miles from the plaza theoretical gore with a black on yellow KEEP RIGHT message on the bottom. The third sign in the sequence should be placed on an overhead structure, centered over the roadway, at a distance of 1 mile from the plaza theoretical gore with a black on yellow PAY TOLL 1 MILE message on the top and KEEP RIGHT on the bottom of the plaza advance sign. The fourth sign in the sequence should be placed on an overhead structure, centered over the roadway, at a distance of ½ mile from the plaza theoretical gore with a black on yellow PAY TOLL ½ MILE message on the top and KEEP RIGHT on the bottom of the plaza advance sign. The next sign should be a post-mounted sign indicating the upcoming interchange exit at a distance of approximately ¼ mile from the plaza theoretical gore with a black on yellow KEEP RIGHT message on the bottom. All overhead plaza signs shall be installed with

luminaires per Tollway Standard H11. Other plaza ground-mounted signs shall be installed using current sheeting requirements as noted in Chapter 2 Section 2.12.

Directional Guide Signs: Next should be a post-mounted Exit Direction sign with an arrow pointing diagonally upward, at a distance of approximately 300' from the plaza theoretical gore, depending on site conditions. The next signs in the sequence should be a set of two signs placed near the plaza theoretical gore. The left hand sign should be centered over the IPO lanes with one downward arrow centered on each lane. The right hand sign should be centered over the toll plaza lanes with one arrow pointing diagonally upward, in the direction of the plaza, centered on each lane, and the cash pictograph with CASH below centered horizontally on the panel. A W12-1 "Double Arrow" sign shall be placed at the exit gore indicating the bifurcation.

Directional Guide Sign: A set of two overhead signs shall be placed in advance of the toll plaza. The left hand sign should be the *I-Pass* pictograph with the message LEFT LANE. The right hand sign should have two beacon lights and the message STOP AT TOLLBOOTH on the top line with the word CARS, the cash pictograph and the toll (\$X.XX) on the second line, and ALL LANES on the bottom line.

Toll Paid Sign: A supplemental post-mounted sign downstream of the toll plaza should have the words I-PASS CARS and CASH CARS with the respective toll rates.

Regulatory Signs: Two signs, each with the message 15 MPH, should be placed on the left side and on the

right side of the IPO lane, with arrows pointing diagonally downward in toward the lane. A stop sign with the message STOP AT TOLLBOOTH should be placed on the median of each manual collection lane. A STOP sign with a sign plate stating ALL VEHICLES shall be located after the cheater gate and mounted to electric eye stanchion.

Plaza Signs: The plaza should be identified with the message PLAZA XX on a sign mounted above the canopy fascia at the center of the canopy. The *I-Pass* pictograph as shown should be mounted on the canopy fascia and centered over the left lane. Identical signing shall be provided for additional IPO lanes. A sign displaying CASH and the cash pictograph shall be mounted on the canopy, one for each lane, and centered on each lane with a tollbooth. Lane-use control signs shall be installed below the lane designation signs, centered over each lane, capable of displaying a downward green arrow indicating an open lane and a red X indicating a closed lane. WIDE and LOAD signs shall be located on both sides of a wide load lane.

Regulatory Signs: Regulatory signs governing access and parking on the toll plaza site should be placed according to site layout and traffic movement.

Warning Sign: A merge sign should be placed on the right hand side of the mainline in advance of the plaza merge area.

Directional Guide Signs: A set of two overhead signs should be placed near the exit takeoff point /merge lane takeoff point and centered over the roadway. The left hand sign is an optional Pull-Through sign which may be used depending on site conditions. The right hand sign shall be an Exit Direction sign with the exit number,

Exit Gore Sign: A post-mounted sign with exit number and arrow pointing diagonally upward in the direction of the exit lane shall be provided.

Plaza Sign: An UNPAID TOLL sign shall be placed downstream of IPO lanes at the discretion of the Tollway. If space permits, placement should be on both sides of the mainline. Another UNPAID TOLL sign may be placed on the exit ramp. Placement of this sign is site specific and varies.

3.2.12 - Entry Ramp Plaza (Illustrations SP-IT12A-F)

The toll plaza signing should provide safe, efficient movement of traffic through the toll area, minimize the time spent in the toll areas, and provide uniform signing of toll plazas throughout the Tollway system. An unattended plaza is typical for the Tollway and includes both a non-stop IPO lane(s) and an exact change lane. Typically, IPO lanes are on the left, but frequently the IPO lanes are both left and right of the center coin lane. Advance signing is required to prepare the motorist to select an appropriate lane and prepare to pay a toll immediately. The progression of signs on an entrance ramp should be the same regardless of ramp length. Wherever possible, a minimum of 200' between signs should be maintained. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Trailblazer Signs: Trailblazer signs should be placed on all connecting routes, approximately ½ mile and ¼ mile from the entrance ramp.

Directional Guide Sign: Entrance Direction Guide signs should be placed on the right shoulder of the crossroad at the intersection with the entrance ramp. This sign indicates that a toll is approaching and the methods of payment that can be used.

Regulatory Signs: The first sign on the ramp, restricting usage of the Tollway to motor vehicles only, shall be post-mounted on the right shoulder.

Pay Toll Ahead Sign: The second sign on the ramp, directing road users into the IPO or coin lane, should be post-mounted on the right shoulder. Sign layout should be such that lane assignments are clearly understood and readily identifiable. If the plaza is single lane only, the sign shall read ALL VEHICLES MUST STOP.

Regulatory Signs: Two signs, each with the message 15 MPH, should be placed on the left side and on the right side of each IPO lane, with arrows pointing diagonally downward in toward the lane. STOP signs shall be placed on the right side of coin lanes, with sign plates stating ALL VEHICLES.

Plaza Signs: The plaza should be identified with the message PLAZA XX on a sign mounted above the canopy fascia at the center of the canopy. The *I-Pass* pictograph shall be mounted on the canopy fascia and centered over the applicable lane(s). The cash pictograph shall be mounted on the canopy, one for each coin lane, and centered on each coin lane. Lane-use control signs shall be installed below the lane designation signs, centered over each lane, capable of displaying a downward green arrow indicating an open lane and a red X indicating a closed lane.

Plaza Sign: An UNPAID TOLL Sign shall be placed downstream of IPO lanes at the discretion of the Tollway. If space permits, placement should be on both sides of the mainline.

Warning Sign: A merge sign should be placed on the entrance gore in advance of the point where traffic merges from an entrance ramp and where it does not obstruct the driver's view of vehicles on the entering roadway.

3.2.13 - Exit Ramp Plaza (Illustrations SP-IT13A-C)

The toll plaza signing should provide safe, efficient movement of traffic through the toll area, minimize the time spent in the toll areas, and provide uniform signing of toll plazas throughout the Tollway system. An unattended plaza is typical for the Tollway and includes both a non-stop IPO lane(s) and an exact change lane. Typically, the IPO lanes are on the left, but frequently the IPO lanes are both left and right of the center coin lane. Advance signing is required to prepare the motorist to select an appropriate lane and prepare to pay toll. The progression of signs on an exit ramp should be the same regardless of ramp length. Wherever possible, a minimum of 200' between signs should be maintained. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Pay Toll This Exit Sign: An advance sign, indicating that a toll is approaching, should be cantilevered or placed on the right shoulder of the roadway, 500'-800' from the exit gore. This sign shall indicate the methods

of payment and that there will be “No Attendant” available at the plaza.

Guide Signs: A set of overhead signs (3 maximum) should be placed near the theoretical gore directing road users to the exit or to proceed on the main roadway to next exits.

Exit Gore Sign: An EXIT sign with a diagonal arrow and exit number shall be placed in each of the exit gore areas.

Warning Sign: An EXIT sign with advisory speed should be placed on the right shoulder of the roadway, at or near the physical exit gore.

Pay Toll Ahead Sign: The first sign on the ramp, directing road users into the IPO or coin lane, should be post-mounted on the right shoulder, and finished with high efficiency full cube retro reflective material approximately 200' (minimum) from the exit gore sign. Sign layout should be such that lane assignments are clearly understood and readily identifiable. If plaza is single lane only, the sign shall read ALL VEHICLES MUST STOP.

Regulatory Sign: At the plaza, lane-use control signs shall be installed below the lane designation signs, centered over each lane, capable of displaying a downward green arrow indicating an open lane and a red X indicating a closed lane.

Regulatory Signs: Two signs, each with the message 15 MPH, should be placed on the left side and on the right side of each IPO lane, with arrows pointing diagonally downward in toward the lane. STOP signs shall be placed on the right side of coin lanes, with sign plates stating ALL VEHICLES.

Plaza Signs: The plaza should be identified with the message PLAZA XX on a sign mounted above the canopy fascia at the center of the canopy. The *I-Pass* pictograph shall be mounted on the canopy fascia and centered over the applicable lane(s). The cash pictograph shall be mounted on the canopy, one for each coin lane, and centered on each coin lane.

Guide Signs: Route/Street and Destination Guide signs should be placed on the ramp at the intersection with the crossroad.

Plaza Sign: An UNPAID TOLL Sign shall be placed downstream of IPO lanes at the discretion of the Tollway. If space permits, placement should be on both sides of the mainline. Placement of this sign is site specific and varies.

Regulatory Signs: DO NOT ENTER, WRONG WAY, and 1-WAY signs shall be added at the exit ramp intersection in conformance with *MUTCD* Section 2B.41. NO LEFT TURN and NO RIGHT TURN signs may also be appropriate on the crossroad to discourage wrong way turns.

3.2.14 - Composite Electronic Toll Collection Only Sign Placement Diagram (Illustration SP-IT14)

The Composite Electronic Toll Collection (ETC) Only Sign Placement illustration is intended to serve as a guide to designers and provide uniformity throughout the Illinois Tollway System. The Composite ETC Only Sign Placement diagram uses the I-88 Reagan Memorial Tollway and Eola Road interchange as a

demonstration of an ETC Only condition seen along the Tollway mainline.

3.2.15 – Diverging Diamond Interchange (Illustration SP-IT15A-B)

Advance signing for Diverging Diamond Interchanges (DDI) should direct mainline motorists to the exit and interchange for a crossroad. Regulatory signs along the mainline and at the beginning and end of ramps shall be staggered based on required distances shown in this manual. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first advance interchange sign is typically 2 miles from the theoretical gore of the interchange, bearing the upcoming exit number, route number, and cross street name. The second and third signs should be at 1 mile and ½ mile from the theoretical gore.

Second Exit Direction and Advance Guide Signs: Above the mainline lanes, separate guide signs for the next two interchanges should be mounted bearing the exit number, route number (if applicable), cross street name, and distance to the respective interchange.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in each of the exit gore areas.

Guide Sign: An additional guide sign on the exit ramp with the crossroad name and directions shall be placed between 50' to 100' before the intersection.

Directional Regulatory Signs: Due to the possibility of wrong-way movements by unfamiliar drivers, 1-WAY, DO NOT ENTER and WRONG WAY signs are needed as per geometry and sight lines, along with KEEP LEFT and KEEP RIGHT symbolic signs.

Regulatory Sign: A MOTOR VEHICLES ONLY sign should be installed on the right shoulder of all entrance ramps at the beginning of the ramp.

Warning Sign: A MERGE sign shall be placed at a location along the major roadway in advance of the point where traffic merges from an entrance ramp and where it does not obstruct the driver's view of vehicles on the entering roadway.

Regulatory Signs and Route Signs: A series of signs should be placed along the mainline roadway following the occurrence of an interchange entrance ramp. A confirmation route sign shown at 1000' past the gore should be placed at the end of an acceleration lane where the 10" edge line meets the 4" edge line. The signs should be spaced at intervals of 1000' when possible.

Regulatory Sign: A SPEED LIMIT sign should be placed 1500' from the theoretical gore. In areas of the six-county metropolitan area where 65 mph is permitted, a supplemental speed limit sign for slower speed vehicles should be placed 500' from the SPEED LIMIT sign.

Regulatory Sign: A TRUCKS USE 2 RIGHT LANES sign shall be placed 2500' from the theoretical gore.

Regulatory Sign: An EMERGENCY STOPPING ONLY - 2 HOUR LIMIT sign should be placed 3000' from the theoretical gore.

3.2.16 – Single Point Urban Interchange (Illustration SP-IT16)

Advance signing for Single Point Urban Interchanges (SPUI) should direct mainline motorists to the exit and interchange for a crossroad. Regulatory signs along the mainline and at the beginning and end of ramps shall be staggered based on required distances shown in this manual. The following paragraphs detail the typical sequence of signs encountered while driving through this roadway configuration.

Advance Guide Signs: The first advance interchange sign is typically 2 miles from the theoretical gore of the interchange, bearing the upcoming exit number, route number, and cross street name. The second and third signs should be at 1 mile and ½ mile from the theoretical gore.

Second Exit Direction and Advance Guide Signs: Above the mainline lanes, separate guide signs for the next two interchanges should be mounted bearing the exit number, route number (if applicable), cross street name, and distance to the respective interchange.

Exit Gore Sign: An EXIT sign with a diagonally upward-pointing arrow and exit number shall be placed in each of the exit gore areas.

Guide Sign: An additional guide sign on the exit ramp with the crossroad name and directions shall be placed between 50' to 100' before the intersection.

Directional Regulatory Signs: Due to the possibility of wrong-way movements by unfamiliar drivers, 1-WAY, DO NOT ENTER and WRONG WAY signs are needed as per geometry and sight lines, along with KEEP RIGHT symbolic sign.

Regulatory Sign: A MOTOR VEHICLES ONLY sign should be installed on the right shoulder of all entrance ramps at the beginning of the ramp.

Warning Sign: A MERGE sign shall be placed at a location along the major roadway in advance of the point where traffic merges from an entrance ramp and where it does not obstruct the driver's view of vehicles on the entering roadway.

Regulatory Signs and Route Signs: A series of signs should be placed along the mainline roadway following the occurrence of an interchange entrance ramp. A confirmation route sign shown at 1000' past the gore should be placed at the end of an acceleration lane where the 10" edge line meets the 4" edge line. The signs should be spaced at intervals of 1000' when possible.

Regulatory Sign: A SPEED LIMIT sign should be placed 1500' from the theoretical gore. In areas of the six-county metropolitan area where 65 mph is permitted, a supplemental speed limit sign for slower speed vehicles should be placed 500' from the SPEED LIMIT sign.

Regulatory Sign: A TRUCKS USE 2 RIGHT LANES sign shall be placed 2500' from the theoretical gore.

Regulatory Sign: An EMERGENCY STOPPING ONLY - 2 HOUR LIMIT sign should be placed 3000' from the theoretical gore.

3.2.17 – Weigh-In-Motion Enforcement Area (Illustration SP-IT17)

The Weigh-In-Motion (WIM) signing should alert and direct truck drivers to a truck enforcement site adjacent to the mainline. Location of these sites will be as directed and approved by the Tollway.

WIM Truck Enforcement Area Sign: The WIM Truck Enforcement Area sign should be shoulder-mounted and placed at a distance of 500 feet in advance of the Weigh-In-Motion Truck Enforcement Area.

SIGN PLACEMENT (SP) ILLUSTRATION LIST

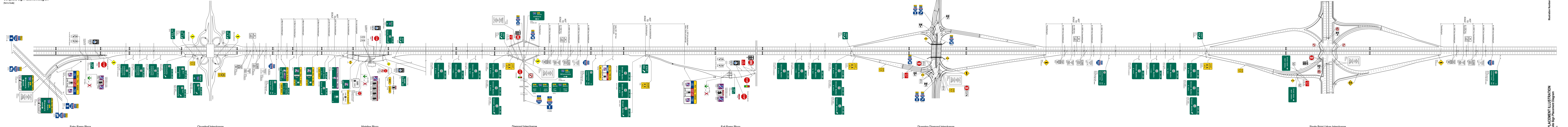
Number	Placement	Legend	Page
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SP-IT12A	Plaza	Entry Ramp Plaza - 1 Lane	3 - SP-IT12A
SP-IT12B	Plaza	Ramp Plaza Detail - 1 Lane	3 - SP-IT12B
SP-IT12C	Plaza	Entry Ramp Plaza - 2 Lanes	3 - SP-IT12C
SP-IT12D	Plaza	Ramp Plaza Detail - 2 Lanes	3 - SP-IT12D
SP-IT12E	Plaza	Entry Ramp Plaza - 3 Lanes	3 - SP-IT12E
SP-IT12F	Plaza	Ramp Plaza Detail - 3 Lanes	3 - SP-IT12F
SP-IT13A	Plaza	Exit Ramp Plaza - 1 Lane	3 - SP-IT13A
SP-IT13B	Plaza	Exit Ramp Plaza - 2 Lanes	3 - SP-IT13B
SP-IT13C	Plaza	Exit Ramp Plaza - 3 Lanes	3 - SP-IT13C
SP-IT14	Composite	Electronic Toll Collection (ETC) Only Sign Placement Diagram	3 - SP-IT14
ISP-IT15A	Mainline	Diverging Diamond Interchange	3 - SP-IT15A
SP-IT15B	Local	Diverging Diamond Interchange (Local Road Signage)	3 - SP-IT15B
SP-IT16	Mainline	Single Point Urban Interchange	3 - SP-IT16
SP-IT17	Mainline	Weigh-In-Motion Enforcement Area (WIMEA)	3 - SP-IT17

SIGN PLACEMENT ILLUSTRATION

Composite Sign Placement Diagram

[Not to Scale]

Illustration Number: SP-1T1



Entry Ramp Plaza

Cloverleaf Interchange

Mainline Plaza

Diamond Interchange

Exit Ramp Plaza

Diverging Diamond Interchange

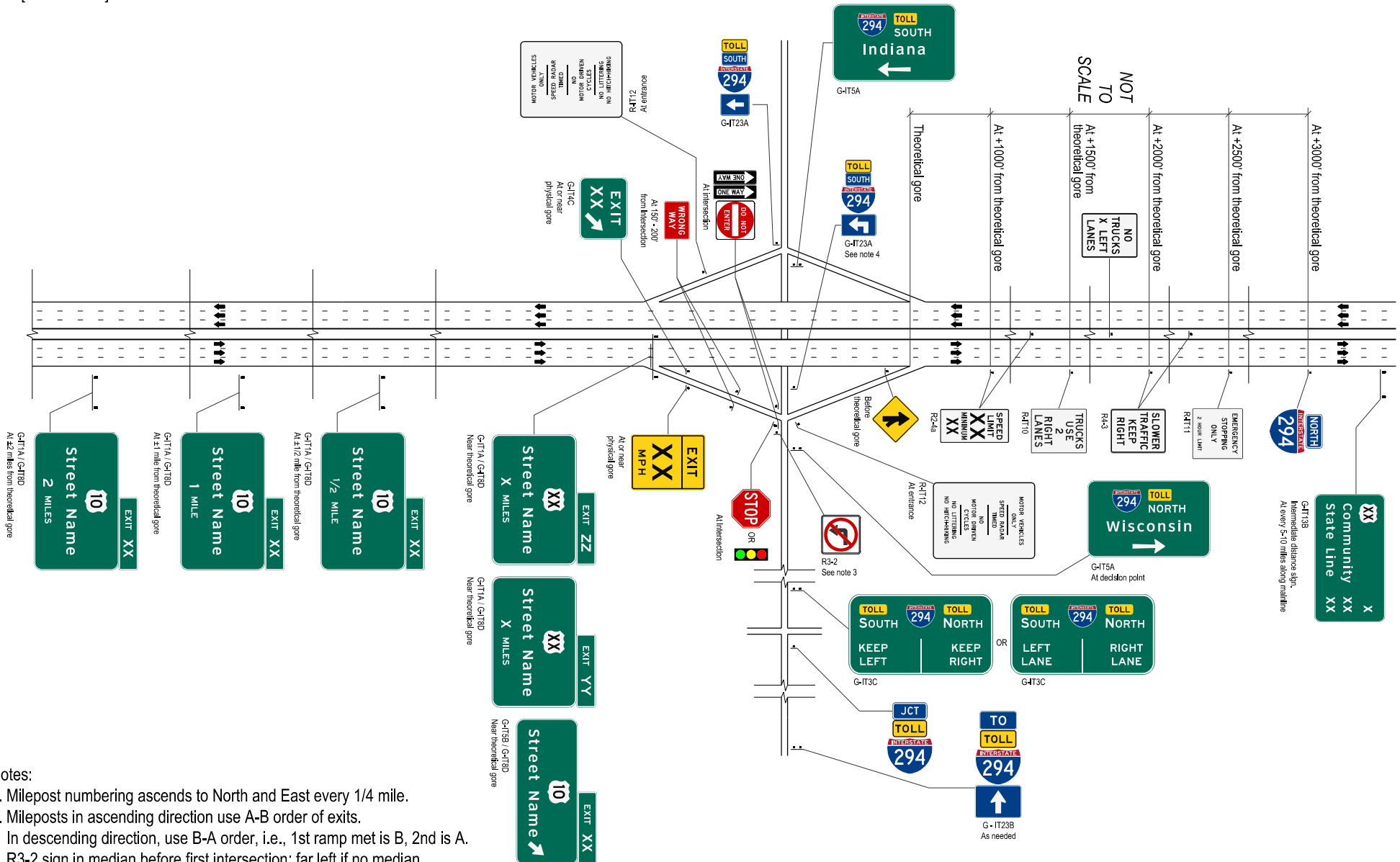
Single Point Urban Interchange

Signs shown here on one side only. Sign placement on opposite side of roadway is similar.

SIGN PLACEMENT ILLUSTRATION Diamond Interchange (Mainline and Ramps)

[Not to Scale]

Illustration Number: SP-IT2A



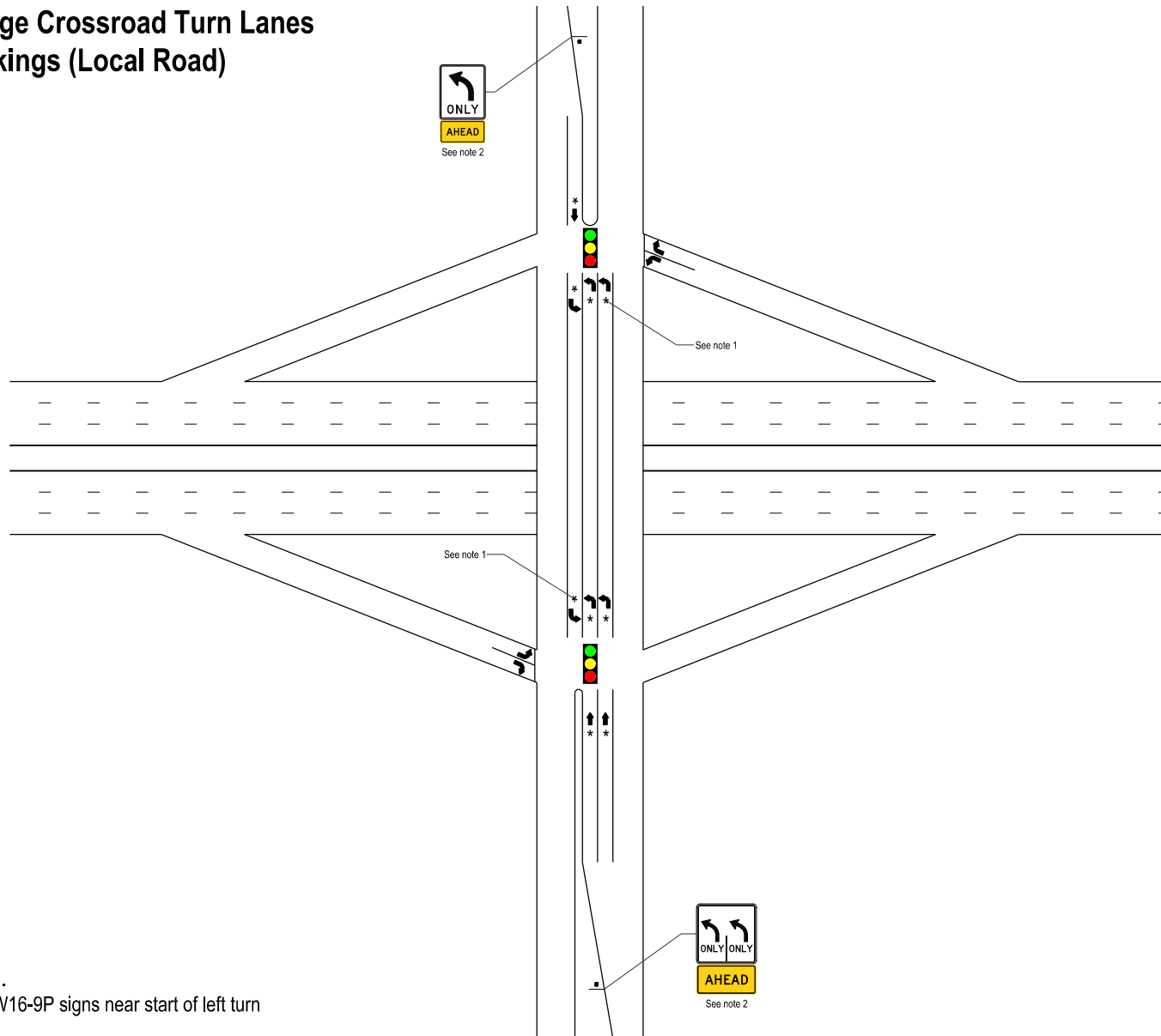
- Notes:
1. Milepost numbering ascends to North and East every 1/4 mile.
 2. Mileposts in ascending direction use A-B order of exits.
In descending direction, use B-A order, i.e., 1st ramp met is B, 2nd is A.
 3. R3-2 sign in median before first intersection; far left if no median.
 4. See SP-IT2B for additional Local road turn lane signing.



SIGN PLACEMENT ILLUSTRATION

Diamond Interchange Crossroad Turn Lanes and Pavement Markings (Local Road)

[Not to Scale]

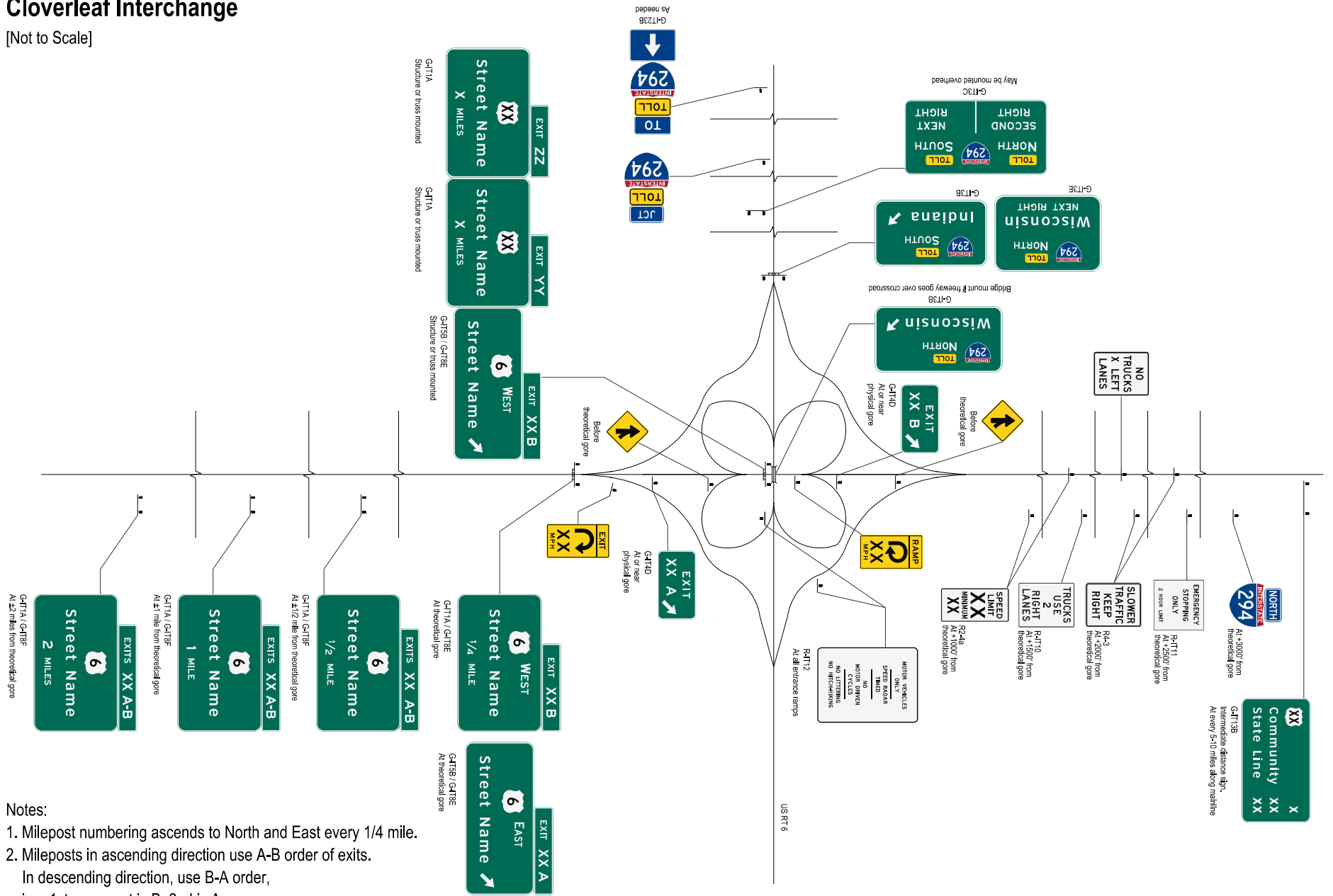


Notes:

- 1. * "ONLY" pavement marking.
- 2. R3-5 or R3-8 (special) and W16-9P signs near start of left turn lane(s) taper.
- 3. See SP-IT2A for additional mainline and ramp signing.

SIGN PLACEMENT ILLUSTRATION Cloverleaf Interchange

[Not to Scale]

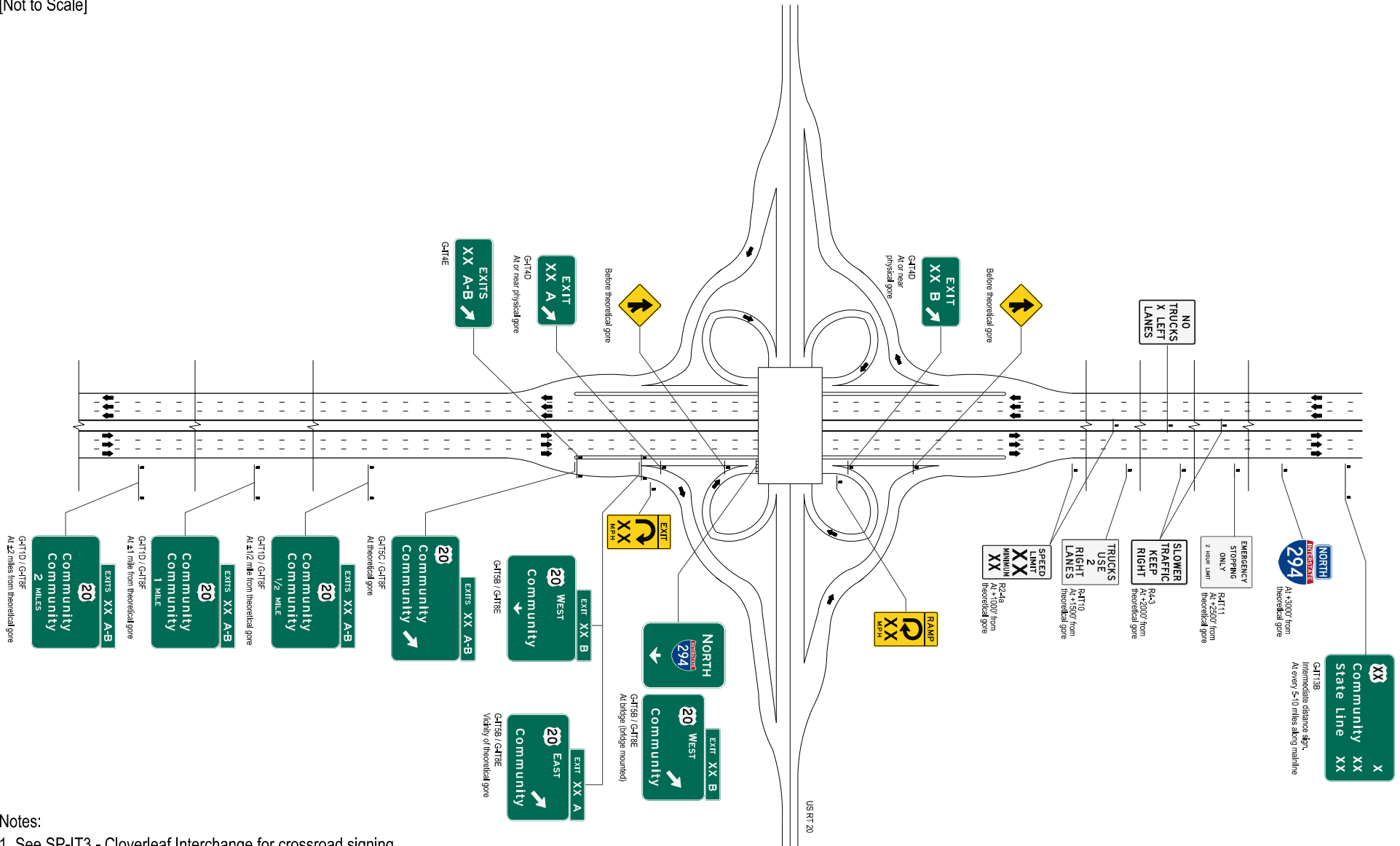


- Notes:
1. Milepost numbering ascends to North and East every 1/4 mile.
 2. Mileposts in ascending direction use A-B order of exits.
In descending direction, use B-A order,
i.e., 1st ramp met is B, 2nd is A.

SIGN PLACEMENT ILLUSTRATION

Cloverleaf Interchange with Full Collector/Distributor Roadways

[Not to Scale]



Notes:

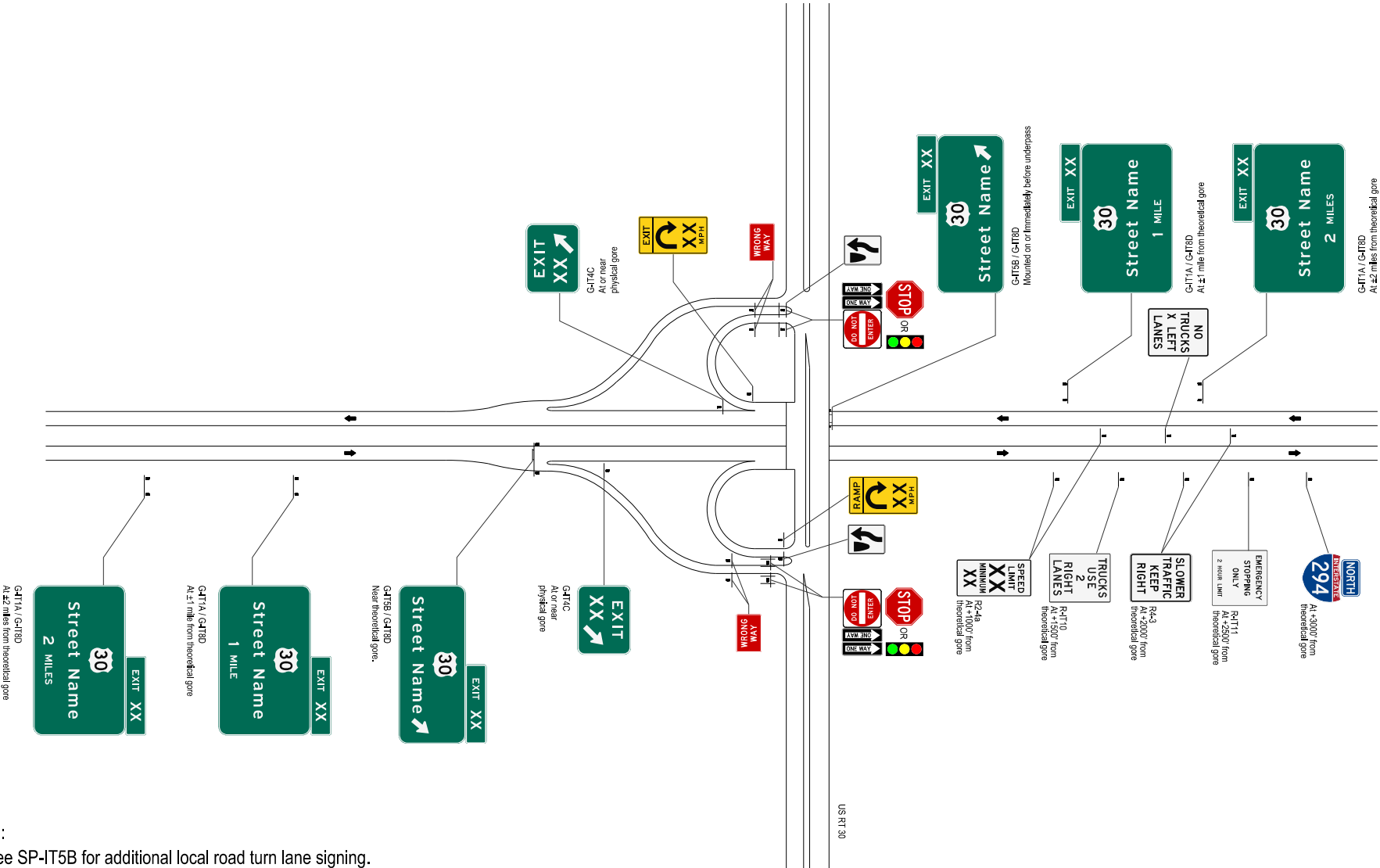
1. See SP-IT3 - Cloverleaf Interchange for crossroad signing.
2. Milepost numbering ascends to North and East every 1/4 mile.
3. Mileposts in ascending direction use A-B order of exits. In descending direction, use B-A order, i.e., 1st ramp met is B, 2nd is A.



SIGN PLACEMENT ILLUSTRATION

Partial Cloverleaf Interchange (Mainline and Ramps)

[Not to Scale]



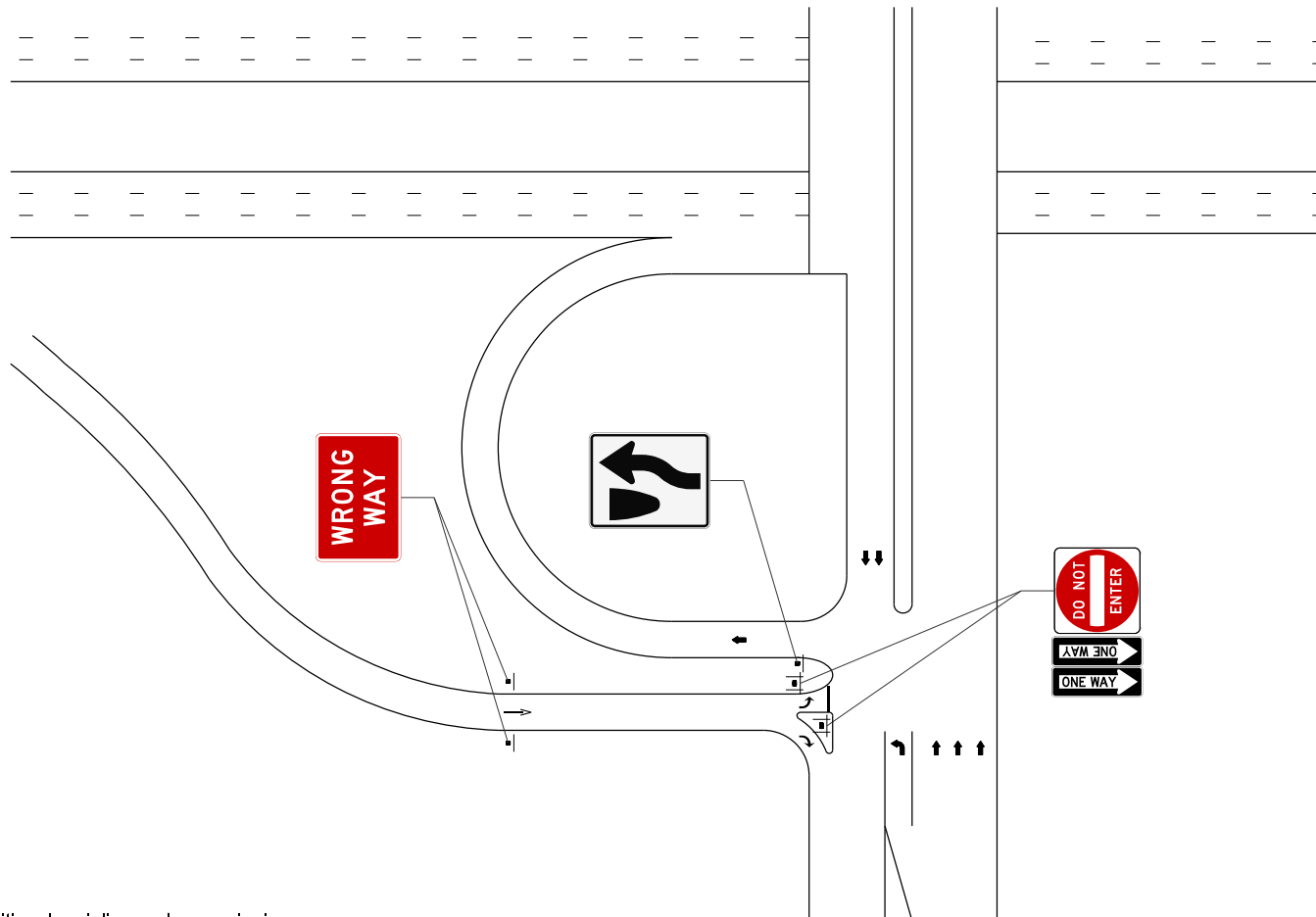
Note:
 1. See SP-IT5B for additional local road turn lane signing.

SIGN PLACEMENT ILLUSTRATION

Partial Cloverleaf Interchange Crossroad Turn Lanes and Ramp Pavement Markings (Local Roads)

Illustration Number: SP-IT5B

[Not to Scale]



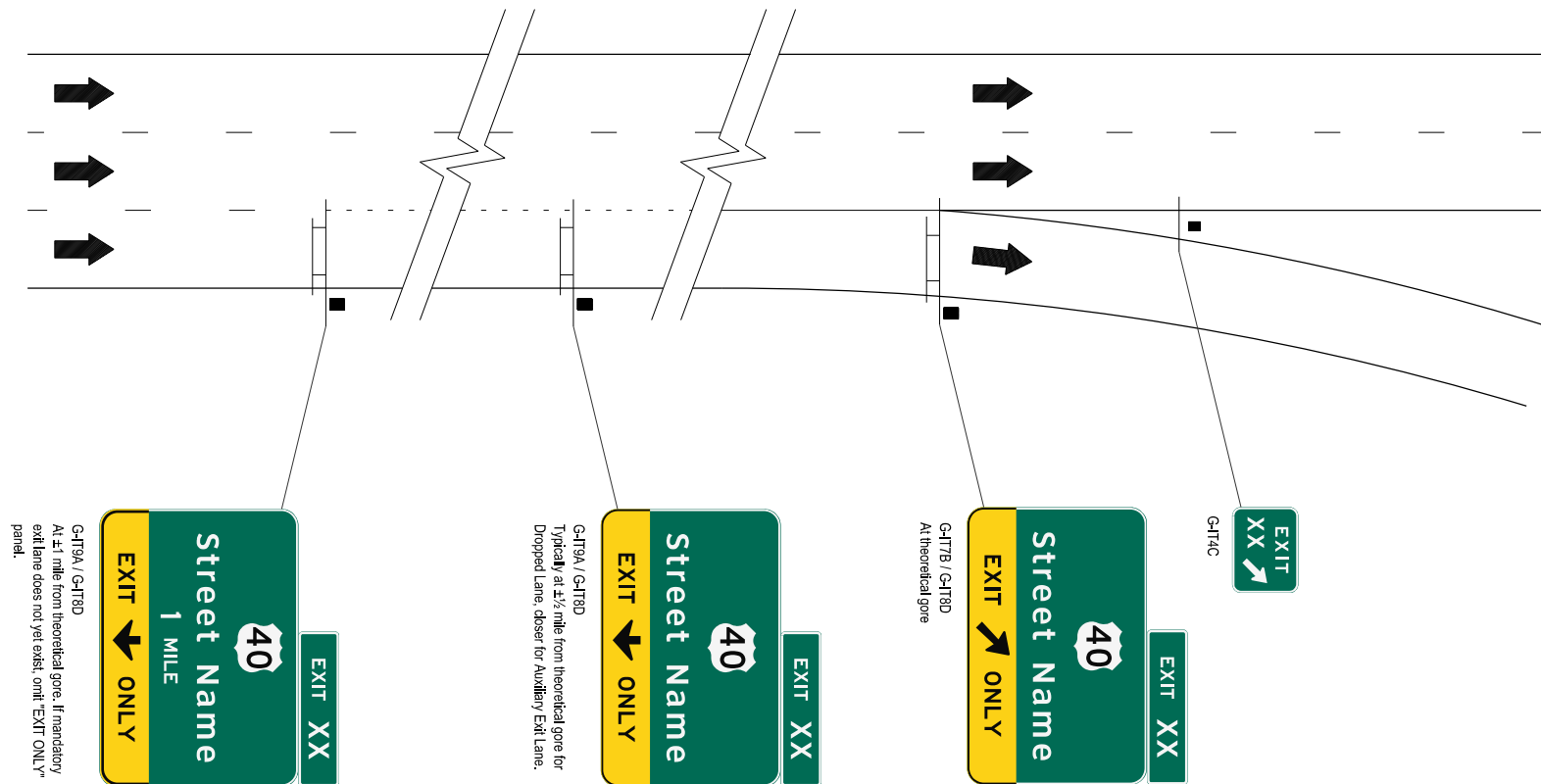
Notes:

1. See SP-IT5A for additional mainline and ramp signing.

SIGN PLACEMENT ILLUSTRATION

Mainline Exit with Single Dropped Lane or Auxiliary Exit Lane (See Note 1)

[Not to Scale]



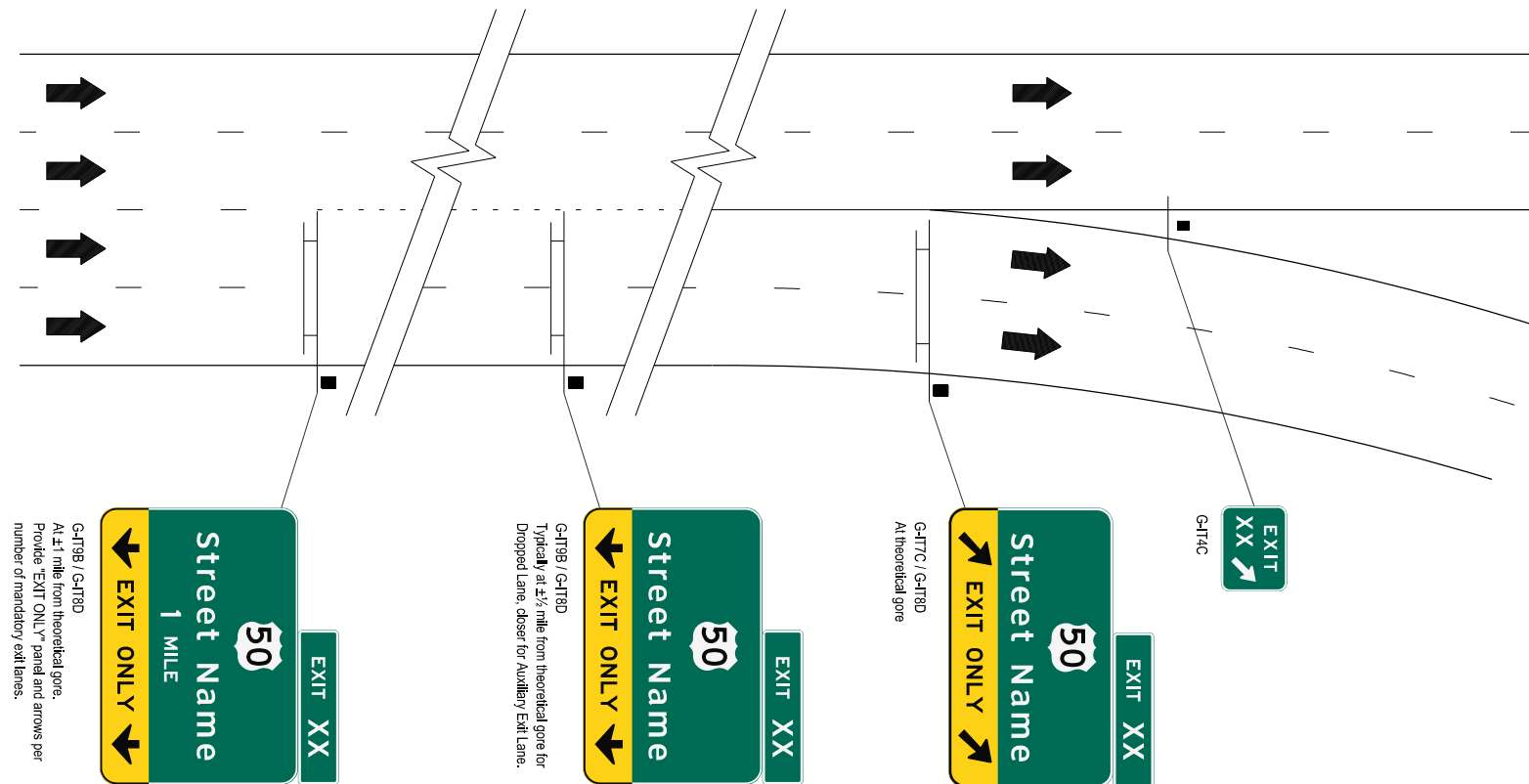
Notes:

1. See Section 3.2.6 for definitions of Dropped Lane and Auxiliary Exit Lane.
2. See Chapter 12 for required pavement markings.
3. For auxiliary exit lanes less than ~500', treat on site-specific basis.

SIGN PLACEMENT ILLUSTRATION

Mainline Exit with Multiple Dropped Lanes or Auxiliary Exit Lanes (See Note 1)

[Not to Scale]



Notes:

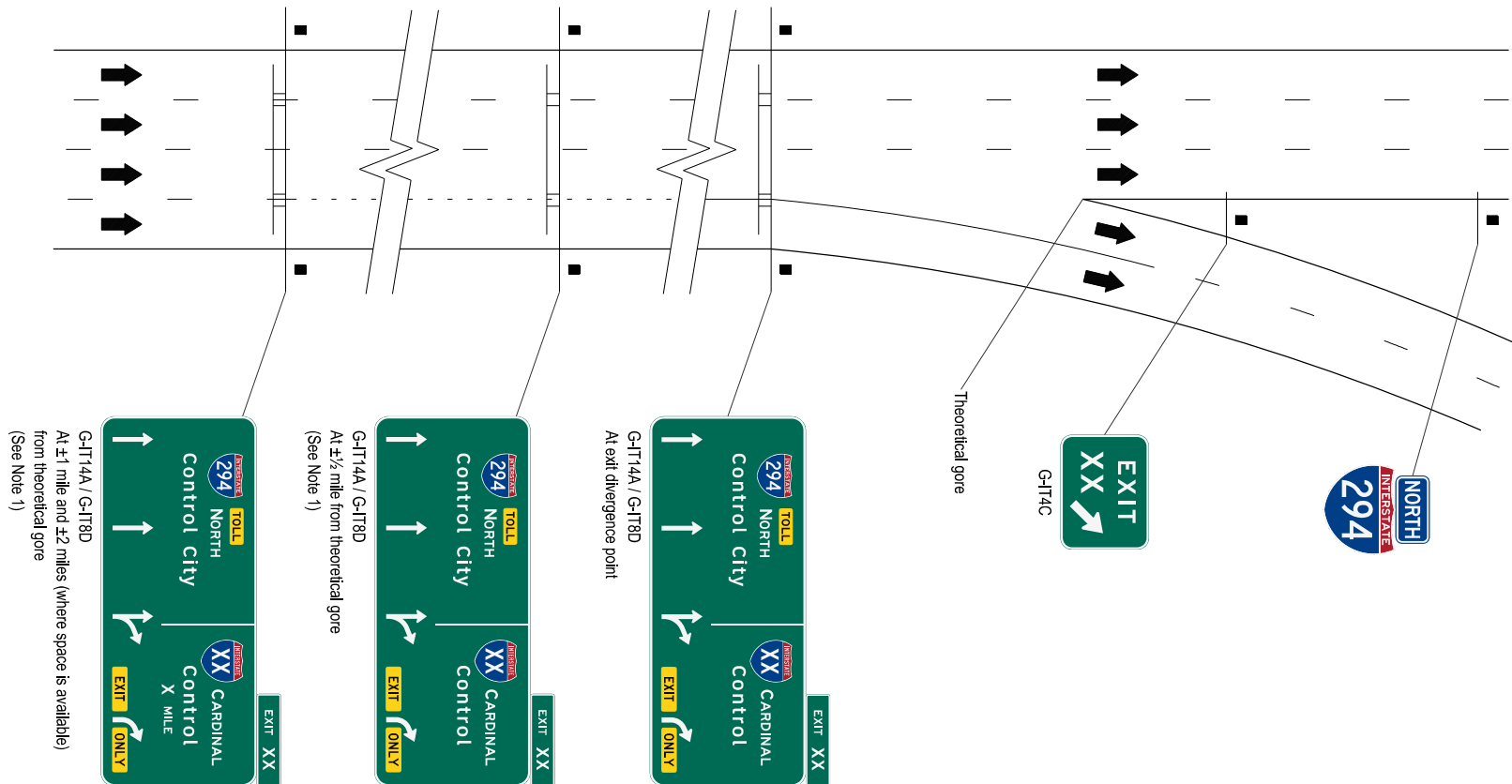
1. See Section 3.2.6 for definitions of Dropped Lane and Auxiliary Exit Lane.
2. See Chapter 12 for required pavement markings.
3. For auxiliary exit lanes less than ~500', treat on site-specific basis.

SIGN PLACEMENT ILLUSTRATION

Mainline Multi-Lane Exit with Option Lane for Major Interchange

Overhead Arrow per Lane (OAPL) Sign

[Not to Scale]



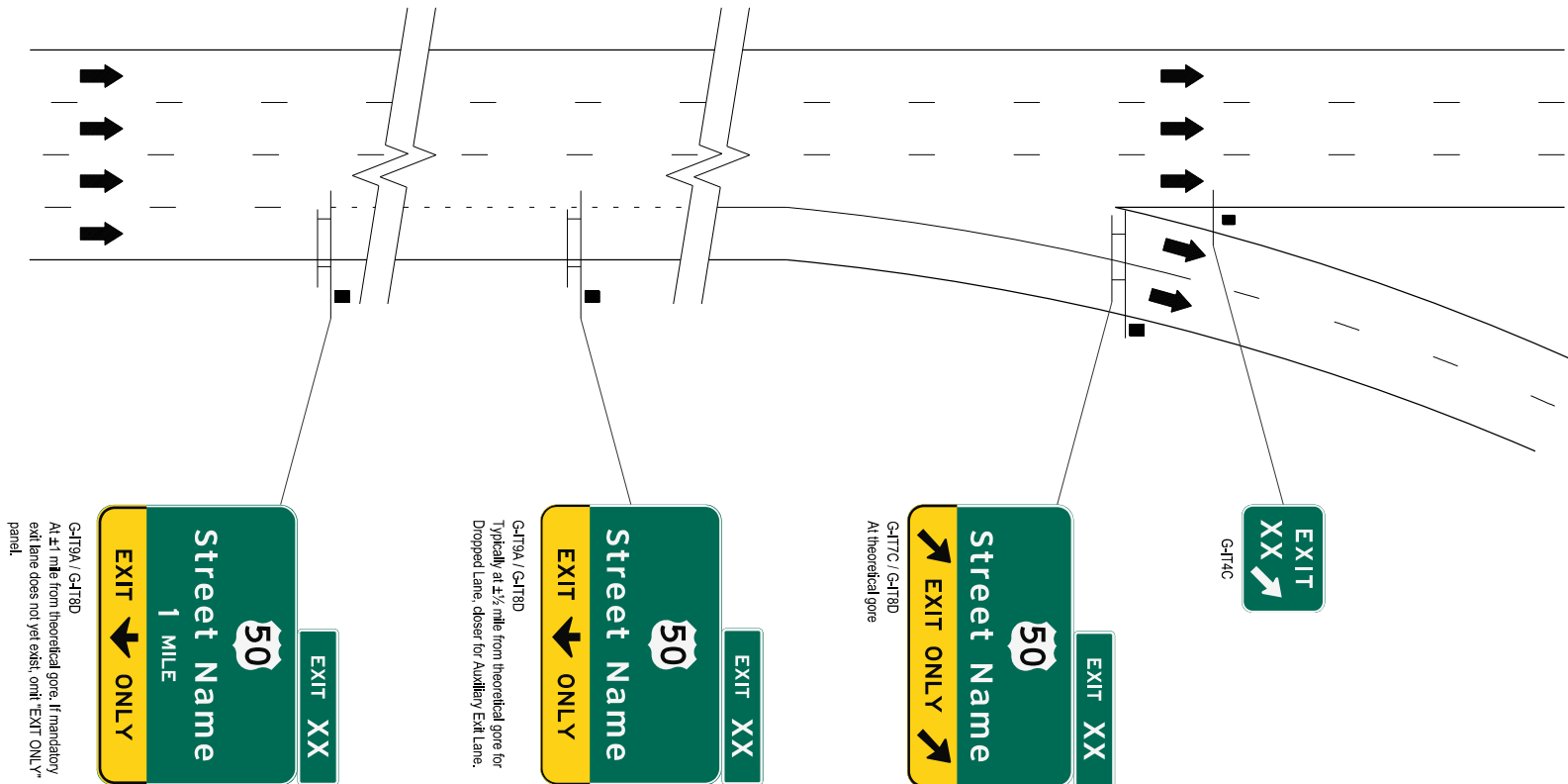
Notes:

1. Advance OAPL signs might not be used depending on length of mandatory exit lane.
2. See Chapter 12 for required pavement markings.

SIGN PLACEMENT ILLUSTRATION

Mainline Multi-Lane Exit with Option Lane for Intermediate Interchange Dropped Lane and Auxiliary Exit Lane (See Note 1)

[Not to Scale]



Notes:

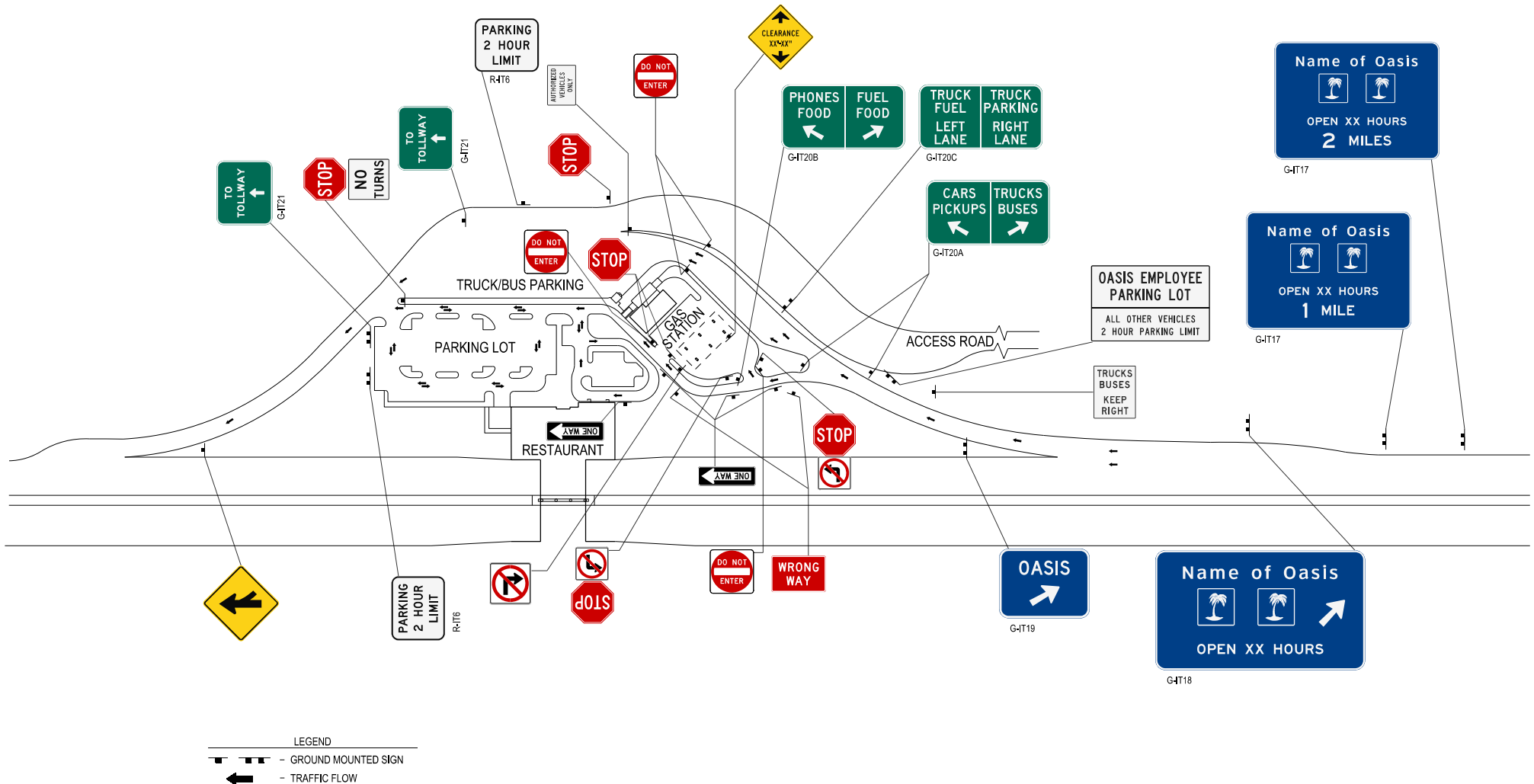
1. See Section 3.2.6 for definitions of Dropped Lane and Auxiliary Exit Lane.
2. See Chapter 12 for required pavement markings.
3. For auxiliary exit lanes less than ~500', treat on site-specific basis.

SIGN PLACEMENT ILLUSTRATION

Oasis

[Not to Scale]

Illustration Number: SP-IT8



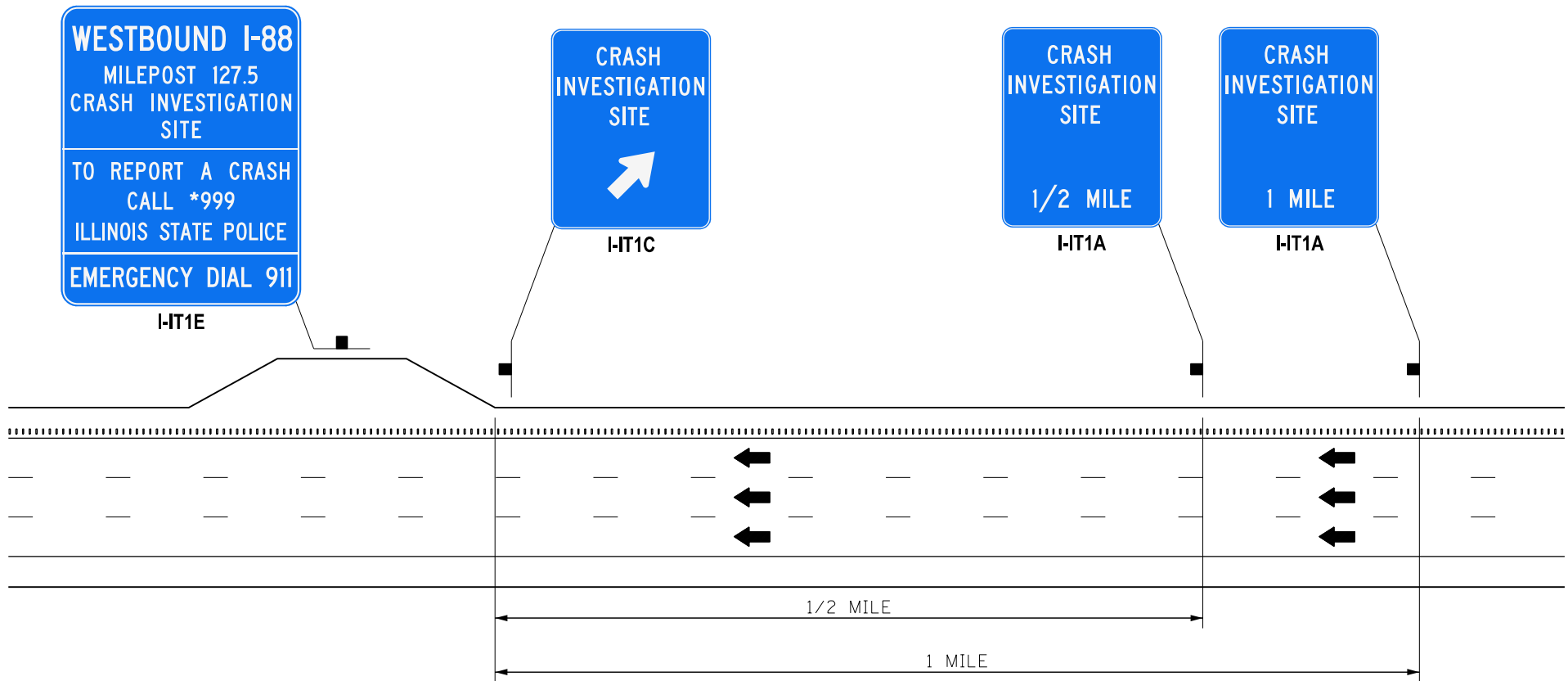
SIGN PLACEMENT ILLUSTRATION

Crash Investigation Site (CIS) - Mainline (Urban*)

[Not to Scale]

Illustration Number: SP-IT9A

* For Rural Locations, include a "2 MILES" sign.

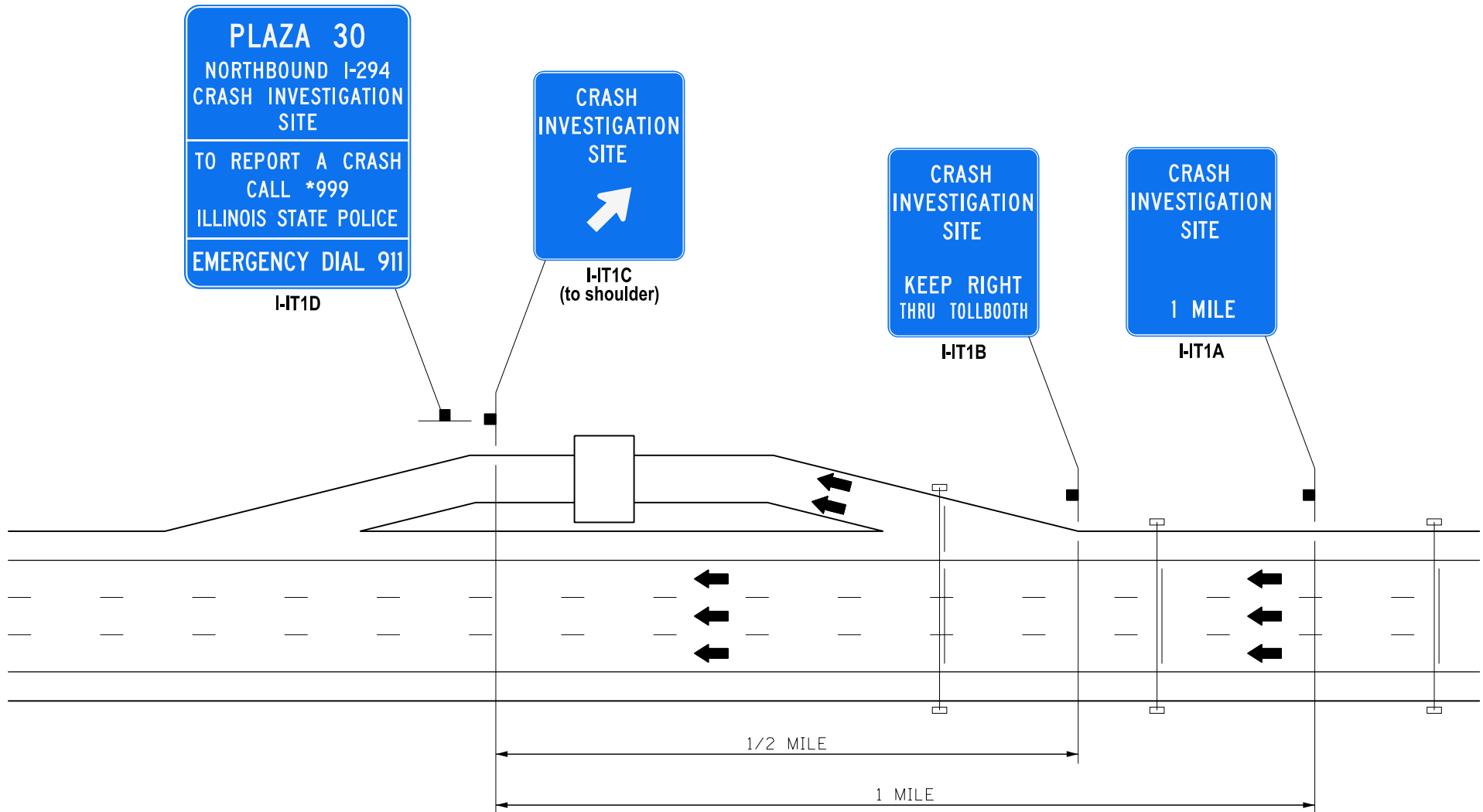


SIGN PLACEMENT ILLUSTRATION

Crash Investigation Site (CIS) - Toll Plaza

[Not to Scale]

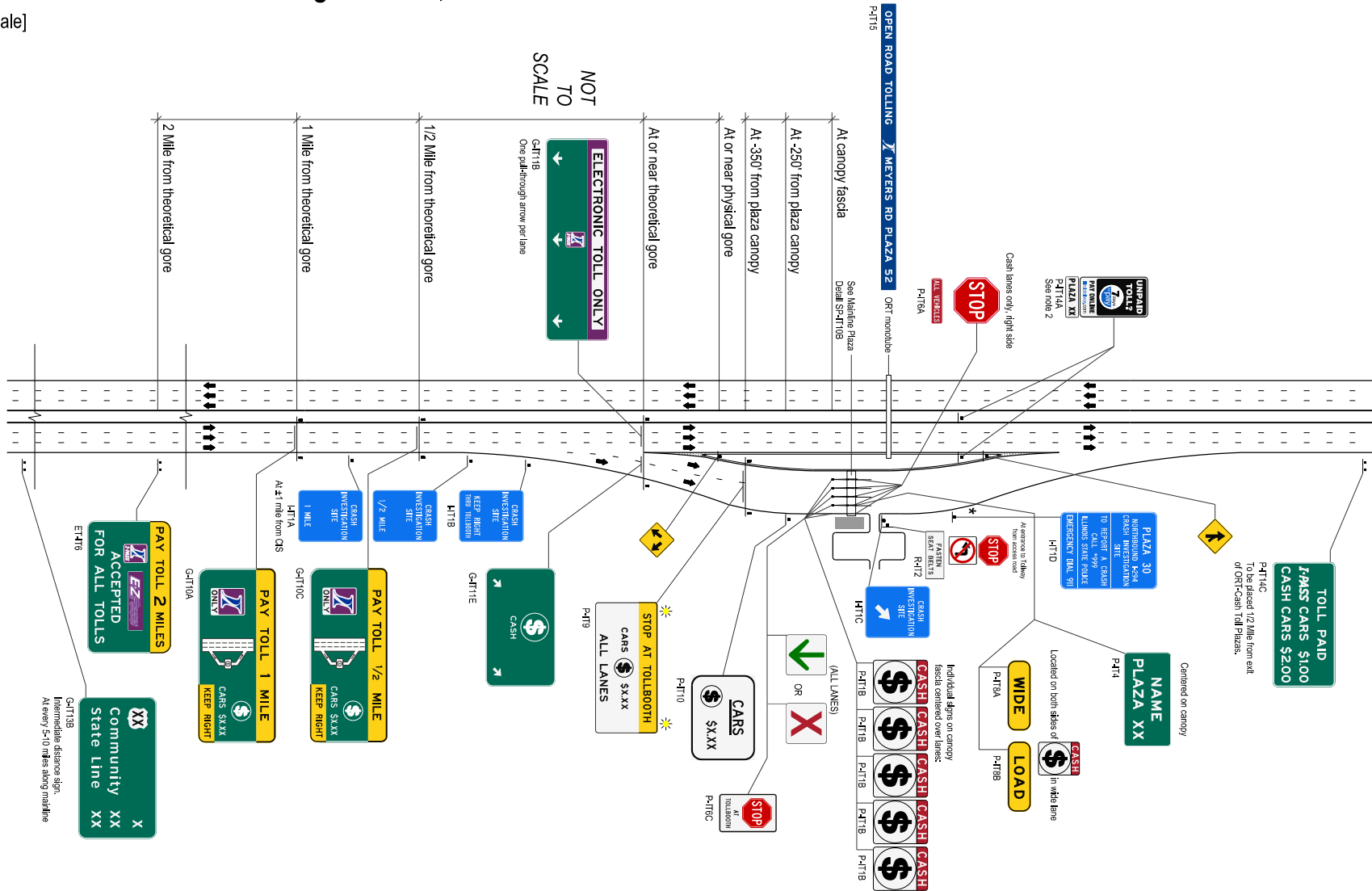
Illustration Number: SP-IT9B



SIGN PLACEMENT ILLUSTRATION

Mainline Plaza with Crash Investigation Site, No IPO Lanes

[Not to Scale]



Notes:

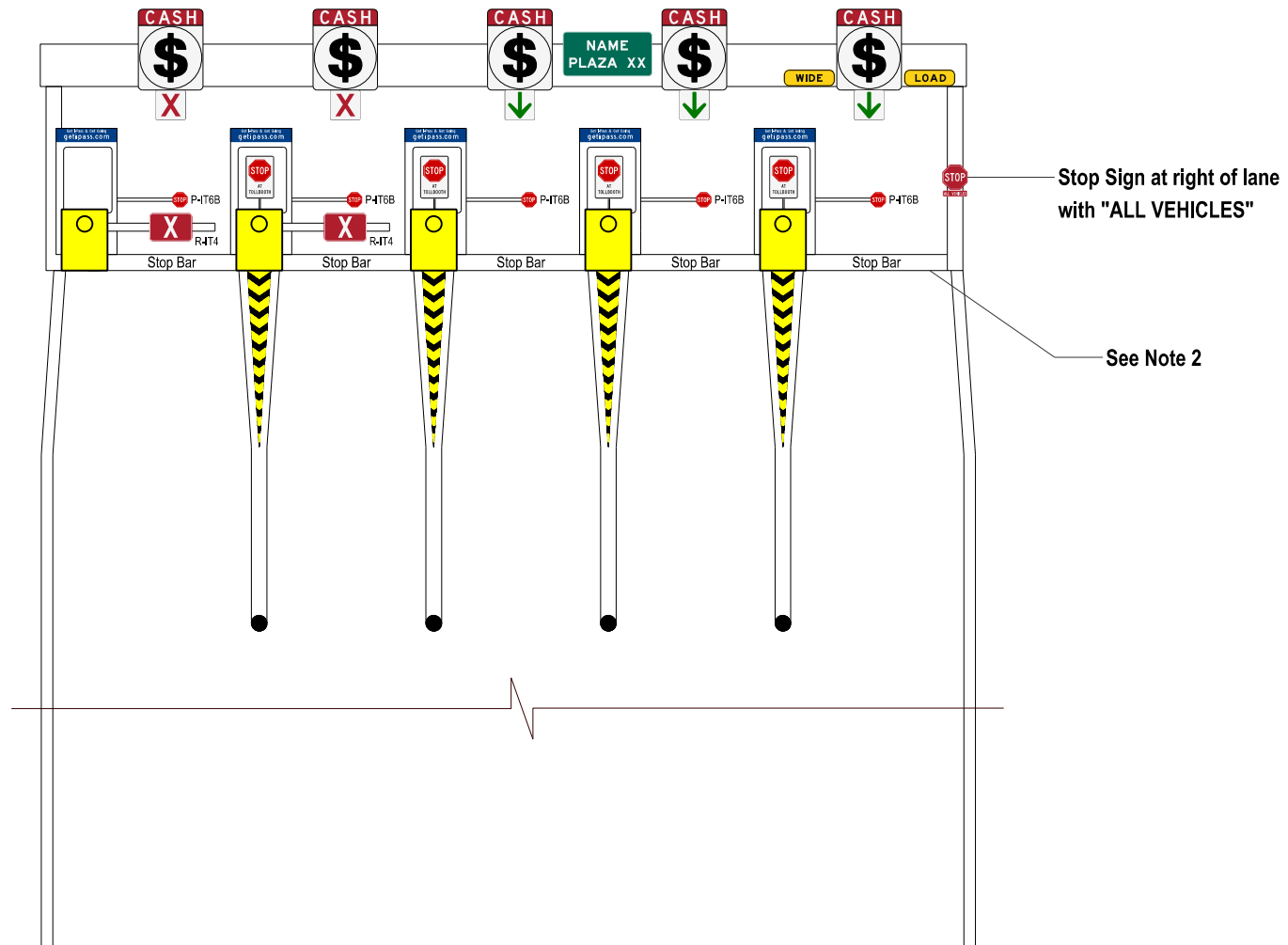
1. The * denotes the Crash Investigation Site area located on the shoulder
2. P-T14A ("UNPAID TOLL?") placement is site specific and varies. If space permits, placement should be on both sides of the mainline.

SIGN PLACEMENT ILLUSTRATION

Mainline Plaza Detail, No IPO Lanes

[Not to Scale]

Illustration Number: SP-IT10B



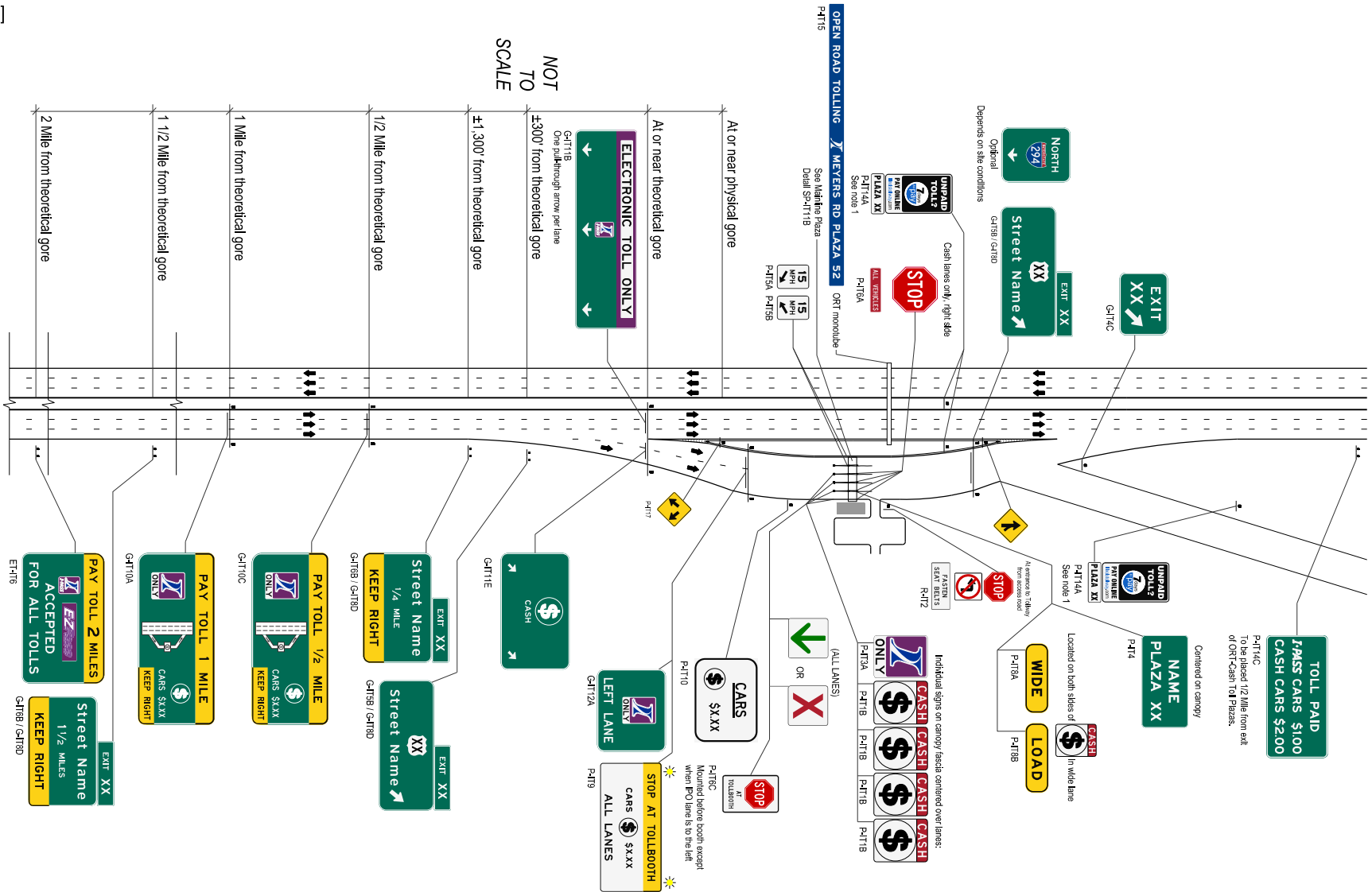
Notes:

1. All mainline plazas are attended
2. Refer to Pavement Marking Chapter for full detail of plaza pavement markings
3. All signs placed on the median of each manual collection lane will be placed without compromising the vision of the tollbooth collector from incoming vehicles.

SIGN PLACEMENT ILLUSTRATION

Mainline Plaza with Interchange Exit and IPO Lanes

[Not to Scale]



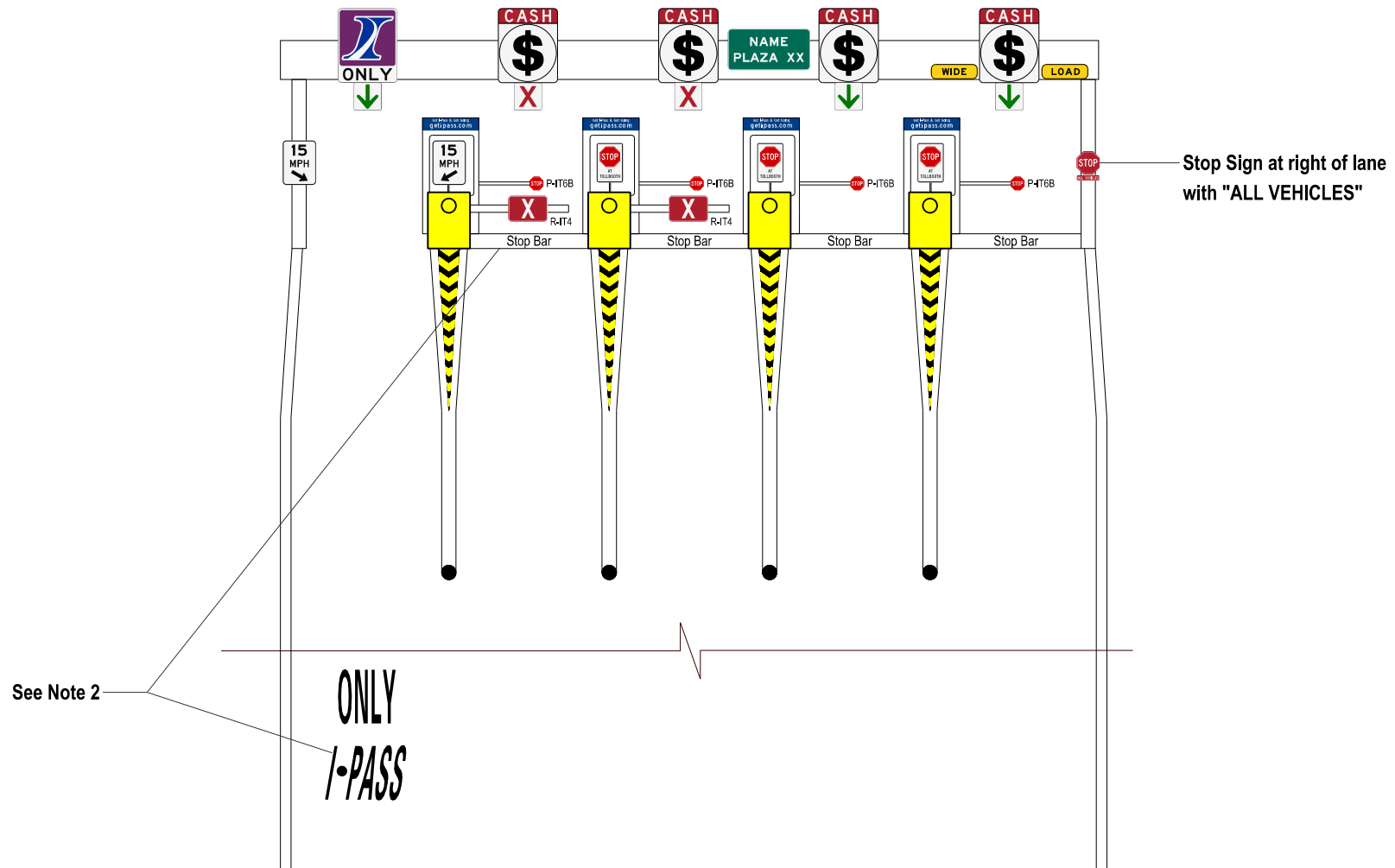
Note:
 1. P-IT14A ("UNPAID TOLL?") placement is site specific and varies. If space permits, placement should be on both sides of the mainline.

SIGN PLACEMENT ILLUSTRATION

Mainline Plaza Detail, IPO Lanes

[Not to Scale]

Illustration Number: SP-IT11B



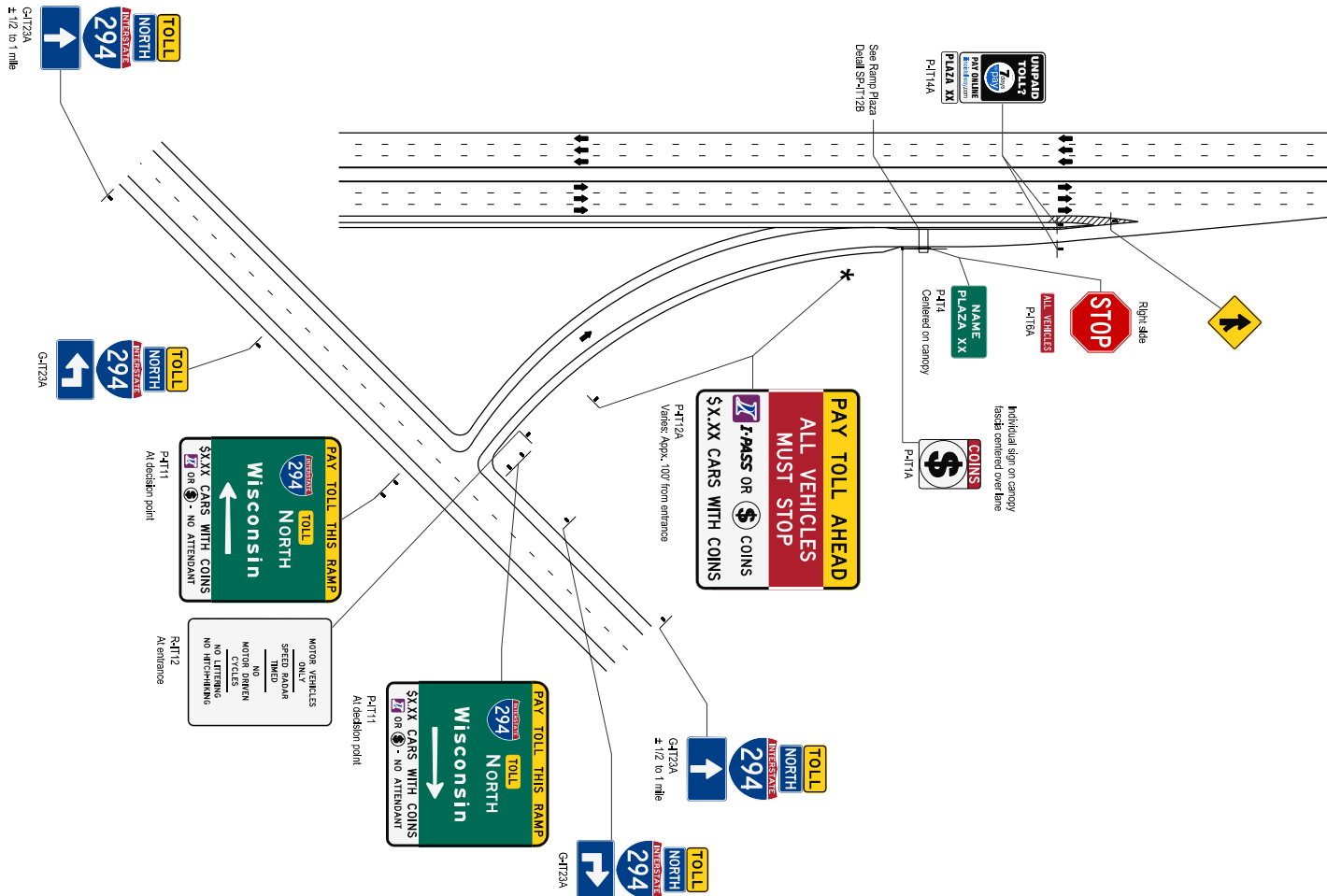
Notes:

1. All mainline plazas are attended
2. Refer to Pavement Marking Chapter for full detail of plaza pavement markings
3. All signs placed on the median of each manual collection lane will be placed without compromising the vision of the tollbooth collector from incoming vehicles.

SIGN PLACEMENT ILLUSTRATION

Entry Ramp Plaza - 1 Lane

[Not to Scale]



Notes:

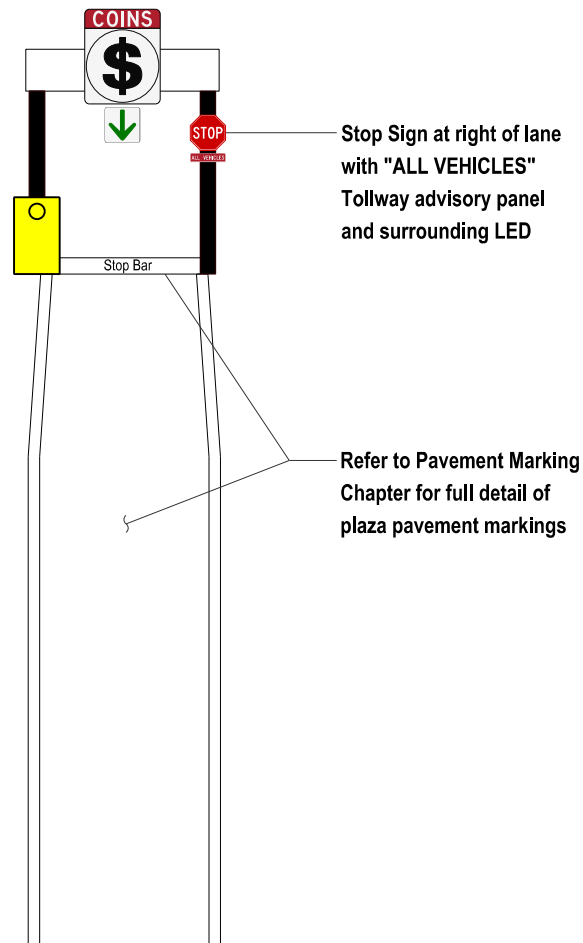
1. All entrance ramps are unattended.
2. The * denotes an additional P-IT12A sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Ramp Plaza Detail - 1 Lane

[Not to Scale]

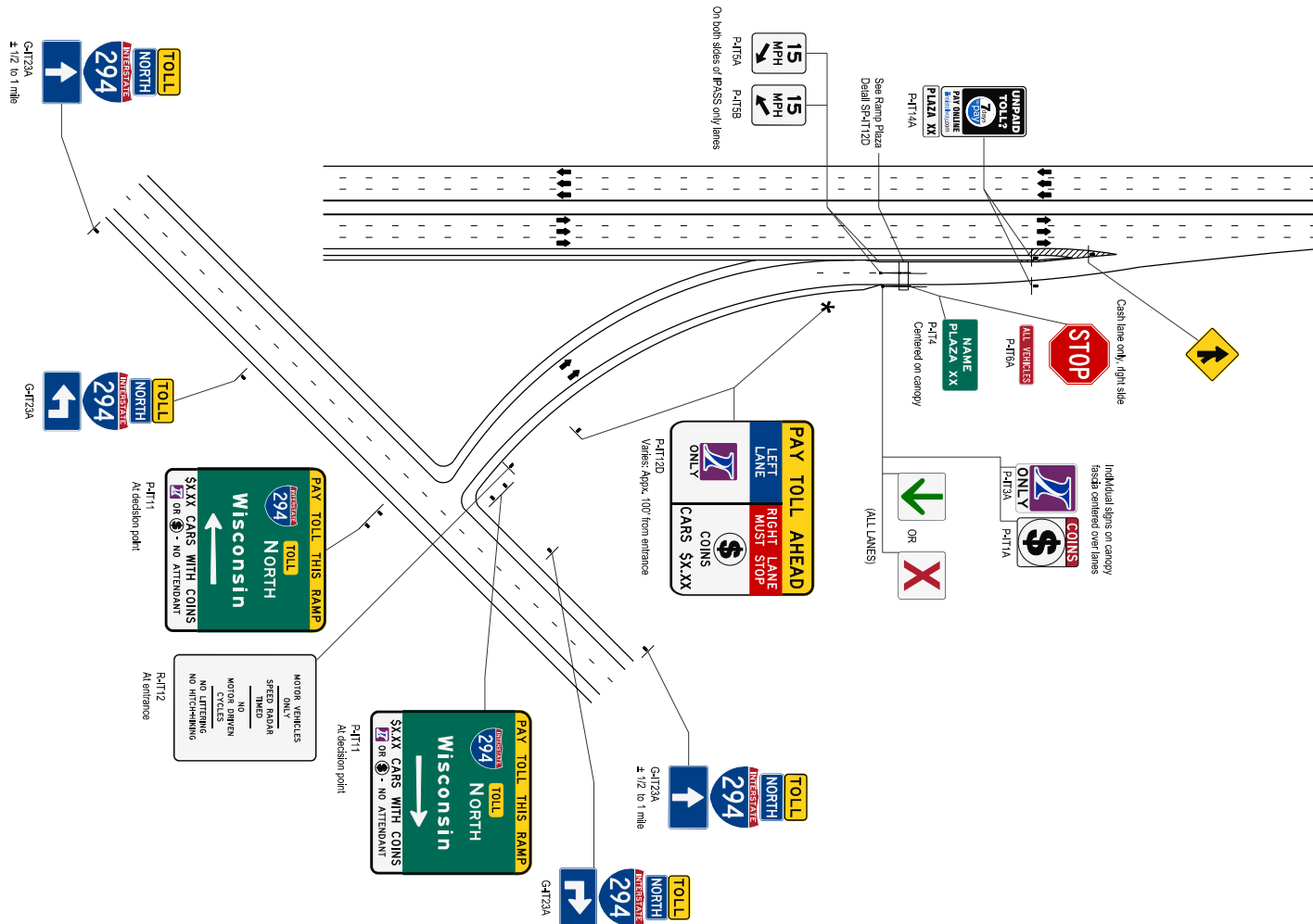
Illustration Number: SP-IT12B



SIGN PLACEMENT ILLUSTRATION

Entry Ramp Plaza - 2 Lanes

[Not to Scale]



Notes:

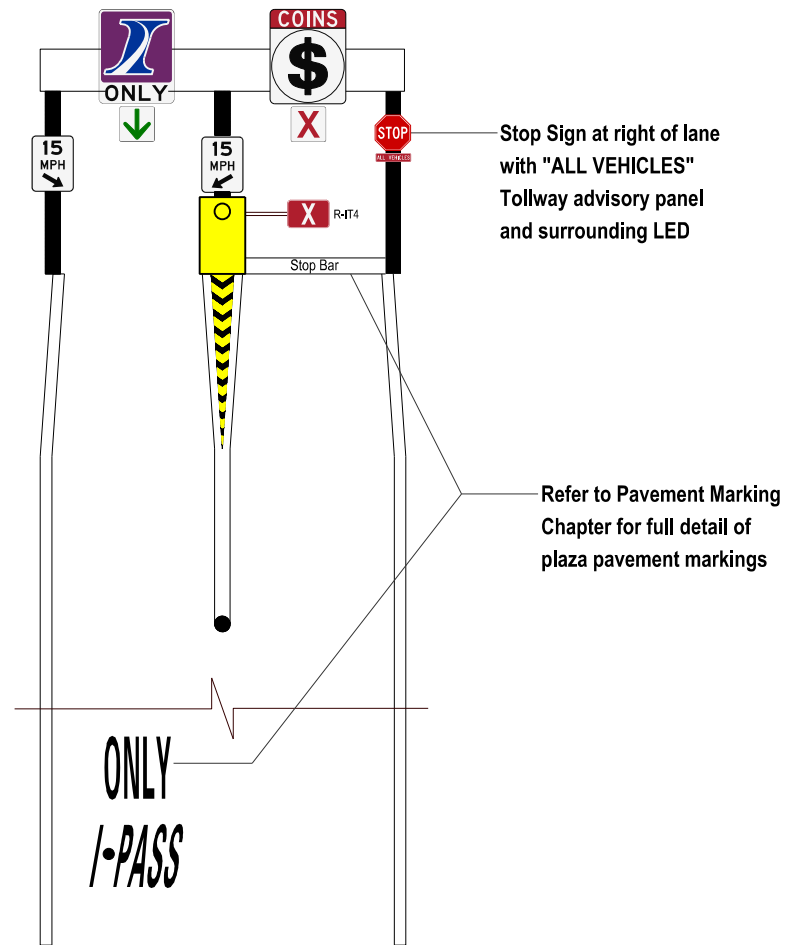
1. All entrance ramps are unattended.
2. The * denotes an additional P-IT12D sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Ramp Plaza Detail - 2 Lanes

[Not to Scale]

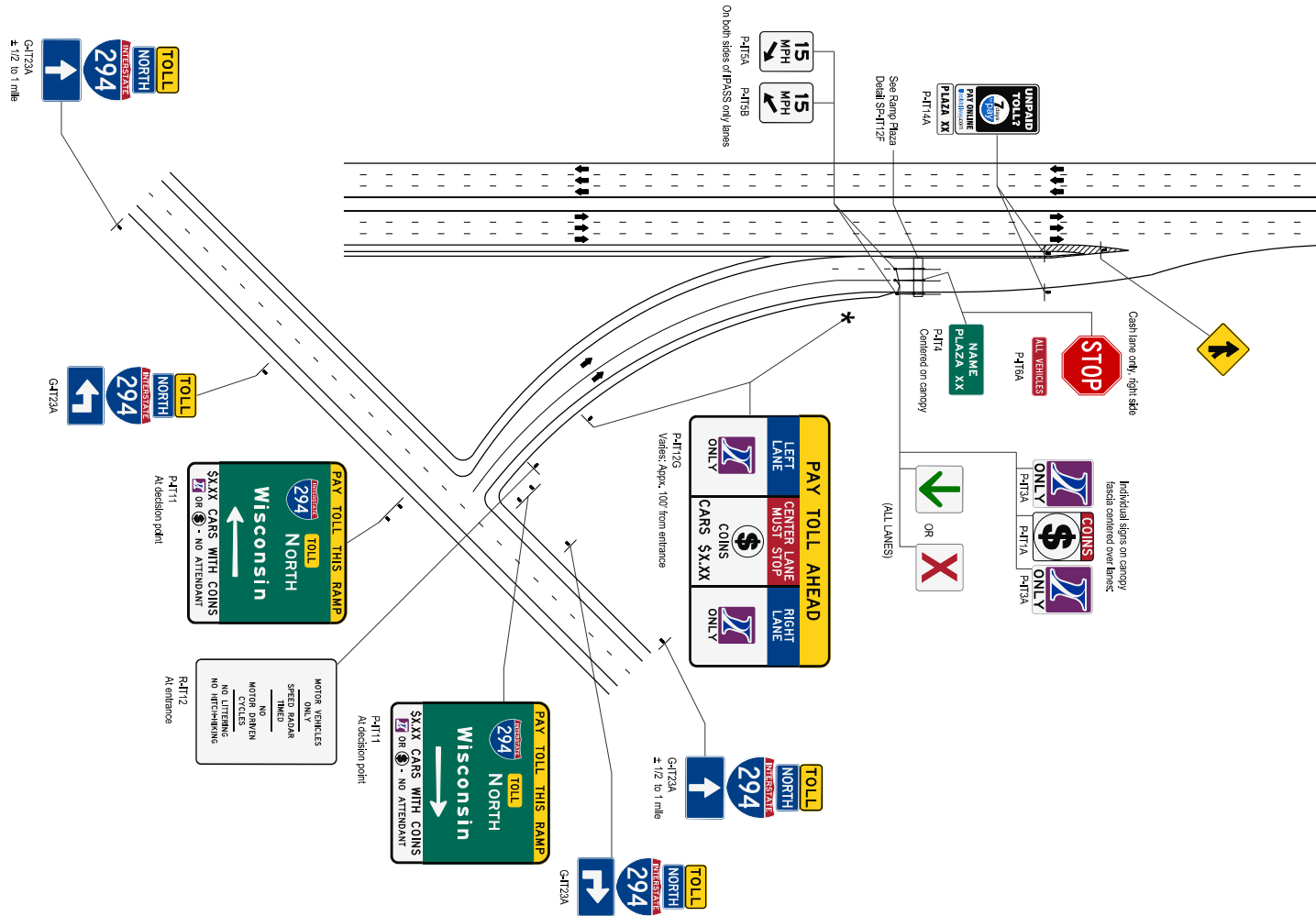
Illustration Number: SP-IT12D



SIGN PLACEMENT ILLUSTRATION

Entry Ramp Plaza - 3 Lanes

[Not to Scale]



Notes:

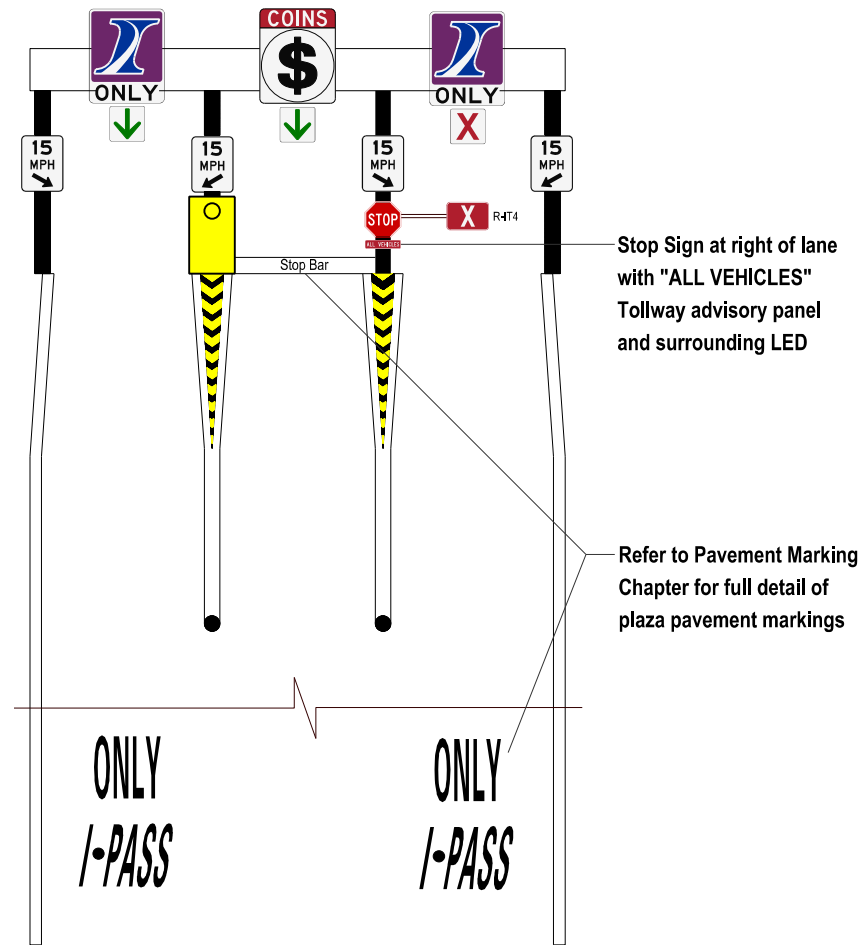
1. All entrance ramps are unattended.
2. The * denotes an additional P-IT12G sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Ramp Plaza Detail - 3 Lanes

[Not to Scale]

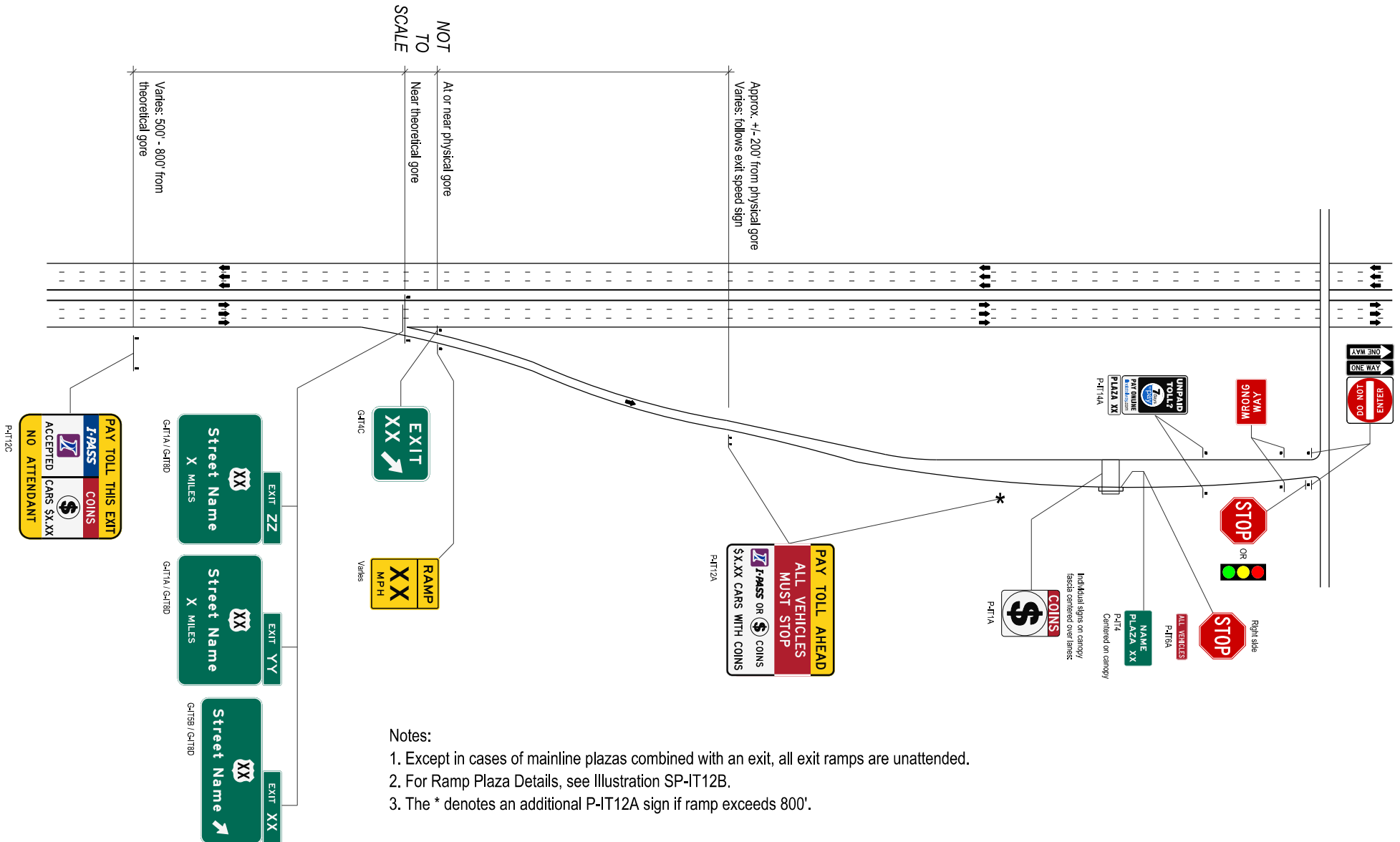
Illustration Number: SP-IT12F



SIGN PLACEMENT ILLUSTRATION

Exit Ramp Plaza - 1 Lane

[Not to Scale]

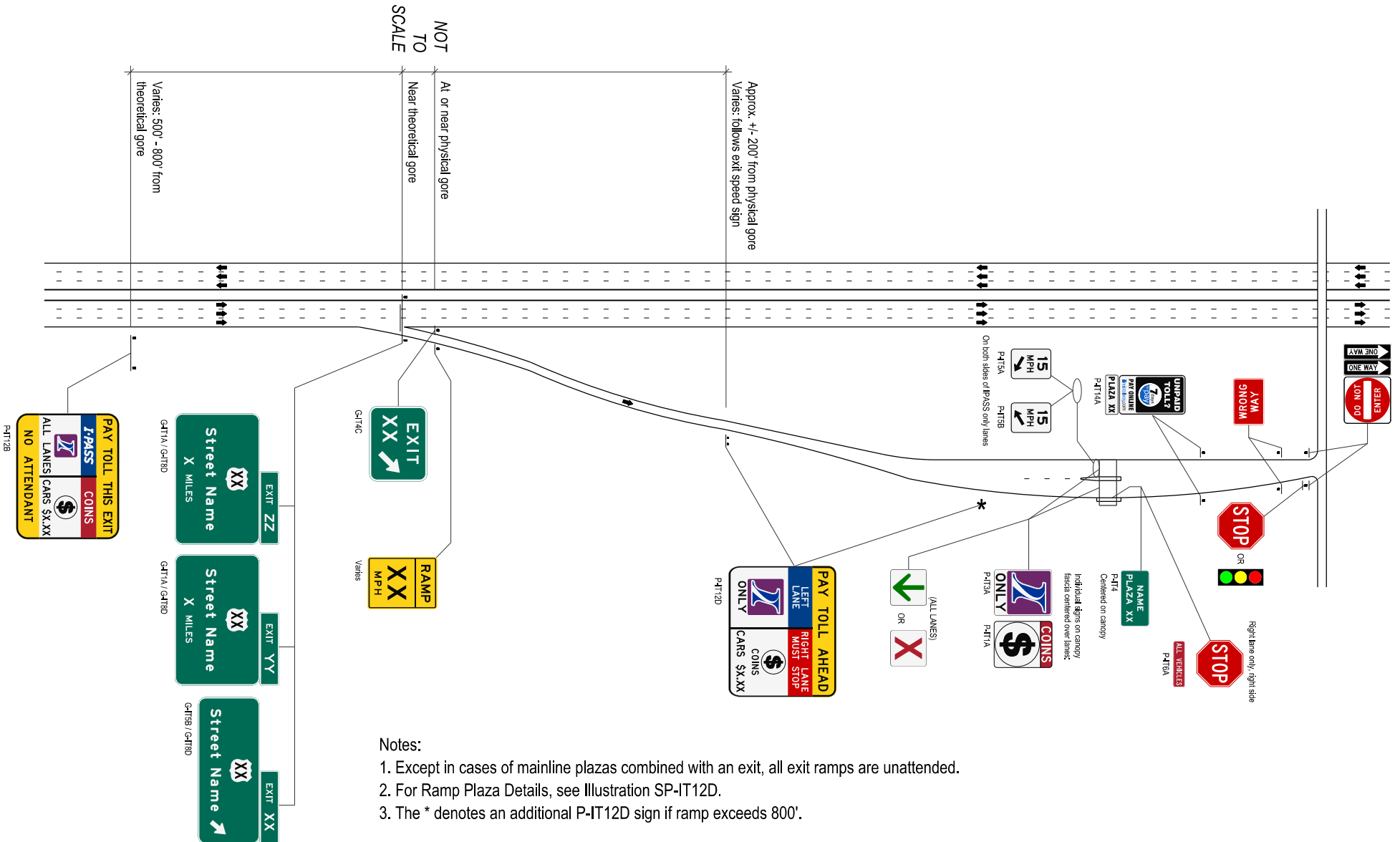


- Notes:
1. Except in cases of mainline plazas combined with an exit, all exit ramps are unattended.
 2. For Ramp Plaza Details, see Illustration SP-IT12B.
 3. The * denotes an additional P-IT12A sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Exit Ramp Plaza - 2 Lanes

[Not to Scale]

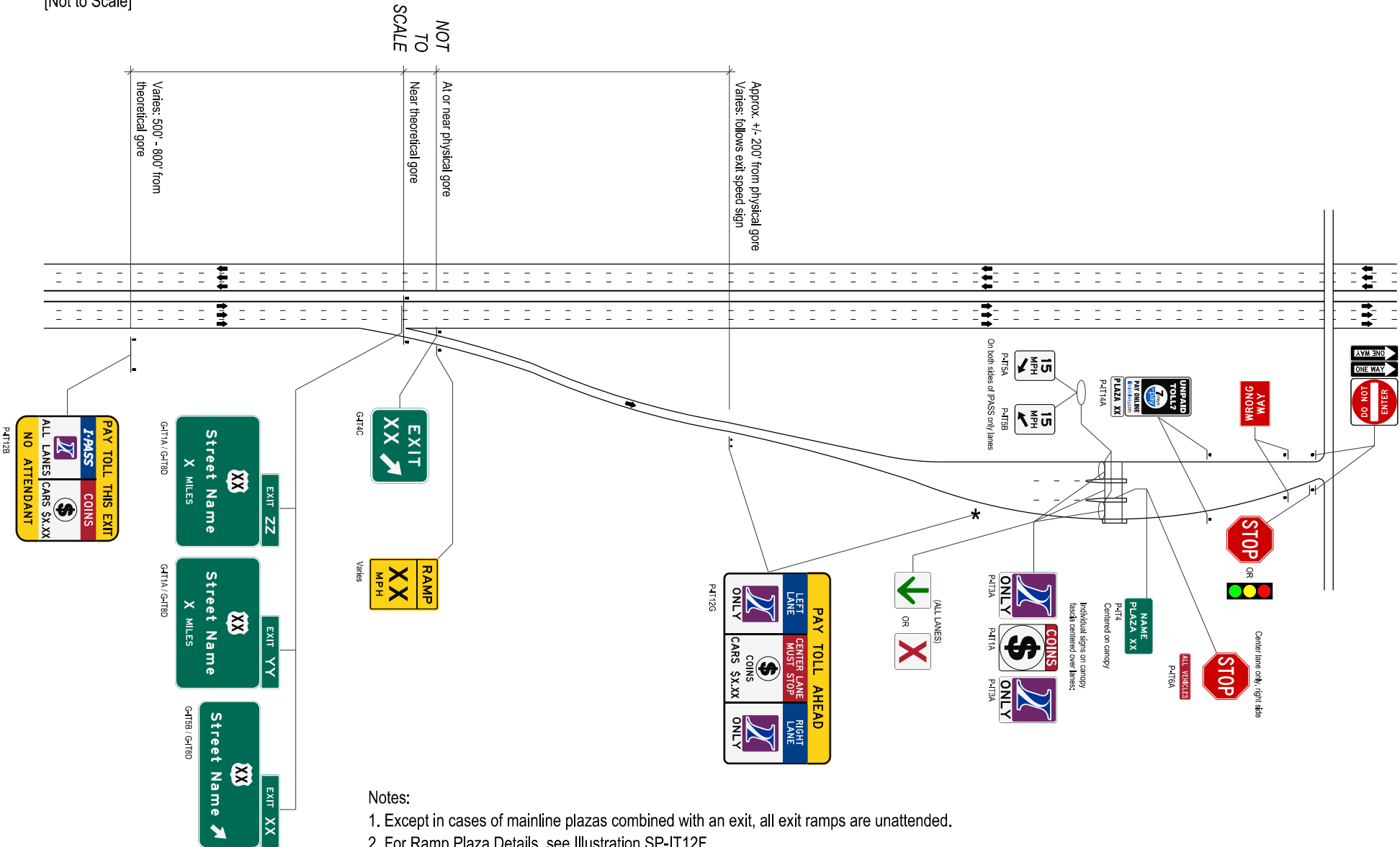


- Notes:
1. Except in cases of mainline plazas combined with an exit, all exit ramps are unattended.
 2. For Ramp Plaza Details, see Illustration SP-IT12D.
 3. The * denotes an additional P-T12D sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Exit Ramp Plaza - 3 Lanes

[Not to Scale]



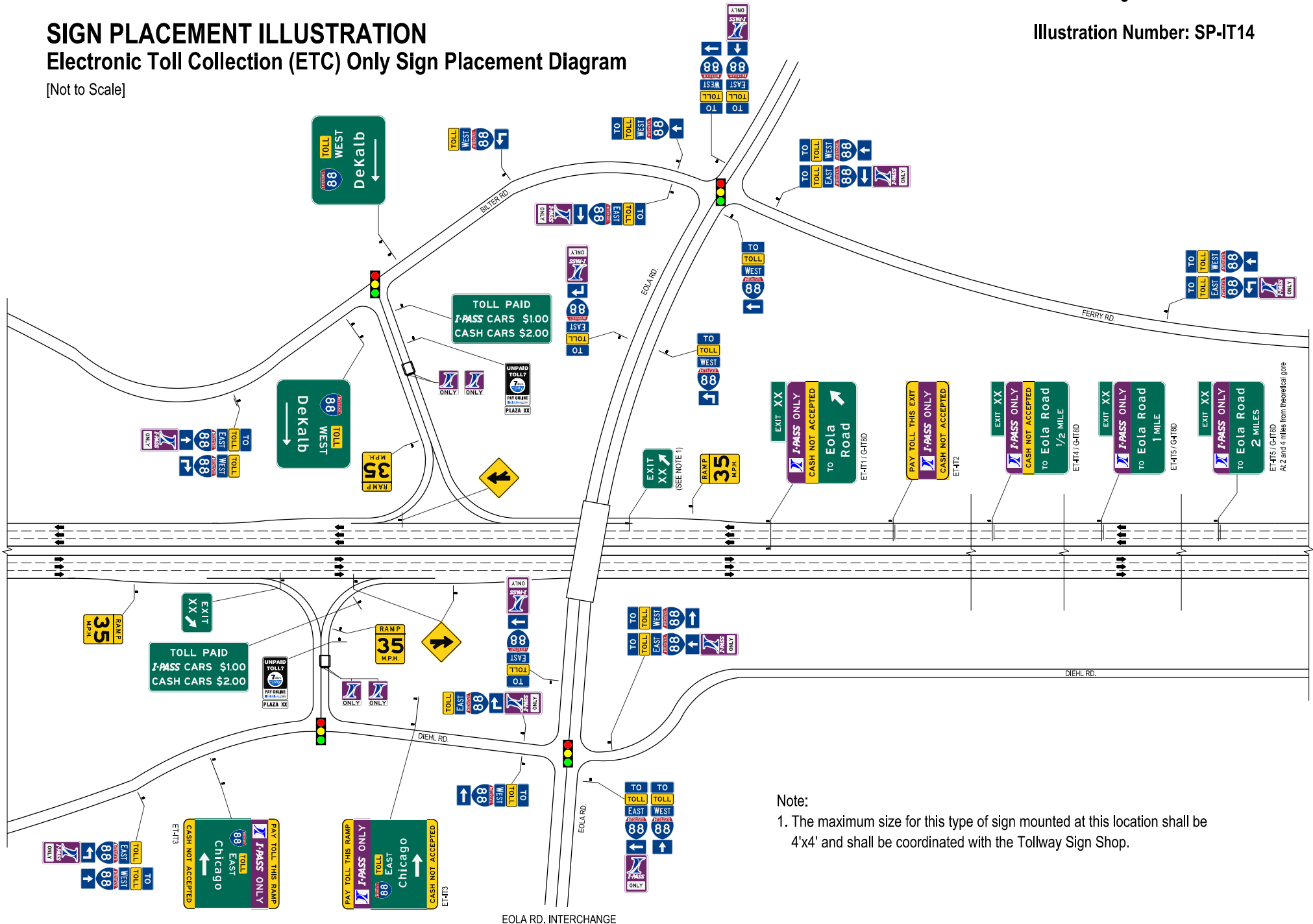
Notes:

1. Except in cases of mainline plazas combined with an exit, all exit ramps are unattended.
2. For Ramp Plaza Details, see Illustration SP-IT12F.
3. The * denotes an additional P-1T12G sign if ramp exceeds 800'.

SIGN PLACEMENT ILLUSTRATION

Electronic Toll Collection (ETC) Only Sign Placement Diagram

[Not to Scale]

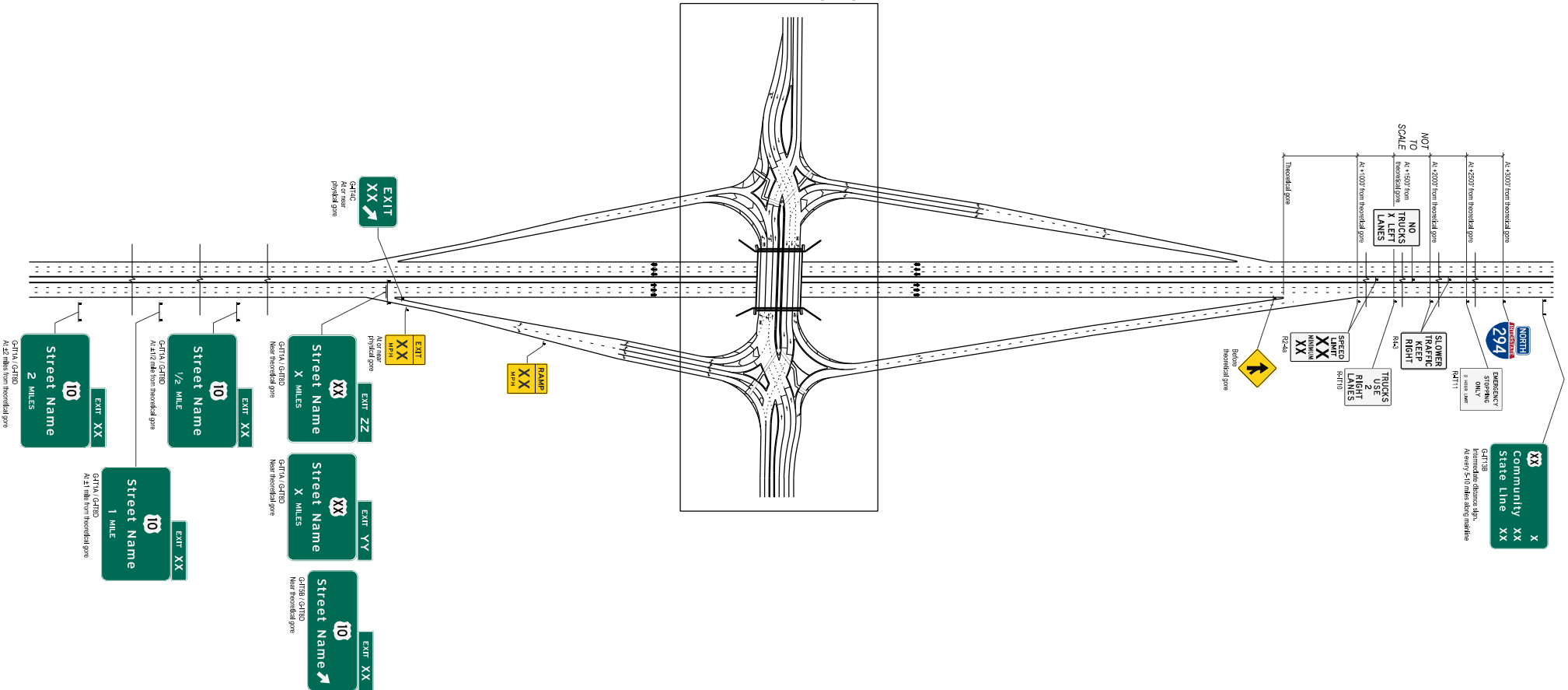


Note:
 1. The maximum size for this type of sign mounted at this location shall be 4'x4' and shall be coordinated with the Tollway Sign Shop.

SIGN PLACEMENT ILLUSTRATION Diverging Diamond Interchange

[Not to Scale]

Refer to Sheet 3-SP-IT15B
for local road signage.



Notes:

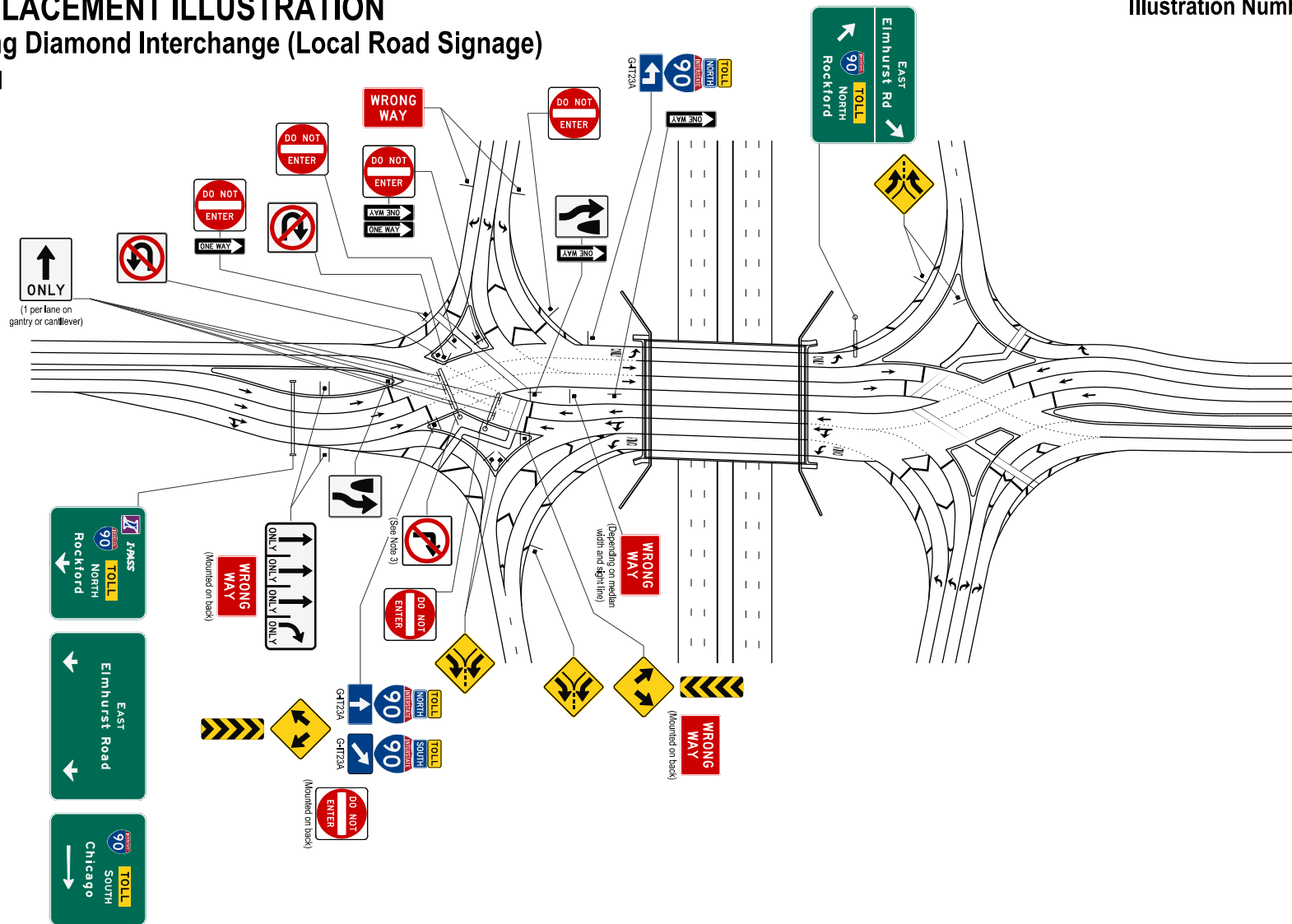
- 1. Milepost numbering ascends to North and East every 1/4 mile.
- 2. Minimum signs shown, additional signs may be necessary.



SIGN PLACEMENT ILLUSTRATION

Diverging Diamond Interchange (Local Road Signing)

[Not to Scale]



Notes:

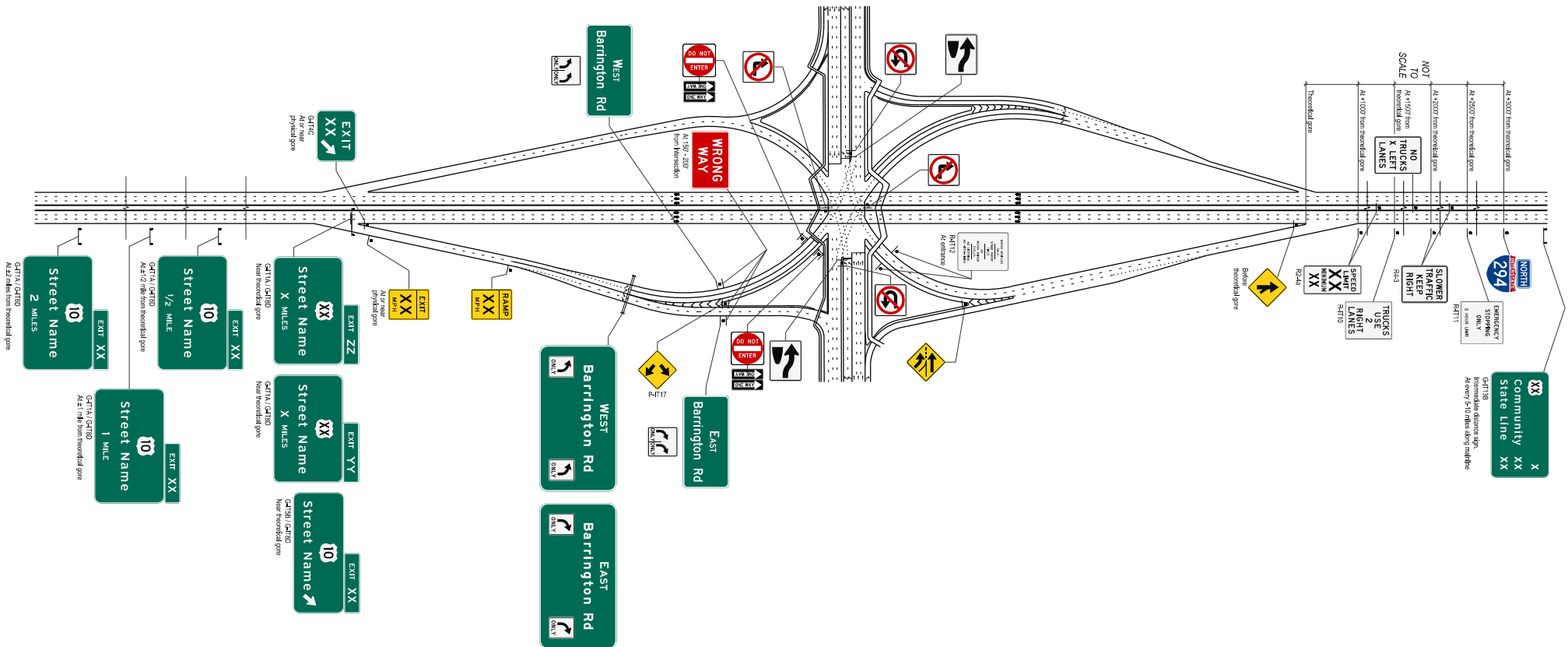
1. Signing shown focuses mainly on west leg and must be integrated with signalization.
2. Sign plan subject to site conditions, geometry and driver lines of sight.
3. Include if sufficient distance from eastbound island nose to avoid right turn confusion.



SIGN PLACEMENT ILLUSTRATION

Single Point Urban Interchange

[Not to Scale]



Notes:

1. Signing must be coordinated with signalization.
2. See SP-IT2A for minimum surface street signing. May require overhead guide signs.
3. Minimum signs shown, additional signs may be necessary subject to site conditions, geometry and driver lines of sight.

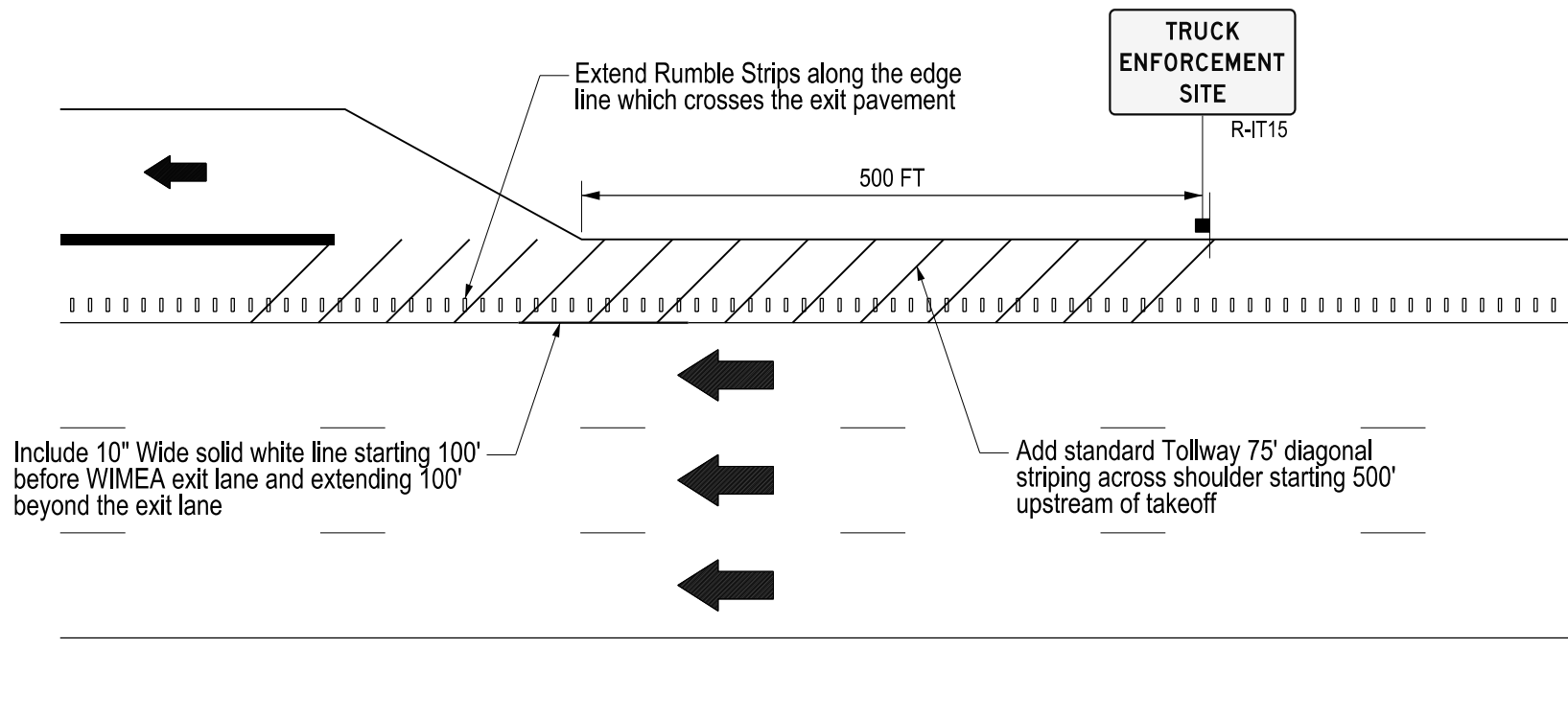


SIGN PLACEMENT ILLUSTRATION

Weigh - in - Motion Enforcement Area (WIMEA)

Illustration Number: SP-IT17

[Not to Scale]





4. Guide Signs

4 - Guide Signs

4.1 - Guide Sign Application

Guide signs provide direction to the driver, including traffic lanes, exits, interchanges, routes and destinations. Guide signs are placed in advance of or at the point where a decision is to be made regarding a change in direction of travel. The signing should furnish drivers with clear instruction for orderly progress to their destinations.

Guide signs should serve distinct functions:

- Give directions** to destinations, or to streets or highway routes at interchanges, or to interchanges.
- Furnish** advance notice of the approach to interchanges or exits.
- Direct road users** into appropriate lanes in advance of diverging or merging movements
- Identify routes** and direction on those routes
- Show distances** to destinations
- Indicate access** to general motorist services, rest, scenic, and recreational areas
- Provide** other information of value to the road user

Guide signs are used on the mainline and ramps to guide the motorist to other routes of travel.

4.2 - Guide Sign Location

Reference is made to Chapter 2E of the *MUTCD*, "Guide Signs – Freeways and Expressways" for design

and layout considerations for guide signing on the Tollway. As stated previously in Section 3.1.1, for signing purposes, Service Interchanges on the Tollway are considered Intermediate Interchanges.

The identification of entrances to the Tollway from crossroads should be given adequate attention. Signing on the approaches to interchanges should be consistent with the design and traffic conditions of the crossroad. Judgment and careful attention to details on the placement of required guide signing must be exercised in the vicinity of ramps and intersections with frontage roads to avoid giving motorists confusing, misleading, or conflicting information. Since the Tollway does not typically have jurisdiction of crossroads, installation of Guide signs shall conform to the criteria of the governing agency and, therefore, the designer must coordinate work with Local, County, and/or IDOT agencies.

All major Guide signs shall be spaced so that road users are not overloaded with a group of signs at a single location. On the mainline, Guide signs should be placed at least 800' minimum from any other type of major Guide sign, and 1000' spacing is strongly preferred. Specific locations not stated in these guidelines should adhere to or exceed the guidelines in the *MUTCD*.

In the immediate vicinity of the toll plazas and in Oasis areas, the preceding guidelines may not be achievable. However, the signs should be placed such that they are in full view of motorists approaching the toll plaza area.

4.3 - Guide Sign Shape, Color and Size

Most signs shall be rectangular in shape, and sized according to the messages on the face of the signs. When signs are mounted adjacent to each other, sizes and shapes should be the same, if practical, for visual simplicity.

Per *MUTCD* standards, the minimum lettering sizes of places, streets or highway names on an overhead or ground-mounted Guide sign depends on the interchange classification. Letter sizes and spacing should be as specified in *MUTCD* Section 2E.14 and the corresponding tables in that section. In special case when there is a barrier wall present on an exit ramp with traffic on both sides of the barrier wall, refer to Section 4.7.4 for size of Exit Gore signs.

Guide signs shall comply with the *MUTCD* standards, having a green background with a white legend and border.

4.4 - Guide Sign Messages

No more than two destination names or street names should be shown on any Guide sign. A city name and street name on the same sign shall be avoided. Where multiple signs are placed on the same supports, destinations or names shall be limited to one per sign, or to a total of three in the display. Sign legends may include symbols, route numbers, arrows, cardinal directions, exit numbers, and arrow directions. Sign legends should not exceed three lines of copy,

exclusive of the exit number and action message or distance.

4.5 - Guide Sign Control Destinations

In dealing with interchanges where the intersecting road is an interstate route, signs should consist of the intersecting interstate number and the control destination(s) for the intersecting interstate route.

On the Tollway system, the following control destinations are typically used: INDIANA, IOWA, WISCONSIN, WEST SUBURBS, SOUTH SUBURBS, AURORA, BLOOMINGTON, CHICAGO, DEKALB, JOLIET, and ROCKFORD.

Should a unique interchange location be encountered where the above control destinations do not apply, AASHTO's *List of Control Cities for Use in Guide Signs on Interstate Highways* should be referenced. This publication provides a list of control cities for interstate routes to be used on Guide signs.

For interchanges where the intersecting road is not an interstate, signs should consist of the intersecting road route number, if applicable, and the intersecting road or street name. Community names shall not be used on Guide signs for interstate routes. A separate sign indicating the community name may be placed in advance of the interchange exit ramp.

4.6 - Guide Sign Layouts

Since each Guide sign and Guide sign application is unique, sign layout details cannot be provided for all cases in these guidelines. In general, all signs within a certain area and with a similar purpose should be designed in a similar fashion.

4.7 - Guide Sign Descriptions

The Guide sign illustrations in this chapter are described in the following sections, which detail the Guide sign application, color, legend, layout and placement. All Guide sign illustrations follow the text below and a list of illustrations is included at the end of the chapter. The illustration identifier is listed in parentheses following each sign name.

4.7.1 - Interchange Advance Guide Signs (Illustrations G-IT1A-G)

Application: Advance signs give notice in advance of the exit point of the principal destinations served by the upcoming exits or interchanges and the distance to that point. Exits terminate at intersections where the motorist will stop. The bottom line of the sign should state the appropriate distance to the exit gore. If the sign is located less than ½ mile from the exit, the distance shown should be to the nearest ¼ mile. The distance to the subsequent interchange should be displayed to the nearest ½ mile if the distance to the interchange is 5 miles or less and to the nearest mile if the distance is greater than 5 miles. **Color:** The Advance signs should

have a green background with white legend and border. Abbreviations may be used in accordance with *MUTCD* Section 1A.15, but they should be kept to a minimum. **Legend:** Advance signs shall include a route shield and cardinal direction above the street name, the distance in miles, and route shield (if applicable). If a toll plaza is located on the ramp, then Toll information should also be included. The bottom line of the sign should state the appropriate distance to the exit gore. These signs should also include the control destination and the distance in miles. The legend should have a numeral followed by the word MILES or MILE. If the sign is located less than ½ mile from the exit, the distance shown should be to the nearest ¼ mile. Legends may include:

- Shield, Street Name, X Mile
- 2 Shields, Street Name, X Miles
- Shield, X Miles
- Bipartite Shields, Toll, Cardinals, Control Destinations, XX Miles
- Shield, 2 Street Names, X Miles
- To, Street Name, Right X Mile
- 2 Shields, 2 Street Names, XX Miles
- Bipartite Shields, Cardinal, 2 Community Names, X Mile
- Shield, Control Destinations, X Miles

Diagrams and Symbols: Shields shall be used for route numbers. For left exits, a Left Exit Number plaque shall be added to the left-hand edge of the sign. Advance signs for multi-lane exits and splits with an option lane shall follow guidance provided in section 3.2.7. **Layout:** The shield and cardinal direction, if applicable, shall be centered horizontally on the top row. Underneath the cardinal direction, the word TOLL if applicable shall be placed to the right of the shield. Underneath the shield and cardinal direction, the control

destination should be listed. The control destination should be centered horizontally on the sign. **Placement:** For major and intermediate interchanges, Advance Interchange signs should be placed overhead in advance of the exit at ½ mile, at 1 mile, and at 2 miles, if spacing permits. At minor interchanges, only one Advance Interchange sign should be used and located at ½ or 1 mile from the exit gore. Typically, Advance Interchange signs for the next two interchanges should be placed on the left-hand side of an overhead truss at the exit ramp of each interchange. Advance Interchange and Exit Direction signs should be placed on overhead trusses, with not more than three signs, with the Exit Direction sign on the right. The most distant interchange sign should generally be placed on the left-hand side of the truss, and the next interchange sign on the right-hand side. Where there is less than 800' between interchanges, Interchange sequence signs should be used instead of Advance Interchange signs.

4.7.2 - Mainline Distance Plaque Next Exit (Illustrations G-IT2A-B)

Application: When the distance to the next interchange is long, Mainline Distance plaques can be used to inform road users of the distance to the next interchange. **Color:** Mainline Distance plaques should have a green background with a white legend and border. **Legend:** The legend shall be NEXT EXIT XX MILES. **Diagrams and Symbols:** None. **Layout:** One or two lines as shown on the illustrations. **Placement:** The Mainline Distance plaques should be used only where the distance between successive interchanges is more than 5 miles.

4.7.3 - Crossroad Signs (Illustrations G-IT3A-F)

Application: Crossroad signs guide motorists to the Tollway from an intersecting road. **Color:** These signs should have a green background with a white legend and border. **Legend:** The sign shall include the interstate shield, cardinal direction, and the word TOLL. The control destination and either action messages (NEXT RIGHT, SECOND RIGHT, OR AHEAD) or an appropriate arrow should also be included. In cases where there are more than one interstate and/or routes shown on the sign, the word TOLL shall be black in text color on a yellow background which spans across the width of all shields and route symbols shown on the sign. **Diagrams and Symbols:** Shields shall be used for routes. An appropriate arrow should indicate the direction of the ramp. All spacing of arrows should be used in accordance with guidelines in the current edition of the Federal Highway Administration's *Standard Highway Signs and Markings* book. The layout of arrows should be similar to the layout for Exit Direction signs as specified in *MUTCD*. **Layout:** All legend elements should be centered horizontally on the sign. **Placement:** Crossroad signs are placed on the right-hand side of connecting road, or on a median, in advance of the entry ramp to the Tollway.

4.7.4 - Exit Gore Signs (Illustrations G-IT4A-G)

Application: The Exit Gore sign indicates the exiting point or the place of departure from the main roadway. **Color:** Exit Gore signs should have a green background with a white legend and border. **Legend:** The legend

EXIT should be centered horizontally on the top line, and the exit number in the next line. Exit numbers for ramps will be provided by the Tollway. **Diagrams and Symbols:** A diagonally upward-pointing arrow, slanting to the left (or right, if a single left lane exit is to be indicated) should be used. **Layout:** Below the legend, the exit number and the arrow should be centered horizontally. **Size:** The size of the Exit Gore signs shall be according to illustrations G-IT4A-G, except for a special case when there is a barrier wall present on an exit ramp with traffic on both sides of the barrier wall, the width of the Exit Gore sign shall be no wider than the width of the bottom of the barrier. The dimensions of the sign and fonts shall be designed by the engineer and shown on the plans. **Placement:** The Exit Gore sign should be placed at the gore.

4.7.5 - Exit Direction Signs (Illustrations G-IT5A-E)

Application: Exit Directions sign repeat the route and destination information that was displayed on the Advance Guide sign(s) for the next exit, and thereby assures road users of the destination served and indicates whether they exit to the right or left for that destination. Exit Direction signs should be used at major and intermediate interchanges. Using an arrow is preferable to the words Keep Left or Keep Right. **Color:** The Exit Direction sign should have a green background with a white legend and border. **Legend:** The Exit Direction sign shall display the route shield, cardinal direction, and the word TOLL (if applicable). Underneath the shield and cardinal direction, the destination or destinations should be listed. Destinations include either control cities or intersecting

road names. The destination should be centered horizontally on the sign. Legends may include:

- Shield, Toll, Cardinal, Control Destination, Directional Arrow
- Shield, Cardinal, Street Name, Directional Arrow
- To, Shield, Cardinal, 2 Street Names, Directional Arrow
- 2 Shields, Cardinal, Street Name, Directional Arrow
- 2 Shields, Street Name, Directional Arrow

Diagrams and Symbols: Diagrams should not be used at the exit direction location. Exit Direction signs only differ from Advance Guide signs in that they do not have a distance(s) listed on them, but instead show a direction by the use of an arrow. The shield and cardinal direction format shall be the same as for Advance Guide signs. **Layout:** When an Exit Direction sign is used on an exit ramp, the destination or destinations should be centered below the cardinal direction and shield and next to a diagonally upward-pointing arrow. The arrow should be oriented such that it indicates the direction of the ramp. The arrow should be placed such that the bottom of the arrow is level with the bottom of the legend or legends. **Placement:** An Exit Direction sign should be placed overhead in the vicinity of the theoretical gore. The sign should be mounted on the same sign truss as the Interchange Advance Guide signs that designate the next two subsequent interchanges. The Exit Direction sign should be mounted on the truss on the side that the ramp exits.

4.7.6 - Keep Left / Keep Right Signs (Illustrations G-IT6A-B)

Application: The Keep Left/Keep Right signs may be used in advance of the Exit Direction sign to help drivers preposition in the correct lane. **Color:** Keep Left/Keep Right Exit signs have a green background with white legend and border. **Legend:** Refer to illustrations. **Diagrams and Symbols:** Route shields shall be used. **Layout:** All legend elements should be centered horizontally on the sign, with the words KEEP LEFT or KEEP RIGHT on the bottom line. **Placement:** A Keep Left/Keep Right sign may be placed in advance of the Exit Direction sign as needed depending on the site conditions..

4.7.7 – Exit Direction Sign Exit Only Panel with Diagonal Arrow (Illustrations G-IT7A-C)

Application: The Exit Only Panel with Diagonal arrow shall be used on overhead Exit Direction signs to advise road users of dropped lane(s) or auxiliary exit only lane(s) situations. See sections 3.2.6 and 3.2.7 for further guidance. **Color:** The EXIT ONLY panel shall have a yellow background with black legend and borders. **Legend:** The legend shall be EXIT ONLY. **Diagrams and Symbols:** The number of arrows on each sign shall correspond to the number of mandatory exit lanes at the location of each sign. **Layout:** The legend should be centered horizontally on the panel. **Placement:** The EXIT ONLY panel should be used on all Exit Direction signs at the signing of a mandatory exit.

4.7.8 - Exit Number Plaques (Illustrations G-IT8A-K)

Application: Exit Number Plaques displaying Interchange numbering shall be used on Advance Guide signs, Exit Direction signs, and Exit Gore signs for each freeway interchange exit. Advance Guide signs are placed up to 2 miles before an exit. Signs further away than 2 miles are classified as supplemental Guide signs and do not require an exit number (see *MUTCD* Sections 2E.33 and 2E.35). Interchange numbering shall use the reference locations sign exit numbering method. Suffix letters shall be used for multi-exit interchanges. **Color:** The Exit Number Plaque shall have a green background with a white legend and border. In cases where the exit is left, the word LEFT shall be placed in the top left corner of the panel on a yellow background with a black legend. **Legend:** The panel shall contain the word EXIT and the interchange number (and suffix letter if necessary). Exit numbers for ramps will be provided by the Tollway. **Diagrams and Symbols:** None. **Layout:** The text should be displayed in a single-line format. If used, the word LEFT shall be centered over the word EXIT. **Placement:** The exit number plaque should be placed on the top right of each Advance Guide sign and Exit Direction sign. If the exit is on the left, the plaque should be placed on the top left of each Advance Guide sign and Exit Direction sign.

4.7.9 – Advance Guide Sign Exit Only Panel with Down Arrow (Illustrations G-IT9A-C)

Application: An Exit Only Panel with Down Arrow(s) shall be included at the bottom of all Advance Guide signs for interchange dropped lanes and auxiliary exit only lanes. See sections 3.2.6 and 3.2.7 for further guidance. **Color:** The Exit Only panel shall have a yellow background with black legend and border. **Legend:** The Exit Only Panel shall have a downward pointing arrow between the words EXIT and ONLY, or, the words EXIT ONLY between two downward pointing arrows, if there are two exit lanes. **Diagrams and Symbols:** The down arrow(s) should be centered above the travel lane. **Layout:** All legend elements should be centered horizontally on the panel. **Placement:** The Exit Only Panel with down arrows should be used for mandatory exit lanes on all Mainline Advance Guide and selectively on Intersection Advance Guide signs.

4.7.10 - Mainline Plaza Advance Signs (Illustrations G-IT10A-D)

Application: Mainline Plaza Advance signs are mounted overhead and give guidance to the road user in advance of the separation between ORT lanes and the toll booth plaza. All mainline Plaza Advance signs shall be illuminated with luminaires. **Color:** Refer to illustrations. **Legend:** Refer to illustrations. **Diagrams and Symbols:** The Mainline Plaza Advance signs use the cash pictograph, CARS \$X.XX symbol and the *I-Pass* pictograph, in varying sizes proportional to the

legend and overall sign size. **Layout:** The PAY TOLL X MILE legend is centered at the top. The *I-Pass* Pictograph, Plaza Pictograph, and Cash Pictograph are centered and arranged from left to right. The KEEP RIGHT legend is centered below the cash pictograph and CARS \$X.XX symbol as shown in the illustrations. **Placement:** Mainline Plaza Advance Guide signs should be placed in advance of the theoretical gore at the distances shown on the sign, and not less than ¼ mile apart.

4.7.11 - Mainline Plaza Pull-Through and Exit to Cash Lanes Signs (Illustrations G-IT11A-F)

Application: The Mainline Plaza Pull-Through signs are mounted overhead to give the road user guidance at the separation between ORT lanes and the toll plaza. All mainline Plaza Advance signs shall be illuminated with luminaires. **Color:** The signs should be rectangular with green background and white border. **Legend:** Refer to illustrations. **Diagrams and Symbols:** Mainline Plaza Pull-Through Signs use pull-through arrows (one per lane), the cash pictograph and the *I-Pass* pictograph, in varying sizes proportional to the legend and overall sign size, as determined by the number of lanes. **Layout:** The legend and directional arrows should be centered on the signs. The pull-through arrow(s) should be centered over each lane. **Placement:** One Mainline Plaza Pull-Through sign (Electronic Toll Only, *I-Pass* pictograph and directional arrows) should be placed over the mainline lanes continuing through the ORT lanes, and one Mainline Plaza Pull-Through Sign (Cash pictograph and

directional arrows) should be placed over the dedicated lanes exiting to the toll plaza.

4.7.12 - Mainline Plaza IPO Lane Signs (Illustrations G-IT12A-B)

Application: The Mainline Plaza IPO Lane sign is mounted overhead to give lane guidance to *I-Pass* users in advance of toll plaza canopy to select the appropriate lane(s) for non-stop tolling. All mainline Plaza Advance signs shall be illuminated with luminaires. **Color:** The signs should be square or rectangular with green background and white border. **Legend:** The legend should read *I-Pass* (in pictograph) Only and Left Lane as shown on the sign illustrations. If there are two non-stop IPO lanes, the legend should read: Left Lanes. **Diagrams and Symbols:** The *I-Pass* pictograph should be used. **Layout:** The legend is centered horizontally on the sign. **Placement:** One Mainline IPO Lane sign should be centered over the left lane or left lanes at each plaza, approximately ¼ mile in advance of the plaza canopy.

4.7.13 - Post-Interchange Distance Signs (Illustrations G-IT13A-C)

Application: If there is less than 800' between interchanges, Post-Interchange Distance signs should be used instead of the Advance Guide signs. If used, Post-Interchange Distance signs should be used over the entire length of a route in an urban area. They should not be used on a single interchange basis. Post-Interchange Distance signs identifying the next two or

three interchanges may be used. Post-Interchange Distance signs should not be substituted for Exit Direction signs. **Color:** The Post-Interchange Distance signs have a green background with white legend and border. **Legend:** The Post-Interchange Distance signs should have interstate shields and miles listed with the closest interchange on the top line. The third, or bottom line, shall contain the name of and distance to a control city (if any) that has national significance for travelers using the route. **Diagrams and Symbols:** Route shields shall be used. **Layout:** The shields, control destinations, and/or road names should be left-justified, and the mileage should be right justified. **Placement:** Post-Interchange Distance signs are installed in a series and display the next two or three interchanges by name or route number with distances to the nearest ¼ mile. If used, the first sign in the series should be located in advance of the first Advance Interchange Guide sign. Post-Interchange Distance signs should be located in the median and installed at overhead sign height.

4.7.14 – Major Interchange Option Lane Exit and Split Signs (Illustrations G-IT14A-B)

Application: These signs alert motorists to a lane split or divergence in the roadway ahead that involves an option lane. **Color:** Mainline Split signs shall have a green background with white legend and border. **Legend:** The legend shall include the route shields, plus cardinal directions and TOLL where applicable. Control destinations for both roadways at the bifurcation should also be included. The sign shall also include a top plaque, with a green background and white legend

indicating the exit number. **Diagrams and Symbols:** An upward-pointing arrow should be centered directly over each lane and an arrow shaft splitting into two arrow heads should be used to convey the lane split or divergence. **Layout:** The messages should be arranged symmetrically with one arrow per lane centered directly over the lane. **Placement:** See Section 3.2.7 for discussion of sign placement.

4.7.15 - Mainline Pull-Through Lane Signs (Illustrations G-IT15A-B)

Application: A Mainline Pull-Through Lane sign is used where a through-movement at an interchange is not evident, and it is needed to guide road users traveling through the interchange. **Color:** A Mainline Pull-Through Lane sign should have a green background with a white legend and border. **Legend:** The legend shall include an interstate shield, cardinal direction, and the word TOLL, if required, above the cardinal direction. The control destination should also be included. **Diagrams and Symbols:** Route shields shall be used and one pull-through arrow should be provided for each lane continuing through. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Mainline Pull-Through Lane sign should be placed overhead with the pull-through arrows centered over each lane.

4.7.16 - Oasis Distance Sign (Illustration G-IT16)

Application: The Oasis Distance sign alerts motorists to an upcoming Oasis more than 5 miles ahead. **Color:** The Oasis Distance sign should have a blue background with white legend and border. **Legend:** The legend will include the name of the plaza, e.g. Lincoln Oasis, and XX Miles to the nearest ½ mile. **Diagrams and Symbols:** None. **Layout:** The legend will be centered horizontally on the sign. **Placement:** An Oasis Distance sign should be placed at the main entrances to the Tollway system, and at least 5 miles from the named Oasis.

4.7.17 - Oasis Advance Sign (Illustration G-IT17)

Application: The Oasis Advance sign alerts motorists to an upcoming Oasis. **Color:** The Oasis Advance sign should have a blue background with white legend and border. **Legend:** The first line of the sign should state the Oasis name. Below the Oasis name should be a symbol or symbols of the service or services provided. Directly underneath, if applicable, there should be a legend OPEN 24 HOURS. The bottom line of the sign should state the mileage to the Oasis. Distances to the services should also be displayed on the sign or the legend THIS EXIT. Oasis signs should have the name of the specific services located at an Oasis and may have a logo depicting the services provided. Only services provided at a Tollway Oasis should be identified. **Diagrams and Symbols:** The logo of the primary food provider and the primary fuel provider,

only, may be displayed on the Oasis Advance sign. Generally, there should not be more than two logo symbols on one sign. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Oasis Advance signs are placed on the shoulder of the mainline at the distances noted, measured from the theoretical gore at the exit to the sign, or as needed for distances less than ¼ mile. This is a non-Tollway sign and the Oasis Facility Leasee shall be responsible for placement, fabrication, and maintenance.

4.7.18 - Oasis Exit Direction Sign (Illustration G-IT18)

Application: The Oasis Exit Direction sign is used in advance of the Oasis Exit Gore sign. **Color:** The sign should have a blue background with white legend and border. **Legend:** This sign should be consistent with the Oasis Advance sign except all legends below the logo or logos should be eliminated and a diagonally upward-pointing arrow should be placed next to the logos, on the right-hand side. The arrow should be oriented such that it indicates the direction of the ramp. The arrow should be centered vertically such that the bottom of the arrow is level with the bottom of the logo or logos. **Diagrams and Symbols:** Only the logos of the primary food provider and the primary fuel provider may be displayed on the Oasis Exit Direction sign. Generally, there should not be more than two logo symbols on one sign. **Layout:** The legend should be centered horizontally on the sign. **Placement:** An overhead or ground mounted Oasis Exit Direction sign should be placed at the beginning of the deceleration lane for an Oasis, or overhead near the theoretical gore if there is less than 300 feet from the upstream end of the

deceleration lane to the theoretical gore. This sign is placed in addition to an Oasis Exit Gore sign at the gore. This is a non-Tollway sign and the Oasis Facility Leasee shall be responsible for placement, fabrication, and maintenance.

4.7.19 - Oasis Exit Gore Sign (Illustration G-IT19)

Application: The Oasis Exit Gore sign shall be used at the exit ramp to each Oasis. **Color:** The sign should have a blue background with white legend and border. **Legend:** OASIS should be displayed on the top line. **Diagrams and Symbols:** Below the legend, an arrow should be centered horizontally. **Layout:** Both the legend and arrow should be centered horizontally on the sign. **Placement:** The Oasis Exit Gore sign should be placed at the gore. This is a non-Tollway sign and the Oasis Facility Leasee shall be responsible for placement, fabrication, and maintenance.

4.7.20 - Oasis Supplemental Signs (Illustrations G-IT20A-C)

Application: On the Oasis site, several Oasis Supplemental signs are needed to guide cars and trucks to separate areas and to guide cars to food or fuel. Where Oasis Supplemental signs of other background colors exist, they need not be substituted until replacement for maintenance purposes is required. **Color:** The Oasis Supplemental signs should have a green background with white legend and

border. **Legend:** The legend should be centered horizontally on the top two lines. Legends may include:

- Cars, Pickups, Trucks, Buses, Dual Upward Directional Arrows
- Phones, Food, Fuel, Food, Dual Upward Directional Arrows
- Truck Fuel, Left Lane, Truck Parking, Right Lane

Diagrams and Symbols: When applicable, directional arrows should be centered horizontally below the legend. Each arrow should be oriented such that it indicates the direction of travel. **Layout:** The sign layout may be bi-partite with two words and one arrow on each panel. The legend should be centered both horizontally on each panel. **Placement:** The Oasis Supplemental signs should be placed at island gores and where motorists encounter a decision point. This is a non-Tollway sign and the Oasis Facility Leasee shall be responsible for placement, fabrication, and maintenance.

4.7.21 - To Tollway Sign (Illustration G-IT21)

Application: The To Tollway sign should be used at the re-entry ramp from each Oasis to the mainline. **Color:** The sign should have a green background with white legend and border. **Legend:** TO TOLLWAY should be centered horizontally on the top line. **Diagrams and Symbols:** An upward-pointing arrow should be centered horizontally below the legend. **Layout:** Both the legend and arrow should be centered horizontally. **Placement:** The To Tollway sign should be placed at

the entry point to the re-entry ramp from the Oasis parking areas. This is a non-Tollway sign and the Oasis Facility Leasee shall be responsible for placement, fabrication, and maintenance.

4.7.22 - Supplemental Mainline Guide Signs (Illustrations G-IT22A-F)

Application: Supplemental Mainline Guide signs provide information, including movement directions, to motorists about upcoming communities. Supplemental Mainline signs are used only in addition to other Guide signs. The lettering and sign size should be smaller than other Guide signs. Supplemental Mainline signs can be used to provide information regarding destinations accessible from an interchange, other than places shown on the standard interchange signing. These places include communities served by more than one interchange. If community interchanges are not conveniently identifiable or if there are more than two interchanges to be identified for a community, the NEXT X EXITS sign may be used. **Color:** Supplemental Mainline signs should be rectangular in shape, and have a green background with a white legend and border. **Legend:** The Supplemental Mainline sign legend includes the community destination name(s) with exit number or action messages below. A Supplemental Mainline sign should not list more than three destinations. Legends may include:

- 2 Community Names, Next Right, Community Name, Second Right
- Community Name, Exit XX A, Community Name, Exit XXB
- Community Name, Exit XX

- 2 Community Names, Exit XX

Diagrams and Symbols: None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** Supplemental Mainline signs should be placed so as not to interfere with required regulatory and warning signs or sequences of typical Guide signs. No more than one Supplemental Mainline sign should be used on each exit or interchange, and it should be installed as an independent Guide sign assembly. Where two or more Advance Guide signs are used, the Supplemental Mainline sign should be installed approximately midway between two of the Advance Guide signs. If only one Advance Guide sign is used, the Supplemental Mainline sign should follow it by at least 800'.

4.7.23 - Trailblazer Assembly Signs (Illustrations G-IT23A-C)

Application: Trailblazer Assembly signs are Guide signs with a directional arrow which guides motorists in adjoining communities to the Tollway system. Trailblazer Assembly signs may be used on an off-network roadway leading to the Tollway or as a route confirmation sign on the mainline. There are three types of Trailblazer Assembly signs: Type I, Type II, and Type III. **Color:** The Trailblazer Assembly signs will be a series of standard *MUTCD* marker signs and shall have a blue background with a white border and legend. **Legend:** The legend for the Type I and Type II Trailblazer signs should follow standards detailed in *MUTCD* Section 2D.10. When used to guide motorists in adjoining communities to the Tollway system, the legend shall include the cardinal direction, TOLL,

interstate and a directional arrow. The cardinal direction may be removed if the Trailblazer sign is directing the motorist to a full interchange. When used as a confirmation sign on the mainline, only the cardinal direction, TOLL, interstate shield and directional arrow are required. The legend for the Type III Trailblazer sign should contain a series of sign panels displaying the cardinal direction and interstate shield. **Diagram and Symbols:** Standard *MUTCD* arrows shall be used to convey directional instructions to motorists. Route shields shall also be used. **Layout:** Components of the Type I Trailblazer Assembly sign are horizontally centered and placed in the following order from top to bottom: TOLL, cardinal direction, interstate shield, directional arrow on one continuous panel. Components of the Type II Trailblazer Assembly sign are horizontally centered and placed in the following order from top to bottom: TO, TOLL, cardinal direction, interstate shield, directional arrow on one continuous panel. Components of the Type III Trailblazer Assembly sign are horizontally centered and placed in the following order from top to bottom: cardinal direction, interstate shield. **Placement:** Trailblazer Assembly signs may be displayed on a non-toll roadway, a section of Interstate Highway System at the last exit before entering a toll section, at the interchange or connection with a toll facility, and at other locations near the toll facility to assist motorists in finding the Tollway entrance. Type I and Type II Trailblazer Assembly signs may be located at the first major cross-street from the Tollway entrance. Type III Trailblazer Assembly signs may be located along the mainline after an entrance ramp, where motorists are already on the Tollway. Trailblazer Assembly signs may be placed beyond these limits if it is anticipated that a large number of motorists will use the route to access the Tollway. When used to assist motorists in finding the Tollway entrance, Trailblazer

Assembly signs should be placed between 300'-500' from the approaching intersection. Type I and Type II confirmation Trailblazer Assembly signs shall be installed 25'-200' beyond the far shoulder or curb of the intersecting roadway. Type III Trailblazer Assembly signs are serving as route confirmations signs on the mainline.

GUIDE (G) SIGN ILLUSTRATION LIST

Number	Placement	Type	Legend	Page
G-IT1A	Mainline	Advance Guide	Advance Exit: Shield, Street Name, X Mile	4 - G-IT1A
G-IT1B	Mainline	Advance Guide	Advance Exit: 2 Shields, Street Name, X Miles	4 - G-IT1B
G-IT1C	Mainline	Advance Guide	Advance Exit: Bipartite Shields, Toll, Cardinals, Control Destinations, XX Miles	4 - G-IT1C
G-IT1D	Mainline	Advance Guide	Advance Exit: Shield, 2 Street Names, X Miles	4 - G-IT1D
G-IT1E	Mainline	Advance Guide	Advance Exit: 2 Shields, 2 Street Names, XX Miles	4 - G-IT1E
G-IT1F	Mainline	Advance Guide	Advance Exit: Bipartite Shields, Cardinal, 2 Community Names, X Mile	4 - G-IT1F
G-IT1G	Mainline	Advance Guide	Advance Interchange and Exit: Shield, Control Destinations, X Miles	4 - G-IT1G
G-IT2A	Mainline	Advance Guide	Mainline Distance: Next Exit XX Miles (Type I)	4 - G-IT2A
G-IT2B	Mainline	Advance Guide	Mainline Distance: Next Exit XX Miles (Type II)	4 - G-IT2B
G-IT3A	Mainline	Entrance Direction	Crossroad: Shield, Toll, Cardinal, Control Destination, Cross Arrow (Type I)	4 - G-IT3A
G-IT3B	Mainline	Entrance Direction	Crossroad: Shield, Toll, Cardinal, Control Destination, Directional Arrow (Type II)	4 - G-IT3B
G-IT3C	Mainline	Advance Entrance Direction	Crossroad: Tolls, Cardinals, Shield, Action Messages (Type I)	4 - G-IT3C
G-IT3D	Mainline	Advance Entrance Direction	Crossroad: Bipartite Shields, Tolls, Cardinals, Control Destinations, Action Messages (Type II)	4 - G-IT3D
G-IT3E	Mainline	Advance Entrance Direction	Crossroad: Shield, Toll, Cardinal, Control Destination, Action Message (Type III)	4 - G-IT3E
G-IT3F	Mainline	Advance Entrance Direction	Crossroad: Shield, Toll, Cardinal, Control Destination, Cross Arrow	4 - G-IT3F
G-IT4A	Mainline	Exit Direction	Exit Gore: Exit, Single Digit Exit Number, Directional Arrow	4 - G-IT4A
G-IT4B	Mainline	Exit Direction	Exit Gore: Exit, Single Digit Exit Number and Letter, Directional Arrow	4 - G-IT4B
G-IT4C	Mainline	Exit Direction	Exit Gore: Exit, Double Digit Exit Number, Directional Arrow	4 - G-IT4C
G-IT4D	Mainline	Exit Direction	Exit Gore: Exit, Double Digit Exit Number and Letter, Directional Arrow	4 - G-IT4D
G-IT4E	Mainline	Exit Direction	Exit Gore: Exits, Double Digit Exit Number and Multi-Exit Interchange, Directional Arrow	4 - G-IT4E

GUIDE (G) SIGN ILLUSTRATION LIST

Number	Placement	Type	Legend	Page
G-IT4F	Mainline	Exit Direction	Exit Gore: Exit, Triple Digit Exit Number, Directional Arrow	4 - G-IT4F
G-IT4G	Mainline	Exit Direction	Exit Gore: Exit, Triple Digit Exit Number and Letter, Directional Arrow	4 - G-IT4G
G-IT5A	Mainline	Exit Direction	Exit Direction: Shield, Toll, Cardinal, Control Destination, Directional Arrow	4 - G-T4A
G-IT5B	Mainline	Exit Direction	Exit Direction: Shield, Cardinal, Street Name, Directional Arrow	4 - G-T5B
G-IT5C	Mainline	Exit Direction	Exit Direction: To, Shield, Cardinal, 2 Street Names, Directional Arrow	4 - G-IT5C
G-IT5D	Mainline	Exit Direction	Exit Direction: 2 Shields, Cardinal, Street Name, Directional Arrow	4 - G-IT5D
G-IT5E	Mainline	Exit Direction	Exit Direction: 2 Shields, Street Name, Directional Arrow	4 - G-IT5E
G-IT6A	Mainline	Advance Guide	Keep Left/Keep Right Exit: Bipartite Shields, Tolls, Cardinals, Control Destinations, Keep Left, Keep Right	4 - G-IT6A
G-IT6B	Mainline	Advance Guide	Keep Right Exit: Shield, Toll, Cardinal, Control Destination, Keep Right	4 - G-IT6B
G-IT7A	Mainline	Exit Direction	Exit Only Panel: Left Exit Number Plaque, Shield, Toll, Cardinal, Control Destination, Exit Only Panel with Diagonal Arrow	4 - G-IT7A
G-IT7B	Mainline	Exit Direction	Exit Only Panel: 2 Shields, Cardinal, 2 Street Names, Exit Only Panel with Diagonal Arrow - 1 Lane	4 - G-IT7B
G-IT7C	Mainline	Exit Direction	Exit Only Panel: 2 Shields, Cardinal, 2 Street Names, Exit Only Panel with 2 Diagonal Arrows	4 - G-IT7C
G-IT8A	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Single Number	4 - G-IT8A
G-IT8B	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Single Number, Multi-Exit Interchange	4 - G-IT8B
G-IT8C	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exits, Single Number, Multi-Exit Interchange	4 - G-IT8C
G-IT8D	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Double Number	4 - G-IT8D
G-IT8E	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Double Number, Multi-Exit Interchange	4 - G-IT8E
G-IT8F	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exits, Double Number, Multi-Exit Interchange	4 - G-IT8F
G-IT8G	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Triple Number	4 - G-IT8G
G-IT8H	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exit, Triple Number, Multi-Exit Interchange	4 - G-IT8H
G-IT8I	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exits, Triple Number, Multi-Exit Interchange	4 - G-IT8I
G-IT8J	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Right, Exits, Triple Number, Multi-Exit Interchange	4 - G-IT8J

GUIDE (G) SIGN ILLUSTRATION LIST

Number	Placement	Type	Legend	Page
G-IT8K	Mainline	Advance Guide & Exit Direction	Exit Number Plaque: Top Left, LEFT, Exit, Double Number	4 - G-IT8K
G-IT9A	Mainline	Exit Direction	Exit Only Panel with Down Arrow: Shield, Toll, Cardinal, Control Destination, Exit Only Panel for Dropped Lane and Auxiliary Exit Only Lane	4 - G-IT9A
G-IT9B	Mainline	Exit Direction	Exit Only Panel with Down Arrow: Shield, Street Name, Exit Only Panel for Dropped Lanes and Auxiliary Exit Only Lane	4 - G-IT9B
G-IT9C	Mainline	Exit Direction	Exit Only Panel with Down Arrow: 2 Shields, 2 Street Names, X Mile, Exit Only Panel for Dropped Lane and Auxiliary Exit Only Lane	4 - G-IT9C
G-IT10A	Mainline	Advance Guide	Mainline Plaza Advance: Pay Toll 1 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right	4 - G-IT10A
G-IT10B	Mainline	Advance Guide	Mainline Plaza Advance: Pay Toll 3/4 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right	4 - G-IT10B
G-IT10C	Mainline	Advance Guide	Mainline Plaza Advance: Pay Toll 1/2 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right	4 - G-IT10C
G-IT10D	Mainline	Advance Guide	Mainline Plaza Advance: Pay Toll 1/4 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right	4 - G-IT10D
G-IT11A	Mainline	Advance Guide	Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 2 Pull-Through Arrows	4 - G-IT11A
G-IT11B	Mainline	Advance Guide	Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 3 Pull-Through Arrows	4 - G-IT11B
G-IT11C	Mainline	Advance Guide	Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 4 Pull-Through Arrows	4 - G-IT11C
G-IT11D	Mainline	Advance Guide	Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, Directional Arrow	4 - G-IT11D
G-IT11E	Mainline	Advance Guide	Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, 2 Directional Arrows	4 - G-IT11E
G-IT11F	Mainline	Advance Guide	Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, 3 Directional Arrows	4 - G-IT11F
G-IT12A	Mainline	Advance Guide	Mainline Cash Plaza IPO Lane: I-Pass Pictograph, Only, Left Lane	4 - G-IT12A
G-IT12B	Mainline	Advance Guide	Mainline Cash Plaza IPO Lanes: I-Pass Pictograph, Only, Left Lanes	4 - G-IT12B
G-IT13A	Mainline	Advance Guide	Post-Interchange Distance: Shields, XX Miles	4 - G-IT13A
G-IT13B	Mainline	Advance Guide	Post-Interchange Distance: Shields and/or Control Destination, XX Miles	4 - G-IT13B
G-IT13C	Mainline	Advance Guide	Post-Interchange Distance: Shields and/or Road Name, XX Miles	4 - G-IT13C

GUIDE (G) SIGN ILLUSTRATION LIST

Number	Placement	Type	Legend	Page
G-IT14A	Mainline	Advance Guide	Major Interchange Option Lane Exit: Bipartite Shields, Toll, Cardinals, Control Destinations, X Mile, Overhead Arrows-per-Lane, Exit, Only	4 - G-IT14A
G-IT14B	Mainline	Advance Guide	Mainline Split With Option Lane: Bipartite Shields, Toll, Cardinals, Control Destinations, X Mile, Overhead Arrows-per-Lane, Exit, Only	4 - G-IT14B
G-IT15A	Mainline	Advance Guide	Mainline Pull-Through Lane: Shield, Cardinal, Control Destination, 2 Pull-through Arrows	4 - G-IT15A
G-IT15B	Mainline	Advance Guide	Mainline Pull-Through Lane: Shield, Toll, Cardinal, Control Destination, 4 Pull-Through Arrows	4 - G-IT15B
G-IT16	Mainline	Advance Guide	Oasis Distance: Name Oasis, XX Miles	4 - G-IT16
G-IT17	Mainline	Advance Guide	Oasis Advance: Name of Oasis, Prime Food Symbol, Prime Fuel Symbol, Open 24 Hours, XX Miles	4 - G-IT17
G-IT18	Mainline	Exit Direction	Oasis Exit Direction: Name of Oasis, Prime Food Symbol, Prime Fuel Symbol, Directional Arrow, Open 24 Hours	4 - G-IT18
G-IT19	Oasis	Exit Direction	Oasis Exit Gore: Oasis, Directional Arrow	4 - G-IT19
G-IT20A	Oasis	Supplemental	Oasis Supplemental: Cars Pickups, Trucks Buses, Dual Upward Directional Arrows	4 - G-IT20A
G-IT20B	Oasis	Supplemental	Oasis Supplemental: Phones, Food, Fuel, Food, Dual Upward Directional Arrows	4 - G-IT20B
G-IT20C	Oasis	Supplemental	Oasis Supplemental: Truck Fuel, Left Lane, Truck Parking, Right Lane	4 - G-IT20C
G-IT21	Oasis	Supplemental	To Tollway: To, Tollway, Directional Arrow	4 - G-IT21
G-IT22A	Mainline	Supplemental	Supplemental Mainline: 2 Community Names, Next Right, Community Name, Second Right	4 - G-IT22A
G-IT22B	Mainline	Supplemental	Supplemental Mainline: Community Name, Exit XX A, Community Name, Exit XX B	4 - G-IT22B
G-IT22C	Mainline	Supplemental	Supplemental Mainline: Community Name, Exit XX	4 - G-IT22C
G-IT22D	Mainline	Supplemental	Supplemental Mainline: 2 Community Names, Exit XX	4 - G-IT22D
G-IT22E	Mainline	Supplemental	Supplemental Guide: Shield, X Miles	4 - G-IT22E
G-IT22F	Mainline	Supplemental	Supplemental Guide: To, Street Name, Right X Mile	4 - G-IT22F
G-IT23A	Crossroads	Advance Guide	Trailblazer Assembly: Toll, Cardinal, Shield, Directional Arrow (Type I)	4 - G-IT23A
G-IT23B	Crossroads	Advance Guide	Trailblazer Assembly: To or JCT Toll, Cardinal, Shield, Directional Arrow (Type II)	4 - G-IT23B
G-IT23C	Crossroads	Advance Guide	Trailblazer Assembly: Cardinal, Shield (Type III)	4 - G-IT23C

GUIDE SIGN ILLUSTRATION
Advance Guide: Shield, Street Name, X Mile
 [Not to scale]



SIGN NUMBER	G-IT1A
MUTCD CITATION	2E.33
WIDTH x HGHT.	16'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	81	67.6	36	36

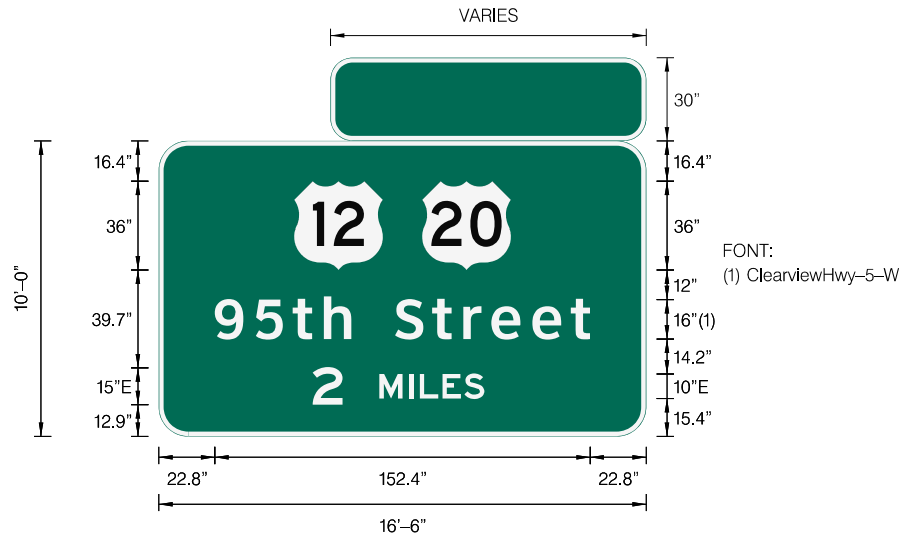
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
S	t	r	e	e	t		N	a	m	e							ClearviewHwy-5-W
15.1	30.2	42.9	54.2	70.8	86.5		112.1	130.5	147.5	171.1							167.8
X		M	I	L	E												E 2000
68.4		96.5	108.5	112.9	122.1												61.2

GUIDE SIGN ILLUSTRATION
Advance Guide: 2 Shields, Street Name, X Miles

[Not to scale]



SIGN NUMBER	G-IT1B
MUTCD CITATION	2E.33
WIDTH x HGHT.	16'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	55	67.6	36	36
M1_4	0	107	67.6	36	36

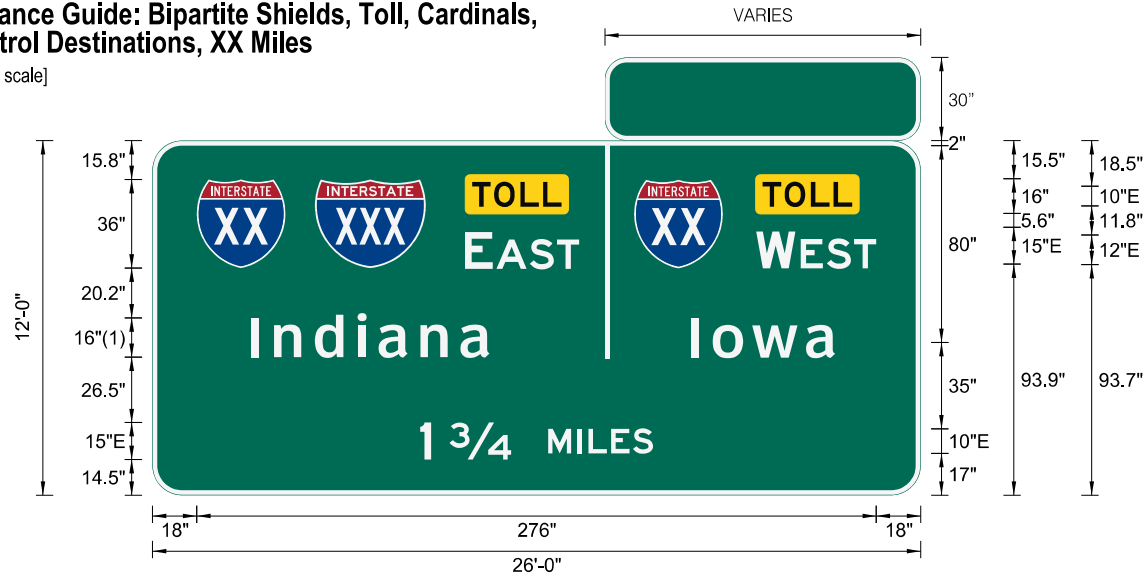
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)											LENGTH	SERIES-SIZE											
9	5	t	h		S	t	r	e	e	t											ClearviewHwy-5-W		
22.8	39.4	54.5	67.1		96	111.1	123.8	135.1	151.7	167.3											152.4	1613	
2		M	I	L	E	S																E 2000	
62.5		89.6	101.6	106	115.2	124.1																69.8	15,10

GUIDE SIGN ILLUSTRATION
Advance Guide: Bipartite Shields, Toll, Cardinals,
Control Destinations, XX Miles

[Not to scale]



SIGN NUMBER	G-IT1C
MUTCD CITATION	2E.33 & 2F.13
WIDTH x HGHT.	26'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	15	80.6	36	36
M1_1	0	63	80.6	45	36
M1_1	0	184.9	80.5	36	36

Dimensions are inches,tenths
 Letter locations are paneledge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)															LENGTH	SERIES-SIZE
T	O	L	L												36.3	E 2000 10
130.5	137.6	146.2	153.6													
T	O	L	L												36.3	E 2000 10
248.5	255.6	264.1	271.5													
E	A	S	T												46.4	E 2000 15,12
127	139.7	153.3	164.3													
W	E	S	T												48.8	E 2000 15,12
245.2	263.3	274	285													
I	n	d	i	a	n	a									96.9	ClearviewHwy-5-W 1613
40.1	49.4	66	83.3	91.9	108.9	125.1										
I	o	w	a												58.5	ClearviewHwy-5-W 1613
218.8	227.5	243.6	265.4													
1	34		M	I	L	E	S								94.6	E 2000 15,10
108.7	120.7		160.7	172.7	177.1	186.3	195.2									

GUIDE SIGN ILLUSTRATION
Advance Guide: Shield, 2 Street Names,
X Miles

[Not to scale]



SIGN NUMBER	G-IT1D
MUTCD CITATION	2E.33
WIDTH x HGHT.	15'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1-H00A	0	69.7	99.8	40.5	36

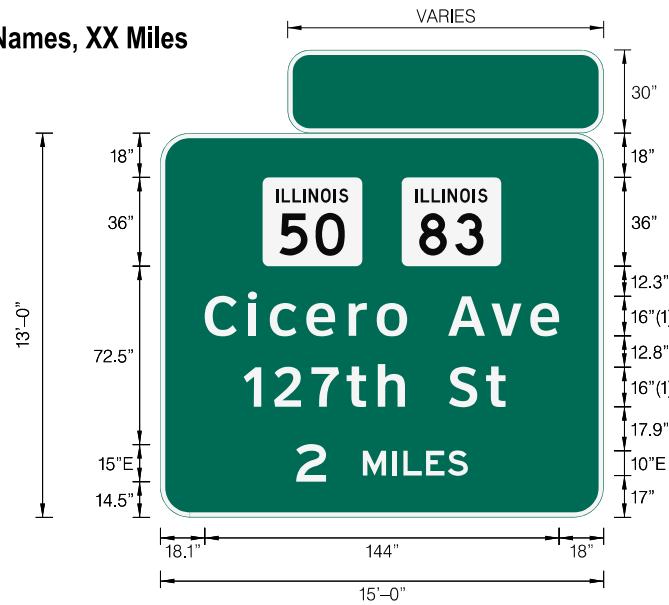
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)											LENGTH	SERIES-SIZE											
C	i	c	e	r	o		A	v	e												ClearviewHwy-5-W		
18.1	35.6	44.4	59.3	76.5	87.9		116.9	134.5	150.2												144	16/13	
1	2	7	t	h		S	t															ClearviewHwy-5-W	
33.8	46.2	61.3	75.7	88.3		117.2	132.3															106.4	16/13
2		M	I	L	E	S																E 2000	
55.1		82.3	94.3	98.7	107.9	116.8																69.8	15,10

GUIDE SIGN ILLUSTRATION
Advance Guide: 2 Shields, 2 Street Names, XX Miles

[Not to scale]



NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT1E
MUTCD CITATION	2E.33
WIDTH x HGHT.	15'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1-H100A	0	41.5	102	40.5	36
M1-H100A	0	98	102	40.5	36

LETTER POSITIONS (X)											LENGTH	SERIES-SIZE											
C	i	c	e	r	o		A	v	e												ClearviewHwy-5-W		
18.1	35.6	44.4	59.3	76.5	87.9		116.9	134.5	150.2												144	1613	
1	2	7	t	h		S	t															ClearviewHwy-5-W	
33.8	46.2	61.3	75.7	88.3		117.2	132.3															106.4	1613
2		M	I	L	E	S																E 2000	
55.1		82.3	94.3	98.7	107.9	116.8																69.8	15,10

GUIDE SIGN ILLUSTRATION
Advance Guide: Bipartite Shields, Cardinal,
2 Community Names, X Mile

[Not to scale]



SIGN NUMBER	G-IT1F
MUTCD CITATION	2E.33
WIDTH x HGHT.	30'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-H00A	0	25.7	114.5	40.5	36
M1-H00A	0	242.7	114.5	40.5	36

Dimensions are inches,tenths
 Letter locations are paneledge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
S	O	U	T	H													59.8	E 2000 15,12
81.2	95.6	108.4	120.2	131.2													103.9	ClearviewHwy-5-W 1613
R	o	b	b	i	n	s											64.2	ClearviewHwy-5-W 1613
18	34.8	52.6	69.6	86.3	95.8	111.7											138	ClearviewHwy-5-W 1613
A	l	s	i	p													151.6	ClearviewHwy-5-W 1613
230.1	249.6	258.2	273.2	282.7													52.6	E 2000 15,10
C	r	e	s	t	w	o	o	d										
18	35.9	47.2	63.2	76.9	87.8	110	127.2	144.4										
B	l	u	e		l	s	l	a	n	d								
190.5	208.1	217.9	234.3		264.5	272.6	287.9	296.9	313.8	330.4								
1		M	I	L	E													
153.7		173.2	185.2	189.6	198.8													

GUIDE SIGN ILLUSTRATION Advance Guide: Shield, Control Destinations, X Miles

[Not to scale]



SIGN NUMBER	G-IT1G
MUTCD CITATION	2E.30 & 2E.33
WIDTH x HGHT.	18'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	90	68	36	36

Dimensions are inches,tenths
Letter locations are paneledge to lower left corner

NOTES:
SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAMES.
SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)													LENGTH		SERIES-SIZE									
I	o	w	a	-	I	n	d	i	a	n	a											ClearviewHwy-5-W		
21.9	30.5	46.5	68.3	85.3	97.9	107.1	123.6	140.8	149.3	166.2	182.3											172.3	1613	
2		M	I	L	E	S																		E 2000
73.1		100.3	112.3	116.7	125.9	134.8																	69.8	15,10

GUIDE SIGN ILLUSTRATION
Mainline Distance Plaque: Next Exit XX Miles (Type I)

[Not to scale]



SIGN NUMBER	G-IT2A
MUTCD CITATION	2E.34
WIDTH x HGHT.	Varies x 2'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE					
N	E	X	T		E	X	I	T		1	2		M	I	L	E	S					EM 2000	
11.8	20.6	27.6	35.4		49.4	56.4	65	68.1		82	87.5		103.6	113.3	117.1	124.3	131.7					126.3	8,10

GUIDE SIGN ILLUSTRATION
Mainline Distance Plaque: Next Exit XX Miles (Type II)

[Not to scale]



SIGN NUMBER	G-IT2B
MUTCD CITATION	2E.34
WIDTH x HGHT.	7'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

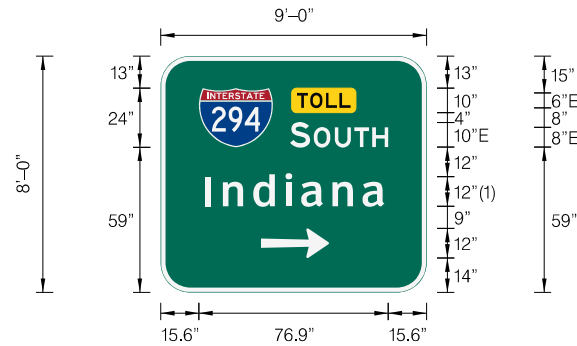
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
N	E	X	T		E	X	I	T										62.2	EM 2000 8
10.9	19.6	26.7	34.5		48.4	55.5	64.1	67.2										50.7	EM 2000 10,8
9		M	I	L	E	S													
16.7		32.8	42.5	46.3	53.5	60.9													

GUIDE SIGN ILLUSTRATION
Crossroad: Shield, Toll, Cardinal, Control Destination, Cross Arrow (Type I)

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.

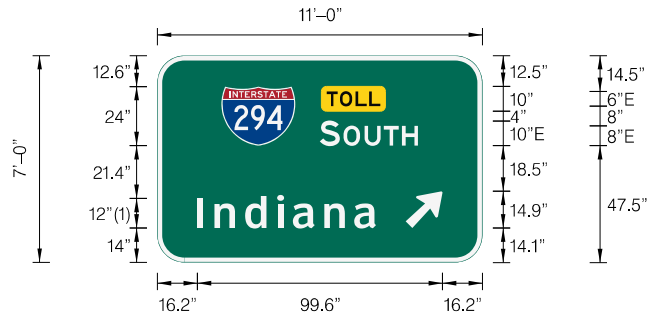
SIGN NUMBER	G-IT3A
MUTCD CITATION	2D.45, 2E.45 & 2F.13
WIDTH x HGHT.	9'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	15.6	56	30	24
AR_Type A	270	40.8	13	12	27.6

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
T	O	L	L															21.8	E 2000 6
55.4	60.7	67.1	72.6															39.8	E 2000 10.8
S	O	U	T	H														72.7	ClearviewHwy-5-W 129.8
52.6	62.2	70.8	78.6	86															
I	n	d	i	a	n	a													
18.2	25.2	37.6	50.7	57.1	69.8	82													

GUIDE SIGN ILLUSTRATION
Crossroad: Shield, Toll, Cardinal, Control Destination, Directional Arrow (Type II)

[Not to scale]



SIGN NUMBER	G-IT3B
MUTCD CITATION	2D.45 & 2F.13
WIDTH x HGHT.	11'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	26	47.4	30	24
AR_Type A	315	100.9	14	12	18.9

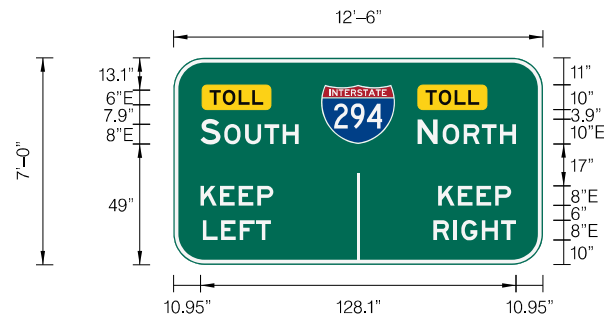
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
T	O	L	L															21.8	E 2000 6
68.8	74.1	80.5	86															39.8	E 2000 10,8
S	O	U	T	H														72.7	ClearviewHwy-5-W 129.8
66	75.6	84.2	92	99.4															
I	n	d	i	a	n	a													
16.2	23.3	35.7	48.7	55.1	67.8	80													

GUIDE SIGN ILLUSTRATION
Crossroad: Tolls, Cardinals, Shield, Action Messages (Type I)

[Not to scale]



SIGN NUMBER	G-IT3C
MUTCD CITATION	2D.45 & 2F.13
WIDTH x HGHT.	12'-6" x 7'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	60	44	30	24

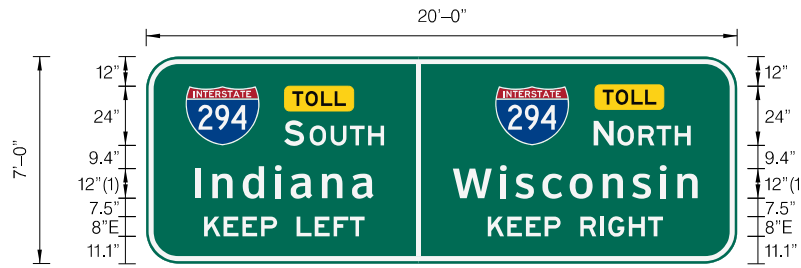
Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

NOTE:
 "KEEP LEFT/KEEP RIGHT" MESSAGE CAN BE REPLACED BY
 "LEFT LANE/RIGHT LANE" DEPENDING ON SITE GEOMETRY.

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE
T	O	L	L		T	O	L	L			E 2000
14.7	20	26.4	32		102.4	107.7	114.1	119.7		43.6	6
S	O	U	T	H							E 2000
10.9	20.5	29.1	36.9	44.3						39.8	10,8
N	O	R	T	H							E 2000
99.1	109.3	117.9	125.2	132.6						40	10,8
K	E	E	P								E 2000
10.9	18.9	26.5	34.1							29.6	8
K	E	E	P								E 2000
107.5	115.4	123	130.6							29.6	8
L	E	F	T								E 2000
11.9	19.3	26.9	33.5							27.6	8
R	I	G	H	T							E 2000
105.5	113.6	116.9	125.2	133.1						33.5	8

GUIDE SIGN ILLUSTRATION
Crossroad: Bipartite Shields, Tolls, Cardinals,
Control Destinations, Action Messages (Type II)

[Not to scale]



SIGN NUMBER	G-IT3D
MUTCD CITATION	2D.45
WIDTH x HGHT.	20'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	16	48	30	24
M1_1	0	141.7	48	30	24

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE
T	O	L	L		T	O	L	L			E 2000
59.3	64.7	71.1	76.6		185.4	190.7	197.1	202.6		43.6	6
S	O	U	T	H							E 2000
56	66.3	74.9	82.7	90.1						40.6	10,8
N	O	R	T	H							E 2000
181.7	191.3	199.9	207.3	214.6						39.4	10,8
I	n	d	i	a	n	a					ClearviewHwy-5-W
19.8	26.8	39.2	52.3	58.6	71.4	83.6				72.7	129.8
W	i	s	c	o	n	s	i	n			ClearviewHwy-5-W
124.5	143.7	149.8	160.9	172	185.4	197.3	208.6	215.7		99.5	129.8
K	E	E	P		L	E	F	T			E 2000
23.5	31.4	39	46.6		61.1	68.5	76.1	82.7		65.2	8
K	E	E	P		R	I	G	H	T		E 2000
138.7	146.6	154.2	161.8		176.3	184.4	187.7	196	203.8	71.1	8

GUIDE SIGN ILLUSTRATION
Crossroad: Shield, Toll, Cardinal, Control Destination, Action Message (Type III)

[Not to scale]



SIGN NUMBER	G-IT3E
MUTCD CITATION	2D.45 & 2F.13
WIDTH x HGHT.	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	23.3	55	30	24

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

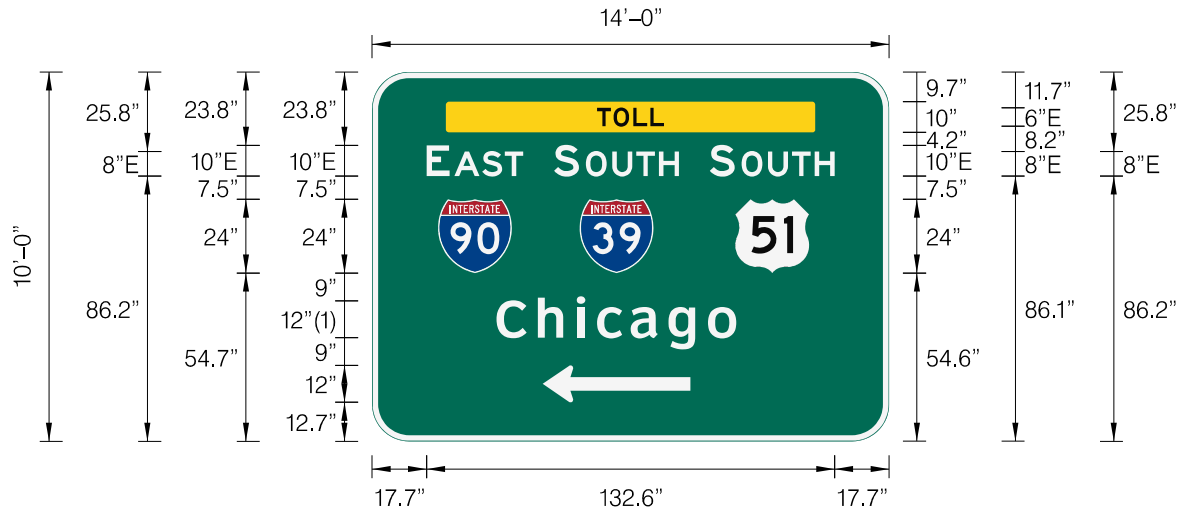
NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
T	O	L	L													21.8	E 2000 6
65.4	70.8	77.2	82.7														
N	O	R	T	H												39.4	E 2000 10,8
63.3	72.9	81.5	88.8	96.2													
W	i	s	c	o	n	s	i	n								99.5	ClearviewHwy-5-W 129.8
13.3	32.4	38.6	49.6	60.7	74.1	86	97.3	104.4									
N	E	X	T		R	I	G	H	T							71.0	E 2000 8
27.5	36	43.2	51		65	73.1	76.4	84.7	92.5								

GUIDE SIGN ILLUSTRATION

Crossroad: Shield, Toll, Cardinal, Control Destination, Cross Arrow

[Not to scale]



Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner.

FONT:
(1) ClearviewHwy-5-W

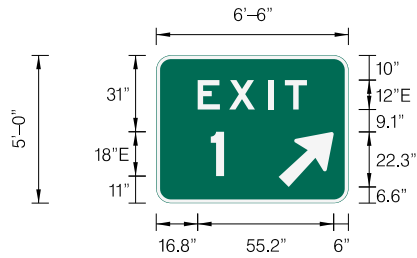
SIGN NUMBER	G-IT3F
MUTCD CITATION	2D.45, 2E.45 & 2F.13
WIDTH x HGHT.	14'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: BlackWhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	21.4	54.7	24	24
M1_1	0	67.4	54.7	24	24
M1_4	0	118	54.7	24	24
ARUP	90	55.4	12.7	12	48

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
T	O	L	L											E 2000
73.1	78.4	84.9	90.4										21.8	6
E	A	S	T											E 2000
17.7	26.7	35.8	43.1										31.4	10,8
S	O	U	T	H										E 2000
59.1	69.5	78	85.9	93.2									40.6	10,8
S	O	U	T	H										E 2000
109.7	120.1	128.6	136.5	143.8									40.6	10,8
C	h	i	c	a	g	o								ClearviewHwy-5-W
40,4	53.8	66.5	73.1	84	96.3	109.1							77.9	129.8

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Single Digit Exit Number, Directional Arrow

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

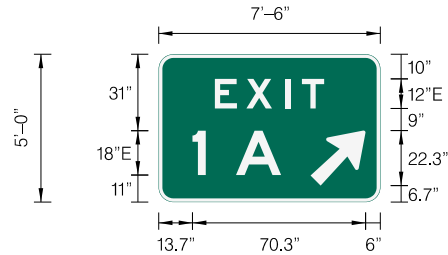
SIGN NUMBER	G-IT4A
MUTCD CITATION	2E.37
WIDTH x HGHT.	5'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	49.7	6.6	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T													44.4	E 2000 12
16.8	29.6	45.4	52.2														
1																6.9	E 2000 18
22.1																	

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Single Digit Exit Number and Letter, Directional Arrow

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

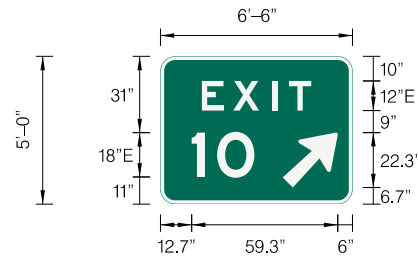
SIGN NUMBER	G-IT4B
MUTCD CITATION	2E.37
WIDTH x HGHT.	7'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	61.7	6.7	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T													44.4	E 2000 12
22.8	35.6	51.4	58.2													36	E 2000 18
1	A																
13.7	31.4																

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Double Digit Exit Number, Directional Arrow

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

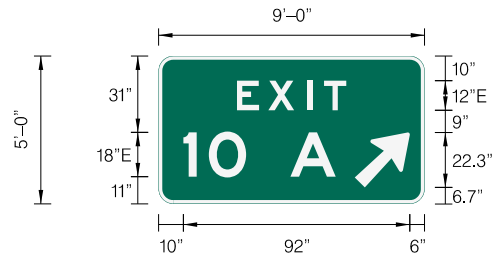
SIGN NUMBER	G-IT4C
MUTCD CITATION	2E.37
WIDTH x HGHT.	6'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	49.7	6.7	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T														E 2000
16.8	29.6	45.4	52.2														44.4 12
1	0																E 2000
12.7	23																25.5 18

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Double Digit Exit Number and Letter, Directional Arrow

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

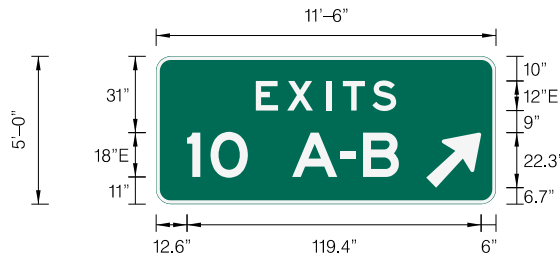
SIGN NUMBER	G-IT4D
MUTCD CITATION	2E.37
WIDTH x HGHT.	9'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	79.7	6.6	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T													44.4	E 2000 12
31.8	44.6	60.4	67.2														
1	0		A													61.9	E 2000 18
10	20.4		53.5														

GUIDE SIGN ILLUSTRATION
Exit Gore: Exits, Double Digit Exit Number and Multi-Exit Interchange, Directional Arrow

[Not to scale]



NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE BARRIER. THE LETTERING AND SYMBOL TO BE DESIGNED BY THE ENGINEER.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

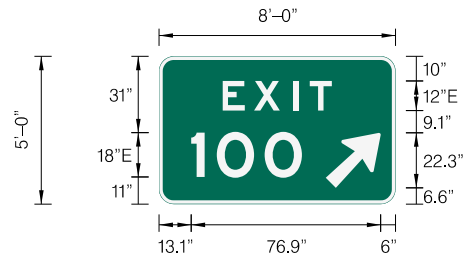
SIGN NUMBER	G-IT4E
MUTCD CITATION	2E.37
WIDTH x HGHT.	11'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	109.7	6.7	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T	S												57	E 2000 12
40.5	53.3	69.1	75.8	87.8												86	E 2000 18
1	0		A	-	B												
12.6	22.1		55.2	74.8	84												

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Triple Digit Exit Number, Directional Arrow

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

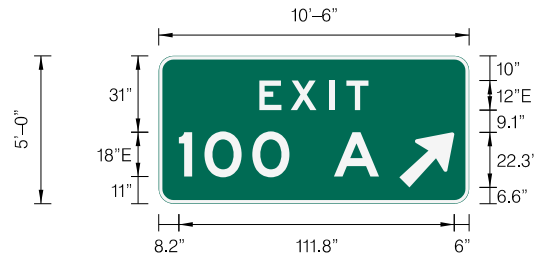
SIGN NUMBER	G-IT4F
MUTCD CITATION	2E.37
WIDTH x HGHT.	8'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	67.7	6.6	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T													44.4	E 2000 12
25.8	38.6	54.4	61.2														
1	0	0														44.9	E 2000 18
13.1	23.4	42.9															

GUIDE SIGN ILLUSTRATION
Exit Gore: Exit, Triple Digit Exit Number and Letter, Directional Arrow

[Not to scale]



NOTE:
 IN SPECIAL CASE OF BARRIER WALL PRESENT ON AN
 EXIT RAMP WITH TRAFFIC ON BOTH SIDES OF THE
 BARRIER WALL, THE WIDTH OF THIS SIGN SHALL BE
 NO WIDER THAN THE WIDTH OF THE BOTTOM OF THE
 BARRIER. THE LETTERING AND SYMBOL TO BE
 DESIGNED BY THE ENGINEER.

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

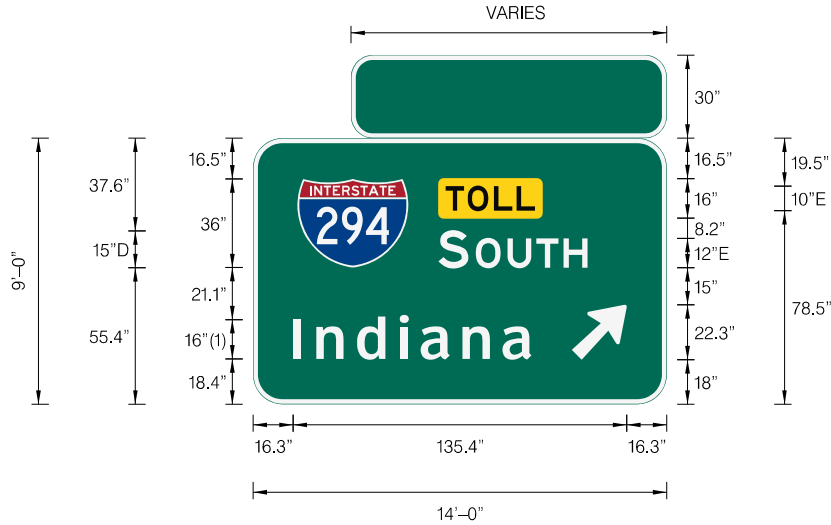
SIGN NUMBER	G-IT4G
MUTCD CITATION	2E.37
WIDTH x HGHT.	10'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	97.7	6.6	18	28.4

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE
E	X	I	T														44.4	E 2000 12
40.8	53.6	69.4	76.2														81.3	E 2000 18
1	0	0	A															
8.2	18.5	38	71.1															

GUIDE SIGN ILLUSTRATION
Exit Direction: Shield, Toll, Cardinal, Control Destination, Directional Arrow

[Not to scale]



NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

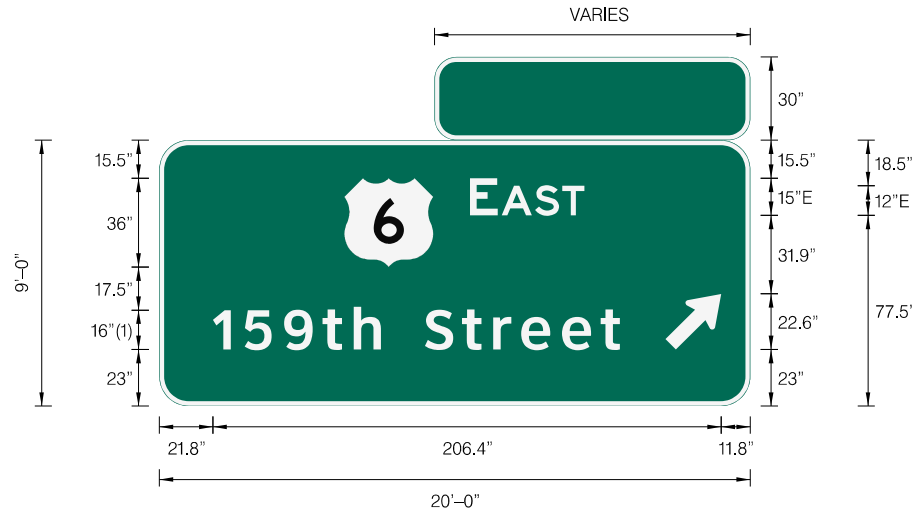
SIGN NUMBER	G-IT5A
MUTCD CITATION	2E.36 & 2F.13
WIDTH x HGHT.	14'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	18	55.5	45	36
AR_Type A	315	129.4	18	18	28.4

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
T	O	L	L													36.3	E 2000 10
78.8	85.9	94.5	101.9													51.7	E 2000 15,12
S	O	U	T	H												96.9	ClearviewHwy-5-W 16/13
75.3	88.5	99.7	109.6	118.9													
I	n	d	i	a	n	a											
16.3	25.7	42.2	59.6	68.1	85.1	101.3											

GUIDE SIGN ILLUSTRATION
Exit Direction: Shield, Cardinal, Street Name, Directional Arrow

[Not to scale]



SIGN NUMBER	G-IT5B
MUTCD CITATION	2E.36
WIDTH x HGHT.	20'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	75.2	56.5	36	36
AR_Type D	315	205.6	23	16	29

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAME.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
E	A	S	T													46.5	E 2000 15,12
126.2	139	152.6	163.6														
1	5	9	t	h		S	t	r	e	e	t						ClearviewHwy-5-W
21.8	34.6	50.6	66.3	79		107.8	123	135.6	147	163.6	179.2					165.3	1613

GUIDE SIGN ILLUSTRATION
Exit Direction: To, Shield, Cardinal, 2 Street Names, Directional Arrow

[Not to scale]



NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAMES.

INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

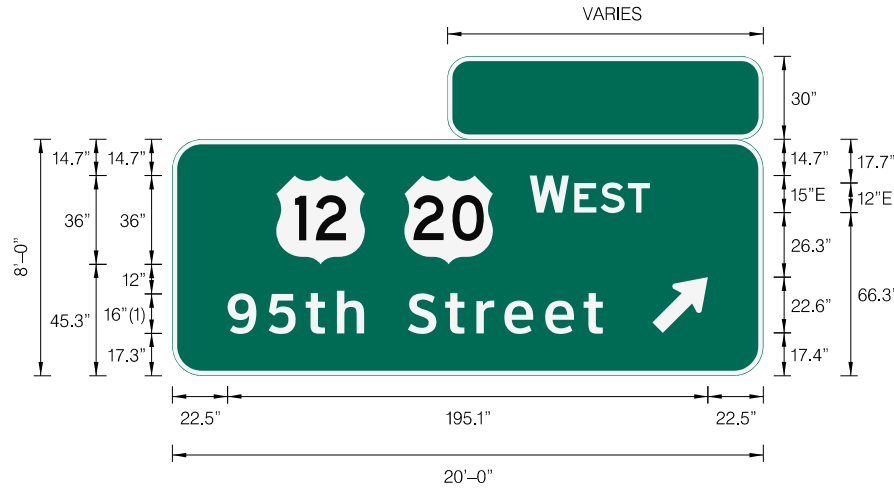
SIGN NUMBER	G-IT5C
MUTCD CITATION	2E.36
WIDTH x HGHT.	18'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1-100A	0	45.3	72	40.5	36
AR_Type D	315	176.6	21.4	16	29

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
T	O																17.3	E 2000 10
16.7	25.6																59.8	E 2000 15,12
S	O	U	T	H													144	ClearviewHwy-5-W 1613
100.8	115.2	128	139.8	150.8													106.4	ClearviewHwy-5-W 1613
C	i	c	e	r	o		A	v	e									
18	35.5	44.4	59.2	76.5	87.8		116.8	134.4	150.2									
1	2	7	t	h		S	t											
33.8	46.1	61.3	75.6	88.3		117.2	132.3											

GUIDE SIGN ILLUSTRATION
Exit Direction: 2 Shields, Cardinal, Street Name, Directional Arrow

[Not to scale]



NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAME.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

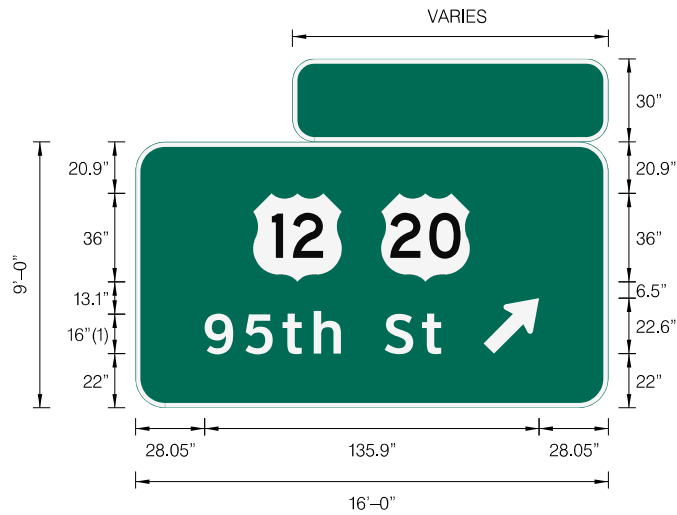
SIGN NUMBER	G-IT5D
MUTCD CITATION	2E.36
WIDTH x HGHT.	20'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	42.2	45.3	36	36
M1_4	0	94.2	45.3	36	36
AR_Type D	315	194.9	17.4	16	29

LETTER POSITIONS (X)													LENGTH	SERIES-SIZE
W	E	S	T										48.8	E 2000
145.2	163.3	173.9	185											15,12
9	5	t	h	S	t	r	e	e	t				152.4	ClearviewHwy-5-W
22.5	39.1	54.1	66.8	95.7	110.8	123.5	134.8	151.4	167					1613

GUIDE SIGN ILLUSTRATION
Exit Direction: 2 Shields, Street Name, Directional Arrow

[Not to scale]



NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAME.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

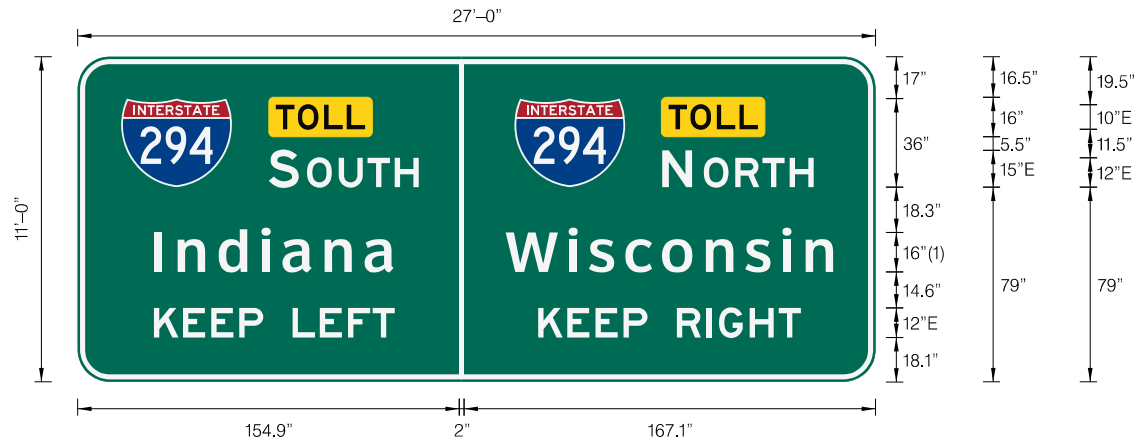
SIGN NUMBER	G-IT5E
MUTCD CITATION	2E.36
WIDTH x HGHT.	16'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	47.8	51.1	36	36
M1_4	0	99.8	51.1	36	36
AR_Type D	315	141.3	22	16	29

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
9	5	t	h		S	t											ClearviewHwy-5-W	
28.1	44.7	59.7	72.4		101.3	116.4										96.2	16/13	

GUIDE SIGN ILLUSTRATION
Keep Left / Keep Right Exit: Bipartite Shields, Tolls,
Cardinals, Control Destinations, Keep Left, Keep Right

[Not to scale]



SIGN NUMBER	G-IT6A
MUTCD CITATION	2D.45 & 2F.13
WIDTH x HGHT.	27'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	17.6	79	45	36
M1_1	0	177.4	79	45	36

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAMES.

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE
T	O	L	L		T	O	L	L			E 2000
80.5	89.4	100.1	109.3		240	248.9	259.6	268.8			36.3
											10
S	O	U	T	H							E 2000
77.6	93.2	106	117.8	128.8							60.9
											15,12
N	O	R	T	H							E 2000
237.4	254.2	267.1	278.1	289.1							61.5
											15,12
I	n	d	i	a	n	a					ClearviewHwy-5-W
31.2	40.6	57.2	74.7	83.2	100.2	116.5					97.2
											1613.1
W	i	s	c	o	n	s	i	n			ClearviewHwy-5-W
173.8	199.4	207.6	222.4	237.3	255.2	271.1	286.2	295.7			133.1
											1613.1
K	E	E	P		L	E	F	T			E 2000
30.9	42.8	54.2	65.6		87.3	98.4	109.8	119.7			97.8
											12
K	E	E	P		R	I	G	H	T		E 2000
187	198.9	210.3	221.7		243.4	255.5	260.4	272.9	284.7		106.7
											12

GUIDE SIGN ILLUSTRATION
Keep Right Exit: Shield, Toll, Cardinal, Control Destinations, Keep Right

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.

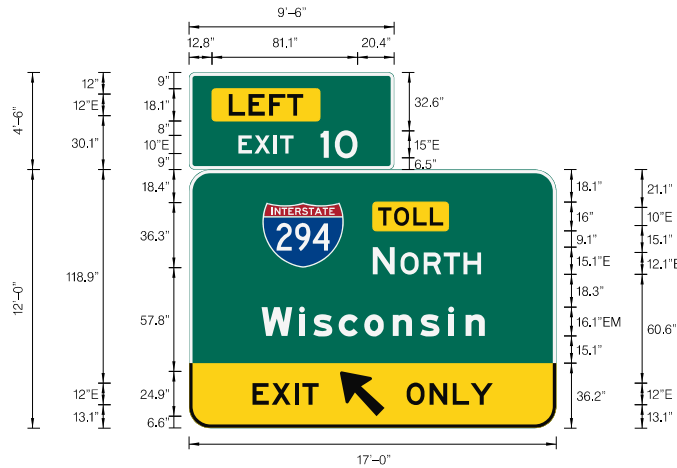
SIGN NUMBER	G-IT6B
MUTCD CITATION	2D.45 & 2F.13
WIDTH x HGHT.	13'-6" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	20.9	91.5	45	36

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
T	O	L	L														E 2000
83.9	92.8	103.5	112.7														36.3
N	O	R	T	H													E 2000
80.9	96.5	109.3	120.4	131.4													60.2
W	i	s	c	o	n	s	i	n									ClearviewHwy-5-W
15	40.5	48.6	63.2	78	95.8	111.6	126.5	135.9									132
K	E	E	P		R	I	G	H	T								E 2000
24.8	37	48.9	60.8		85	97.6	103	116.1	128.3								112.5

GUIDE SIGN ILLUSTRATION
Exit Only Panel: Left Exit Number Plaque, Shield, Toll, Cardinal,
Control Destination, Exit Only Panel with Diagonal Arrow

[Not to scale]



Dimensions are inches,tenths
 Letter locations are paneledge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME,
 NOT SMALLER THAN THE MINIMUM WIDTH OF EXIT ONLY PANEL: 14'-6".

SIGN NUMBER	G-IT7A
MUTCD CITATION	2E.24, 2E.31, 2E.36 & 2F.13
WIDTH x HGHT.	17'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	40.9	89.3	45	36
AR_Type A	45	84	6.7	20	31.5

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
L	E	F	T													41.5	E 2000 12
22.2	33.2	44.7	54.6													66.3	E 2000 10,15
E	X	I	T		1	0										36.4	E 2000 10
27.6	36.5	47.2	50.7		73.3	81.3										60.4	E 2000 15.1,12.1
T	O	L	L													124.4	EM 2000 16.1/12.1
105.3	114.2	124.9	134.2													36.8	E 2000 12
N	O	R	T	H												48	E 2000 12
102.3	117.8	130.7	141.9	153													
W	i	s	c	o	n	s	i	n									
40.4	61.3	69.2	83.4	97.6	113.5	128.9	144.5	154.2									
E	X	I	T														
35.4	46.1	59	63.2														
O	N	L	Y														
121.2	134.1	146.9	156.9														

GUIDE SIGN ILLUSTRATION
Exit Only Panel: 2 Shields, Cardinal, 2 Street Names,
Exit Only Panel with Diagonal Arrow - 1 Lane

[Not to scale]



NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAMES,
 NOT SMALLER THAN MINIMUM WIDTH OF EXIT ONLY PANEL: 14'-6".

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT7B
MUTCD CITATION	2E.24
WIDTH x HGHT.	18'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	33.3	112.2	36	36
M1_4	0	85.3	112.2	36	36
AR_Type A	315	89.9	6.6	20	31.5

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
E	A	S	T													46.4	E 2000 15,12
136.3	149.1	162.7	173.7														
9	5	t	h	S	t											96.2	ClearviewHwy-5-W 1613
59.4	76	91	103.7	132.6	147.7												
7	6	t	h	A	v	e										117.1	ClearviewHwy-5-W 1613
49.7	65.1	80.6	93.2	121.6	139.2	154.9											
E	X	I	T													36.7	E 2000 12
41.1	51.8	64.6	68.8														
O	N	L	Y													47.9	E 2000 12
126.7	139.5	152.3	162.3														

GUIDE SIGN ILLUSTRATION
Exit Only Panel: 2 Shields, Cardinal, 2 Street Names,
Exit Only Panel with 2 Diagonal Arrows

[Not to scale]



SIGN NUMBER	G-IT7C
MUTCD CITATION	2E.24
WIDTH x HGHT.	18'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	33.3	112.2	36	36
M1_4	0	85.3	112.2	36	36
AR_Type A	315	22.9	6.6	20	31.5
AR_Type A	315	168.3	6.6	20	31.5

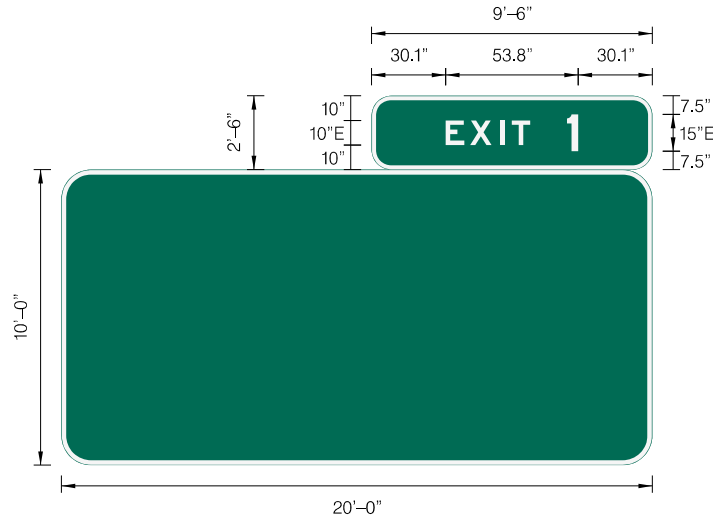
Dimensions are inches,tenths
 Letter locations are paneledge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAMES,
 NOT SMALLER THAN MINIMUM WIDTH OF EXIT ONLY PANEL: 14'-6".

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
E	A	S	T													46.4	E 2000 15,12
136.3	149.1	162.7	173.7														
9	5	t	h	S	t											96.2	ClearviewHwy-5-W 1613
59.4	76	91	103.7	132.6	147.7												
7	6	t	h	A	v	e										117.1	ClearviewHwy-5-W 1613
49.7	65.1	80.6	93.2	121.6	139.2	154.9											
E	X	I	T	O	N	L	Y									96.6	E 2000 12
59.7	70.4	83.2	87.4	108.4	121.3	134.1	144.1										

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exit, Single Number

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

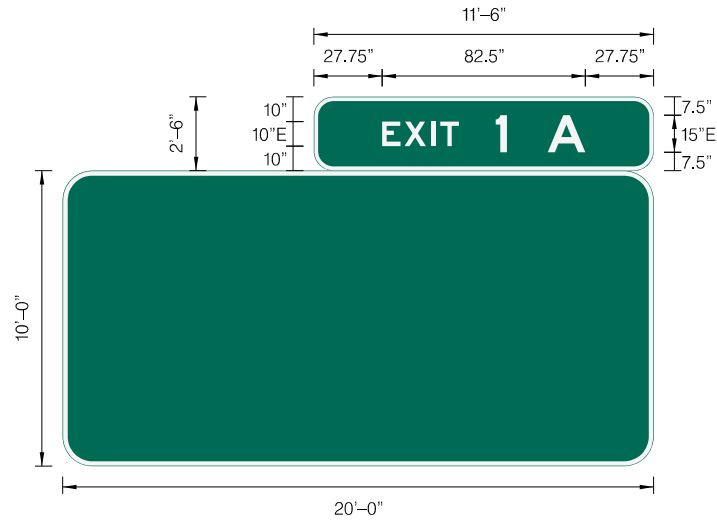
SIGN NUMBER	G-IT8A
MUTCD CITATION	2E.31
WIDTH x HGHT.	9'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
E	X	I	T		1													E 2000
12.1	22	34.2	38.9		61.4													53.8 10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exit, Single Number, Multi-Exit Interchange

[Not to scale]



SIGN NUMBER	G-IT8B
MUTCD CITATION	2E.31
WIDTH x HGHT.	11'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

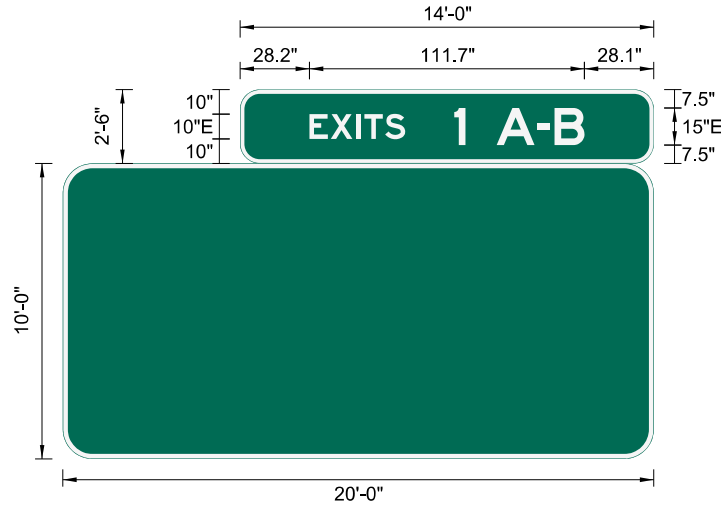
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE AT THE TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
E	X	I	T		1		A										E 2000
12.8	21.8	32.7	36.4		58.9		80										82.5 10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exits, Single Number, Multi-Exit Interchange

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

IF MAINLINE MILEPOST NUMBERING IS DECREASING, SIGN WILL READ 1 B-A.

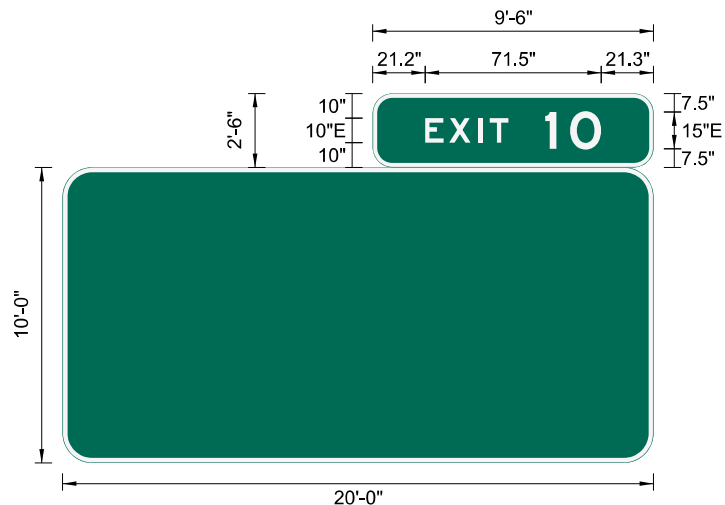
SIGN NUMBER	G-IT8C
MUTCD CITATION	2E.31
WIDTH x HGHT.	14'-0" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE													
E	X	I	T		1		A	-	B													E 2000		
12.2	21.4	32.5	36.4		63.9		86.9	103.5	111.7														111.7	10,15

GUIDE SIGN ILLUSTRATION Exit Number Plaque: Top Right, Exit, Double Number

[Not to scale]



Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

NOTE:
INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

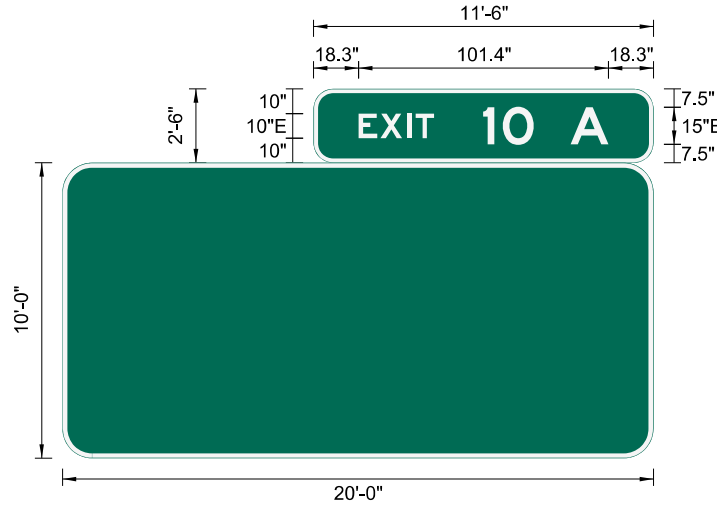
SIGN NUMBER	G-IT8D
MUTCD CITATION	2E.31
WIDTH x HGHT.	9'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE			
E	X	I	T		1	0														E 2000	
12.3	22	34	38.5		61	71.2														71.5	10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exit, Double Number, Multi-Exit Interchange

[Not to scale]



SIGN NUMBER	G-IT8E
MUTCD CITATION	2E.31
WIDTH x HGHT.	11'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

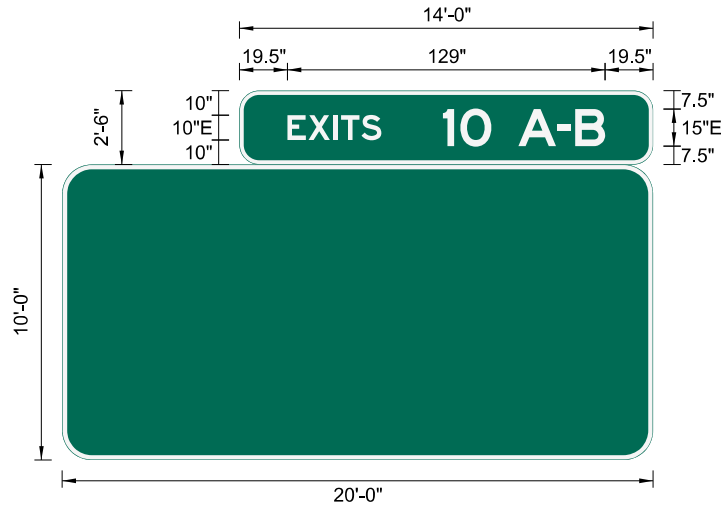
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANDE GUIDE AND EXIT DIRECTION SIGN.

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
E	X	I	T		1	0		A										E 2000
12.3	21.2	31.9	35.4		62.9	70.8		98.4										101.4 10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exits, Double Number, Multi-Exit Interchange

[Not to scale]



SIGN NUMBER	G-IT8F
MUTCD CITATION	2E.31
WIDTH x HGHT.	14'-0" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

NOTES:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

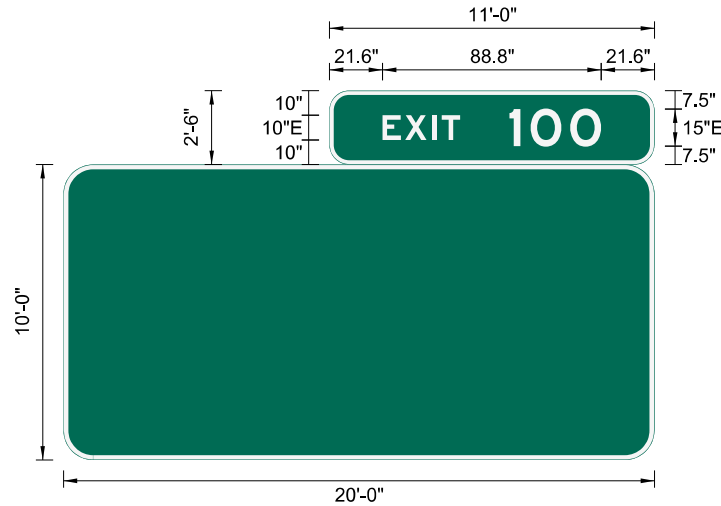
IF MAINLINE MILEPOST NUMBERING IS DECREASING, SIGN WILL READ 10 B-A.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
E	X	I	T		1	0		A	-	B								E 2000	
12	21	31.8	35.4		67.9	76.1		104.6	121	128.9								129 10,15	

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exit, Triple Number

[Not to scale]



SIGN NUMBER	G-IT8G
MUTCD CITATION	2E.31
WIDTH x HGHT.	11'-0" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

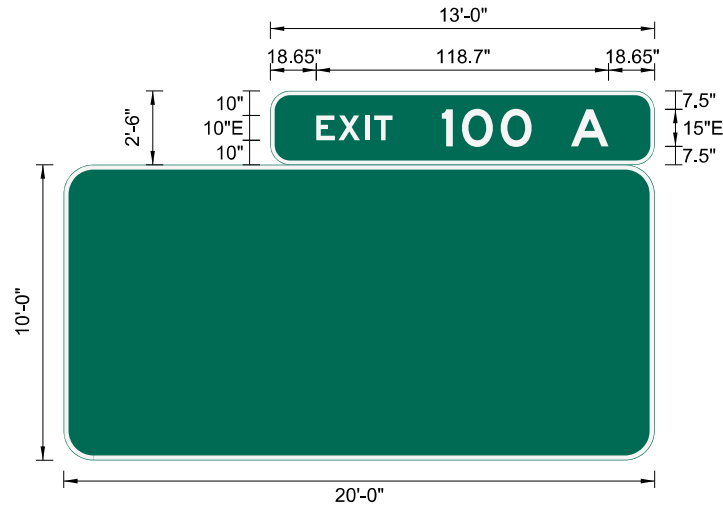
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
E	X	I	T		1	0	0										E 2000
12.1	21.2	32.3	36.1		63.6	72.2	88.3										88.8 10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exit, Triple Number, Multi-Exit Interchange

[Not to scale]



SIGN NUMBER	G-IT8H
MUTCD CITATION	2E.31
WIDTH x HGHT.	13'-0" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

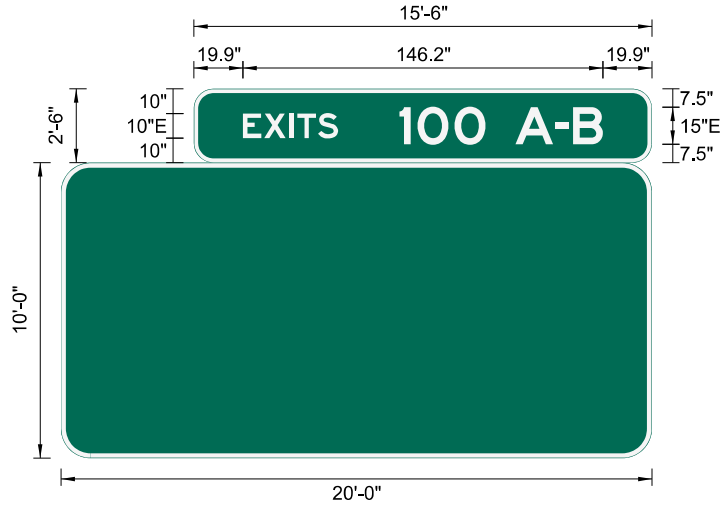
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE	
E	X	I	T		1	0	0		A			E 2000
12.7	21.6	32.5	36.1		63.6	71.7	87.5		116.1			118.7 10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exits, Triple Number, Multi-Exit Interchange

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

NOTES:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.
 IF MAINLINE MILEPOST NUMBERING IS DECREASING, SIGN WILL READ 100 B-A.

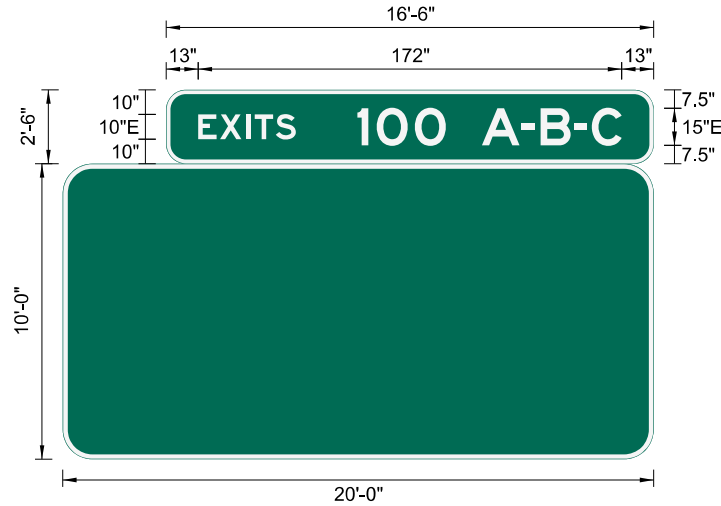
SIGN NUMBER	G-IT81
MUTCD CITATION	2E.31
WIDTH x HGHT.	15'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)												LENGTH	SERIES-SIZE									
E	X	I	T		1	0	0		A	-	B									E 2000		
12.4	21.5	32.4	36.1		68.6	76.9	92.8		122.1	138.5	146.5									146.2	10,15	

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Right, Exits, Triple Number, Multi-Exit Interchange

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.
 IF MAINLINE MILEPOST NUMBERING IS DECREASING, SIGN WILL READ 100 C-B-A.

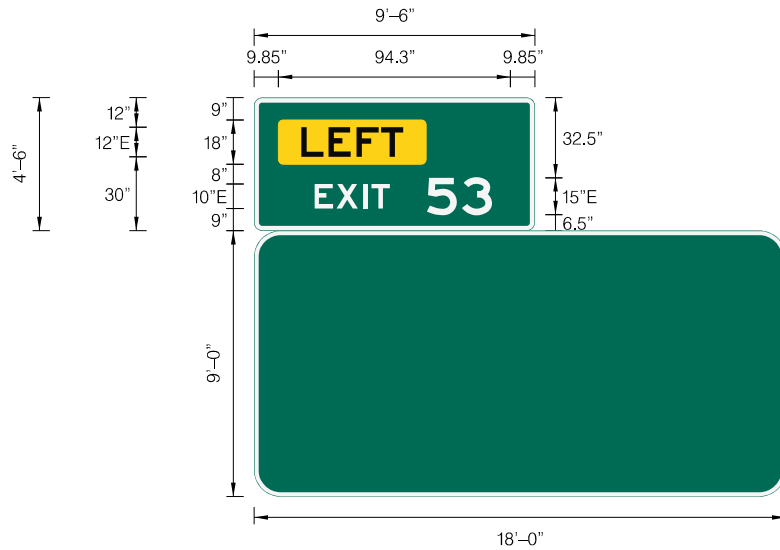
SIGN NUMBER	G-IT8J
MUTCD CITATION	2E.31
WIDTH x HGHT.	16'-6" x 2'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE			
E	X	I	T		1	0	0		A	-	B	-	C				E 2000	
13	22.2	33.4	37.4		69.9	78.7	95		126.3	142.9	151.2	165.2	172.9				172	10,15

GUIDE SIGN ILLUSTRATION
Exit Number Plaque: Top Left, LEFT, Exit, Double Number

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 INTERCHANGE EXIT NUMBERS SHALL BE DISPLAYED ON A SEPARATE
 PLAQUE ON TOP OF EACH ADVANCE GUIDE AND EXIT DIRECTION SIGN.

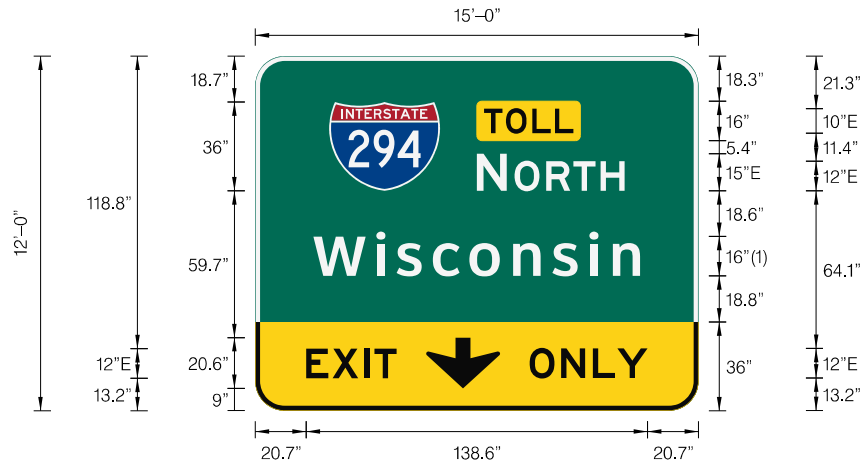
SIGN NUMBER	G-IT8K
MUTCD CITATION	2E.31, 2E.33 & 2E.36
WIDTH x HGHT.	9'-6" x 4'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	8"
MOUNTING	Supplemental
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
L	E	F	T															41.4	E 2000 12
7.3	18.4	29.8	39.7															72	E 2000 10,15
E	X	I	T		5	3													
13.6	22.5	33.2	36.7		59.2	73.5													

GUIDE SIGN ILLUSTRATION
Exit Only Panel with Down Arrow: Shield, Toll, Cardinal, Control Destination,
Exit Only Panel for Dropped Lane and Auxiliary Exit Only Lane

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME,
 NOT SMALLER THAN MINIMUM WIDTH OF EXIT ONLY PANEL: 14'-6"
 ARROW TO BE CENTERED OVER LANE.

SIGN NUMBER	G-IT9A
MUTCD CITATION	2E.24 & 2F.13
WIDTH x HGHT.	15'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective COLOR: Black, White / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	30	89.3	45	36
ARDOWN	0	69.4	9.1	30	20.6

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
T	O	L	L													36.3	D 2000 10
92.9	101.8	112.5	121.7														
N	O	R	T	H												59.9	E 2000 15,12
90	105.3	118.2	129.2	140.3													
W	i	s	c	o	n	s	i	n								132.6	ClearviewHwy-5-W 1613
23.7	49.2	57.4	72.1	87	104.8	120.7	135.7	145.2									
E	X	I	T													36.7	E 2000 12
20.7	31.4	44.2	48.4														
O	N	L	Y													47.9	E 2000 12
111.4	124.3	137.1	147.1														

GUIDE SIGN ILLUSTRATION
Exit Only Panel with Down Arrows: Shield, Street Name,
Exit Only Panel for Dropped Lanes and Auxiliary Exit Only Lanes

[Not to scale]



NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAME, NOT SMALLER
 THAN MINIMUM EXIT ONLY PANEL with 2 PULL-THRU DOWN ARROWS: 18'-6"
 ARROWS TO BE CENTERED OVER 2 LANES OF TRAFFIC.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT9B
MUTCD CITATION	2E.24
WIDTH x HGHT.	18'-6" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	93	81	36	36
ARDOWN	0	20.7	8.8	30	20.6
ARDOWN	0	171.3	8.8	30	20.6

LETTER POSITIONS (X)													LENGTH	SERIES-SIZE									
1	5	9	t	h		S	t	r	e	e	t										ClearviewHwy-5-W		
28.4	41.2	57.2	72.9	85.5		114.4	129.5	142.2	153.5	170.1	185.8										165.3	1613	
E	X	I	T		O	N	L	Y														E 2000	
62.7	73.4	86.2	90.4		111.4	124.3	137.1	147.1														96.6	12

GUIDE SIGN ILLUSTRATION
Exit Only Panel with Down Arrow: 2 Shields, 2 Street Names, X Mile,
Exit Only Panel for Dropped Lane and Auxiliary Exit Only Lane

[Not to scale]



SIGN NUMBER	G-IT9C
MUTCD CITATION	2E.24
WIDTH x HGHT.	17'-0" x 16'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	58.1	134.5	36	36
M1_4	0	110	134.5	36	36
ARDOWN	0	81.5	8.5	30	20.5

Dimensions are inches,tenths
 Letter locations are paneledge to lower left corner

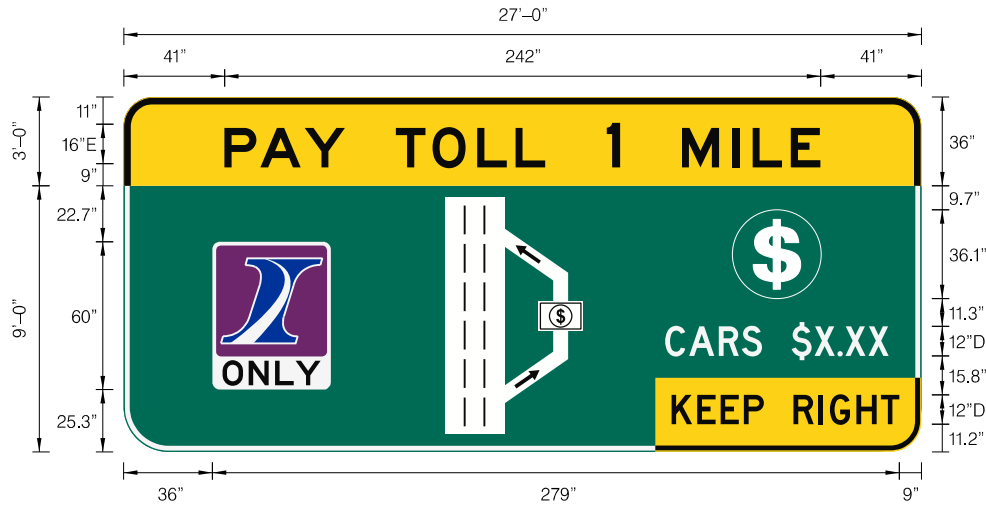
NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF STREET NAMES,
 NOT SMALLER THAN MINIMUM WIDTH OF EXIT ONLY PANEL: 14'-6".

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE	
9	5	t	h		S	t	r	e	e	t						ClearviewHwy-5-W
26	42.6	57.6	70.2		99	114.1	126.7	138	154.6	170.2					152.1	1613
7	6	t	h		A	v	e	n	u	e						ClearviewHwy-5-W
18.3	33.7	49.1	61.7		90.1	107.6	123.3	140.5	157.6	173.9					167.4	1613
1		M	I	L	E											E 2000
75.8		95.2	107.2	111.6	120.8										52.5	15,10
E	X	I	T													E 2000
32.9	43.5	56.3	60.5												36.6	12
O	N	L	Y													E 2000
123.4	136.2	149	158.9												47.8	12

GUIDE SIGN ILLUSTRATION

Mainline Plaza Advance: Pay Toll 1 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT10A
MUTCD CITATION	2F.06 & 2F.13
WIDTH x HGHT.	27'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

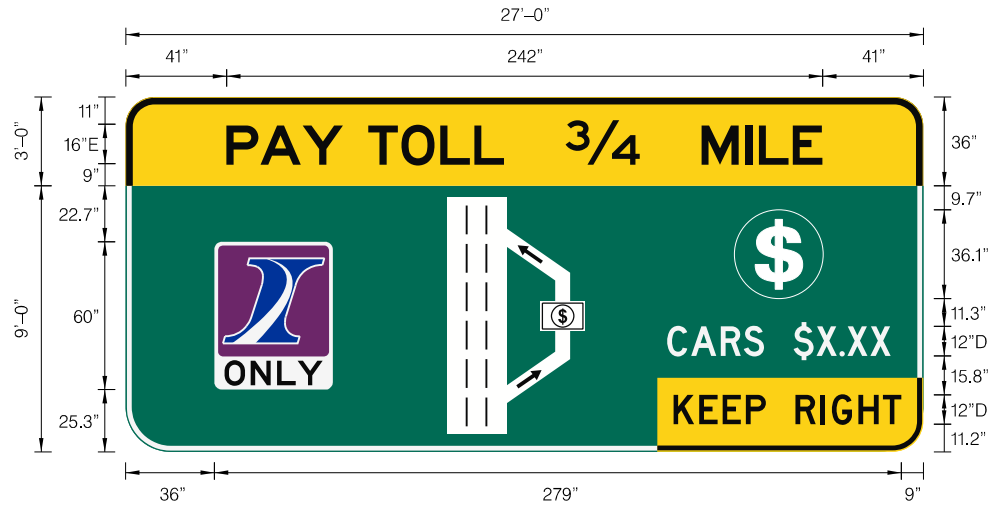
SYMBOL	ROT	X	Y	WID	HT
Cash_White	0	247.3	62.2	36	36
IPass Only	0	36	25.3	48	60
Plaza Diagram	0	145	6	56	96

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE							
P	A	Y		T	O	L	L		1		M	I	L	E					E 2000			
41	55.5	73		112.2	127.8	148.4	162.8		196.2		228.3	249.3	258.8	273.2					242	16,18		
C	A	R	S		\$	X	.	X	X											D 2000		
220.6	231.3	241.5	250.7		272.1	281.3	290.5	294.5	305.6											92.5	12	
K	E	E	P		R	I	G	H	T												D 2000	
222.5	233	242.5	251.9		272.1	282.3	286.9	297.7	307.6												92.5	12

GUIDE SIGN ILLUSTRATION

Mainline Plaza Advance: Pay Toll 3/4 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT10B
MUTCD CITATION	2F.06 & 2F.13
WIDTH x HGHT.	27'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

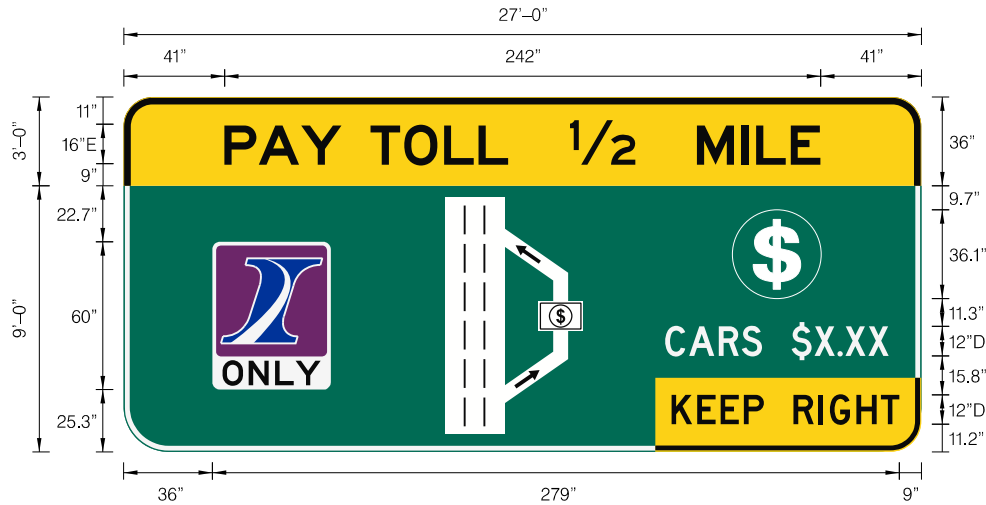
SYMBOL	ROT	X	Y	WID	HT
Cash_White	0	247.3	62.2	36	36
IPass Only	0	36	25.3	48	60
Plaza Diagram	0	145	6	56	96

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE		
P	A	Y		T	O	L	L	3/4		M	I	L	E			E 2000	
41	55.5	73		112.2	127.8	148.4	162.8	196.2		228.3	249.3	258.8	273.2			242	16,18
C	A	R	S		\$	X	.	X	X							D 2000	
220.6	231.3	241.5	250.7		272.1	281.3	290.5	294.5	305.6							92.5	12
K	E	E	P		R	I	G	H	T							D 2000	
222.5	233	242.5	251.9		272.1	282.3	286.9	297.7	307.6							92.5	12

GUIDE SIGN ILLUSTRATION

Mainline Plaza Advance: Pay Toll 1/2 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT10C
MUTCD CITATION	2F.06 & 2F.13
WIDTH x HGHT.	27'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Yellow, Green
LEGEND/BORDER	TYPE: Reflective COLOR: Black, White / Black, White

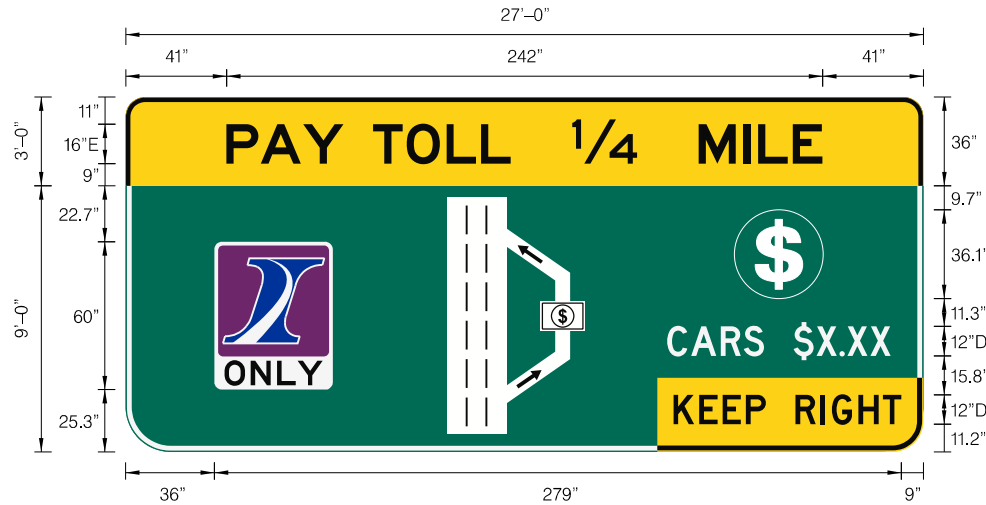
SYMBOL	ROT	X	Y	WID	HT
Cash_White	0	247.3	62.2	36	36
IPass Only	0	36	25.3	48	60
Plaza Diagram	0	145	6	56	96

LETTER POSITIONS (X)															LENGTH	SERIES-SIZE										
P	A	Y		T	O	L	L		1/2		M	I	L	E											E 2000	
41	55.5	73		112.2	127.8	148.4	162.8		196.2		228.3	249.3	258.8	273.2											242	16,18
C	A	R	S		\$	X	.	X	X																	D 2000
220.6	231.3	241.5	250.7		272.1	281.3	290.5	294.5	305.6																92.5	12
K	E	E	P		R	I	G	H	T																	D 2000
222.5	233	242.5	251.9		272.1	282.3	286.9	297.7	307.6																92.5	12

GUIDE SIGN ILLUSTRATION

Mainline Plaza Advance: Pay Toll 1/4 Mile, I-Pass Pictograph, Only, Plaza Pictograph, Cash Pictograph, Cars \$X.XX, Keep Right

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

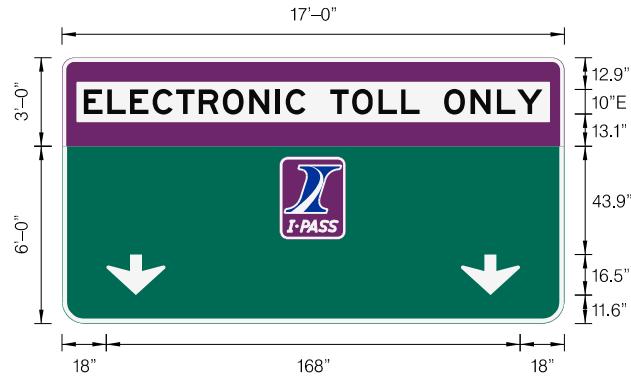
SIGN NUMBER	G-IT10D
MUTCD CITATION	2F.06 & 2F.13
WIDTH x HGHT.	27'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

SYMBOL	ROT	X	Y	WID	HT
Cash_White	0	247.3	62.2	36	36
IPass Only	0	36	25.3	48	60
Plaza Diagram	0	145	6	56	96

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE						
P	A	Y		T	O	L	L		14		M	I	L	E						E 2000	
41	55.5	73		112.2	127.8	148.4	162.8		196.2		228.3	249.3	258.8	273.2						242	16,18
C	A	R	S		\$	X	.	X	X											D 2000	
220.6	231.3	241.5	250.7		272.1	281.3	290.5	294.5	305.6											92.5	12
K	E	E	P		R	I	G	H	T											D 2000	
222.5	233	242.5	251.9		272.1	282.3	286.9	297.7	307.6											92.5	12

GUIDE SIGN ILLUSTRATION Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 2 Pull-Through Arrows

[Not to scale]



SIGN NUMBER	G-IT11A
MUTCD CITATION	2F.15
WIDTH x HGHT.	17'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /White

SYMBOL	ROT	X	Y	WID	HT
IPass	0	88.4	34.2	26.9	33.6
ARROWN	0	18	11.6	24	16.5
ARROWN	0	162	11.6	24	16.5

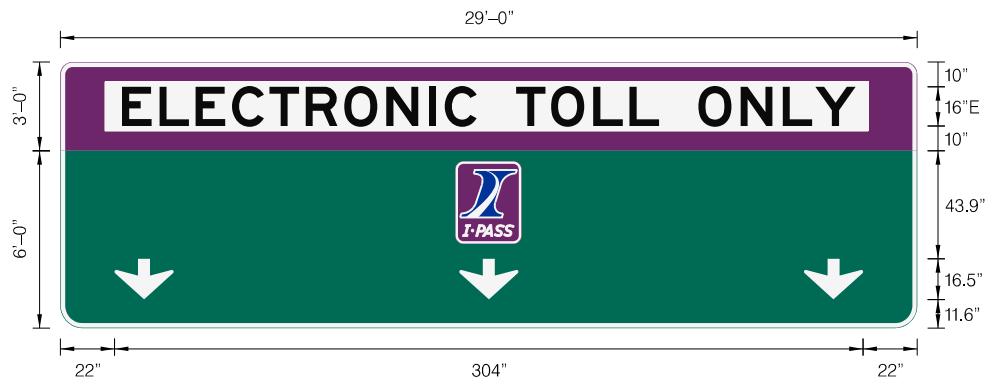
Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

NOTE:
ARROWS TO BE CENTERED OVER TRAFFIC LANES.
SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES (V.I.F.).

LETTER POSITIONS (X)																			LENGTH	SERIES SIZE			
E	L	E	C	T	R	O	N	I	C		T	O	L	L		O	N	L	Y			E 2000	
25	40.2	55	69.7	84.9	99.6	115.3	132.4	149.5	156.1		185	199.3	216.4	231.1		259.1	276.2	293.4	306.6		186.2	10	

GUIDE SIGN ILLUSTRATION
Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 3 Pull-Through Arrows

[Not to scale]



SIGN NUMBER	G-IT11B
MUTCD CITATION	2F.15
WIDTH x HGHT.	29'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /White

SYMBOL	ROT	X	Y	WID	HT
IPass	0	160.4	34.2	26.9	33.6
ARROWN	0	18	11.6	24	16.5
ARROWN	0	162	11.6	24	16.5
ARROWN	0	306	11.6	24	16.5

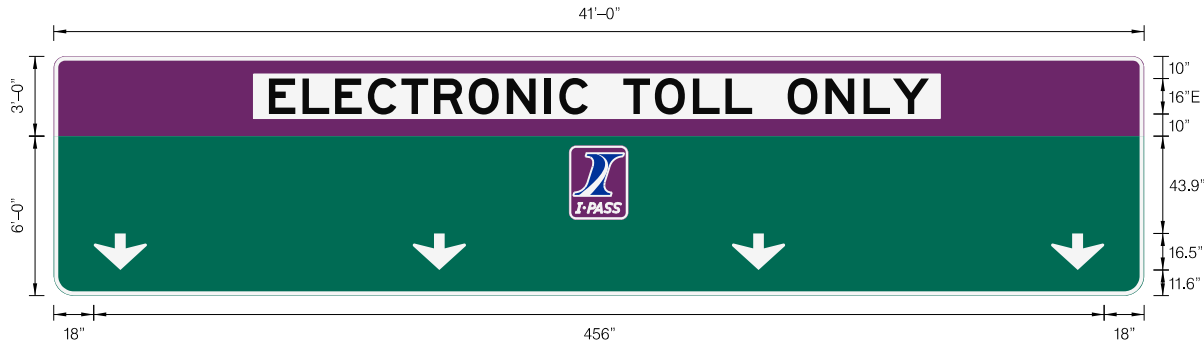
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES (V.I.F.).

LETTER POSITIONS (X)																			LENGTH	SERIES SIZE			
E	L	E	C	T	R	O	N	I	C		T	O	L	L		O	N	L	Y			E 2000	
25	40.2	55	69.7	84.9	99.6	115.3	132.4	149.5	156.1		185	199.3	216.4	231.1		259.1	276.2	293.4	306.6		297.9	16	

GUIDE SIGN ILLUSTRATION
Mainline Plaza Pull-Through: I-Pass Pictograph, ETC Only, 4 Pull-Through Arrows

[Not to scale]



SIGN NUMBER	G-IT11C
MUTCD CITATION	2F.15
WIDTH x HGHT.	41'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /White

SYMBOL	ROT	X	Y	WID	HT
IPass	0	232.4	34.2	26.9	33.6
ARDOWN	0	18	11.6	24	16.5
ARDOWN	0	162	11.6	24	16.5
ARDOWN	0	306	11.6	24	16.5
ARDOWN	0	450	11.6	24	16.5

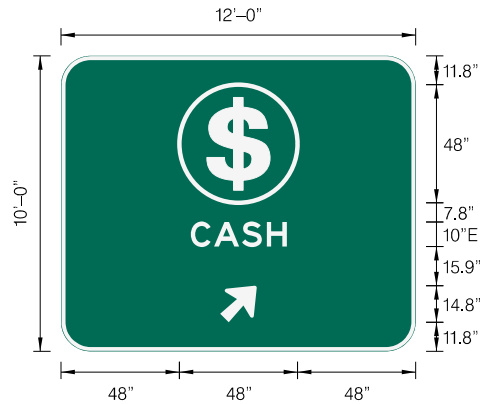
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES (V.I.F.).

LETTER POSITIONS (X)																			LENGTH	SERIES SIZE			
E	L	E	C	T	R	O	N	I	C		T	O	L	L		O	N	L	Y			E 2000	
25	40.2	55	69.7	84.9	99.6	115.3	132.4	149.5	156.1		185	199.3	216.4	231.1		259.1	276.2	293.4	306.6		297.9	16	

GUIDE SIGN ILLUSTRATION
Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, Directional Arrow

[Not to scale]



SIGN NUMBER	G-IT11D
MUTCD CITATION	2F.15
WIDTH x HGHT.	12'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
Cash Symbol	0	48	60.2	48	48
AR_Type B	0	60	11.8	24	14.8

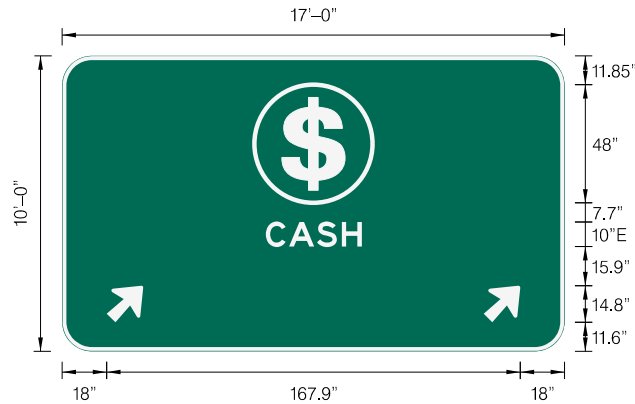
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 ARROW TO BE CENTERED OVER TRAFFIC LANE.
 SIGN WIDTH MAY VARY TO MATCH ARROW WITH LANE (V.I.F.).

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE	
C	A	S	H															E 2000	
156	163	181	196															40	10

GUIDE SIGN ILLUSTRATION
Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, 2 Directional Arrows

[Not to scale]



SIGN NUMBER	G-IT11E
MUTCD CITATION	2F.15
WIDTH x HGHT.	17'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
Cash Symbol	0	80	60	48	48
AR_Type B	0	18	11.6	24	14.8
AR_Type B	0	162	11.6	24	14.8

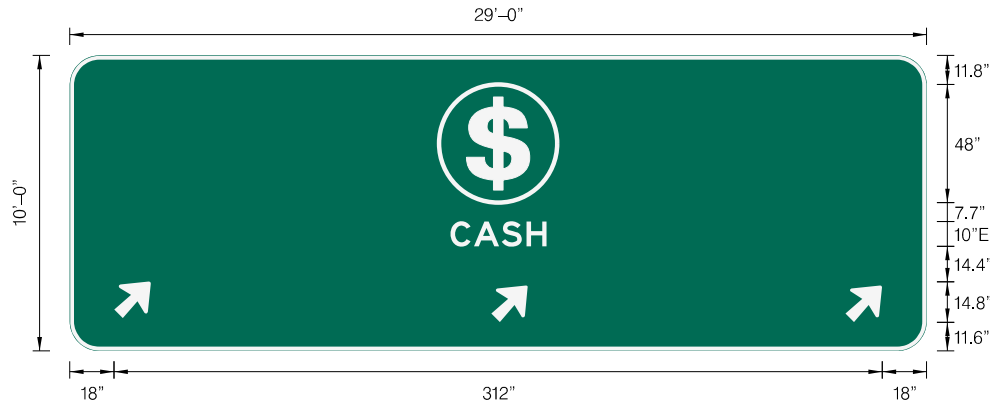
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES (V.I.F.).

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
C	A	S	H														E 2000	
156	163	181	196														40	10

GUIDE SIGN ILLUSTRATION
Mainline Plaza Exit to Cash Lanes: Cash Pictograph, Cash, 3 Directional Arrows

[Not to scale]



SIGN NUMBER	G-IT11F
MUTCD CITATION	2F.15
WIDTH x HGHT.	29'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
Cash Symbol	0	152	60	48	48
AR_Type B	0	18	11.6	24	14.8
AR_Type B	0	162	11.6	24	14.8
AR_Type B	0	306	11.6	24	14.8

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES (V.I.F.).

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
C	A	S	H														E 2000	
156	163	181	196														40	10

GUIDE SIGN ILLUSTRATION
Mainline Cash Plaza IPO Lane: I-Pass Pictograph, Only, Left Lane

[Not to scale]



SIGN NUMBER	G-IT12A
MUTCD CITATION	2F.13
WIDTH x HGHT.	12'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
I-Pass Only	0	48	42.8	48	60

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
L	E	F	T		L	A	N	E									D 2000	
15.4	27.7	40.3	51.2		77.1	88	104	118.7									113.3	16

GUIDE SIGN ILLUSTRATION
Mainline Cash Plaza IPO Lanes: I-Pass Pictograph, Only, Left Lanes

[Not to scale]



SIGN NUMBER	G-IT12B
MUTCD CITATION	2F.13
WIDTH x HGHT.	12'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

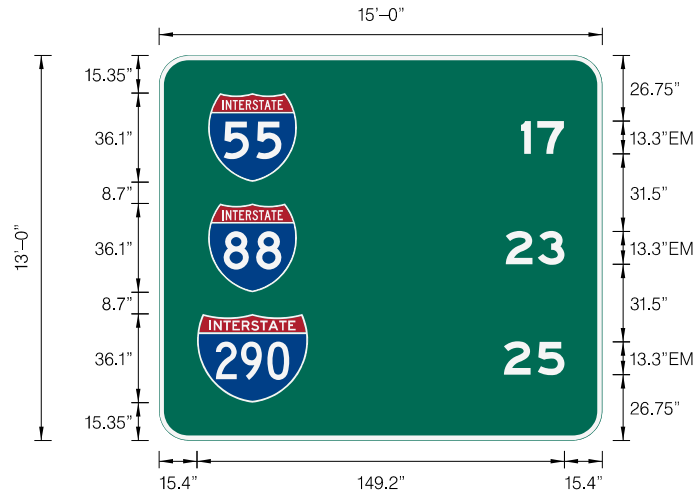
SYMBOL	ROT	X	Y	WID	HT
I-Pass Only	0	48	42.8	48	60

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES-SIZE	
L	E	F	T		L	A	N	E	S			D 2000
15.4	27.7	40.3	51.2		77.1	88	104	118.7	132.3			125.8 16

GUIDE SIGN ILLUSTRATION
Post-Interchange Distance: Shields, XX Miles

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT13A
MUTCD CITATION	2E.39
WIDTH x HGHT.	15'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	19.9	105	36.1	36.1
M1_1	0	19.9	60.2	36.1	36.1
M1_1	0	15.4	15.3	45.1	36.1

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
1	7																EM	2000
147	153.6																17.5	13.3
2	3																EM	2000
140.9	153.8																23.7	13.3
2	5																EM	2000
140.1	153.8																24.5	13.3

GUIDE SIGN ILLUSTRATION
Post-Interchange Distance: Shields and/or Control Destination, XX Miles

[Not to scale]



SIGN NUMBER	G-IT13B
MUTCD CITATION	2E.39
WIDTH x HGHT.	Varies x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

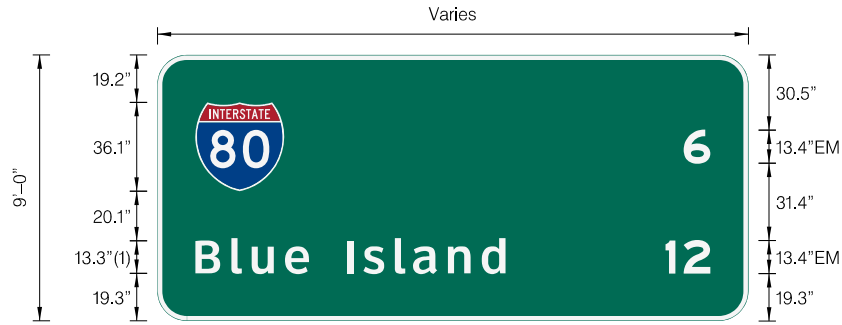
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	15.4	105	36.1	36.1
M1_1	0	15.4	60.2	36.1	36.1

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
6																	10.9	EM 2000 13.4
177.6																	18.2	EM 2000 13.4
1	2																80.5	ClearviewHwy-5-W 13.310.8
170.4	177.8																18.2	EM 2000 13.4
I	n	d	i	a	n	a												
15.4	23.2	36.9	51.4	58.5	72.6	86.1												
1	5																	
170.4	177.8																	

GUIDE SIGN ILLUSTRATION
Post-Interchange Distance: Shields and/or Road Name, XX Miles

[Not to scale]



SIGN NUMBER	G-IT13C
MUTCD CITATION	2E.39
WIDTH x HGHT.	Varies x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	15.4	52.7	36.1	36.1

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
6																10.9	EM 2000 13.4
213.7																	
B	I	u	e		I	s	I	a	n	d						126	ClearviewHwy-5-W 13.3/10.8
15.4	30	38.2	51.8		76.9	83.7	96.4	103.8	118	131.7							
1	2															18.2	EM 2000 13.4
206.4	213.7																

GUIDE SIGN ILLUSTRATION

Major Interchange Option Lane Exit: Bipartite Shields, Toll, Cardinals, Control Destinations, X Mile, Overhead Arrows-per-Lane, Exit, Only

[Not to scale]



- NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAMES.
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES.

Dimensions are inches.tenths
 Letter locations are paneledge to lower left corner

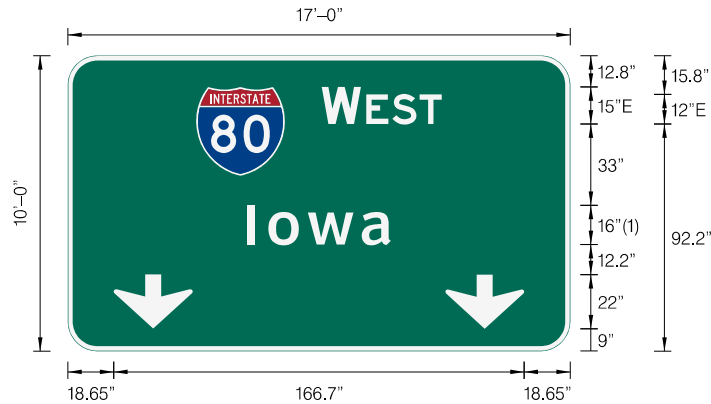
SIGN NUMBER	G-IT14A
MUTCD CITATION	2E.21
WIDTH x HGHT.	38'-0" x 16'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	273.2	140	36	36
M1_1	0	18	140	36	36
THRU	0	20.5	14.5	16	50.3
THRU	0	129.6	14.5	16	50.3
THRU_RIGHT	0	238.6	14.5	42.7	50.3
RIGHT_ONLY	0	370.7	14.5	30.4	37.7

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE																
E	X	I	T		X	X												73.8	E 2000 10,15																
20.1	29	39.7	43.2		65.7	80.9																													
T	O	L	L															36.3	E 2000 10																
70	78.9	89.6	98.8																																
C	A	R	D	I	N	A	L		C	A	R	D	I	N	A	L		93.6	E 2000 15,12																
321.8	336.2	350.5	362.6	375.1	380.4	392.1	406.4		67	80.7	95	107.1	119.6	124.9	136.6	150.9																			
C	o	n	t	r	o	I			C	i	t	y		C	o	n	t	r	o	I														163.3	ClearviewHwy-5-W 1613
45.9	63.1	80.9	96.5	109.1	120.5	138.3			160.5	178	185.9	196.7		307.4	324.6	342.4	358	370.7	382	399.8															
X		M	I	L	E																												61.2	E 2000 15,10	
329.8		357.9	369.9	374.3	383.5																														
E	X	I	T																														30	D 2000 12	
321	329.6	339.8	343.6																																
O	N	L	Y																														40.7	D 2000 12	
390.7	401.8	412.9	421																																

GUIDE SIGN ILLUSTRATION
Mainline Pull-Through Lane: Shield, Cardinal, Control Destination, 2 Pull-Through Arrows

[Not to scale]



SIGN NUMBER	G-IT15A
MUTCD CITATION	2E.12 & 2E.19
WIDTH x HGHT.	17'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	52.1	71.2	36	36
ARDOWN	0	18.7	9.1	32	22
ARDOWN	0	153.3	9.1	32	22

NOTES:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES.

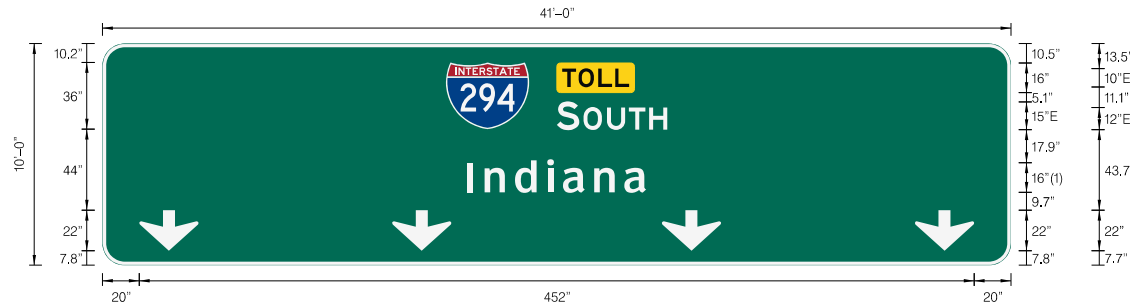
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
W	E	S	T													48.8	E 2000 15,12
103.1	121.2	131.9	142.9													58.5	ClearviewHwy-5-W 16/13
I	o	w	a														
72.7	81.5	97.5	119.4														

GUIDE SIGN ILLUSTRATION

Mainline Pull-Through Lane: Shield, Toll, Cardinal, Control Destination, 4 Pull-Through Arrows

[Not to scale]



SIGN NUMBER	G-IT15B
MUTCD CITATION	2E.12 & 2E.19 & 2F.13
WIDTH x HGHT.	41'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	186	73.8	45	36
ARROW	0	20	7.8	32	22
ARROW	0	156.9	7.8	32	22
ARROW	0	303	7.8	32	22
ARROW	0	440	7.8	32	22

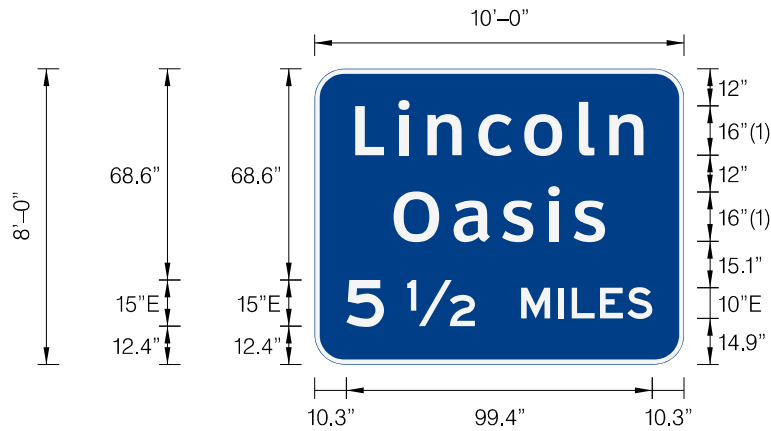
NOTES:
 ARROWS TO BE CENTERED OVER TRAFFIC LANES.
 SIGN WIDTH MAY VARY TO MATCH ARROWS WITH LANES.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
T	O	L	L														36.3	E 2000 10
248.9	257.8	268.5	277.7														59.8	E 2000 15,12
S	O	U	T	H													96.9	ClearviewHwy-5-W 1613
246	260.4	273.3	285	296.1														
I	n	d	i	a	n	a												
197.6	206.9	223.5	240.8	249.4	266.4	282.6												

GUIDE SIGN ILLUSTRATION
Oasis Distance: Name Oasis, XX Miles

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT16
MUTCD CITATION	2I.05
WIDTH x HGHT.	10'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
L	i	n	c	o	l	n											ClearviewHwy-5-W
13.2	27.2	36.7	53.2	68.1	85.9	95.7											93.7 1613
O	a	s	i	s													ClearviewHwy-5-W
25.6	45.2	60.9	75.9	84.1													68.7 1613
5	12		M	I	L	E	S										E 2000
10.3	30		67.1	79.1	83.5	92.7	101.6										99.4 15,10

GUIDE SIGN ILLUSTRATION

**Oasis Advance: Name of Oasis, Prime Food Symbol,
Prime Fuel Symbol, Open 24 Hours, XX Miles**

[Not to scale]



Note:

1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION

Oasis Exit Direction: Name of Oasis, Prime Food Symbol, Prime Fuel Symbol, Directional Arrow, Open 24 Hours

[Not to scale]

SIGN NUMBER

G-IT18



Note:

1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
Oasis Exit Gore: Oasis, Directional Arrow
[Not to scale]

SIGN NUMBER

G-IT19



Note:

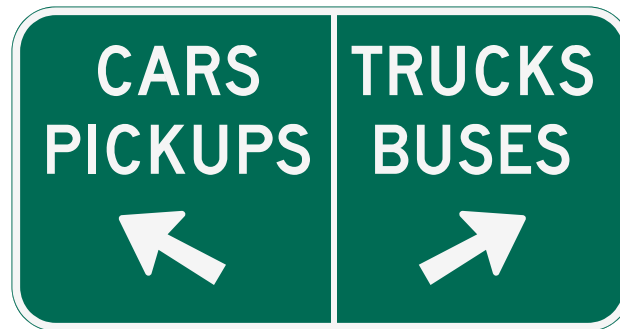
1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
Oasis Supplemental: Cars Pickups, Trucks Buses,
Dual Upward Directional Arrows

SIGN NUMBER

G-IT20A

[Not to scale]



Note:

1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
Oasis Supplemental: Phones, Food, Fuel, Food,
Dual Upward Directional Arrows

SIGN NUMBER

G-IT20B

[Not to scale]



Note:

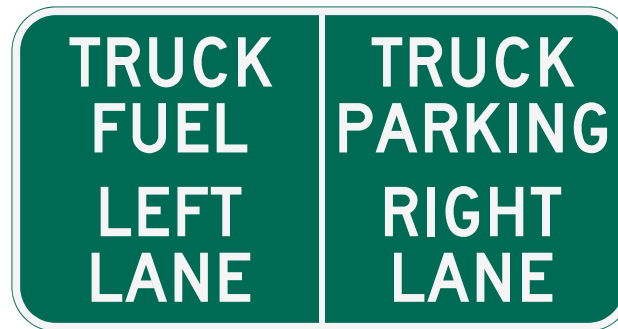
1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
Oasis Supplemental: Truck Fuel, Left Lane,
Truck Parking, Right Lane

SIGN NUMBER

G-IT20C

[Not to scale]



Note:

1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
To Tollway: To, Tollway, Directional Arrow
[Not to scale]

SIGN NUMBER

G-IT21



Note:

1. Sign panel shown is for information only.
2. Sizes for General Service signs shall be as per MUTCD, Section 2I.
3. Leasee responsible for placement, fabrication, and maintenance of all non-Tollway signs within an Oasis Facility.

GUIDE SIGN ILLUSTRATION
Supplemental Mainline: 2 Community Names,
Next Right, Community Name, Second Right

[Not to scale]



SIGN NUMBER	G-IT22A
MUTCD CITATION	2E.35
WIDTH x HGHT.	14'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF COMMUNITY NAMES.

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE				
R	o	b	b	i	n	s												ClearviewHwy-5-W	
32.1	48.8	66.6	83.6	100.3	109.8	125.7												103.9	1613
C	r	e	s	t	w	o	o	d											ClearviewHwy-5-W
15	32.9	44.2	60.2	73.9	84.9	107	124.2	141.4										138	1613
N	E	X	T		R	I	G	H	T										E 2000
30.7	43.6	54.2	66		87	99.1	104	116.5	128.3									106.6	12
A	I	s	i	p															ClearviewHwy-5-W
51.9	71.4	80	95	104.5														64.2	1613
S	E	C	O	N	D		R	I	G	H	T								E 2000
21.1	34	44.6	56.4	65.4	77.4		99.1	109.8	122.6	126.8	137.2							125.8	12

GUIDE SIGN ILLUSTRATION
Supplemental Mainline: Community Name, Exit XX A, Community Name, Exit XX B

[Not to scale]



SIGN NUMBER	G-IT22B
MUTCD CITATION	2E.35
WIDTH x HGHT.	13'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF COMMUNITY NAMES.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
H	a	r	v	e	y												ClearviewHwy-5-W
33.9	51.5	68.5	78.5	94.3	109.6												88.2 1613
E	X	I	T		3	4		A									E 2000
26.1	35	45.7	49.2		71.7	85.5		114.6									103.8 10,15
M	a	r	k	h	a	m											ClearviewHwy-5-W
20.1	40.1	57.1	69.1	84.6	100.8	117.8											115.8 1613
E	X	I	T		3	4		B									E 2000
27	35.9	46.6	50.1		72.6	86.4		115.5									100.7 10,15

GUIDE SIGN ILLUSTRATION
Supplemental Mainline: Community Name, Exit XX

[Not to scale]



SIGN NUMBER	G-IT22C
MUTCD CITATION	2E.35
WIDTH x HGHT.	12'-0" x 6'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF COMMUNITY NAME.

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
M	a	r	k	h	a	m												ClearviewHwy-5-W
14.4	34.2	51.1	63.1	78.5	94.6	111.5											115.3	16/13
E	X	I	T		3	4												E 2000
39.8	48.7	59.4	62.9		76.4	90.2											64.5	10,15

GUIDE SIGN ILLUSTRATION
Supplemental Mainline: 2 Community Names, Exit XX

[Not to scale]



SIGN NUMBER	G-IT22D
MUTCD CITATION	2E.35
WIDTH x HGHT.	13'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

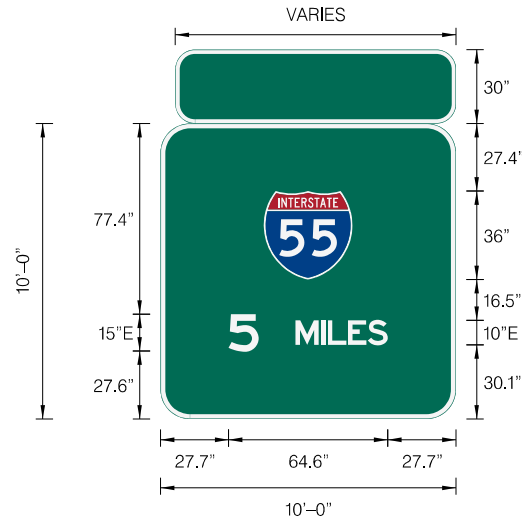
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SIGN WIDTH WILL VARY BASED ON SIZE OF COMMUNITY NAMES.

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
H	a	z	e	l		C	r	e	s	t								127.6	ClearviewHwy-5-W 13.3/10.8
14.2	28.8	42	53.6	67.9		86.3	101.2	110.6	123.8	135.3									
M	a	r	k	h	a	m											96.3	ClearviewHwy-5-W 13.3/10.8	
30.9	47.5	61.6	71.6	84.5	98	112.1													
E	X	I	T		3	4											64.5	E 2000 10,15	
45.8	54.7	65.4	68.9		82.4	96.2													

GUIDE SIGN ILLUSTRATION
Supplemental Guide: Shield, X Miles

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

NOTE:
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

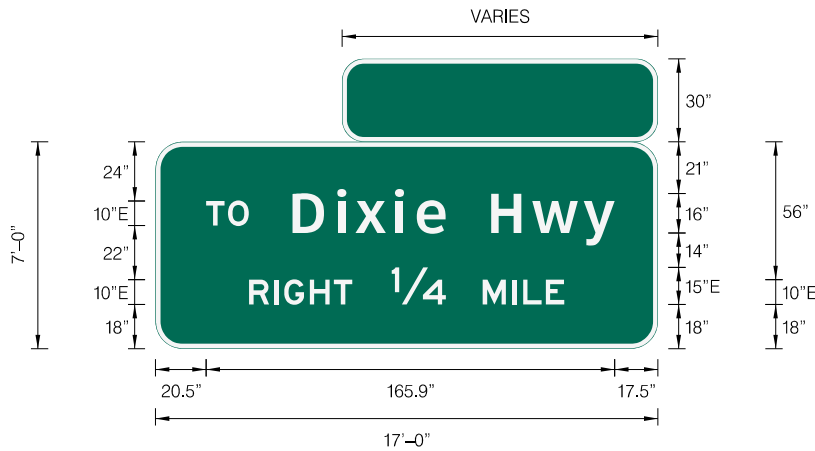
SIGN NUMBER	G-IT22E
MUTCD CITATION	2E.33 & 2E.35
WIDTH x HGHT.	10'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	42	56.6	36	36

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
5		M	I	L	E	S											E 2000	
27.7		54.9	65.2	68	76.2	84.2											64.6	15,10

GUIDE SIGN ILLUSTRATION
Supplemental Guide: To, Street Name, Right X Mile

[Not to scale]



SIGN NUMBER	G-IT22F
MUTCD CITATION	2E.33 & 2E.35
WIDTH x HGHT.	17'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

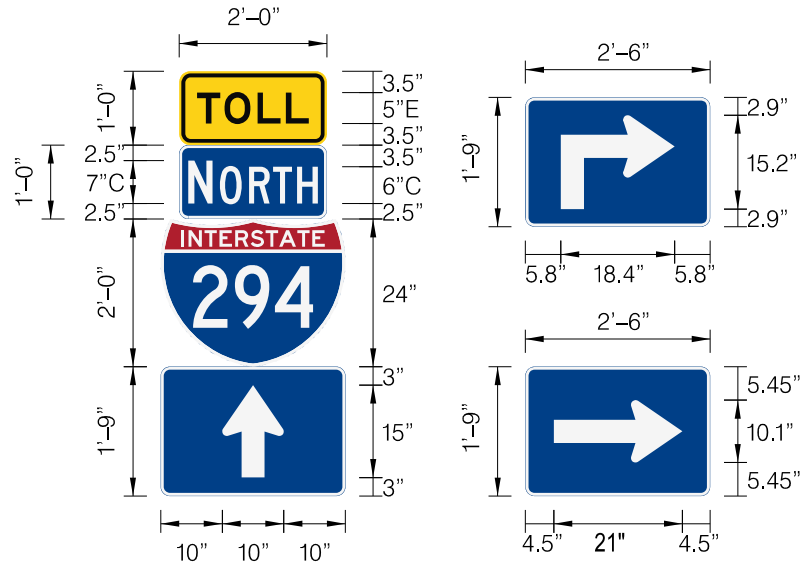
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 SIGN WIDTH WILL VARY BASED ON SIZE OF CONTROL CITY NAME.
 SEE G-IT8 SERIES FOR INFORMATION ON EXIT NUMBER PLAQUE.

LETTER POSITIONS (X)															LENGTH	SERIES-SIZE
T	O														19.1	E 2000 10
20.5	30.4															
D	i	x	i	e		H	w	y							130.8	ClearviewHwy-5-W 16/13
55.6	73.8	81.2	97.3	106.1		136.3	153	173.9								
R	I	G	H	T		¼		M	I	L	E				128	E 2000 10,15
38	48.1	52.2	62.6	72.4		95.9		132.9	144.9	149.3	158.5					

GUIDE SIGN ILLUSTRATION
Trailblazer Assembly: Toll, Cardinal, Shield, Directional Arrow (Type I)

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

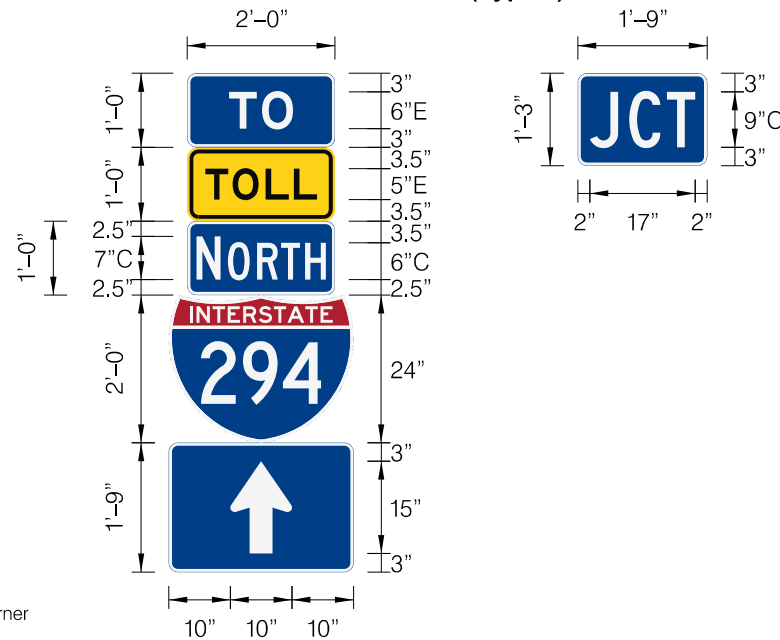
SIGN NUMBER	G-IT23A
MUTCD CITATION	2E.27 & 2F.11
WIDTH x HGHT.	2'-6" x 5'-9"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White

SYMBOL	ROT	X	Y	WID	HT
M1-1				30	24
M5, M6 Series				30	21

LETTER POSITIONS (X)															LENGTH	SERIES/SIZE
T	O	L	L												18.2	E 2000
2.9	7.4	12.7	17.3													5
N	O	R	T	H											21	C 2000
1.5	6.6	11.4	15.3	19.2												7,6

GUIDE SIGN ILLUSTRATION
Trailblazer Assembly: To or JCT, Toll, Cardinal, Shield, Directional Arrow (Type II)

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

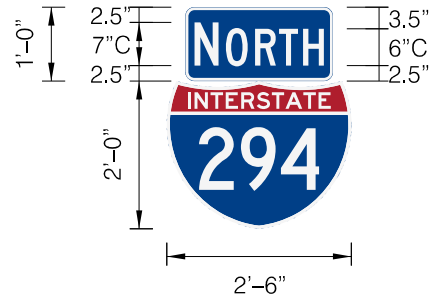
SIGN NUMBER	G-IT23B
MUTCD CITATION	2E.27 & 2F.11
WIDTH x HGHT.	2'-6" x 6'-9"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black

SYMBOL	ROT	X	Y	WID	HT
M1-1				30	24
M6-3				30	21

LETTER POSITIONS (X)															LENGTH	SERIES/SIZE
T	O															E 2000
6.8	12.2														10.4	6
T	O	L	L													E 2000
2.9	7.4	12.7	17.3												18.2	5
N	O	R	T	H												C 2000
1.5	6.6	11.4	15.3	19.2											21	7,6

GUIDE SIGN ILLUSTRATION
Trailblazer Assembly: Cardinal, Shield (Type III)

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	G-IT23C
MUTCD CITATION	2E.27 & 2F.11
WIDTH x HGHT.	2'-6" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black

SYMBOL	ROT	X	Y	WID	HT
M1-1				30	24

LETTER POSITIONS (X)															LENGTH	SERIES/SIZE	
N	O	R	T	H													C 2000
1.5	6.6	11.4	15.3	19.2													21 7,6



5. Regulatory Signs

5 - Regulatory Signs

5.1 - Regulatory Sign Application

Regulatory Signs inform the driver of traffic laws, regulations, indicate the applicability of legal requirements that would not otherwise be apparent, and are essential to the safe and efficient use of the roadway.

There are three types of standard regulatory signs used on the Tollway System: (1) right-of-way signs including stop and yield signs, (2) speed signs, and (3) movement signs. Other types of regulatory signs are acceptable for use at other locations as long as they are used in accordance with the *MUTCD*.

5.2 - Regulatory Sign Location

Regulatory Signs shall be placed at the point at which the regulation becomes effective and, if needed, at periodic points within the regulated area. Regulatory signs should be placed at uniform distances. Normally, the sign should be placed on the right-hand side of the roadway. On the Tollway, it is acceptable to place regulatory signs at other locations (on the left-hand side or overhead) in addition to the right-hand side of the roadway. Such circumstances where this may be applicable are: immediately after a major interchange, where a large number of vehicles have joined the traffic stream, when the number of lanes in

one direction is more than two, or near large weaving areas. Signs placed in locations other than the right-hand side should be considered as supplementary signs.

Spacing of mainline and ramp regulatory signs should be a minimum of 500' from the nearest sign, independent of the type of sign. Distances between identical regulatory signs, such as Speed Limit signs, should be no more than 5 miles. Regulatory signs that are continuously in effect should be placed within 1500' of the end of an acceleration lane at all interchanges.

Other types of regulatory signs shall be placed at the point that the regulation takes effect. In the immediate vicinity of the toll plazas and Oasis areas, the preceding guidelines do not apply. However, the signs should be placed such that they are in full view of motorists for whom the signs are intended.

5.3 - Regulatory Sign Shape, Color and Size

Regulatory Signs shall be rectangular, except for right-of-way series signs. Right-of-way signs shall be either octagonal with a white legend on a red background (stop sign) or triangular with a red legend and white background (yield sign).

All Oasis regulatory signing should be the size designated as freeway size in the *Standard Highway Signs and Markings* book. Plaza regulatory signing should be freeway size unless signing is to be placed within the plaza administration area. These signs

should be designated as "standard" size. Regulatory signs unique to the Tollway should be sized by the size of the messages and by the particular application of the sign as per *MUTCD* standards.

5.4 - Regulatory Sign Messages

The sign message should clearly indicate the requirements imposed by the regulation and should be easily visible and legible to the vehicle operator. All messages for standard regulatory signs shall conform to the provisions of the *MUTCD*.

5.5 - Regulatory Sign Layout

The legend shall be centered both horizontally and vertically on the sign. The overall layout of the regulatory signs shall be as illustrated in the *MUTCD*, the *Standard Highway Signs and Markings* book and the *ITSMG*. All standard regulatory signs shall be fabricated in accordance with the *Standard Highway Signs and Markings* book.

5.6 - Other Regulatory Signs

Regulatory signs other than those illustrated in these guidelines may be required; the *MUTCD* and *Standard Highway Signs and Markings* book should be consulted for message, size and description of such signs.

5.7 - Regulatory Sign Descriptions

All Regulatory sign illustrations follow the text below and a list of illustrations is included at the end of the chapter. The illustration identifier is listed in parentheses following each application name.

5.7.1 - Do Not Enter Sign (Illustration R-IT1)

Application: The Do Not Enter sign is a movement regulatory sign, which informs motorists of open or closed toll lanes at Plazas. This sign is used for temporary closings and in lieu of the gate. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words AUTHORITY VEHICLES ONLY. **Diagrams and Symbols:** The standard *MUTCD* Do Not Enter symbol shall be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Do Not Enter sign should be placed on the right hand curb of the tollbooth lane closest to the plaza building.

5.7.2 - Fasten Seat Belts Sign (Illustration R-IT2)

Application: The Fasten Seat Belts sign is used at Plazas downstream from toll booths and at the exit from plaza parking lots to remind motorists and Tollway employees to buckle up. **Color:** The

background should be white and the border should be black. **Legend:** The legend should be black and include the words FASTEN SEAT BELTS. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Fasten Seat Belts sign should be placed on the downstream end of the toll booth island, and on the shoulder or parking lot median adjacent to the parking lot exit to the Tollway and to the Plaza service road. This sign may be used at Oases on the shoulder of the downstream Tollway access road.

5.7.3 - Plaza Service Road / No Outlet Sign (Illustration R-IT3)

Application: The Plaza Service Road / No Outlet sign is a movement regulatory sign, which alerts drivers that the Plaza access road is a dead end, and provides no access to the Tollway. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words PLAZA XX, SERVICE ROAD, NO OUTLET, AUTHORITY VEHICLES ONLY. **Diagrams and Symbols:** The Tollway Logo shall be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Plaza Service Road / No Outlet sign should be placed on the inbound shoulder of the service road within sight of the intersection, with clear visibility to motorists, before they decide to make the turn into the service road.

5.7.4 - Lane Closed (X) Sign (Illustration R-IT4)

Application: The Lane Closed (X) sign is a movement regulatory sign, which alerts motorists to a toll booth lane closure. **Color:** The background should be red and (X) should be white. **Legend:** The legend should not include words. **Diagrams and Symbols:** The Tollway standard (X) should be used. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Lane Closed (X) sign shall be attached to the lane closure gate, upstream from the tollbooth.

5.7.5 - Oversized Vehicles Use Right Lane Sign (Illustration R-IT5)

Application: The Oversized Vehicles Use Right Lanes sign is a movement regulatory sign, which directs drivers of oversized vehicles to a specific lane. This sign may also be used at Oases. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words OVERSIZED VEHICLES USE RIGHT LANE. **Diagrams and Symbols:** None. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Oversized Vehicles Use Right Lane Sign, if needed, should be shoulder-mounted at Plazas, upstream from the toll booths, after the I-PASS or CASH only pull-through sign.

5.7.6 - Parking 2 Hour Limit Sign (Illustration R-IT6)

Application: The Parking 2 Hour Limit sign restricts automobile parking at Oases and Plazas. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words PARKING 2 HOUR LIMIT. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Parking 2 Hour Limit sign should be mounted in the parking lot medians, or on the centerline of parking spaces, as needed, to be visible to motorists in controlling individual spaces or groups of parking spaces.

5.7.7 - No U-Turn Except Authority Vehicles Sign (Illustration R-IT7)

Application: The No U-Turn Except Authority Vehicles sign is a movement regulatory sign informs motorists that U-turns are prohibited except by Tollway or emergency personnel. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words EXCEPT AUTHORITY VEHICLES. **Diagrams and Symbols:** The standard *MUTCD* No U-Turn symbol shall be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The No U-Turn Except Authority Vehicles sign should be mounted in the infield of the mainline at driveways connecting opposite lanes of traffic, or, if needed, at plazas and Oases on shoulders or medians.

5.7.8 - Engine Braking Prohibited Sign (Illustration R-IT8)

Application: The Engine Braking Prohibited sign is a movement sign which instructs truck drivers to keep traffic noise at a minimum in residential or noise-sensitive sections of the Tollway. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words ENGINE BRAKING PROHIBITED. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Engine Braking Prohibited sign should be shoulder-mounted at the commencement of the Tollway section where noise-sensitivity exists.

5.7.9 - End Truck Restriction Sign (Illustration R-IT9)

Application: The End Truck Restriction sign is a movement regulatory sign typically used on the mainline to inform truck drivers that special speed limits or lane assignments, for example, are no longer in effect. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words END TRUCK RESTRICTION. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The End Truck Restriction sign should be shoulder-mounted at the location where restrictions are lifted.

5.7.10 - Trucks Use 2 Right Lanes Sign (Illustration R-IT10)

Application: The Trucks Use 2 Right Lanes sign is a movement regulatory sign, which directs truck drivers into specific lanes. This sign is typically used on the Mainline, but may be used at Plazas or Oases, if needed. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words TRUCKS USE RIGHT 2 LANES. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Trucks Use 2 Right Lanes Sign should be shoulder-mounted in advance of Tollway section where trucks are assigned. Additionally, the Trucks Use 2 Right Lanes sign should be staggered along median 2 light poles down.

5.7.11 - Emergency Stopping Only / 2 Hour Limit Sign (Illustration R-IT11)

Application: The Emergency Stopping / 2 Hour Limit sign is a movement regulatory sign, which restricts vehicle parking or standing on the mainline shoulder. This sign may also be used at Oases and Plazas. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words EMERGENCY STOPPING ONLY 2 HOUR LIMIT. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Emergency Stopping / 2 Hour Limit Sign should be shoulder-mounted downstream from every entry ramp on the mainline, or in the parking lot medians, or on

the centerline of parking spaces, as needed to be visible to motorists in controlling individual spaces or groups of parking spaces at Oases and Plazas.

5.7.12 - Motor Vehicles Only Sign (Illustration R-IT12)

Application: The Motor Vehicles Only sign is a movement regulatory sign, which prohibits pedestrians and cyclists from entering and using the Tollway. **Color:** The background should be white and the border should be black. **Legend:** Refer to illustration. **Diagrams and Symbols:** None. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Motor Vehicles Only Sign should be placed on the entry ramp shoulder downstream from any toll plaza and before the merge sign into the Mainline.

5.7.13 - Tollway Properties; No Dumping, No Trespassing Sign (Illustration R-IT13)

Application: The Tollway Properties; No Dumping, No Trespassing sign is a movement regulatory sign, which alerts motorists that the signed area is private property where the listed activities are prohibited. **Color:** The background should be white and the border should be black. **Legend:** The legend should be black and include the words NO DUMPING, NO TRESPASSING, ILLINOIS STATE TOLL HIGHWAY AUTHORITY PROPERTY. **Diagrams and Symbols:** None. **Layout:** The legend should be centered

vertically and horizontally on the sign. **Placement:** The Tollway Properties; No Dumping, No Trespassing sign should be shoulder-mounted as needed at a safe, appropriate interval along the mainline, most commonly in rural areas. This sign is supplemental in nature and should not interfere with the location or visibility of essential signs. Spacing should be at least 500' from any other signs.

5.7.14 – State Law Signs (Illustration R-IT14)

Application: The Minor Crash Sign and the Move Over – Slow Down Sign are movement regulatory signs, which alert and direct motorists to move their vehicle from the lane in the event of a crash or move over and reduce speed for emergency and/or maintenance vehicles. **Color:** The background should be white and the border should be black. The top line with the words STATE LAW shall be black text on a yellow background. **Legend:** The legend should be black and include the words STATE LAW, MINOR CRASH MOVE VEHICLES FROM TRAFFIC LANE or STATE LAW, MOVE OVER – SLOW DOWN FOR STOPPED EMERGENCY OR MAINTENANCE VEHICLES. **Diagrams and Symbols:** None. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The State Law signs should be shoulder-mounted signs. The location of this sign will be as directed by the Tollway.

5.7.15 – Truck Enforcement Site (Illustration R-IT15)

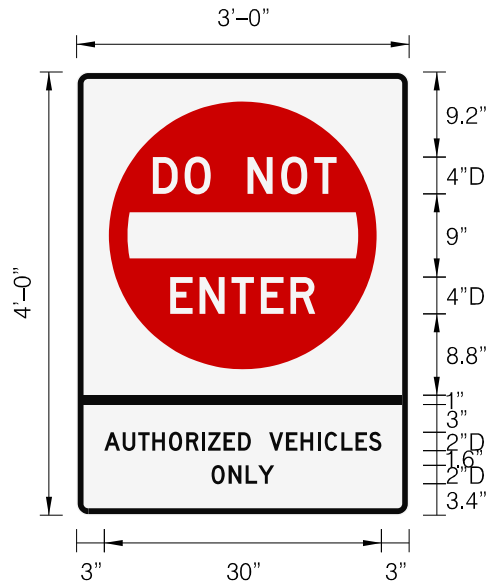
Application: The Truck Enforcement Site (Weight-In-Motion) is movement regulatory sign typically used on the mainline to inform truck drivers that there is a Weigh-In-Motion location upstream of the sign location. **Color:** The background should be white and the border should be black. The words TRUCK ENFORCEMENT SITE shall be black text on a yellow background. **Legend:** Refer to the illustration. **Diagrams and Symbols:** None. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Truck Enforcement Site sign should be a shoulder-mounted sign located 500 feet downstream of the Weigh-In-Motion Truck Enforcement Areas.

REGULATORY (R) ILLUSTRATION LIST

Number	Placement	Legend	Page
R-IT1	Plaza	Do Not Enter	5 - R-IT1
R-IT2	Plaza	Fasten Seat Belts	5 - R-IT2
R-IT3	Plaza	Tollway Logo, Plaza XX, Service Road, No Outlet, Authority Vehicles Only	5 - R-IT3
R-IT4	Plaza	Lane Closed (X)	5 - R-IT4
R-IT5	Plaza	Oversized Vehicles Use Right Lane	5 - R-IT5
R-IT6	Parking	Parking 2 Hour Limit	5 - R-IT6
R-IT7	Mainline	No U-Turn Except Authority Vehicles	5 - R-IT7
R-IT8	Mainline	Engine Braking Prohibited	5 - R-IT8
R-IT9	Mainline	End Truck Restriction	5 - R-IT9
R-IT10	Mainline	Trucks Use 2 Right Lanes	5 - R-IT10
R-IT11	Mainline	Emergency Stopping Only / 2 Hour Limit	5 - R-IT11
R-IT12	Ramp	Motor Vehicles Only	5 - R-IT12
R-IT13	Mainline	Tollway Properties: No Dumping, No Trespassing	5 - R-IT13
R-IT14	Mainline	State Law, Minor Crash, Move Vehicles From Traffic Lane Vehicles State Law, Move Over - Slow Down for Stopped Emergency or Maintenance Vehicles	5 - R-IT14
R-IT15	Mainline	Truck Enforcement Site	5 - R-IT15

REGULATORY SIGN ILLUSTRATION
Plaza: Do Not Enter

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

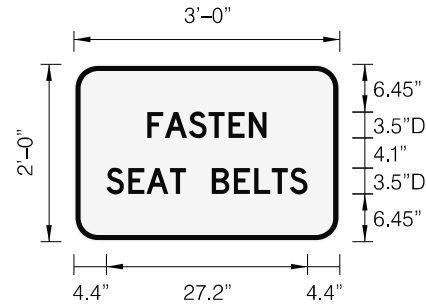
SIGN NUMBER	R-IT1
MUTCD CITATION	2A.06
WIDTH x HGHT.	3'-0" x 4'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White, Red
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																		LENGTH	SERIES/SIZE	
D	O		N	O	T													19.9	D 4	
8.3	11.7		18.5	22.2	25.7															
E	N	T	E	R														15.7	D 4	
10.1	13.3	16.8	20	23.1																
A	U	T	H	O	R	I	Z	E	D		V	E	H	I	C	L	E	S	30	D 2000
3	5	6.7	8.2	10	11.9	13.6	14.2	15.9	17.5		20.9	22.7	24.3	26.1	26.9	28.7	30.2	31.6		2
O	N	L	Y																6.8	D 2000
14.6	16.5	18.3	19.7																	2

REGULATORY SIGN ILLUSTRATION
Plaza: Fasten Seat Belts

[Not to scale]



SIGN NUMBER	R-IT2
MUTCD CITATION	2A.06
WIDTH x HGHT.	3'-0" x 2'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

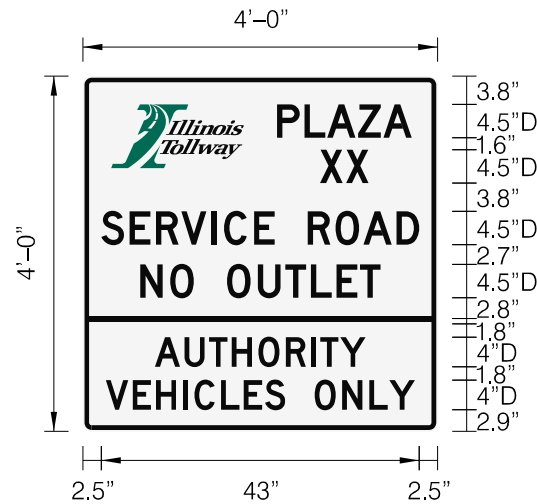
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
F	A	S	T	E	N													16.1	D 2000 3.5
9.9	12.3	15.6	18.2	20.9	23.7													27.2	D 2000 3.5
S	E	A	T		B	E	L	T	S										
4.4	7.4	9.8	13		18.7	21.6	24.4	26.8	29.2										

REGULATORY SIGN ILLUSTRATION

Plaza: Tollway Logo, Plaza XX, Service Road, No Outlet, Authority Vehicles Only

[Not to scale]



SIGN NUMBER	R-IT3
MUTCD CITATION	2A.06
WIDTH x HGHT.	4'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT
Tollway Logo	0	3.8	35.3	18	9

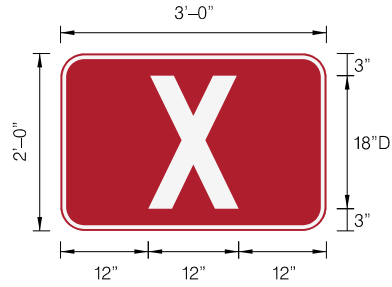
Dimensions are inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES SIZE					
P	L	A	Z	A															D 2000
26.3	30	33.1	37.2	40.7														18.2	4.5
X	X																		D 2000
32.1	35.6																	6.6	4.5
S	E	R	V	I	C	E		R	O	A	D								D 2000
2.5	6.3	9.9	13.3	17.4	19.1	23.1		30.4	34.2	38	42.5							43	4.5
N	O		O	U	T	L	E	T											D 2000
7.7	11.8		19.5	23.7	27.4	30.9	34.3	37.5										32.5	4.5
A	U	T	H	O	R	I	T	Y											D 2000
9.7	13.7	17.1	20.1	23.7	27.5	30.9	32.1	34.8										28.5	4
V	E	H	I	C	L	E	S		O	N	L	Y							D 2000
3.1	6.7	9.9	13.6	15.1	18.7	21.8	24.6		31.4	35.1	38.8	41.5						41.8	4

REGULATORY SIGN ILLUSTRATION

Plaza: Lane Closed (X)

[Not to scale]



SIGN NUMBER	R-IT4
MUTCD CITATION	2A.06
WIDTH x HGHT.	3'-0" x 2'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Swing Gate
BACKGROUND	TYPE: Reflective
	COLOR: Red
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

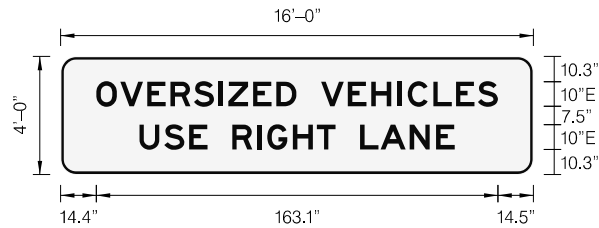
Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

NOTE:
FOR USE ON TOLL PLAZA SWING GATE.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
X																	D 2000
12																12	18

REGULATORY SIGN ILLUSTRATION
Plaza: Oversized Vehicles Use Right Lane

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	R-IT5
MUTCD CITATION	2A.06
WIDTH x HGHT.	16'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE						
O	V	E	R	S	I	Z	E	D		V	E	H	I	C	L	E	S					E 2000		
14.4	24.2	35.1	44.6	54.1	64.2	68	78.1	87.6		105.7	116.6	126.1	136.8	140.9	151.3	160.5	169.4					163.1	10	
U	S	E		R	I	G	H	T		L	A	N	E										E 2000	
32	42.1	52.2		69.7	79.8	83.9	94.3	104.1		121.6	129.9	141.8	152.5										128	10

REGULATORY SIGN ILLUSTRATION
Oasis: Parking 2 Hour Limit

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

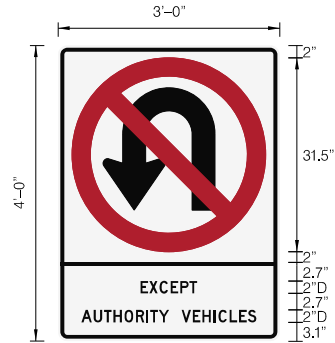
SIGN NUMBER	R-IT6
MUTCD CITATION	2A.06
WIDTH x HGHT.	6'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
P	A	R	K	I	N	G												43.5	D 2000 8
14.2	20.2	28.2	35	41.9	45.1	52.3												40.9	D 2000 8
2		H	O	U	R													25	D 2000 8
15.6		29	36.2	43.6	51														
L	I	M	I	T															
23.5	29.7	32.9	41	43.5															

REGULATORY SIGN ILLUSTRATION
Mainline: No U-Turn Except Authority Vehicles

[Not to scale]



SIGN NUMBER	R-IT7
MUTCD CITATION	2A.06
WIDTH x HGHT.	3'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

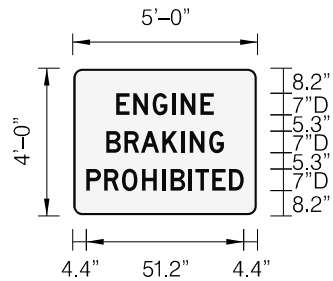
SYMBOL	ROT	X	Y	WID	HT
R3_4	0	2.3	14.5	31.5	31.5

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
E	X	C	E	P	T													9.2	D 2000 2
13.4	14.8	16.5	18.3	19.9	21.3													28.4	D 2000 2
A	U	T	H	O	R	I	T	Y		V	E	H	I	C	L	E	S		
3.8	5.8	7.5	9	10.8	12.7	14.4	15	16.3		20.1	21.9	23.5	25.3	26.1	27.9	29.4	30.8		

REGULATORY SIGN ILLUSTRATION
Mainline: Engine Braking Prohibited

[Not to scale]



SIGN NUMBER	R-IT8
MUTCD CITATION	2A.06
WIDTH x HGHT.	5'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

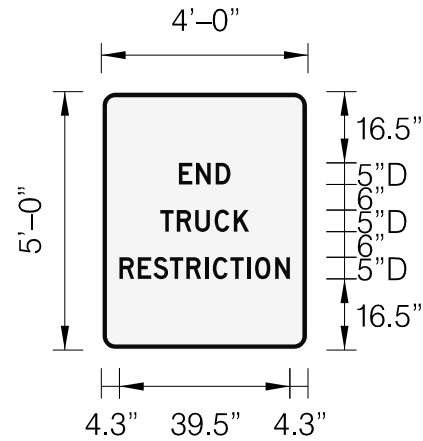
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
E	N	G	I	N	E													31.7	D 2000 7
14.1	19.7	26	32.3	35.1	41.5													38.2	D 2000 7
B	R	A	K	I	N	G												51.2	D 2000 7
10.9	16.8	22.1	29.1	35.2	38	44.3													
P	R	O	H	I	B	I	T	E	D										
4.4	10.2	16	22.5	29	31.8	37.7	39.9	45.3	50.8										

REGULATORY SIGN ILLUSTRATION
Mainline: End Truck Restriction

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

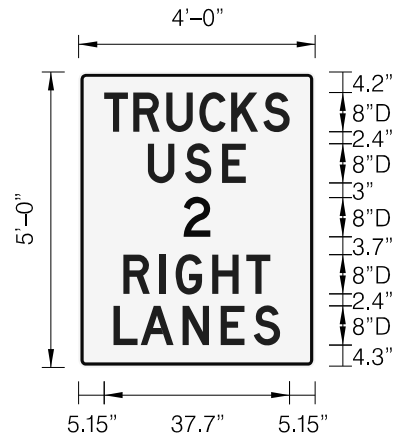
SIGN NUMBER	R-IT9
MUTCD CITATION	2A.06
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE						
E	N	D																			D 2000		
18	22	26.6																			12	5	
T	R	U	C	K																		D 2000	
13.7	17.6	21.8	26.3	30.8																		20.6	5
R	E	S	T	R	I	C	T	I	O	N												D 2000	
4.3	8.5	12.1	15.9	19.8	24	25.9	30	33.8	35.7	40.4												39.5	5

REGULATORY SIGN ILLUSTRATION
Mainline: Trucks Use 2 Right Lanes

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

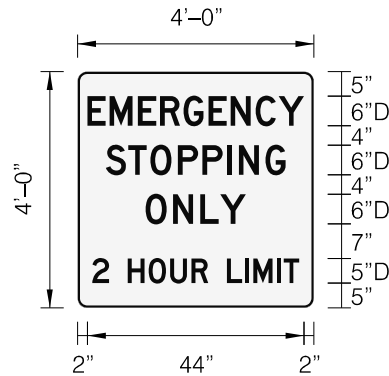
SIGN NUMBER	R-IT10
MUTCD CITATION	2A.06
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE				
T	R	U	C	K	S														D			
5.2	11.1	17.8	24.5	30.9	37.5														37.7	8		
U	S	E																		D		
14.1	21.6	29.1																		19.9	8	
2																					D 2000	
21.3																					5.4	8
R	I	G	H	T																	D	
9.1	16.5	19.7	27.1	34.1																	29.8	8
L	A	N	E	S																	D	
7.1	12.6	21.1	28.8	35.5																	33.8	8

REGULATORY SIGN ILLUSTRATION
Mainline: Emergency Stopping Only / 2 Hour Limit

[Not to scale]



SIGN NUMBER	R-IT11
MUTCD CITATION	2A.06
WIDTH x HGHT.	4'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

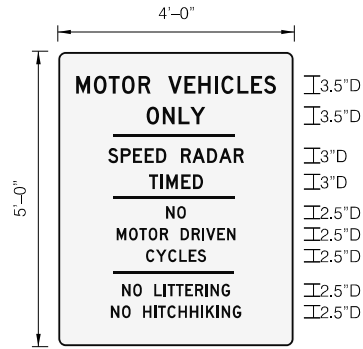
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)															LENGTH	SERIES-SIZE	
E	M	E	R	G	E	N	C	Y									D 2000
2	6.5	12.3	16.8	21.5	26.6	31.1	36.2	40.8								44	6
S	T	O	P	P	I	N	G										D 2000
5.8	10.3	14.8	20.4	25.4	30.4	32.8	38.2									36.5	6
O	N	L	Y														D 2000
13.8	19.4	24.9	29													20.3	6
2		H	O	U	R		L	I	M	I	T						D 2000
3		10.2	14.4	18.8	23.1		30.3	34	35.7	40.5	41.9					42	5

REGULATORY SIGN ILLUSTRATION
Ramp: Motor Vehicles Only

[Not to scale]



SIGN NUMBER	R-IT12
MUTCD CITATION	2A.06
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

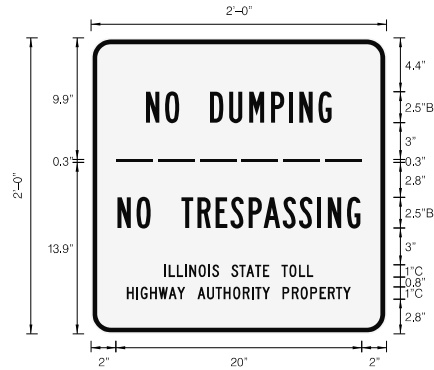
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE							
M	O	T	O	R		V	E	H	I	C	L	E	S							D 2000		
3.7	7.3	10.3	13	16.4		22.4	25.7	28.6	31.9	33.2	36.5	39.2	41.8							40.6	3.6	
O	N	L	Y																		D 2000	
18.1	21.3	24.5	26.9																		11.9	3.5
S	P	E	E	D		R	A	D	A	R											D 2000	
10.2	12.8	15.3	17.6	20		25	27.3	30.3	32.7	35.7											27.6	3
T	I	M	E	D																	D 2000	
18.5	20.8	22	25.1	27.4																	11	3
N	O																				D 2000	
22	24.2																				4	2.5
M	O	T	O	R		D	R	I	V	E	N										D 2000	
12	14.5	16.6	18.4	20.8		25	27.2	29.3	30.1	32.4	34.4										24.1	2.5
C	Y	C	L	E	S																D 2000	
17.9	19.9	22.4	24.7	26.6	28.4																12.2	2.5
N	O		L	I	T	T	E	R	I	N	G										D 2000	
13.1	15.3		19.6	21.5	22.3	24	25.9	27.9	30	31	33.3										21.9	2.5
N	O		H	I	T	C	H	H	I	K	I	N	G								D 2000	
10.8	13		17.3	19.6	20.4	22.3	24.5	26.8	29.1	30.1	32.3	33.3	35.5								26.5	2.5

REGULATORY SIGN ILLUSTRATION
Mainline: Tollway Properties; No Dumping, No Trespassing

[Not to scale]



SIGN NUMBER	R-IT13
MUTCD CITATION	2A.06
WIDTH x HGHT.	2'-0" x 2'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

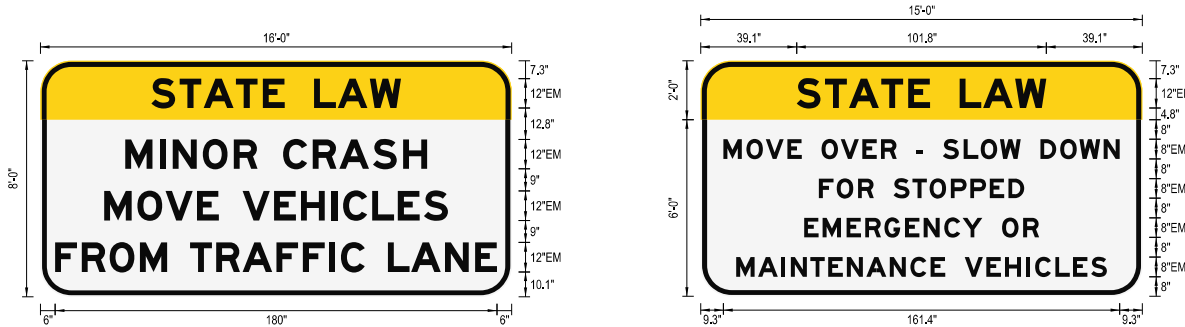
LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE	
N	O		D	U	M	P	I	N	G											15.1	B 2000 2.5
4.5	6		9.7	11.2	12.8	14.6	16	16.9	18.5											19.7	B 2000 2.5
N	O		T	R	E	S	P	A	S	S	I	N	G							12.1	C 2000 1
2.1	3.7		7.3	8.6	10.1	11.3	12.8	14	15.6	16.9	18.4	19.2	20.8							18.2	C 2000 1
I	L	L	I	N	O	I	S		S	T	A	T	E		T	O	L	L			
6	6.3	7	7.6	8	8.7	9.5	9.8		11.4	12	12.6	13.3	14		15.5	16.1	16.9	17.5			
H	I	G	H	W	A	Y		A	U	T	H	O	R	I	T	Y					
2.9	3.7	4	4.8	5.5	6.3	7		8.6	9.4	10.1	10.8	11.5	12.3	13.1	13.3	13.9	14.5				
P	R	O	P	E	R	T	Y														
15.5	16.3	17	17.8	18.6	19.2	19.9	20.5														

REGULATORY SIGN ILLUSTRATION

Mainline: State Law, Minor Crash, Move Vehicles From Traffic Lane

Mainline: State Law, Move Over - Slow Down for Stopped Emergency or Maintenance Vehicles

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

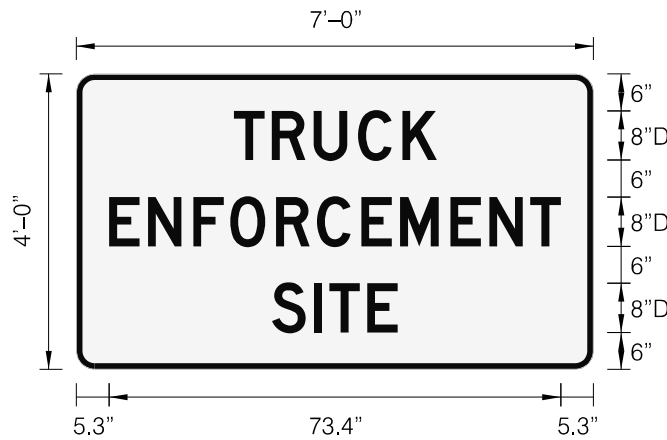
SIGN NUMBER	R-IT14
MUTCD CITATION	2A.06 & 2B.65
WIDTH x HGHT.	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE					
S	T	A	T	E		L	A	W													EM 2000	
45.1	56.6	66.5	79.6	90.6		111.5	121.1	134.2													101.8	12
M	I	N	O	R		C	R	A	S	H											EM 2000	
34.5	48.6	53.9	66.2	78.7		98.9	110.9	121.8	135.5	147.8											123	12
M	O	V	E		V	E	H	I	C	L	E	S									EM 2000	
26	39.5	51	63.8		82.4	95.2	106.1	118.6	123.3	135.2	145.7	156.3									140	12
F	R	O	M		T	R	A	F	F	I	C		L	A	N	E					EM 2000	
6	16.9	28.2	40.5		61	71.6	82.3	96.1	107	117.8	122.5		141.5	151	164.8	177.1					180	12
S	T	A	T	E		L	A	W													EM 2000	
39.1	50.6	60.5	73.6	84.6		105.5	115.1	128.2													101.8	12
M	O	V	E		O	V	E	R	-	S	L	O	W		D	O	W	N			EM 2000	
9.3	18.7	26.5	35.3		49.2	57.1	65.9	73.5		87.9	98.7	107.2	114.1	121.9		138.4	146.5	154.3	164.3	161.4	8	8
F	O	R		S	T	O	P	P	E	D											EM 2000	
48.2	55.5	64.1		78.6	86.3	93.3	101.9	109.9	117.8	125.4											83.7	8
E	M	E	R	G	E	N	C	Y		O	R										EM 2000	
42.1	49.7	59.4	67	74.9	83.3	90.9	99.3	106.7		122.8	131.4										95.8	8
M	A	I	N	T	E	N	A	N	C	E		V	E	H	I	C	L	E	S		EM 2000	
14.5	23.4	32.9	36.7	44.7	52	59.6	67.5	77.1	85.5	93.7		107.6	116.4	124	132.7	136.3	144.5	151.7	159.1		151	8

REGULATORY SIGN INSTALLATION
Mainline: Truck Enforcement Site (Weigh In Motion Location)

[Not to scale]



Dimensions are in inches.tenths
 Letter locations are panel edge to lower left corner.

SIGN NUMBER	R-IT15
MUTCD CITATION	2A.06
WIDTH x HGHT.	7'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE
T	R	U	C	K														D 2000
25.6	31.8	38.6	45.8	53														33 8
E	N	F	O	R	C	E	M	E	N	T								D 2000
5.3	11.6	19	25	32.4	39.1	46.3	52.6	60.8	67.1	73.7								73.4 8
S	I	T	E															D 2000
31.8	38.6	41.1	47.2															20.4 8



6. Warning Signs

6 - Warning Signs

6.1 - Warning Sign Application

Warning signs alert the driver to potentially hazardous conditions on or adjacent to the roadway that would not otherwise be readily apparent.

6.2 - Warning Sign Location

Since warning signs are primarily for the benefit of the driver who is unacquainted with the road, it is very important that care be given to their placement. Warning signs should be placed an adequate distance in advance of the condition. The actual advance warning sign location should be determined by the normal approach speed and the time needed for the driver to perceive, identify, decide, and perform any necessary maneuver as well as the availability of space for the sign.

These factors are described further in the *MUTCD* along with suggested minimum sign placement distances displayed in Table 2C-4 of the *MUTCD*, “*Guidelines for Advance Placement of Warning Signs*”. The sign placement should be considered so that the driver has time to react to the sign message and take any action necessary to pass safely through or avoid a potential hazard.

In cases where individual warning signs in a series like W1-8 (Chevron Alignment sign) need to be replaced, the same size sign as the existing others in that series shall be installed. When new signs are proposed for new projects, all signs in that series shall have dimensions based on table 2C-1 of the *MUTCD*.

Contact Tollway PM for additional guidance.

6.3 - Warning Sign Shape, Color and Size

All warning signs shall have a black legend and border on yellow background. If a standard sign is required that is not included in these guidelines, the largest size for the particular sign application as stated in Federal Highway Administration’s *Standard Highway Signs and Markings* book should be used. Standard warning signs for use other than mainline or ramps should be sized according to the “standard” size in the *Standard Highway Signs and Markings* book.

6.4 - Warning Sign Messages

All messages for standard warning signs shall be designed in accordance with the *MUTCD* and *Standard Highway Signs and Markings* book.

6.5 - Warning Sign Layout

All standard warning signs shall be fabricated in accordance with the Federal Highway Administration’s *Standard Highway Signs and Markings* book.

6.6 - Warning Sign Descriptions

All warning signs shall be standard *MUTCD* signs.



7. Plaza Signs

7 - Plaza Signs

7.1 - Plaza Sign Application

Plaza signs are used on mainline and ramp plazas along toll highways to inform the motorist of limited-access freeway or expressway facilities. Generally, Plaza signs apply to a route or facility on which all lanes are tolled. ETC and/or ORT may also be used on mainline and ramp facilities, either in addition to or in place of collecting toll payments at toll plazas. Plaza signs should be designed in accordance with the general requirements in Chapters 4, 5, and 9 of the *RSPMG* and *MUTCD* Chapters 2E and 2F. Signs for toll plazas should provide road users with advance and toll plaza lane-specific information regarding:

- A. The amount of the toll, the types of payment accepted, and the type(s) of registered ETC accounts accepted for payment;
- B. Which lane or lanes are required or allowed to be used for each available payment type; and
- C. Restrictions on the use of a toll plaza lane or lanes by certain types of vehicles (such as cars only or no trucks).

Reference is made to Chapter 2E of the *MUTCD*, “Guide Signs – Freeways and Expressways” and Chapter 2F, “Toll Road Signs” for design and layout considerations for plaza signing on the Tollway.

7.2 - Plaza Sign Location

The identification of entry ramp plazas to the Tollway from crossroads should be given adequate attention. Signing on the approaches to toll collection plazas should be consistent with the design and traffic conditions of the crossroad. Judgment and careful attention to details on the placement of required plaza signing must be exercised in the vicinity of mainline and ramp plazas to avoid giving motorists confusing, misleading, or conflicting information. Specific locations not stated in these guidelines should adhere to or exceed the guidelines in the *MUTCD*; however, the signs should be placed such that they are in full view of motorists approaching the toll plaza area.

7.3 - Plaza Sign Shape, Color and Size

Plaza signs vary in shape, size, and color, but should be sized according to the messages they display. When signs are mounted adjacent to each other, sizes and shapes should be the same, if practical, for visual simplicity. For mainline and ramp facilities with an ETC account, an I-Pass and/or EZ Pass pictograph shall be used.

7.4 - Plaza Sign Messages

Plaza sign legends may include pictographs, toll information, lane designations, and warning messages such as “PAY TOLL AHEAD” or “NO ATTENDANT.”

7.5 - Plaza Sign Layout

Plaza sign layout details cannot be provided for all cases in these guidelines. In general, all signs within a certain area and with a similar purpose should be designed in a similar fashion.

7.6 - Plaza Sign Descriptions

The Plaza sign illustrations in this chapter are described in the following sections, which detail the Plaza sign application, color, legend, layout and placement. All Plaza sign illustrations follow the text below and a list of illustrations is included at the end of the chapter. The illustration identifier is listed in parentheses following each sign name.

7.6.1 - Mainline and Ramp Plaza: Cash/Coins Signs (Illustrations P-IT1A-B)

Application: Cash/Coins Signs provide information to motorists to aid in the selection of appropriate services (cash/coin or IPO lanes). **Color:** The Cash/Coins Signs should be rectangular in shape, with white and red background. **Legend:** The legend should include either “Cash” or “Coins” in white on red background at the top of the sign. **Diagrams and Symbols:** The cash pictograph is used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Cash/Coins sign shall be placed on the toll plaza canopy, centered above each collection lane.

7.6.2 - Mainline and Ramp Plaza: *I*-Pass Panel (Illustration P-IT2)

Application: *I*-Pass panels are used at the Electronic Toll Plazas to indicate that the lanes are used for *I*-Pass toll payments only. **Color:** The background is purple and the border is white. **Legend:** None (“*I*-Pass” is part of the pictograph). **Diagrams and Symbols:** The *I*-Pass pictograph shall be used. **Layout:** The *I*-Pass pictograph should be centered horizontally on the panel. **Placement:** The *I*-Pass panel is placed as needed on toll collection signs.

7.6.3 - Plaza Canopy and Trailblazer: *I*-Pass Only Signs (Illustrations P-IT3A-B)

Application: The *I*-Pass Only sign indicates an approaching toll collection point where the *I*-Pass is the only payment method that may be used. **Color:** The background consists of purple and white panels. **Legend:** The legend ONLY should be black on white. **Diagrams and Symbols:** The *I*-Pass pictograph shall be used. **Layout:** The legend and symbols should be centered horizontally on each respective panel of the sign. **Placement:** The “*I*” with an ONLY panel shall be placed on mainline and ramp plaza canopies for lanes that are ETC only. The full *I*-Pass pictograph with ONLY panel shall be mounted in combination with trailblazer signs when traffic is being directed to an ETC facility from a surface street.

7.6.4 - Mainline and Ramp Plaza: Toll Plaza Name - Plaza Number Sign (Illustration P-IT4)

Application: The Toll Plaza Name - Plaza Number sign is a supplemental Plaza sign, which displays the toll plaza name and toll plaza number to Tollway users. **Color:** The background should be green and the border should be white. **Legend:** The legend should be white and include the name of the toll plaza and the number. **Diagrams and Symbols:** None. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Toll Plaza Name – Toll Plaza Number Sign should be located on the center of the toll booth canopy.

7.6.5 - Mainline and Ramp Plaza: IPO XX MPH Signs (Illustrations P-IT5A-C)

Application: The IPO XX MPH sign is a speed safety sign, which alerts motorists to reduce speed at IPO lane(s) at cash plazas. **Color:** The background should be white and the border should be black. **Legend:** The legend, 15 MPH, should be black. **Diagrams and Symbols:** Diagonally downward-pointing directional arrows (left or right) should be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The IPO XX MPH Signs, both left-pointing and right-pointing, should be placed upstream from the IPO canopy on the island and median barriers.

7.6.6 - Mainline and Ramp Plaza: Stop All Vehicles (Type I), Stop (Type II), and Stop at Tollbooth Signs (Illustrations P-IT6A-C)

Application: Stop All Vehicles (Type I), Stop (Type II) and Stop at Tollbooth Signs are movement regulatory signs, which alert motorists to stop to pay tolls and to stop at the tollbooth attendant’s door. **Color:** The background shall be red and the border should be white (P-IT6A-B). The background shall be white and the border shall be black (P-IT6C). **Legend:** The legend, ALL VEHICLES, should be white (P-IT6A-B), and AT TOLLBOOTH should be black (P-IT6C). **Diagrams and Symbols:** Stop sign based on standard MUTCD parameters. **Layout:** The legend should be centered horizontally on the signs. **Placement:** The Stop All Vehicles (Type I) sign shall be located after the cheater gate and mounted to electric eye stanchion. The Stop (Type II) sign is made from foam board material and shall be placed on the lever arm of the tollbooth. The Stop at Tollbooth Sign should be mounted on the lane channelizer median ahead of the tollbooth whenever there is not an IPO lane to the left and shall not block the view of the toll taker.

7.6.7 - Mainline and Ramp Plaza: Tollbooth Illinois Tollway and *I*-Pass Banners (Illustrations P-IT7A-C)

Application: Tollbooth Illinois Tollway and *I*-Pass banners shall be placed on the top portion of each individual toll booth, with the intent of directing Tollway

users to access the Tollway's website and encourage use of the *I-Pass*. **Color:** The signs shall have a blue background and no border. **Legend:** The legend shall be white and include either Illinoistollway.com or [Get I-Pass & Get Going, getipass.com](http://GetI-Pass.com). **Diagrams and Symbols:** None. **Layout:** The legend is to be centered horizontally on the signs. **Placement:** The Illinois Tollway sign shall encompass the upper 9" of the toll booth's left and right sides, placed parallel to the flow of traffic. The front and back of the booth, which is perpendicular to the flow of traffic, shall display the *I-Pass* Banner Sign.

7.6.8 - Mainline Plaza: Wide and Load Signs (Illustrations P-IT8A-B)

Application: Wide and Load signs indicate to drivers the availability of a lane capable of handling vehicles with a wide load. **Color:** The background shall be yellow and the border shall be black. **Legend:** The legend WIDE and LOAD shall be black. **Diagrams and Symbols:** None. **Layout:** The legend should be centered horizontally on the sign. **Placement:** Wide and Load signs are mounted on the canopy over the wide load lane. The Wide sign shall be placed to the left of the Cash/Coins sign and the Load sign to the right of the Cash/Coins sign.

7.6.9 - Mainline Plaza: Overhead Stop At Tollbooth Sign (Illustration P-IT9)

Application: The Overhead Stop At Tollbooth sign is mounted overhead and gives guidance to cash

customers, in advance of the toll plaza canopy, as to which lanes have tollbooths. **Color:** The sign should be rectangular with white background, black and border, and yellow top panel. **Legend:** The legend shall be black and include Stop At Tollbooth, Cars, \$X.XX, All Lanes. **Diagrams and Symbols:** The cash pictograph should be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Overhead Stop At Tollbooth sign should be placed centered over the right lanes of the plaza approximately ¼ mile in advance of the plaza canopy.

7.6.10 - Mainline Plaza: Cash Rate Sign (Illustration P-IT10)

Application: The Cash Rate Sign is a supplemental information sign, which lists the standard toll to be paid by cars using cash lanes. **Color:** The background should be white and the border should be black. **Legend:** The legend Cars, Toll \$X.XX should be black. **Diagrams and Symbols:** The cash pictograph should be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Cash Rate Sign should be ground mounted on the right hand shoulder of the manual lanes at 250' in advance of the plaza canopy, with a Stop at Tollbooth Sign located overhead at approximately 350' in advance of the plaza canopy.

7.6.11 - Ramp Plaza: Pay Toll This Ramp Sign (Illustration P-IT11)

Application: The Pay Toll This Ramp sign is used to alert motorists to an upcoming ramp plaza at an exit or interchange. **Color:** The sign should have a green background with a white border, yellow top panel with a black border, and white bottom panel with a black border. **Legend:** The legend shall be black and white and include Pay Toll This Ramp, Toll, Cardinal, Control Destination, and Toll Panel. **Diagrams and Symbols:** Shields should be used for routes and a Cross Arrow pointing in the direction of the Ramp. *I-Pass* and Cash pictographs are used on the bottom toll panel, however, the *I-Pass* pictograph is used without the purple background color because this sign is not ETC exclusive. **Layout:** The legend is centered horizontally on the sign. **Placement:** Pay Toll This Ramp signs should be placed at a decision point prior to entering the toll plaza ramp.

7.6.12 - Ramp Plaza: Advance Pay Toll Signs (Illustrations P-IT12A-G)

Application: Advance Pay Toll signs indicate the accepted methods of toll payment, their associated lanes, toll amount, and whether or not an attendant is present. They may be used in combination/sequence to outline multiple plaza stipulations. **Color:** The signs may consist of a combination of yellow, red, blue, and white backgrounds. See individual illustrations for details. **Legend:** Refer to illustrations. **Diagrams and Symbols:** The cash pictograph and *I-Pass* pictograph shall be used. For P-IT12A and P-IT12C, the *I-Pass*

pictograph is used without the purple background color because signs P-IT12A and P-IT12C are not ETC exclusive. **Layout:** See each individual sign illustration for the specific layout dimensions and panel arrangements. **Placement:** Advance Pay Toll signs are placed on the plaza ramp beginning approximately 500' ahead of the plaza, as space permits, on the right side of the plaza approach lanes. These signs are post-mounted.

7.6.13 - Mainline Plaza: Vehicle Tolls Sign and Car Tolls (Illustration P-IT13A-B)

Application: The Vehicle Tolls and Car Tolls Signs are supplemental information signs, which list the tolls to be paid by vehicle type. **Color:** The background should be white and the border should be black. The sign may have a top panel with a black background. **Legend:** Refer to illustrations. **Diagrams and Symbols:** The cash pictograph should be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Vehicle Tolls Sign and the Car Tolls Sign should be mounted on the manual tollbooth and above all ACM.

7.6.14 - Mainline and Ramp Plaza: Unpaid Toll Signs (Illustrations P-IT14A-B)

Application: Unpaid Toll signs offer drivers a means of paying tolls that were skipped over. **Color:** The signs

shall have a white background with a black overlay. **Legend:** The legend shall be black on white and white on black and include the words UNPAID TOLL?, PAY ONLINE, illinoistollway.com, PLAZA XX. The "illinoistollway" text shall be blue. **Diagrams and Symbols:** This sign contains a circular symbol with the words "7 Days to Pay." **Layout:** The legend should be centered horizontally on the signs. **Placement:** The sign shall be placed downstream of IPO lanes at the discretion of the Tollway. If space permits, placement should be on both sides of the mainline.

7.6.15 - Mainline Plaza: Overhead Open Road Tolling Signage (Illustration P-IT15)

Application: The ORT Plaza sign is an informational sign that identifies the Mainline Plaza Name and Number. **Color:** The background shall be blue and there shall be no border. **Legend:** Refer to illustrations. **Diagrams and Symbols:** The "I" symbol shall be used and centered. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The ORT Plaza sign shall be installed on the first ORT monotube and centered above the ORT lanes.

PLAZA (P) ILLUSTRATION LIST

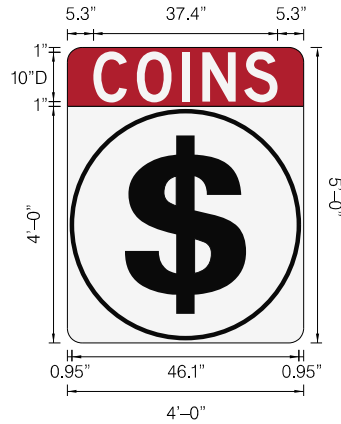
Number	Placement	Legend	Page
P-IT1A	Plaza	Ramp: Coins, Cash Pictograph	7 - P-IT1A
P-IT1B	Plaza	Mainline: Cash, Cash Pictograph	7 - P-IT1B
P-IT2	Plaza	Mainline and Ramp: I-Pass Pictograph on Purple Background	7 - P-IT2
P-IT3A	Plaza	Mainline and Ramp: I-Pass Pictograph, Only (Type I) on Purple Background	7 - P-IT3A
P-IT3B	Plaza	Ramp: I-Pass Pictograph, Only (Type II) on Purple Background	7 - P-IT3B
P-IT4	Plaza	Mainline and Ramp: Toll Plaza Name - Plaza Number	7 - P-IT4
P-IT5A	Plaza	Mainline and Ramp: IPO XX MPH, Directional Arrow	7 - P-IT5A
P-IT5B	Plaza	Mainline and Ramp: IPO XX MPH, Directional Arrow	7 - P-IT5B
P-IT5C	Plaza	Mainline and Ramp: IPO XX MPH, Dual Directional Arrows	7 - P-IT5C
P-IT6A	Plaza	Mainline and Ramp: STOP, All Vehicles (Type I)	7 - P-IT6A
P-IT6B	Plaza	Mainline and Ramp: STOP (Type II)	7 - P-IT6B
P-IT6C	Plaza	Mainline and Ramp: STOP, At Tollbooth	7 - P-IT6C
P-IT7A	Plaza	Mainline and Ramp: Tollbooth Illinois Tollway Banner; illinoistollway.com (Type I)	7 - P-IT7A
P-IT7B	Plaza	Mainline and Ramp: Tollbooth Illinois Tollway Banner; illinoistollway.com (Type II)	7 - P-IT7B
P-IT7C	Plaza	Mainline and Ramp: Tollbooth I-Pass Banner; Get I-Pass & Get Going, getipass.com	7 - P-IT7C
P-IT8A	Plaza	Mainline: Wide Sign	7 - P-IT8A
P-IT8B	Plaza	Mainline: Load Sign	7 - P-IT8B
P-IT9	Plaza	Mainline: Stop at Tollbooth, Cars, Cash Pictograph, \$X.XX, All Lanes	7 - P-IT9
P-IT10	Plaza	Mainline: Cars, Cash Pictograph, Toll \$X.XX	7 - P-IT10
P-IT11	Plaza	Ramp: Pay Toll This Ramp, Shield, Toll, Cardinal, Control Destination, Cross Arrow, Toll Panel	7 - P-IT11

PLAZA (P) ILLUSTRATION LIST

Number	Placement	Legend	Page
P-IT12A	Plaza	Ramp: Pay Toll Ahead, All Vehicles Must Stop, I-Pass and Cash Pictographs, Coins, Fee Condition	7 - P-IT12A
P-IT12B	Plaza	Ramp: Pay Toll This Exit, I-Pass, Coins, I-Pass and Cash Pictographs, All Lanes, Fee Condition, No Attendant (2-3 Lanes)	7 - P-IT12B
P-IT12C	Plaza	Ramp: Pay Toll This Exit, I-Pass, Coins, I-Pass and Cash Pictographs, Accepted, Fee Condition, No Attendant (1 Lane)	7 - P-IT12C
P-IT12D	Plaza	Ramp: Pay Toll Ahead, Lane Designation, I-Pass and Cash Pictographs, Coins, Only, Fee Condition (2 Lanes)	7 - P-IT12D
P-IT12E	Plaza	Ramp: Pay Toll Ahead, Lane Designation, Cash and I-Pass Pictographs, Coins, Fee Conditions, Only (4 Lanes)	7 - P-IT12E
P-IT12F	Plaza	Ramp: Pay Toll Ahead, Lane Designation, Cash and I-Pass Pictographs, Coins, Fee Condition, Only (3 Lanes)	7 - P-IT12F
P-IT12G	Plaza	Ramp: Pay Toll Ahead, Lane Designation, I-Pass and Cash Pictographs, Coins, Only, Fee Condition (3 Lanes)	7 - P-IT12G
P-IT13A	Plaza	Toll Booth: Vehicle Tolls	7 - P-IT13A
P-IT13B	Plaza	Mainline: Car Tolls	7 - P-IT13B
P-IT14A	Plaza	Mainline and Ramp: Unpaid Toll?, 7 Days to Pay, Pay Online, illinoistollway.com, Plaza XX (Type I)	7 - P-IT14A
P-IT14B	Plaza	Mainline and Ramp: Unpaid Toll?, 7 Days to Pay, Pay Online, illinoistollway.com, Plaza XX (Type II)	7 - P-IT14B
P-IT14C	Plaza	Toll Plaza Approach: Toll Paid Signage	7 - P-IT14C
P-IT15	Plaza	Overhead Open Road Tolling Signage	7 - P-IT15

PLAZA SIGN ILLUSTRATION
Ramp: Coins, Cash Pictograph

[Not to scale]



SIGN NUMBER	P-IT1A
MUTCD CITATION	2A.06 & 2F.16
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /None

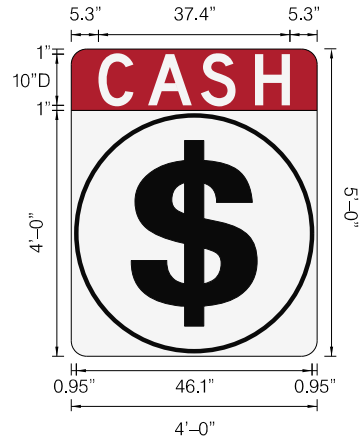
SYMBOL	ROT	X	Y	WID	HT
Cash		1	1	46.1	46.1

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
C	O	I	N	S													37.4	D 2000 10
5.3	14.1	23.4	27.4	35.9														

PLAZA SIGN ILLUSTRATION
Mainline: Cash, Cash Pictograph

[Not to scale]



SIGN NUMBER	P-IT1B
MUTCD CITATION	2A.06 & 2F.16
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /None

SYMBOL	ROT	X	Y	WID	HT
Cash	0	1	1	46.1	46.1

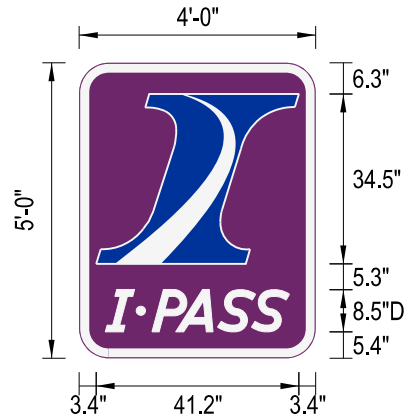
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 FOR USE ON MAINLINE TOLL PLAZA CANOPY
 WHERE ATTENDANT IS PRESENT.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
C	A	S	H														D 2000	
5.3	15	25.3	35.9														37.4	10

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: I-Pass Pictograph on Purple Background

[Not to scale]



NOTE:
 FOR USE AS A PANEL ON ANOTHER SIGN, THIS IS THE FULL PICTOGRAPH. DEPENDING ON THE APPLICATION, PICTOGRAPH MAY OMIT THE I-PASS TEXT, OR PLACE IT NEXT TO THE "I". SIZE VARIES DEPENDING ON APPLICATION.

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	P-IT2
MUTCD CITATION	2F.03, 2F.13
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

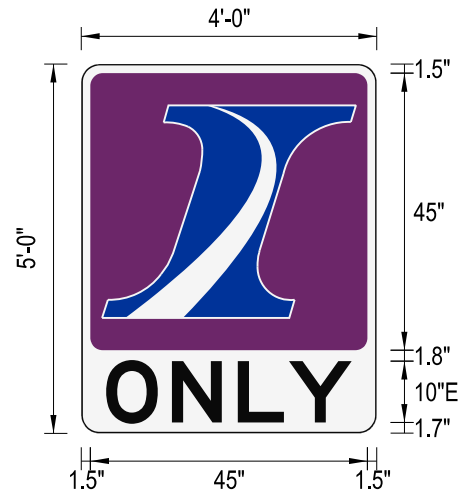
SYMBOL	ROT	X	Y	WID	HT
IPASS Logo	0	3.4	19.2	41.2	34.5

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE		
/	•	P	A	S	S												D 2000		
5.3	11.6	14.8	19.6	28.1	35.0												37.4	8.5	

PLAZA SIGN ILLUSTRATION

Mainline and Ramp: I-Pass Pictograph, Only (Type I) on Purple Background

[Not to scale]



Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner.

NOTE:
FOR USE ON TOLL PLAZA CANOPY
OR AS A PANEL.

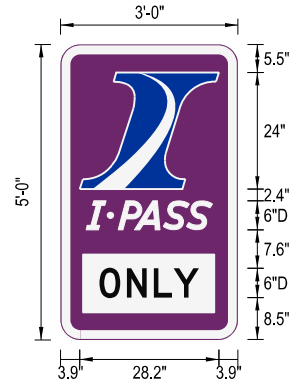
SIGN NUMBER	P-IT3A
MUTCD CITATION	2F.03, 2F.16
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT
IPASS Logo	0	1.5	13.5	45	45

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
O	N	L	Y												E 2000
4.1	14.8	25.5	33.8												39.9 10

PLAZA SIGN ILLUSTRATION
Ramp: I-Pass Pictograph, Only (Type II) on Purple Background

[Not to scale]



SIGN NUMBER	P-IT3B
MUTCD CITATION	2F.13
WIDTH x HGHT.	3'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Purple, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black /White

SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	3.8	30.5	28.5	24

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTE:
 FOR AUXILIARY SIGNAGE TO DIRECT
 MOTORIST TO ETC FACILITY.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE		
/	•	P	A	S	S												D 2000		
5.2	9.5	11.7	15.0	20.8	25.5												25.5	6	
O	N	L	Y															D 2000	
7.8	13.3	18.8	22.8															20.2	6

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Toll Plaza Name, Plaza Number

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

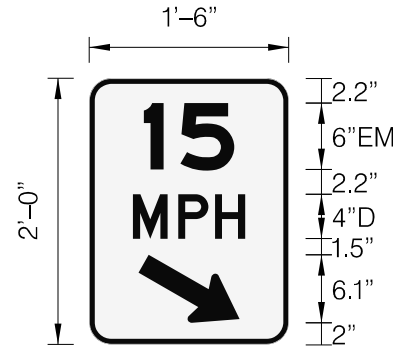
SIGN NUMBER	P-IT4
MUTCD CITATION	2A.06 & 2F.16
WIDTH x HGHT.	6'-0" x 3'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE		
D	E	K	A	L	B													EM 2000	
12.9	21.3	28.9	35.9	45.4	52.6													46.2	8
P	L	A	Z	A		6	6												EM 2000
5.4	13.3	19.7	28.6	36		52.1	60.2											61.3	8

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: IPO XX MPH, Directional Arrow

[Not to scale]



SIGN NUMBER	P-IT5A
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	1'-6" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.75"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

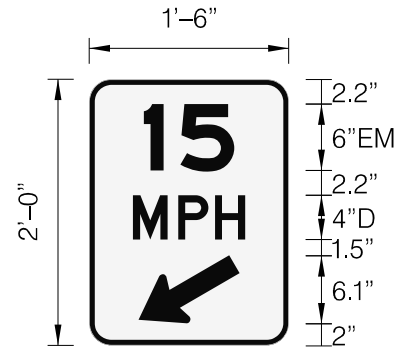
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	240	4.4	1.9	5	10

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
1	5																8.2	EM 2000
4.2	8.4																6	
M	P	H															10.1	D 2000
3.9	8	11.3															4	

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: IPO XX MPH, Directional Arrow

[Not to scale]



SIGN NUMBER	P-IT5B
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	1'-6" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.75"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

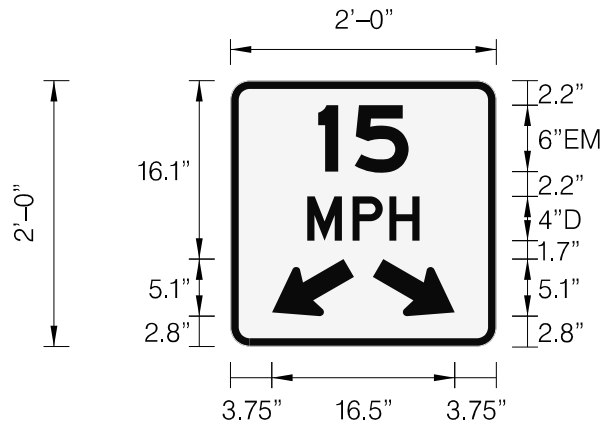
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	120	4.4	1.9	5	10

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
1	5															8.2	EM 2000
4.2	8.4															10.1	6
M	P	H															D 2000
3.9	8	11.3															4

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: IPO XX MPH, Dual Directional Arrows

[Not to scale]



SIGN NUMBER	P-IT5C
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	2'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.75"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

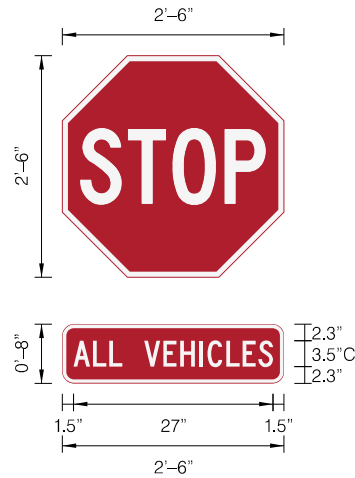
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	120	3.7	2.8	5	8
AR_Type D	240	12.9	2.7	5	8

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
1	5																EM 2000
7.9	11.2															8.2	6
M	P	H															D 2000
6.9	11	14.3														10.1	4

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: STOP, All Vehicles (Type I)

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

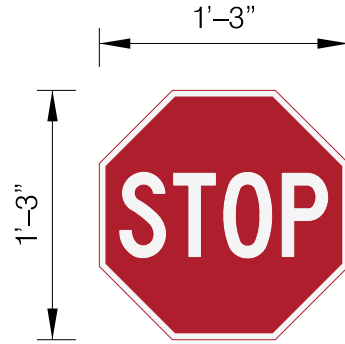
SIGN NUMBER	P-IT6A
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	2'-6" x 2'-6", 2'-6" x 0'-8"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Red
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
R1_1	0	0	0	30	30

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
S	T	O	P															25	C 2000 10
2.5	9	15	22																
A	L	L		V	E	H	I	C	L	E	S							27	C 2000 3.5
1.5	4.2	6.4		11.1	13.7	16	18.6	19.7	22.2	24.4	26.5								

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: STOP (Type II)

[Not to scale]



SIGN NUMBER	P-IT6B
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	1'-3" X 1'-3"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Gate Arm
BACKGROUND	TYPE: Reflective
	COLOR: Red
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
R1_1	0	0	0	15	15

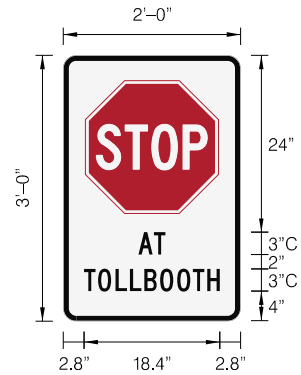
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

NOTES:
 MATERIAL IS FOAM BOARD.
 FOR USE ON TOLL PLAZA GATE ARM.

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
S	T	O	P														12.5	C 2000 5
1.25	4.5	7.5	11															

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: STOP, At Tollbooth

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

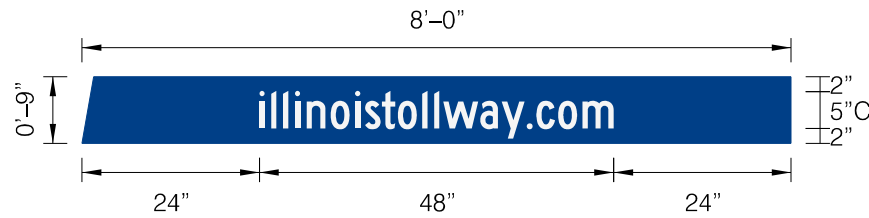
SIGN NUMBER	P-IT6C
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	2'-0" x 3'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.75"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

SYMBOL	ROT	X	Y	WID	HT
Rt_1	0	3	14	18	18

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE
S	T	O	P															3.6	C 2000 6
4.6	8.3	11.8	12.3															3.6	6
A	T																	3.6	C 2000 3
10.2	12.3																	3.6	3
T	O	L	L	B	O	O	T	H										18.4	C 2000 3
2.8	4.7	7.1	9	11	13.1	15.4	17.6	19.5										18.4	3

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Tollbooth Illinois Tollway Banner; illinoistollway.com (Type I)

[Not to scale]



SIGN NUMBER	P-IT7A
MUTCD CITATION	2A.06 & 2F.18
WIDTH x HGHT.	8'-0" x 0'-9"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Tollbooth
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /None

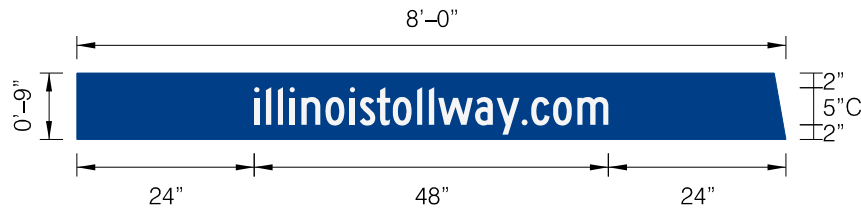
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE			
i	l	l	i	n	o	i	s	t	o	l	l	w	a	y	.	c	o	m				C 2000	
24	25.6	27.2	28.8	30.4	33.7	37	38.3	40.6	42.8	46.1	47.7	48.9	53.9	56.8	60.2	61.5	64.5	67.8				48	5/3.8

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Tollbooth Illinois Tollway Banner; illinoistollway.com (Type II)

[Not to scale]



SIGN NUMBER	P-IT7B
MUTCD CITATION	2A.06 & 2F.18
WIDTH x HGHT.	8'-0" x 0'-9"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Tollbooth
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /None

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE			
i	l	l	i	n	o	i	s	t	o	l	l	w	a	y	.	c	o	m				C 2000	
24	25.6	27.2	28.8	30.4	33.7	37	38.3	40.6	42.8	46.1	47.7	48.9	53.9	56.8	60.2	61.5	64.5	67.8				48	5/3.8

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Tollbooth I-Pass Banner; Get I-Pass & Get Going, getipass.com

[Not to scale]



SIGN NUMBER	P-IT7C
MUTCD CITATION	2A.06 & 2F.18
WIDTH x HGHT.	3'-6" x 0'-9"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Tollbooth
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /None

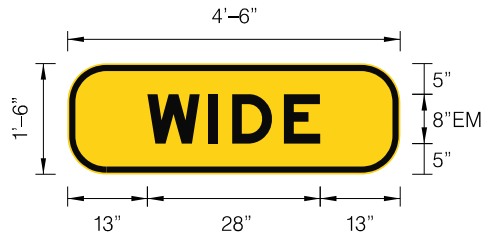
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE					
G	e	t	/	•	P	A	S	S	&	G	e	t	G	o	i	n	g					D 2000		
6.1	7.7	8.9	11.2	12.7	13.5	14.6	16.6	18.2	21.5	24.7	26.3	27.5	29.7	31.3	32.7	33.3	34.7					29.8	21.5	
g	e	t	i	p	a	s	s	.	c	o	m												D 2000	
5.5	8.8	11.2	13.4	15.5	18.4	21.3	23.5	25.6	27	29.7	33												31	3.5/2.6

PLAZA SIGN ILLUSTRATION
Mainline: Wide Sign

[Not to scale]



SIGN NUMBER	P-IT8A
MUTCD CITATION	2A.06 & 2F.16
WIDTH x HGHT.	4'-6" x 1'-6"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

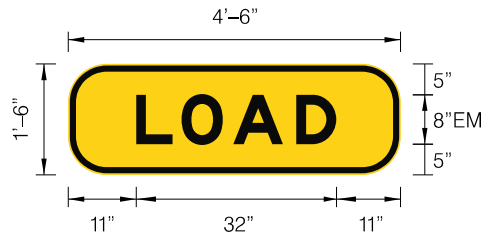
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
W	I	D	E														32.4	EM 2000 8

PLAZA SIGN ILLUSTRATION
Mainline: Load Sign

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	P-IT8B
MUTCD CITATION	2A.06 & 2F.16
WIDTH x HGHT.	4'-6" x 1'-6"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

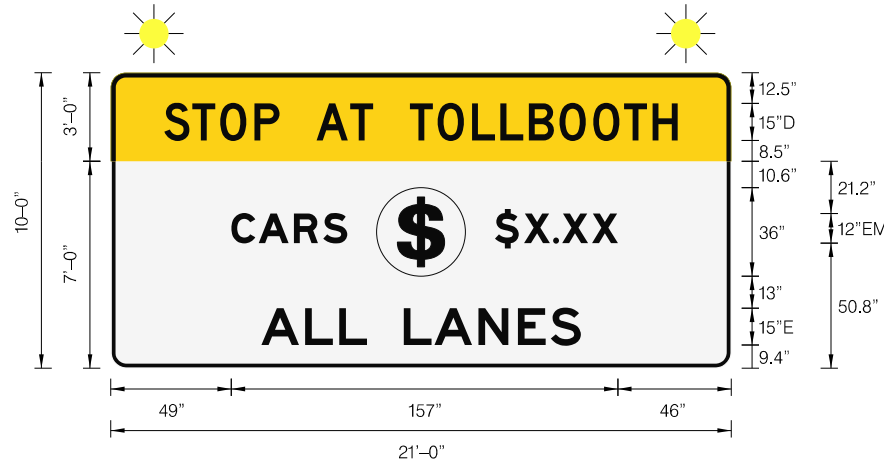
SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
L	O	A	D														32.4	EM 2000 8
10.8	21.8	27.4	37.3															

PLAZA SIGN ILLUSTRATION

Mainline: Stop At Tollbooth, Cars, Cash Pictograph, \$X.XX, All Lanes

[Not to scale]



SIGN NUMBER	P-IT9
MUTCD CITATION	2A.06, 2F.05 & 2F.13
WIDTH x HGHT.	21'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Yellow, White
LEGEND/BORDER	TYPE: Reflective COLOR: Black /Black

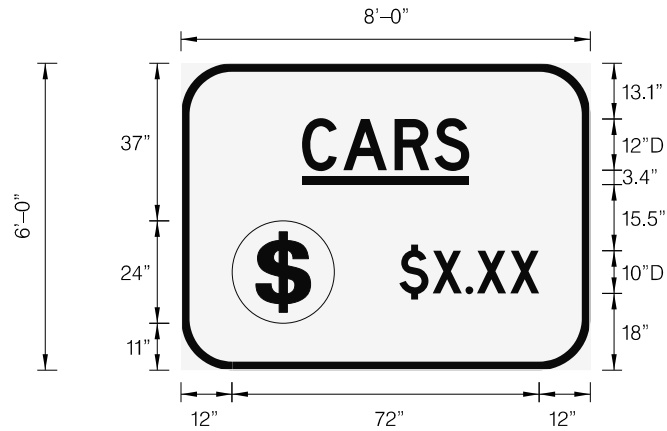
SYMBOL	ROT	X	Y	WID	HT
Cash	0	108	37.4	36	36

Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE						
S	T	O	P		A	T		T	O	L	L	B	O	O	T	H						D 2000		
21.8	33.2	44.4	58.4		83.6	97.2		121.5	132.8	146.7	158.3	169.8	182.3	195.9	208.5	220.1						208.5	15	
C	A	R	S																				EM 2000	
49	60.1	74.4	86.3																				47	12
\$	X	.	X	X																			EM 2000	
156	167.9	179.6	183.4	195.5																			49.9	12
A	L	L		L	A	N	E	S															E 2000	
61.1	79	92.8		119	131.5	149.3	165.4	178.7															129.8	15

PLAZA SIGN ILLUSTRATION
Mainline: Cars, Cash Pictograph, Toll \$X.XX

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	P-IT10
MUTCD CITATION	2A.06 & 2F.05
WIDTH x HGHT.	8'-0" x 6'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black /Black

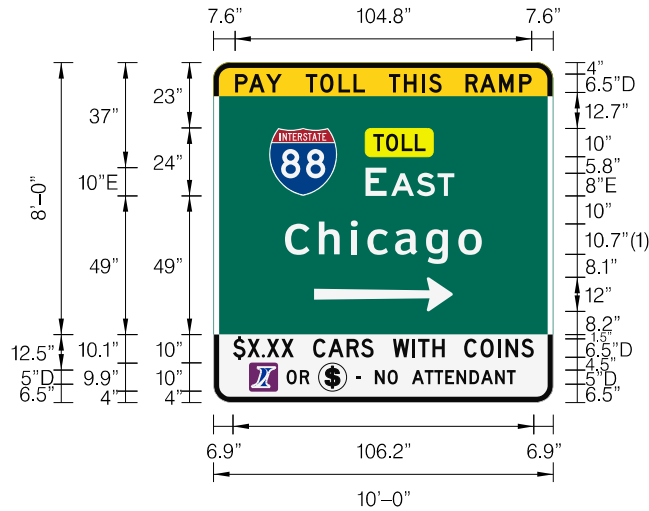
SYMBOL	ROT	X	Y	WID	HT
Cash	0	12	11	24	24

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
C	A	R	S													39.2	D 2000 12
28.4	38.1	50.1	59.5													32.8	D 2000 10
\$	X	.	X	X													
51.2	59	66.7	69.4	77.2													

PLAZA SIGN ILLUSTRATION

Ramp: Pay Toll This Ramp, Shield, Toll, Cardinal, Control Destination, Cross Arrow, Toll Panel

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	P-IT11
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	10'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	6"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective COLOR: Yellow, Green, White
LEGEND/BORDER	TYPE: Reflective COLOR: Black, White / Black, White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	19.7	49	24	24
AR_Type A	270	35.5	8.2	12	49
IPass	0	12.6	4	10	10
Cash	0	37.1	4	10	10

LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE				
P	A	Y		T	O	L	L		T	H	I	S		R	A	M	P					D 2000		
7.6	12.5	18.6		32.6	37.7	44.2	49.5		61.9	67.2	73.7	76.1		89	94.1	100.9	108					104.8	6.5	
T	O	L	L																				D 2000	
56.4	60.9	66.5	71.1																				18.4	6
E	A	S	T																				E 2000	
53.7	62.7	71.7	79.1																				31.4	10.8
C	h	i	c	a	g	o																	ClearviewHwy-5-W	
25.3	37.2	48.5	54.4	64.1	75	86.5																	69.5	10.7/8.7
\$	X	.	X	X		C	A	R	S		W	I	T	H		C	O	I	N	S		D 2000		
6.9	12	17	18.8	23.9		35.2	40.5	47	52.1		63.4	70.2	72.2	77.3		88.5	94.3	100.4	103.1	108.7		106.2	6.5	
O	R																						D 2000	
25.9	30.5																						8.1	5
-		N	O		A	T	T	E	N	D	A	N	T										D 2000	
50.3		57	61.5		70.1	74.6	78	81.9	85.8	90.4	94.5	99.5	103.6										56.5	5

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll Ahead, All Vehicles Must Stop,
I-Pass and Cash Pictographs, Coins, Fee Condition

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

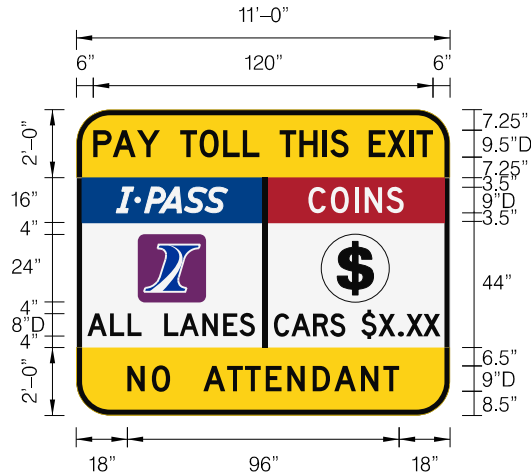
SIGN NUMBER	P-IT12A
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

SYMBOL	ROT	X	Y	WID	HT
IPass	0	3.8	24.3	18	18
Cash	0	74	24.3	18	18

LETTER POSITIONS (X)																			LENGTH	SERIES/SIZE		
P	A	Y		T	O	L	L		A	H	E	A	D							D 2000		
6.6	14	23.1		41.7	49.2	58.5	66.2		82.4	92.4	101.6	108.6	118.6							118.8	10	
A	L	L		V	E	H	I	C	L	E	S									D 2000		
18.7	28.7	36.4		52.6	61.7	69.6	78.8	82.6	91.6	99.3	106.5									94.6	10	
M	U	S	T		S	T	O	P												D 2000		
29.2	39.4	47.9	55.5		71.7	79.3	86.8	96.1												73.7	10	
/	•	P	A	S	S		O	R		C	O	I	N	S						D 2000		
23.7	28.9	31.5	35.4	42.3	47.9		58.7	64.8		96.7	102.8	109.3	112.1	118.1						118.9	7	
\$	X	.	X	X		C	A	R	S		W	I	T	H		C	O	I	N	S	D 2000	
5	11.9	18.9	21.8	27.9		39.3	45.5	53.2	59.2		70.5	78.5	80.7	86.5		97.8	104.5	111.4	114.1	120.6	121	8

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll This Exit, I-Pass, Coins, I-Pass and Cash
Pictographs, All Lanes, Fee Condition, No Attendant (2-3 Lanes)

[Not to scale]



SIGN NUMBER	P-IT12B
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Blue, Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /Black

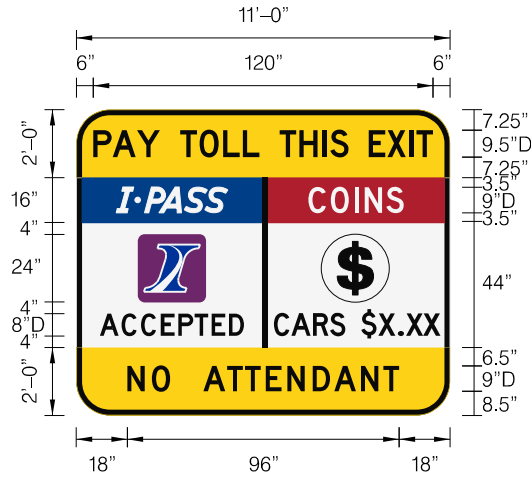
SYMBOL	ROT	X	Y	WID	HT
IPass	0	21.7	40	24	24
Cash	0	86.5	40	24	24

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE				
P	A	Y		T	O	L	L		T	H	I	S		E	X	I	T					D 2000	
6	12.9	21.4		36.7	43.5	51.8	58.8		71.8	78.8	86.9	89.7		103.2	109.8	117.5	120.1					120	9.5
/	•	P	A	S	S		C	O	I	N	S												D 2000
14.1	20.7	24.1	29.1	38.1	45.3		81.9	89.9	98.2	101.8	109.5											101.5	9
A	L	L		L	A	N	E	S		C	A	R	S		\$	X	.	X	X				D 2000
3.9	11.9	18.1		31.1	36.5	44.5	51.9	57.6		69.8	75.9	83.6	89.6		100.6	106.6	113.5	116.4	122.5			124.6	8
N	O		A	T	T	E	N	D	A	N	T												D 2000
18	26.7		44.9	53.3	59.5	66.9	74.5	83.4	91.1	100.5	108.4											96	9

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll This Exit, I-Pass, Coins, I-Pass and Cash
Pictographs, Accepted, Fee Condition, No Attendant (1 Lane)

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

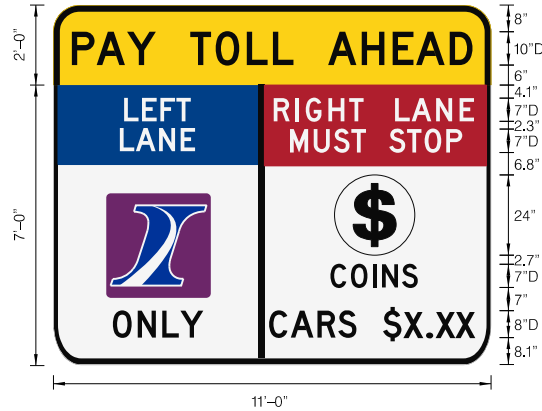
SIGN NUMBER	P-IT12C
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Blue, Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /Black

SYMBOL	ROT	X	Y	WID	HT
IPass	0	21.7	40	24	24
Cash	0	87	40	24	24

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE					
P	A	Y		T	O	L	L		T	H	I	S		E	X	I	T					D 2000	
6	12.9	21.4		36.7	43.5	51.8	58.8		71.8	78.8	86.9	89.7		103.2	109.8	117.5	120.1					120	9.5
/	•	P	A	S	S		C	O	I	N	S												D 2000
14.1	20.7	24.1	29.1	38.1	45.3		81.9	89.9	98.2	101.8	109.5											101.5	9
A	C	C	E	P	T	E	D		C	A	R	S		\$	X	.	X	X					D 2000
8.3	16	22.8	29.8	36	41.8	47.8	53.9		69.8	75.9	83.6	89.6		100.6	106.6	113.5	116.4	122.5				120.2	8
N	O		A	T	T	E	N	D	A	N	T												D 2000
18	26.7		44.9	53.3	59.5	66.9	74.5	83.4	91.1	100.5	108.4											96	9

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll Ahead, Lane Designation, I-Pass and
Cash Pictographs, Coins, Only, Fee Condition (2 Lanes)

[Not to scale]



SIGN NUMBER	P-IT12D
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	11'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Blue, Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /Black

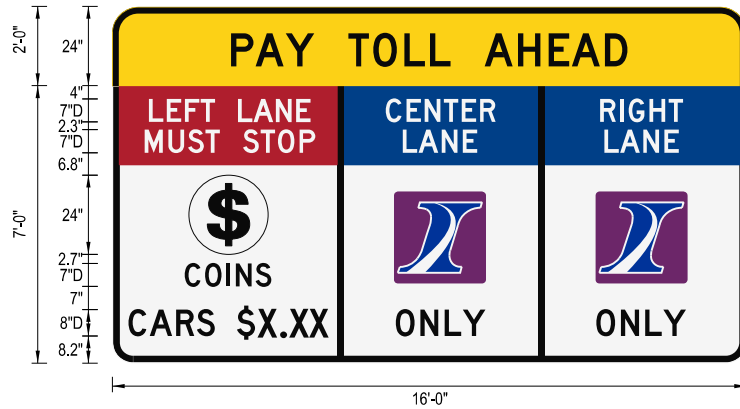
SYMBOL	ROT	X	Y	WID	HT
IPass	0	16	20	31.3	31.3
Cash	0	84.2	32.9	24	24

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE								
P	A	Y		T	O	L	L		A	H	E	A	D								D 2000		
17.7	25.2	32.5		38	64.6	71	79		85.3	98.7	105.4	112.2	114.7								118.8	10	
L	E	F	T																			D 2000	
21.1	26.5	32	36.8																			20	7
R	I	G	H	T		L	A	N	E													D 2000	
65.9	72.3	75.5	82.3	88.5		102.3	107.2	114.6	121.6													60	7
L	A	N	E																			D 2000	
19.9	24.6	31.6	38.1																			22.5	7
M	U	S	T		S	T	O	P														D 2000	
70.8	78	83.9	89.2		100.6	105.9	111.1	117.6														52	7
C	O	I	N	S																		D 2000	
82.9	89.1	95.6	98.4	104.3																		23	7
O	N	L	Y		C	A	R	S		\$	X	.	X	X								D 2000	
17.7	25.2	32.5	38		64.6	71	79	85.3		98.7	105.4	112.2	114.7	121.8								110	8

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll Ahead, Lane Designation, Cash and
I-Pass Pictographs, Coins, Fee Condition, Only (3 Lanes)

[Not to scale]



SIGN NUMBER	P-IT12F
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Red, Blue, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /Black

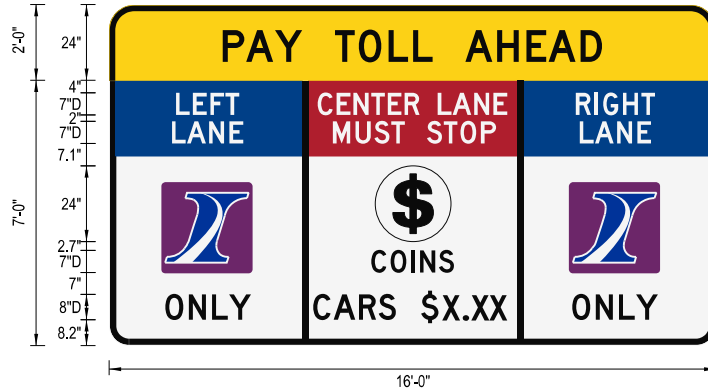
SYMBOL	ROT	X	Y	WID	HT
Cash	0	23.2	32.9	24	24
IPass	0	85.2	24.1	27.8	27.8
IPass	0	146.3	24.1	27.8	27.8

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES SIZE			
P	A	Y		T	O	L	L		A	H	E	A	D							D 2000			
34.5	41.9	51		71.6	79.1	88.5	96.2		114.4	124.4	133.7	140.7	150.7							123	10		
L	E	F	T	L	A	N	E	C	E	N	T	E	R	R	I	G	H	T			D 2000		
11.1	16.5	22	26.7	37.1	42.4	47.6	54.1	82.7	89	94.6	100.4	105.8	111.3	147.7	153.6	156.3	162.6	168.4			161.6	7	
M	U	S	T		S	T	O	P		L	A	N	E		L	A	N	E			D 2000		
9.8	16.9	22.9	28.2		39.6	44.9	50.1	56.6		87.9	92.7	99.7	106.1		148.9	153.7	160.7	167.1			162.4	7	
C	O	I	N	S																	D 2000		
21.9	28.1	34.6	37.4	43.3																	23	7	
C	A	R	S		\$	X	.	X	X		O	N	L	Y		O	N	L	Y		D 2000		
3.6	10	18	24.3		37.7	44.4	51.2	53.7	60.8		85.8	93.2	100.6	106		146.5	154	161.3	166.8		168	8	

PLAZA SIGN ILLUSTRATION
Ramp: Pay Toll Ahead, Lane Designation, I-Pass and Cash Pictographs, Coins, Only, Fee Condition (3 Lanes)

[Not to scale]



SIGN NUMBER	P-IT12G
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Blue, Red, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White /Black

SYMBOL	ROT	X	Y	WID	HT
IPass	0	16.5	22.9	28.8	28.8
Cash	0	84.2	32.9	24	24
IPass	0	145.5	22.9	28.8	28.8

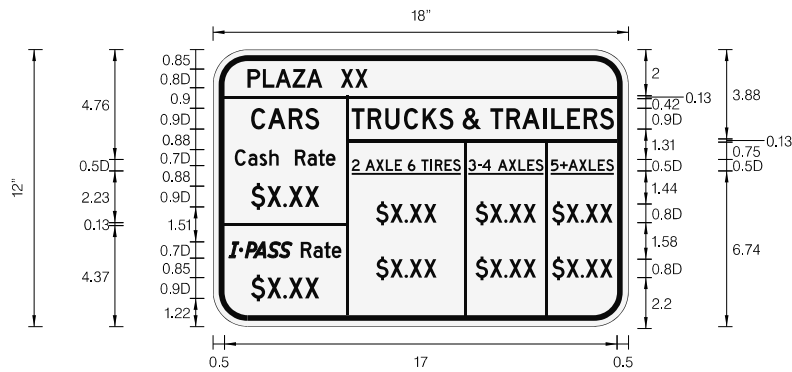
Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES-SIZE	
P	A	Y		T	O	L	L		A	H	E	A	D								123	D 2000 10
34.5	41.9	51		71.6	79.1	88.5	96.2		114.4	124.4	133.7	140.7	150.7									
L	E	F	T	C	E	N	T	E	R	L	A	N	E	R	I	G	H	T			150.5	D 2000 7
21.1	26.5	32	36.8	65.9	72	77.3	82.9	88.1	93.4	104	108.7	115.5	121.6	147.7	153.6	156.3	162.6	168.4				
L	A	N	E		M	U	S	T		S	T	O	P		L	A	N	E			150.5	D 2000 7
19.9	24.6	31.6	38.1		70.8	78	83.9	89.2		100.6	105.9	111.1	117.6		148.9	153.7	160.7	167.1				
C	O	I	N	S																	23	D 2000 7
82.9	89.1	95.6	98.4	104.3																		
O	N	L	Y		C	A	R	S		\$	X	.	X	X		O	N	L	Y		156	D 2000 8
17.7	25.2	32.5	38		64.6	71	79	85.3		98.7	105.4	112.2	114.7	121.8		146.5	154	161.3	166.8			

PLAZA SIGN ILLUSTRATION

Toll Booth: Vehicle Tolls

[Not to scale]



SIGN NUMBER	P-IT13A
MUTCD CITATION	2A.06
WIDTH x HGHT.	1'-6" x 1'-0"
BORDER WIDTH	0.25"
CORNER RADIUS	1.25"
MOUNTING	Tollbooth
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

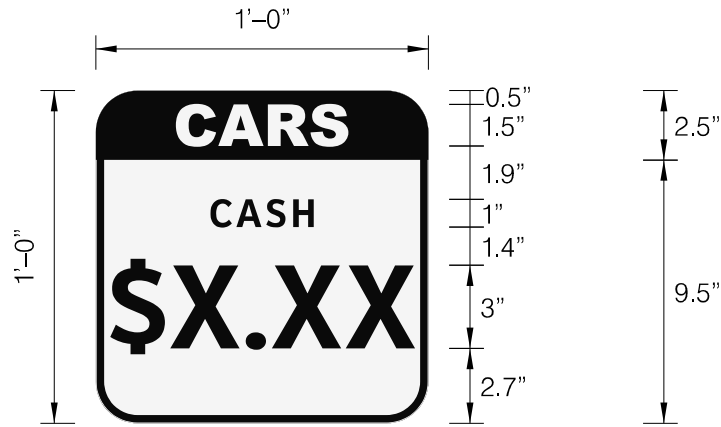
Dimensions are inches.tenths
Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE				
P	L	A	Z	A		X	X														5.2	D 2000 0.8			
1.5	2.2	2.7	3.5	4.1		5.5	6.2																		
C	A	R	S		T	R	U	C	K	S		&	T	R	A	I	L	E	R	S	15.7	D 2000 0.9			
1.7	2.4	3.3	4		6	6.7	7.5	8.3	9.1	9.8		10.8		12	12.7	13.4	14.3	14.7	15.3	16.1	16.8				
C	a	s	h		R	a	t	e													4.4	D 2000 0.70.5			
0.9	1.5	2	2.4		3.6	4.1	4.6	4.9																	
2		A	X	L	E		6		T	I	R	E	S		3	-	4		A	X	L	E	S	8.3	D 2000 0.5
6		6.6	7.1	7.5	7.9		8.4		9	9.4	9.6	10	10.4		11.1	11.5	11.7		12.3	12.8	13.2	13.6	14		
5	+	A	X	L	E	S																		2.7	D 2000 0.5
14.6	15	15.4	15.9	16.3	16.7	17																			
\$	X	.	X	X																				3	D 2000 0.9
1.6	2.4	3	3.3	4																					
\$	X	.	X	X		\$	X	.	X	X		\$	X	.	X	X								10.2	D 2000 0.8
7.1	7.7	8.3	8.5	9.1		11.4	12	12.6	12.8	13.5		14.7	15.3	15.9	16.1	16.8									
/	•	P	A	S	S		R	a	t	e														4.9	D 2000 0.70.5
0.7	1.2	1.4	1.7	2.4	2.9		3.8	4.4	4.8	5.2															
\$	X	.	X	X																				3	D 2000 0.9
1.6	2.4	3	3.3	4																					
\$	X	.	X	X		\$	X	.	X	X		\$	X	.	X	X								10.2	D 2000 0.8
7.1	7.7	8.3	8.5	9.1		11.4	12	12.6	12.8	13.5		14.7	15.3	15.9	16.1	16.8									

PLAZA SIGN ILLUSTRATION

Mainline: Car Tolls

[Not to scale]



SIGN NUMBER	P-IT13B
MUTCD CITATION	2A.06
WIDTH x HGHT.	1'-0" x 1'-0"
BORDER WIDTH	0.3"
CORNER RADIUS	1.5"
MOUNTING	Tollbooth
BACKGROUND	TYPE: Reflective
	COLOR: Black, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black

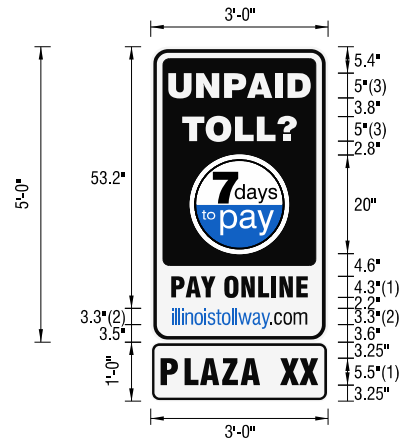
SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)																LENGTH	SERIESSIZE
C	A	R	S													6.2	Arial Black 1.5
2.9	4.4	6.2	7.7													3.7	ClearviewHwy-4-B 1
C	A	S	H													11	ClearviewHwy-4-B 3
4.1	5.1	6.2	7.1														
\$	X	.	X	X													
0.5	2.7	5.4	6.4	9													

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Unpaid Toll?, 7 Days to Pay,
Pay Online, illinoistollway.com, Plaza XX (Type I)

[Not to scale]



SIGN NUMBER	P-IT14A
MUTCD CITATION	2A.06 & 2F.18
WIDTH x HGHT.	3'-0" x 6'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White, Black
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black, Blue /Black

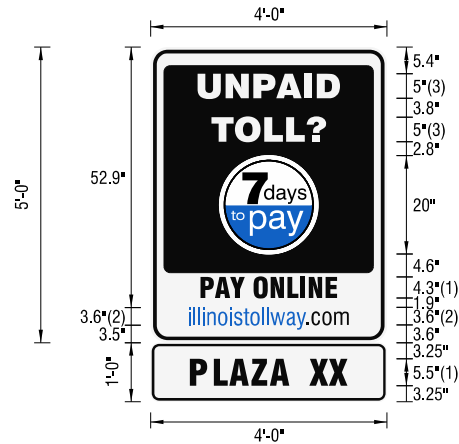
SYMBOL	ROT	X	Y	WID	HT
7days to pay	0	8	18	20	20

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE
U	N	P	A	I	D														28.9	Swis721 Blk BT 5
3.5	9.2	14.9	19.5	25.1	27.8														23.3	Swis721 Blk BT 5
T	O	L	L	?															27.7	Swis721 BlkCn BT 4.3
6.4	11.2	17.1	21.5	25.7															27.5	Swis721 Cn BT 3.3/2.5
P	A	Y		O	N	L	I	N	E										32	Swis721 BlkCn BT 5.5
4.1	7.1	10.1		14.9	18.4	21.8	24.4	26.2	29.5											
i	l	l	i	n	o	i	s	t	o	l	l	w	a	y	.	c	o	m		
4.3	5	5.6	6.3	7	8.9	10.9	11.6	13.2	14.5	16.5	17.2	17.7	20.7	22.5	24.3	25	26.9	29		
P	L	A	Z	A		X	X													
2	6.8	10	14.5	18.2		26.2	30.2													

PLAZA SIGN ILLUSTRATION
Mainline and Ramp: Unpaid Toll?, 7 Days to Pay,
Pay Online, illinoistollway.com, Plaza XX (Type II)

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

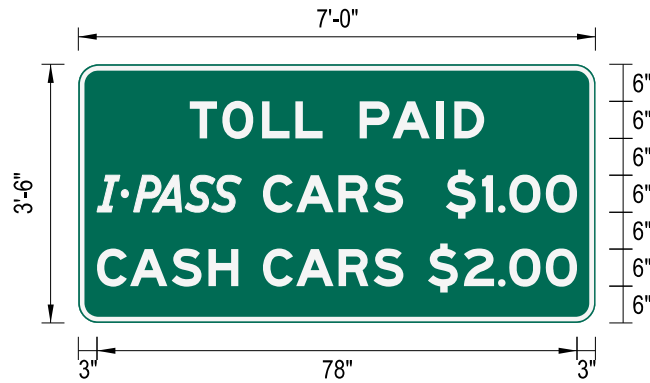
SIGN NUMBER	P-IT14B
MUTCD CITATION	2A.06 & 2F.18
WIDTH x HGHT.	4'-0" x 6'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: White, Black
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black, Blue /Black

SYMBOL	ROT	X	Y	WID	HT
7days to pay	0	14	18	20	20

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE	
U	N	P	A	I	D														28.9	Swis721 Blk BT 5
9.5	15.2	20.9	25.5	31.1	33.7														23.3	Swis721 Blk BT 5
T	O	L	L	?															27.7	Swis721 BlkCn BT 4.3
12.4	17.2	23.1	27.5	31.7															32.5	Swis721 Cn BT 3.6/2.7
P	A	Y		O	N	L	I	N	E										32	Swis721 BlkCn BT 5.5
10.1	13.1	16.1		20.9	24.4	27.8	30.4	32.1	35.5											
i	l	l	i	n	o	i	s	t	o	l	l	w	a	y	.	c	o	m		
7.7	8.7	9.6	10.6	11.5	13.7	16.1	17	18.9	20.3	22.6	23.6	24.3	27.6	29.6	31.6	32.7	34.9	37.3		
P	L	A	Z	A		X	X													
8	12.8	16	20.5	24.2		32.2	36.2													

PLAZA SIGN ILLUSTRATION
Toll Plaza Approach: Toll Paid Signage

[Not to scale]



SIGN NUMBER	P-IT14C
MUTCD CITATION	-
WIDTH x HGHT.	7'-0" x 3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

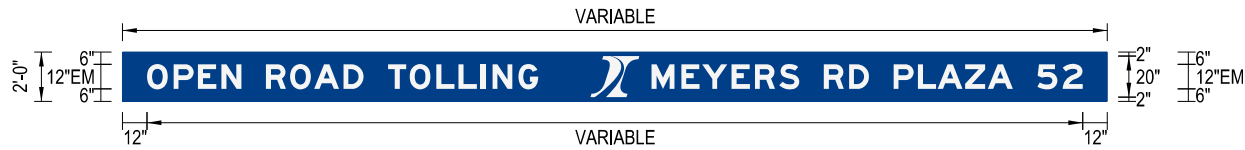
SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches.tenths
 Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE					
T	O	L	L		P	A	I	D												HWY E MOD			
18.1	23.4	29.9	35.3		45.7	51	58.2	61.1												47.8	6		
/	•	P	A	S	S		C	A	R	S		\$	1	.	0	0					HWY E MOD		
3	7	9	12	17.3	21.7		30	35.4	42.2	47.9		59.7	65.6	68.2	70	76					78	6	
C	A	S	H		C	A	R	S		\$	2	.	0	0							HWY E MOD		
3	8.4	15.2	21.1		30	35.4	42.3	47.9		56.8	62.6	68.2	70	76							78	6	

PLAZA SIGN ILLUSTRATION
Overhead Open Road Tolling Signage

[Not to scale]



SIGN NUMBER	P-IT15
MUTCD CITATION	-
WIDTH x HGHT.	VARIABLE x 2'-0"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Blue

SYMBOL	ROT	X	Y	WID	HT
Tollway Logo	0	228.1	2	23.9	20

Dimensions are in inches.tenths
 Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE					
O	P	E	N		R	O	A	D		T	O	L	L	I	N	G					EM 2000	
12	25	36.8	48.2		70	81.7	93.5	107.8		129.5	140	153	163.8	174.6	180.4	193				190.7	12	
M	E	Y	E	R	S		R	D		P	L	A	Z	A		5	2					EM 2000
257.9	272.4	282.6	296.9	308.3	320.2		341.9	354.1		375.8	387.7	397.3	410.8	421.8		445.9	458.3				210.1	12



8. Electronic Toll Signs

8 - Electronic Toll Signs

8.1 – Electronic Toll Sign Application

Electronic Toll signs should be used to indicate that only vehicles with registered ETC accounts are allowed to use a highway lane, toll plaza, an ORT lane, or all lanes of a toll highway or connection. Electronic Toll signs should incorporate the *I-Pass* and/or EZ Pass pictographs and indicate the method(s) of payment accepted at the toll. Reference is made to *MUTCD* Chapter 2F, “Toll Road Signs” for design and layout considerations for Electronic Toll signing on the Tollway.

8.2 - Electronic Toll Sign Shape, Color and Size

Electronic Toll signs shall be rectangular in shape and sized according to the messages on the face of the signs. When signs are mounted adjacent to each other, sizes and shapes should be the same, if practical, for visual simplicity. The *I-Pass* pictograph shall have a purple background while the remaining portions of such signs shall comply with regulatory, warning, or guide sign requirements.

8.3 - Electronic Toll Sign Descriptions

The Electronic Toll sign illustrations in this chapter are described in the following sections, which detail the sign application, color, legend, layout and placement. All Electronic Toll sign illustrations follow the text below, and a list of illustrations is included at the end of the chapter. The illustration identifier is listed in parentheses following each sign name.

8.3.1 - Exit Direction Sign (Illustration ET-IT1)

Application: Exit Direction signs indicate the ramp crossroad as well as the presence of ETC only. **Color:** The background consists of purple, yellow, and green panels as shown in the illustration. **Legend:** The legend should be white and black and include *I-PASS ONLY*, CASH NOT ACCEPTED, TO Control Destination. **Diagrams and Symbols:** The *I-Pass* pictograph shall be used, but with a white background color to contrast the purple panel. A standard *MUTCD* directional arrow shall also be used. **Layout:** The legend should be centered horizontally on each respective panel of the sign. **Placement:** The Exit Direction sign shall be mounted overhead approximately 500' prior to the exit ramp for the stated intersecting road.

8.3.2 - Pay Toll This Exit Sign (Illustration ET-IT2)

Application: The Pay Toll This Exit sign indicates to the driver that they must pay a toll at the upcoming exit as well as the presence of ETC only. **Color:** The background shall consist of purple and yellow panels as shown in the illustration. **Legend:** The legend should be black and white and include PAY TOLL THIS EXIT, *I-PASS ONLY*, CASH NOT ACCEPTED. **Diagrams and Symbols:** The *I-Pass* pictograph shall be used, but with a white background color to contrast the purple panel. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The Pay Toll This Exit Sign shall be placed overhead, approximately 1000' prior to the referenced approaching exit.

8.3.3 - Crossroads Sign with Top and Bottom Toll Panels (Illustration ET-IT3)

Application: The Crossroads Sign with Top and Bottom Panels indicates the ramp to the toll road and the presence of the presence of ETC only. **Color:** The background consists of yellow, purple, and green panels with a black and white border as shown in the illustration. **Legend:** The legend should be black and white and include PAY TOLL THIS RAMP, *I-PASS ONLY*, TOLL, CARDINAL, Control Destination, CASH NOT ACCEPTED. **Diagrams and Symbols:** The *I-Pass* pictograph shall be used, but with a white background color to contrast the purple panel. A standard *MUTCD* directional arrow and shield shall also be used. **Layout:** The legend should be centered horizontally on each respective panel of the sign.

Placement: The Crossroads Sign with Top and Bottom Panels shall be mounted just ahead of the entrance ramp to the Tollway, on the right side of the road.

8.3.4 - Advance Exit Sign (Illustration ET-IT4)

Application: The Advance Exit Sign indicates the approaching exit as well as the presence of ETC only. **Color:** The background consists of purple, yellow, and green panels with a white and black border as shown in the illustration. **Legend:** The legend should be white and black and include *I-PASS ONLY*, CASH NOT ACCEPTED, To Street Name, X Mile. **Diagrams and Symbols:** The *I-Pass* pictograph shall be used, but with the white background color to contrast the purple panel. **Layout:** The legend should be centered horizontally on each respective panel of the sign. **Placement:** Advance Exit signs are mounted overhead at ½ mile prior to the exit.

8.3.5 - Advance Exit Sign (Illustration ET-IT5)

Application: The Advance Exit Sign indicates the approaching exit as well as the presence of ETC only. **Color:** The background consists of purple and green panels with a white border as shown in the illustration. **Legend:** The legend should be white and include *I-PASS ONLY*, To Street Name, X Mile. **Diagrams and Symbols:** The *I-Pass* pictograph shall be used, but with the white background color to contrast the purple panel. **Layout:** The legend should be centered horizontally on

each respective panel of the sign. **Placement:** Advance Exit signs are mounted overhead at 1 mile prior to the exit.

8.3.6 - Advance Toll Sign (Illustration ET-IT6)

Application: The Advance Toll Sign indicates the approaching exit as well as the presence of ETC only. **Color:** The background consists of green background with a yellow panel on the top. **Legend:** The legend should be black and white and include the words PAY TOLL 2 MILES, ACCEPTED FOR ALL TOLLS. **Diagrams and Symbols:** The *I-Pass* pictograph and the E-Z Pass pictograph shall be used. **Layout:** The legend should be centered horizontally on each respective panel of the sign. **Placement:** Advance Toll signs are mounted overhead 2 miles prior to the exit.

8.3.7 - AET (All Electronic Tolling)

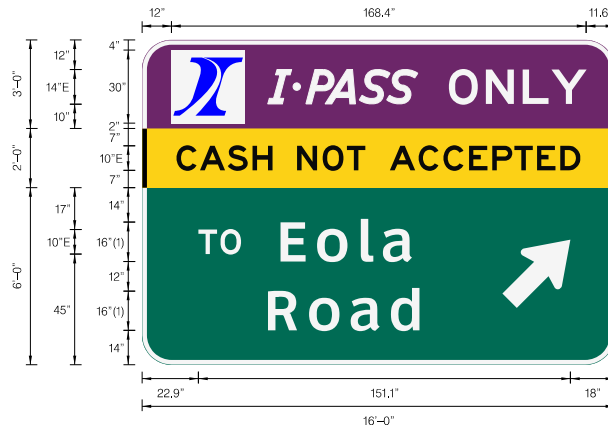
All Electronic Tolling (AET) is any form of tolling that does not involve manual payment of tolls (e.g., by cash, coin or credit card) and in which payment locations are unstaffed. AET may apply to an entire facility or to a specific payment location and is implemented through Electronic Toll Collection (ETC). ETC payment lanes may be co-located with manual payment lanes, in which case the location is *not* an AET site. National standards for AET signing have not yet been established, and the Tollway likewise has not yet developed AET sign standards. When the Tollway does establish such standards, they will be added to the RSPMG.

ELECTRONIC TOLL COLLECTION (ET) ONLY SIGN ILLUSTRATION LIST

Number	Placement	Legend	Page
ET-IT1	Electronic Toll	Exit Direction: <i>I</i> ●Pass Pictograph, <i>I</i> ●Pass Only, Cash Not Accepted, To Control Destination, Directional Arrow	8 - ET-IT1
ET-IT2	Electronic Toll	Pay Toll This Exit: Pay Toll This Exit, <i>I</i> ●Pass Pictograph, <i>I</i> ●Pass Only, Cash Not Accepted	8 - ET-IT2
ET-IT3	Electronic Toll	Crossroads with Top and Bottom Toll Panels: Pay Toll This Ramp, <i>I</i> ●Pass Pictograph, <i>I</i> ●Pass Only, Shield, Toll, Cardinal, Control Destination, Cross Arrow, Cash Not Accepted	8 - ET-IT3
ET-IT4	Electronic Toll	Advance Exit: <i>I</i> ●Pass Pictograph, <i>I</i> ●Pass Only, Cash Not Accepted, To Street Name, X Mile	8 - ET-IT4
ET-IT5	Electronic Toll	Advance Exit: <i>I</i> ●Pass Pictograph, <i>I</i> ●Pass Only, To Street Name, X Mile	8 - ET-IT5
ET-IT6	Electronic Toll	Advance Toll: Pay Toll 2 Miles, <i>I</i> ●Pass and E-ZPass Pictographs, Accepted For All Tolls	8 - ET-IT6

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Exit Direction: I-Pass Pictograph, I-Pass Only, Cash Not Accepted,
To Control Destination, Directional Arrow

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

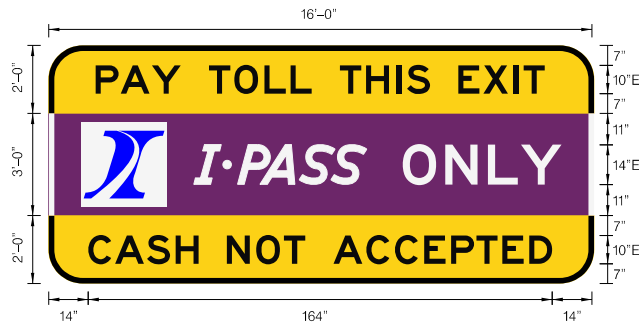
SIGN NUMBER	ET-IT1
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	12	98	30	30
AR_Type D	315	146.3	23.2	22.2	35

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE					
/	•	P	A	S	S		O	N	L	Y											E 2000		
51.1	61.3	66.5	74.3	88.2	99.4		124.5	139.5	154.5	166.1											134.7	14	
C	A	S	H		N	O	T		A	C	C	E	P	T	E	D						E 2000	
14	23.5	34.8	44.9		63	73.4	83.2		100.7	112.3	122.4	132.8	142.3	151.2	160.4	169.9						164	10
T	O		E	o	I	a																E 2000,	
18	26.9		51.3	66.2	84	92.9																ClearviewHwy-5-W	
																						10,1613	
R	o	a	d																			ClearviewHwy-5-W	
51.1	67.9	84.7	101.1																			61.6	1613

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Pay Toll This Exit: Pay Toll This Exit, I-Pass Pictograph, I-Pass Only, Cash Not Accepted

[Not to scale]



SIGN NUMBER	ET-IT2
MUTCD CITATION	2A.06, 2F.09 & 2F.12
WIDTH x HGHT.	16'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Purple
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

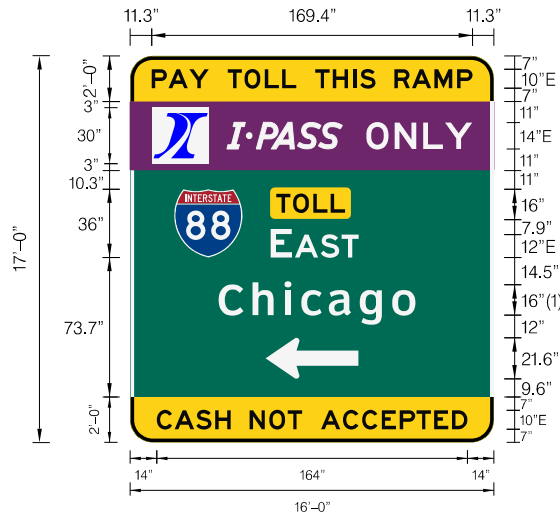
SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	11.8	27.1	30	30

Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE						
P	A	Y		T	O	L	L		T	H	I	S		E	X	I	T					E 2000		
16.6	25.5	36.5		56.7	65.6	76.3	85.5		103	112.2	122.9	126.7		144.8	153.7	164.4	167.9					158.8	10	
/	•	ℙ	ℳ	ℳ	ℳ		O	N	L	Y													E 2000	
51.1	61.3	66.5	74.3	88.2	99.4		124.5	139.5	154.5	166.1												134.7	14	
C	A	S	H		N	O	T		A	C	C	E	P	T	E	D							E 2000	
14	23.5	34.8	44.9		63	73.4	83.2		100.7	112.3	122.4	132.8	142.3	151.2	160.4	169.9							164	10

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Crossroads w/ Top & Bottom Toll Panels: Pay Toll This Ramp, I-Pass Pictograph,
I-Pass Only, Shield, Toll, Cardinal, Control Destination, Cross Arrow, Cash Not Accepted

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	ET-IT3
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 17'-0"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Green, Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	11.7	147	30	30
M1_1	0	23.2	73.7	36	36
AR_Type D	90	71.5	9.6	21.6	49

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE						
P	A	Y		T	O	L	L		T	H	I	S		R	A	M	P					E 2000		
11.3	20.2	31.2		51.4	60.3	71	80.2		97.7	106.9	117.6	121.4		139.5	148.7	160.6	172.6					169.4	10	
/	•	P	A	S	S		O	N	L	Y													E 2000	
51.1	61.3	66.5	74.3	88.2	99.4		124.5	139.5	154.5	166.1												134.7	14	
T	O	L	L																				D 2000	
75.8	84.8	96	105.2																				36.3	10
E	A	S	T																				E 2000	
74.2	87	100.6	111.6																				46.4	15,12
C	h	i	c	a	g	o																	ClearviewHwy-5-W	
46.8	64.6	81.5	90.3	104.8	121.2	138.3																	103.9	1613
C	A	S	H		N	O	T		A	C	C	E	P	T	E	D							E 2000	
14	23.5	34.8	44.9		63	73.4	83.2		100.7	112.3	122.4	132.8	142.3	151.2	160.4	169.9							164	10

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Advance Exit: I-Pass Pictograph, I-Pass Only, Cash Not Accepted, To Street Name, X Mile

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

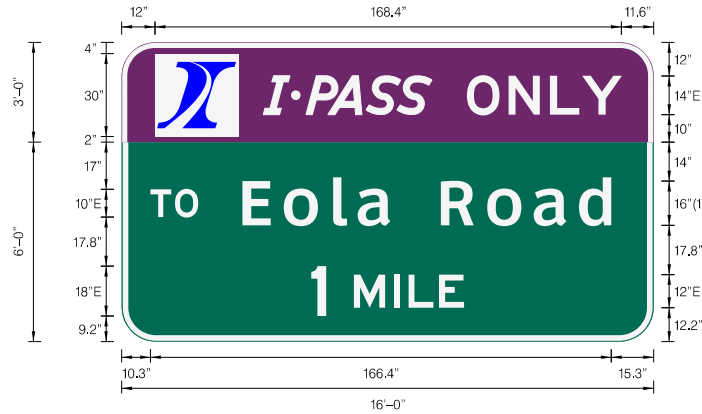
SIGN NUMBER	ET-IT4
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black / White, Black

SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	12	98	30	30

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE			
/	•	P	A	S	S		O	N	L	Y										E 2000		
51.1	61.3	66.5	74.3	88.2	99.4		124.5	139.5	154.5	166.1										134.7	14	
C	A	S	H		N	O	T		A	C	C	E	P	T	E	D					E 2000	
14	23.5	34.8	44.9		63	73.4	83.2		100.7	112.3	122.4	132.8	142.3	151.2	160.4	169.9					164	10
T	O		E	o	I	a		R	o	a	d										E 2000, ClearviewHwy-5-W	
10.3	19.2		43.6	58.5	76.3	85.2		115.2	131.9	148.8	165.1									166.4	10,16/13	
12	M	I	L	E																	E 2000	
58	94.3	108.7	114	125																	76.1	18,12

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Advance Exit: I-Pass Pictograph, I-Pass Only, To Street Name, X Miles

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	ET-IT5
MUTCD CITATION	2A.06 & 2F.13
WIDTH x HGHT.	16'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black /White

SYMBOL	ROT	X	Y	WID	HT
IPass Logo	0	12	74	30	30

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE			
/	•	P	A	S	S		O	N	L	Y								E 2000		
51.1	61.3	66.5	74.3	88.2	99.4		124.5	139.5	154.5	166.1								134.7	14	
T	O		E	o	I	a		R	o	a	d								E 2000, ClearviewHwy-5-W	
10.3	19.2		43.6	58.5	76.3	85.2		115.2	131.9	148.8	165.1							166.4	10,16/13	
1	M	I	L	E															E 2000	
58	94.3	108.7	114	125															76.1	18,12

ELECTRONIC TOLL COLLECTION ONLY SIGN ILLUSTRATION
Advance Toll: Pay Toll 2 Miles, I-Pass and E-ZPass Pictographs, Accepted For All Tolls

[Not to scale]



Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

SIGN NUMBER	ET-IT6
MUTCD CITATION	2A.06, 2F.07 & 2F.13
WIDTH x HGHT.	19'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Yellow, Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black, White / Black, White

SYMBOL	ROT	X	Y	WID	HT
IPass	0	40	62.1	33	41.2
EZPass	0	88.1	70.7	100.1	23.9

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE						
P	A	Y		T	O	L	L		2		M	I	L	E	S						E 2000		
10.6	23.1	38.5		66.7	79.2	94.2	107.1		129.6		157.8	174.6	180.7	193.6	206.1						206.8	14,20	
A	C	C	E	P	T	E	D															E 2000	
52.2	70.7	86.9	103.5	118.7	133	147.7	162.9															123.7	16
F	O	R		A	L	L		T	O	L	L	S										E 2000	
16.6	30.8	47.9		76.9	95.9	110.7		138.7	152.9	170	184.7	198.5										194.9	16



9. Information Signs

9 - Information Signs

9.1 - Information Sign Application

Information Signs are signs that give identification and directional information about services, tolling, and other destinations of interest to motorists, but are not signs essential to safe and efficient use of the roadway.

For safe use of the Tollway, especially in dense or densely-developing suburban areas, Information Signs shall be limited to:

Crossroads: street name or route identification
General motorist services: phone, food, fuel, lodging
Transit services and facilities

For application criteria, see the *Traffic Generator and Specific Service Sign Policy Guide*.

Major traffic generators may be included on Information Signs in advance of exits, but shall be limited to: cultural facilities, governmental facilities, law enforcement agencies, higher educational facilities, recreational facilities, transit facilities, points of interest, airports, and municipalities.

9.2 - Information Sign Location

Information Signs are supplemental and should be placed to not adversely affect the safe viewing and comprehension of regulatory, warning or guide signs. Generally, Information Signs should be located in advance of exits, on exit ramps, or at plazas and Oases, and should be severely limited in quantity on any section of the roadway. Multiple Information Signs shall be staggered and not placed together on a single mounting.

9.3 - Information Sign Shape, Color and Size

Information Signs are generally rectangular in shape and sized according to the message displayed on the face of the signs. Since these signs are supplemental in nature, they should not be excessive in size. Due to the different types of information these signs provide, several different background colors may be used.

Blue – Gas, Food, Lodging, Attractions, and 24-Hour Pharmacies

Brown – Recreational, Cultural Interest, and Points of Interest

Green – Crossroad identification, mileposts, park-ride guide, waterway, county line, and airport

White – Tollway and tolling information signs

The messages of Information Signs should be expressed in a minimum number of words, using generic names or symbols when possible. For example the word "COURTHOUSE" on a NEXT

RIGHT sign is sufficient to direct motorists to exit the Tollway. Information Signs may display arrows or diagrams as well as directional words such as KEEP RIGHT.

9.4 - Information Sign Layout

Information Sign layouts shall center legends horizontally on the sign. Symbols and pictographs shall be sized proportionally to create an attractive appearance – neither too small nor too large to be easily comprehended.

9.5 - Information Sign Approvals

Information Signs are strictly supplemental to Regulatory, Warning and Guide signs. The Tollway Chief Engineer or designee shall approve all proposed Information Signs, and shall not allow any Information Signs if the safe use of the roadway is compromised by such signage. Refer to Chapter 1 for sign application and approval process outline.

9.6 - Other Information Signs

Other Information signs and signing shall be in accordance with the *MUTCD*.

9.7 - Information Sign Descriptions

All Information sign illustrations follow the text below and a list of illustrations is included at the end of the chapter. The illustration identifier is listed in parentheses following each application name.

9.7.1 - Crash Investigation Site Signs (Illustrations I-IT1A-E)

Application: The Crash Investigation Site (CIS) Sign is a movement information sign, which alerts and directs motorists to move their vehicle from the lane in the event of a crash. **Color:** The background should be blue and the border should be white. **Legend:** Refer to illustrations. **Diagrams and Symbols:** A directional arrow may be used pointing in the direction of the site. **Layout:** The legend should be centered horizontally on the sign. **Placement:** The CIS sign should be shoulder-mounted 2 (in rural areas), 1, and 1/2 mile in advance of the site. An additional CIS sign stating the name of the plaza or milepost, Tollway name, phone number to report a crash, and an emergency number should be placed at the CIS location.

9.7.2 - Milepost Marker Variations (Illustration I-IT2)

Application: Milepost Markers are reference location signs that are placed on the Tollway to assist

road users in estimating their progress, to provide means for identifying the location of emergency incidents and traffic crashes, and to aid in the Tollway maintenance and servicing (see *MUTCD* Section 2H.05-06). **Color:** Milepost Markers should be green with a white legend and border. **Legend:** The cardinal direction should be displayed horizontally across the top of the sign. The mileage should be a whole number with fractional numbers at quarter-mile locations. **Diagrams and Symbols:** Shields should be used for routes. **Layout:** The legend elements should be centered horizontally on the signs. **Placement:** Milepost Markers should be placed at quarter-mile intervals. Milepost Markers should be placed according to *MUTCD* standards. Where sound walls exist, Milepost Markers can be mounted on the walls and on the median barrier wall.

9.7.3 - Airport Signs

Application: Airport Signs may be implemented if the airport is defined by the Tollway as regional and the majority of the users reside outside of the immediate area. The airport must be within 5 miles of the Tollway in urban conditions and within 10 miles of the Tollway in rural conditions. **Color:** Airport signs shall have a green retroreflective background with white lettering and border. **Diagrams and Symbols:** The airport symbol can be used in combination with the supplemental guide sign for commercial airports only. Standard *MUTCD* symbols should be used. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** Airport Signs should be placed in advance of the exit or interchange needed to access the service. Supplemental Guide

Signs on the ramp may be needed to give the motorist additional directions. These signs are not permitted on sound walls. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow. For additional Airport sign outlines, see *MUTCD* Section 2H.02.

9.7.4 - Alternate Transportation Signs (Illustrations I-IT3A-D)

Application: Where alternate transportation by rail or bus is available within 3 miles of an exit or intersection, Alternate Transportation signs may be used to guide motorists. Park-ride facilities must be located adjacent to the Tollway and be governmentally owned and operated as part of a carpool, van-pool, or other public transportation program. In areas having carpool matching services, Carpool Information Signs may be provided adjacent to highways. The transit facilities must have greater than 1,000 general use parking spaces for daily patron use. **Color:** Alternate Transportation signs vary in shape and size. All should have a blue background with the exception of the Park-Ride sign that has a green background. Alternate Transportation signs have a white legend and border. **Legend:** Alternate Transportation signs should identify the nature of the transit service offered, may display Internet addresses or telephone numbers, and may use directional arrows or exit messages such as NEXT EXIT or THIS EXIT. Three (3) logos should be the maximum number allowed on one sign. Legends may include the following:

Amtrak (logo)
 CTA (logo)
 METRA (logo)
 Pace (logo)
 Suburban Transit Information
 Share the Drive
 Park-Ride

Diagrams and Symbols: Standard *MUTCD* symbols and transportation agency logos should be used. **Layout:** The legend should be centered horizontally on the sign. **Placement:** Alternate Transportation signs should be placed in advance of the exit or interchange needed to access the service. Supplemental Guide signs on the ramp may be needed to give the motorist additional directions. These signs are not permitted on sound walls. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.5 - Carpool and Ridesharing Signs

See Alternate Transportation Signs I-IT3A-D and *MUTCD* Section 2I.11.

9.7.6 - Educational Institution Signs

Educational Institutions Signs must follow the requirements of the *Traffic Generator and Service Sign Policy Guide* and the *MUTCD*. Educational Institution Signs shall not compromise the safe use of

the roadway system, and therefore must be reviewed and approved by the Tollway.

9.7.7 - Emergency Management Signs

Emergency Management signs shall be in accordance with *MUTCD Chapter 2N*. Temporary Construction signs and signing shall be placed in accordance with *MUTCD*.

9.7.8 - General Service Signs

General Service Signs (also known as Motorist Service Signs) shall be placed in accordance with *MUTCD Chapter 2I*.

9.7.9 - Identification Signs (Illustrations I-IT4A-E)

Application: Identification Signs provide the name of a county, crossroad, memorial highway, or waterway. Bridge signs identify a crossroad by route number or street name where there is no exit or no exit Guide sign identifying the crossroad. If a Tollway is officially designated as a Memorial Highway, a Memorial Highway sign may be installed on the mainline. Memorial Highway names, however, should not appear on Guide signs. **Color:** Identification Signs may have a green or brown background with a white border and legend. **Legend:** Abbreviations such as CO, RTE, RD, AVE, and ST are acceptable (See

MUTCD Section 1A.15). No punctuation should follow abbreviations. The legend may include the following:

Interstate Route Number
Crossroad Name
Waterway Name
Name County
Memorial Highway

Diagrams and Symbols: Insert profile image or pictograph image as described in illustration. **Layout:** The legend should be centered horizontally on the sign. **Placement:** Identification Signs should be placed on the shoulder of the mainline. County Identification signs are placed precisely at the border of each county. Crossroad Identification signs should be placed on the right-hand side of bridge abutments only if there is no exit or interchange to the crossroad. A Memorial Highway sign should be limited to one sign at an appropriate location in each route direction. Identification of waterways should be placed just before the motorist will view the site being identified. Identification Signs are not permitted on sound walls. Identification Signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.10 - Law Enforcement Agency and Courthouse Signs

Signage for Law Enforcement Agencies and Courthouses must follow the requirements of the *Traffic Generator and Service Sign Policy Guide* and the *MUTCD*.

Law Enforcement Agency and Courthouse signs shall not compromise the safe use of the roadway system, and therefore must be reviewed and approved by the Tollway.

9.7.11 - Pictographs (Illustrations I-IT5A-C)

Application: Pictographs are used as graphic elements on Tollway buildings, and on Regulatory, Guide and Information Signs. The EZ Pass pictograph is to be used at Tollway entrance ramps from other highways to inform motorists that their EZ Pass is honored on the Tollway system. Pictographs may be used as free-standing, architectural or sculptural elements. **Color:** The pictograph should have the shape, color and size(s) depicted in the illustrations. **Legend:** The legend of pictographs may spell out words, be a graphic element without words, or a combination of words and graphic elements, such as:

Cash (\$)
I•PASS
EZ PASS

Diagrams and Symbols: Pictographs used on the Tollway are official agency symbols and should conform to these guidelines. **Layout:** See illustrations. **Placement:** The Tollway logo should be surface-mounted on a plaza, Oasis, and other Illinois Tollway building walls, and may be a free-standing element in large, landscaped areas. The I-Pass pictograph and cash pictograph are used on the canopy of plazas, on

plaza signs, and on Advance Tolling Guide signs. The EZ Pass pictograph is only used on signs at select locations near a major entry to the Tollway. These signs are not permitted on sound walls. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.12 - Motorist Communications Signs

Motorist Communications Signs shall be placed in accordance with *MUTCD* Chapters 2H and 2I.

9.7.13 - Municipal Signs

Municipal Signs must follow the requirements of the *Traffic Generator and Service Sign Policy Guide* and the *MUTCD*.

Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.14 - Point of Interest Signs

Points of Interest Signs must follow the requirements of the *Traffic Generator and Specific Service Sign Policy Guide* and the *MUTCD*.

Point of Interest signs shall not compromise the safe use of the roadway system, and therefore must be reviewed and approved by the Tollway.

9.7.15 - Radio Information Signs

Radio-Weather Information signs may be used in areas where difficult driving conditions commonly result from weather systems. Radio-Traffic Information signs may be used with traffic management systems. See *MUTCD* Section 2I.09 for additional information regarding Radio Information Signs.

9.7.16 - Symbols

See *MUTCD* Section 2A.12 for general information on symbol design.

9.7.17 - Tourist Information Signs

Tourist Information Signs should be placed to indicate the presence of Tourist Information centers located within rest areas on freeways and expressways. See *MUTCD* Chapter 2I.08 for additional information.

9.7.18 - Sponsorship Signs (Illustration I-IT6)

Application: Sponsorship Signs (also known as Acknowledgment Signs) shall be placed in accordance with *MUTCD* Chapter 2, Section 2H.08. **Color:**

Sponsorship signs shall have one panel. The sign panel shall have a blue background with white text. There shall be a white border. **Diagrams and Symbols:** Depends on the sponsor. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** The Sponsorship sign should be ground mounted and may be a free standing element in large, landscaped areas. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.19 - Blue Board Signage Program

The Blue Board signage program includes categories for lodging and attractions and involves mounting business sign panels on large blue board signs in advance of rural interchange exits and along exit ramps to alert motorists of available businesses/facilities.

Additional information regarding The Blue Board Signage Program can be found on the Tollway website under *Doing Business > Information Signage Guidelines > Traffic Generator and Information Signage Guidelines*.

9.7.20 - Welcome to the Illinois Tollway Signage (Illustration I-IT7)

Application: Welcome to the Illinois Tollway signs help show road users that they are entering Illinois

Tollway operated roadway and the methods of payment accepted at the facilities. **Color:** Welcome signs shall have two panels comprised into one. The top panel shall have a green background with white text and the bottom panel shall have a white background with black text. There is no border. **Diagrams and Symbols:** The I-Pass, \$ and E-Z Pass symbols are used. See Illustration for additional guidance. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** Welcome signs shall be placed at entrance ramps from other highways and at the beginning limits of all Tollway operated roadway. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow.

9.7.21 - Tollway Ends Thank You Signage (Illustration I-IT8)

Application: Tollway Ends Thank You signs help show road users that they are leaving Illinois Tollway operated roadway and to thank road users for using the Tollway system. **Color:** Thank You signs shall have one panel. The sign panel shall have a green background with white text. There shall be a white border. **Diagrams and Symbols:** The Illinois Tollway symbol is used. See Illustration for additional guidance. **Layout:** The legend should be centered vertically and horizontally on the sign. **Placement:** Thank You signs shall be placed at exit ramps originating from the Tollway and heading into other highway systems. Thank You signs shall also be placed at the end limits of all Tollway operated

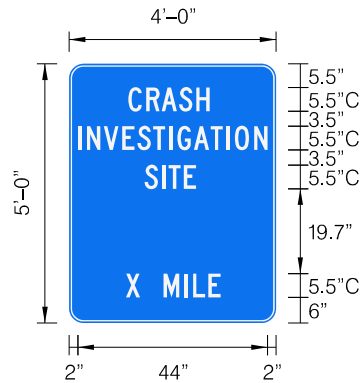
roadway. Placement of these signs should not interfere with the placement of any other necessary Tollway signing, and should not compromise the safety or efficiency of traffic flow

INFORMATION (I) SIGN ILLUSTRATION LIST

Number	Placement	Legend	Page
I-IT1A	Mainline	Crash Investigation Site: X Mile	9 - I-IT1A
I-IT1B	Mainline	Crash Investigation Site: Keep Right, Thru Tollbooth	9 - I-IT1B
I-IT1C	Mainline	Crash Investigation Site: Directional Arrow	9 - I-IT1C
I-IT1D	Mainline	Crash Investigation Site: Information for Plaza Sites	9 - I-IT1D
I-IT1E	Mainline	Crash Investigation Site: Information for Stand Alone Sites	9 - I-IT1E
I-IT2	Mainline	Milepost Marker Variations	9 - I-IT2
I-IT3A	Exit	Alternate Transportation: Transportation Agency Logos	9 - I-IT3A
I-IT3B	Exit	Alternate Transportation: Suburban Transit Information	9 - I-IT3B
I-IT3C	Mainline	Alternate Transportation: Share the Drive	9 - I-IT3C
I-IT3D	Mainline	Alternate Transportation: Park-Ride	9 - I-IT3D
I-IT4A	Bridge	Identification: Interstate Route XX	9 - I-IT4A
I-IT4B	Bridge	Identification: XX th Street	9 - I-IT4B
I-IT4C	Feature	Identification: Waterway Name	9 - I-IT4C
I-IT4D	Boundary	Identification: Name County	9 - I-IT4D
I-IT4E	Mainline	Identification: Memorial Highway	9 - I-IT4E
I-IT5A	Pictograph	Pictograph: Cash (for standard sign panels in this manual)	9 - I-IT5A
I-IT5B	Pictograph	Pictograph: I-Pass (for standard sign panels in this manual)	9 - I-IT5B
I-IT5C	Pictograph	Pictograph: EZ Pass	9 - I-IT5C
I-IT6	Mainline	Identification: Sponsorship Sign	9 - I-IT6
I-IT7	Mainline	Identification: Welcome to the Illinois Tollway Sign	9 - I-IT7
I-IT8	Mainline	Identification: Tollway Ends Thank You Sign	9 - I-IT8

INFORMATION SIGN ILLUSTRATION
Crash Investigation Site: X Mile

[Not to scale]



Dimensions are inches, tenths
 Letter locations are panel edge to lower left corner

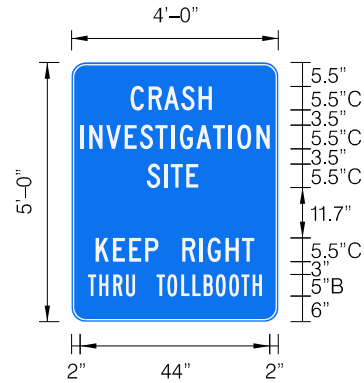
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MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.33"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																		LENGTH	SERIES SIZE
C	R	A	S	H														18.9	C 2000 5.5
13.7	17.9	21.5	25.5	29.5														44	C 2000 5.5
I	N	V	E	S	T	I	G	A	T	I	O	N						11.9	C 2000 5.5
2	4.1	8	12.3	15.8	19.5	23.1	25.1	28.9	32.8	36.5	38.5	42.9						21.9	C 2000 5.5
S	I	T	E																
17.5	21.5	23	26.6																
X		M	I	L	E														
13.2		21.9	26.8	28.7	32.3														

INFORMATION SIGN ILLUSTRATION
Crash Investigation Site: Keep Right, Thru Tollbooth

[Not to scale]



SIGN NUMBER	I-IT1B
MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.33"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

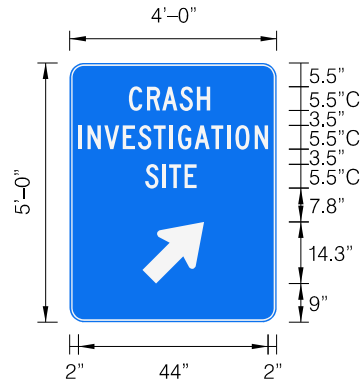
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES-SIZE								
C	R	A	S	H																C 2000			
13.7	17.9	21.5	25.5	29.5																18.9	5.5		
I	N	V	E	S	T	I	G	A	T	I	O	N									C 2000		
2	4.1	8	12.3	15.8	19.5	23.1	25.1	28.9	32.8	36.5	38.5	42.9								44	5.5		
S	I	T	E																		C 2000		
17.5	21.5	23.1	26.6																		11.9	5.5	
K	E	E	P		R	I	G	H	T												C 2000		
5.6	9.6	13.4	17.1		25.7	29.7	31.6	35.8	39.6												36.8	5.5	
T	H	R	U		T	O	L	L	B	O	O	T	H									B 2000	
3.8	6.4	9.7	12.6		19.8	22.2	25.5	28.1	30.7	33.5	36.6	39.4	42								40.4	5	

INFORMATION SIGN ILLUSTRATION
Crash Investigation Site: Directional Arrow

[Not to scale]



SIGN NUMBER	I-IT1C
MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.33"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	315	16.9	9	12	18

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
C	R	A	S	H													18.9	C 2000 5.5
13.7	17.9	21.5	25.5	29.5													44	C 2000 5.5
I	N	V	E	S	T	I	G	A	T	I	O	N					11.9	C 2000 5.5
2	4.1	8	12.3	15.8	19.5	23.1	25.1	28.9	32.8	36.5	38.5	42.9						
S	I	T	E															
17.5	21.5	23	26.6															

INFORMATION SIGN ILLUSTRATION
Crash Investigation Site: Information for Plaza Sites

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

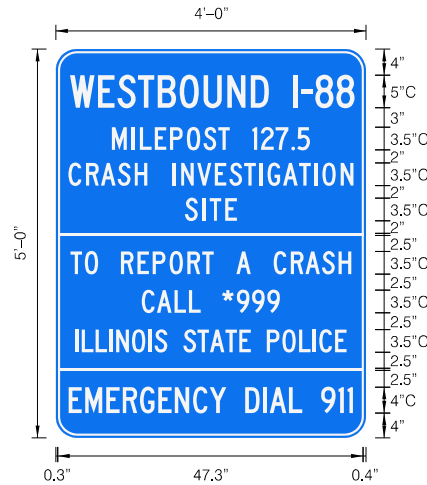
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MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.33"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE		
P	L	A	Z	A		3	0														28.3	C 2000 5	
9.9	13.7	16.5	20.2	23.4		31.6	35.2																
N	O	R	T	H	B	O	U	N	D		I	-	2	9	4						38.8	C 2000 3.5	
4.6	7.3	10.1	12.4	14.7	17.5	20	22.8	25.6	28.3		34	35	36.5	38.9	41.2								
C	R	A	S	H		I	N	V	E	S	T	I	G	A	T	I	O	N			44.1	C 2000 3.5	
2	4.7	7	9.6	12.2		18.1	19.4	21.9	24.6	26.9	29.2	31.5	32.8	35.2	37.7	40	41.3	44.1					
S	I	T	E																		8	C 2000 3.5	
20	22.7	23.8	26.2																				
T	O		R	E	P	O	R	T		A		C	R	A	S	H					43.4	C 2000 3.5	
2.3	4.5		10.1	12.6	15	17.6	20.4	22.7		28		33.7	36.4	38.6	41.2	43.8							
C	A	L	L		*	9	9	9													21.4	C 2000 3.5	
13.3	15.7	18.4	20.6		25.7	28	30.4	32.7															
I	L	L	I	N	O	I	S		S	T	A	T	E		P	O	L	I	C	E	42	C 2000 3.5	
3	4	6.2	8.3	9.3	11.8	14.4	15.3		19.7	21.9	23.9	26.3	28.4		32.7	35.1	37.6	39.8	40.8	43.2	42		
E	M	E	R	G	E	N	C	Y		D	I	A	L		9	1	1					44	C 2000 4
2	4.5	7.8	10.4	13	15.9	18.4	21.2	23.8		29.3	32.1	33.1	36.1		41.1	43.7	45.2				44		

INFORMATION SIGN ILLUSTRATION
Crash Investigation Site: Information for Stand Alone Sites

[Not to scale]



Dimensions are inches.tenths
 Letter locations are panel edge to lower left corner

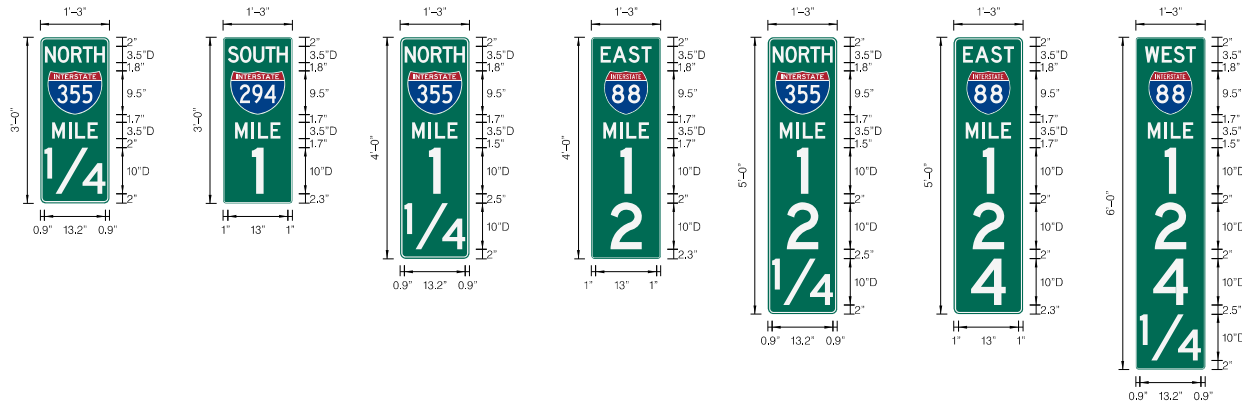
SIGN NUMBER	I-IT1E
MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.33"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																			LENGTH	SERIESSIZE		
W	E	S	T	B	O	U	N	D		I	-	8	8							C 2000		
2.2	6.6	9.6	12.7	15.8	19.2	22.9	26.5	30.2		36.8	38.1	40.2	43.4							44	5	
M	I	L	E	P	O	S	T		1	2	7	.	5							C 2000		
8.7	11.8	13	15.3	17.7	20.3	22.9	25.1		30.4	31.8	34	36.5	37.4							30.6	3.5	
C	R	A	S	H		I	N	V	E	S	T	I	G	A	T	I	O	N		C 2000		
2	4.7	7	9.6	12.2		18.1	19.4	21.9	24.6	26.9	29.2	31.5	32.8	35.2	37.7	40	41.3	44.1		44.1	3.5	
S	I	T	E																	C 2000		
20	22.7	23.8	26.2																	8	3.5	
T	O		R	E	P	O	R	T		A		C	R	A	S	H				C 2000		
2.3	4.5		10.1	12.6	15	17.6	20.4	22.7		28		33.7	36.4	38.6	41.2	43.8				43.4	3.5	
C	A	L	L		*	9	9	9												C 2000		
13.3	15.7	18.4	20.6		25.7	28	30.4	32.7												21.4	3.5	
I	L	L	I	N	O	I	S		S	T	A	T	E		P	O	L	I	C	E	C 2000	
3	4	6.2	8.3	9.3	11.8	14.4	15.3		19.7	21.9	23.9	26.3	28.4		32.7	35.1	37.6	39.8	40.8	43.2	42	3.5
E	M	E	R	G	E	N	C	Y		D	I	A	L		9	1	1				C 2000	
2	4.5	7.8	10.4	13	15.9	18.4	21.2	23.8		29.3	32.1	33.1	36.1		41.1	43.7	45.2				44	4

INFORMATION SIGN ILLUSTRATION Milepost Marker Variations

[Not to scale]



Dimensions are inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	I-IT2
MUTCD CITATION	2H.05 & 2H.06
WIDTH x HGHT.	1'-3" x Varies
BORDER WIDTH	0.25"
CORNER RADIUS	1"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	1.6	43.2	11.9	9.5

LETTER POSITIONS (X)															LENGTH	SERIES-SIZE
N	O	R	T	H												D 2000
1	3.8	6.7	9.2	11.6											13	3.5
M	I	L	E													D 2000
2.6	6.2	7.6	10.3												9.8	3.5
1																D 2000
6.3															2.5	10
2																D 2000
4.1															6.8	10
14																D 2000
0.9															13.2	10

INFORMATION SIGN ILLUSTRATION
Alternate Transportation: Transportation Agency Logos
[Not to scale]

SIGN NUMBER

I-T3A

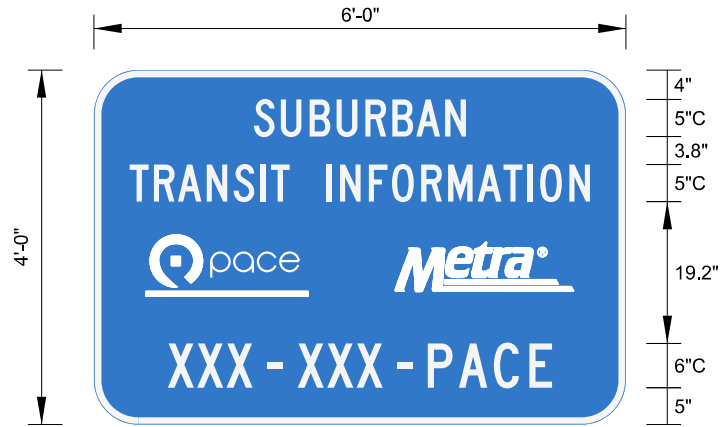


Note:

1. Logo and/or pictographs shown are for information only. DSE to verify that logo and/or pictograph is currently in use by the corresponding Agency.

INFORMATION SIGN ILLUSTRATION
Alternate Transportation: Suburban Transit Information

[Not to scale]



SIGN NUMBER	I-IT3B
MUTCD CITATION	Chapter 2I
WIDTH x HGHT.	6'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

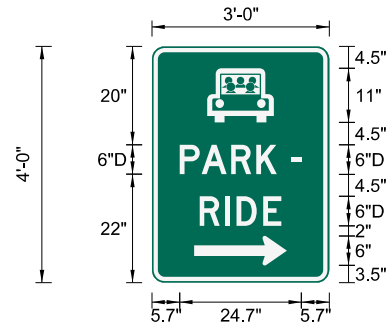
SYMBOL	ROT	X	Y	WID	HT
Pace	0	7	17.4	22	8.3
Metra	0	40.7	18	24.3	6.7

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES-SIZE	
S	U	B	U	R	B	A	N													28.7	C 2000 5
21.7	25.3	29.2	32.9	36.8	40.4	43.7	47.6														
T	R	A	N	S	I	T		I	N	F	O	R	M	A	T	I	O	N		62.3	C 2000 5
4.9	8.1	11.4	15.3	18.9	22.6	24		31.5	33.3	37.2	40.4	44.3	48	52	55.5	58.7	60.4	64.4			
X	X	X	-	X	X	X	-	P	A	C	E									52	C 2000 6
10	14	18	23.5	27.6	31.6	35.5	41.1	45.2	49.4	54.1	58.9										

INFORMATION SIGN ILLUSTRATION
Alternate Transportation: Park - Ride

[Not to scale]



SIGN NUMBER	I-IT3D
MUTCD CITATION	2D.48
WIDTH x HGHT.	3'-0" x 4'-0"
BORDER WIDTH	0.88"
CORNER RADIUS	2.25"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT
Park and Ride	0	11.2	32.5	13.5	11
AR_THRU	270	8.6	3.5	6	18.9

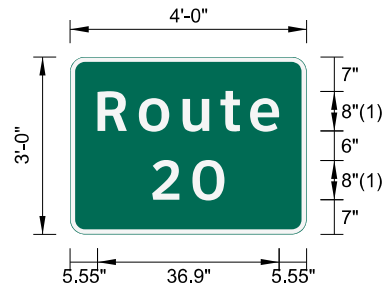
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																	LENGTH	SERIES-SIZE
P	A	R	K	-													21.8	D 2000 6
5.7	10.1	16.1	21.2	28.3														
R	I	D	E														16.6	D 2000 6
9.7	14.8	17.2	22.6															

INFORMATION SIGN ILLUSTRATION

Identification: Interstate Route XX

[Not to scale]



Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	I-IT4A
MUTCD CITATION	Chapter 2H
WIDTH x HGHT.	4'-0" x 3'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE	
R	o	u	t	e													ClearviewHwy-5-W	
5.6	13.9	22.8	30.5	36.5													36.9	86.5
2	0																	ClearviewHwy-5-W
16.7	24.8																14.7	8

INFORMATION SIGN ILLUSTRATION

Identification: XX th Street

[Not to scale]



SIGN NUMBER	I-IT4B
MUTCD CITATION	Chapter 2H
WIDTH x HGHT.	4'-0" x 3'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Overhead or Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
7	5	t	h													27	ClearviewHwy-5-W 8/6.5
10.5	18.1	25.6	32														
S	t	r	e	e	t												ClearviewHwy-5-W
6	12.9	18.5	23.4	30.9	38.1											36	8/6.5

INFORMATION SIGN ILLUSTRATION
Identification: Waterway Name

[Not to scale]



SIGN NUMBER	I-T4C	
MUTCD CITATION	Chapter 2H	
WIDTH x HGHT.	4'-0" x 3'-0"	
BORDER WIDTH	1"	
CORNER RADIUS	3"	
MOUNTING	Ground	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White /White

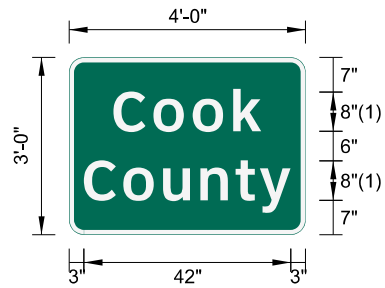
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE
F	o	x														21.2	ClearviewHwy-5-W 8/6.5
13.4	20.5	28.4														32.5	ClearviewHwy-5-W 8/6.5
R	i	v	e	r													
7.8	16.3	20.1	27.9	36.6													

INFORMATION SIGN ILLUSTRATION
Identification: Name County

[Not to scale]



SIGN NUMBER	I-IT4D
MUTCD CITATION	Chapter 2H
WIDTH x HGHT.	4'-0" x 3'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

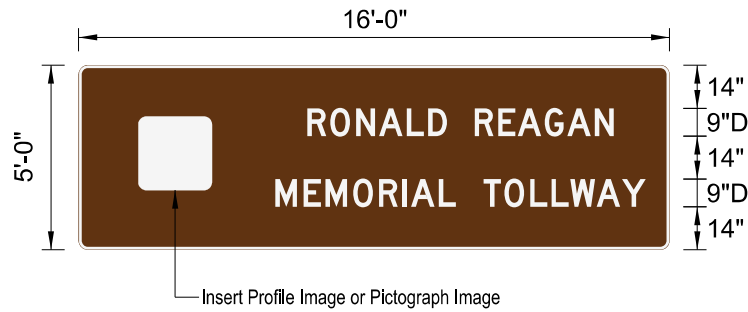
SYMBOL	ROT	X	Y	WID	HT

Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE		
C	o	o	k															30	ClearviewHwy-5-W 86.5
9	17.1	25.1	33.3																
C	o	u	n	t	y													42	ClearviewHwy-5-W 86.5
3	11	19.1	26.7	33.8	38.7														

INFORMATION SIGN ILLUSTRATION
Identification: Memorial Highway

[Not to scale]



SIGN NUMBER	I-IT4E
MUTCD CITATION	2M.10
WIDTH x HGHT.	16'-0" x 5'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

SYMBOL	ROT	X	Y	WID	HT

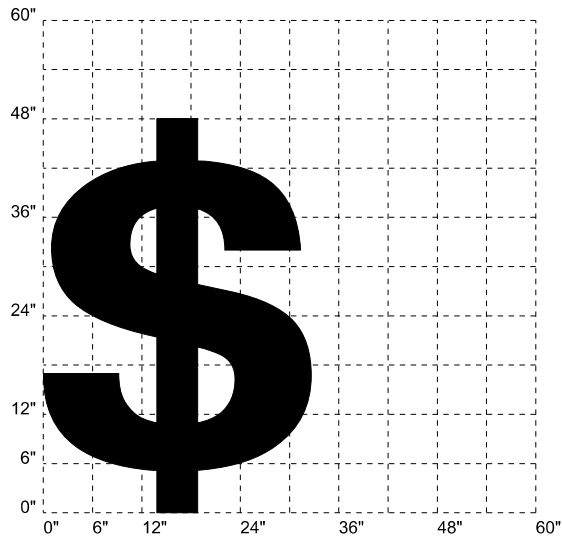
Dimensions are inches,tenths
 Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES-SIZE					
R	O	N	A	L	D		R	E	A	G	A	N									D 2000	
74.3	81.8	90.2	97.6	106.6	113.6		128.7	136.3	142.6	151.4	158.7	167.7								99.5	9	
M	E	M	O	R	I	A	L		T	O	L	L	W	A	Y						D 2000	
63.9	73.1	80.2	89.2	97.6	105.2	108	117		131.6	138.4	146.7	153.7	159.8	168.3	176.5						120.3	9

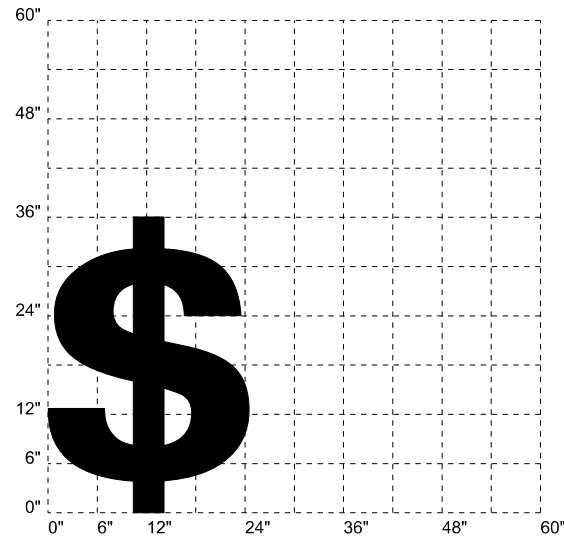
INFORMATION SIGN ILLUSTRATION

Pictograph: Cash (for standard sign panels in this manual)

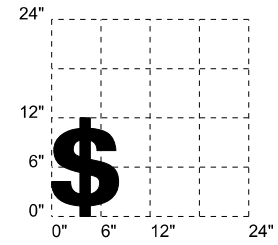
[Not to scale]



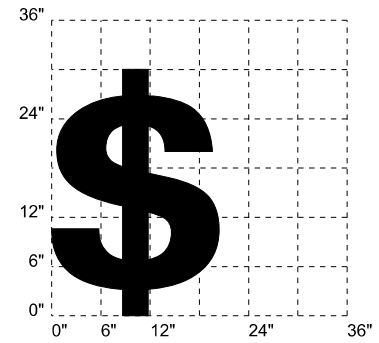
48" x 32" DOLLAR



36" x 24" DOLLAR



12" x 8" DOLLAR

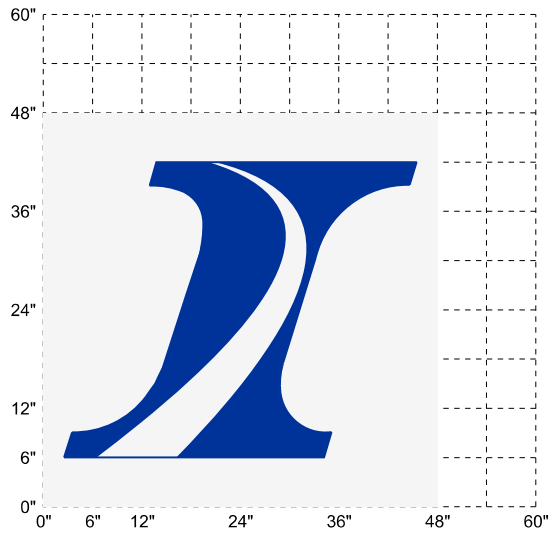


30" x 21" DOLLAR

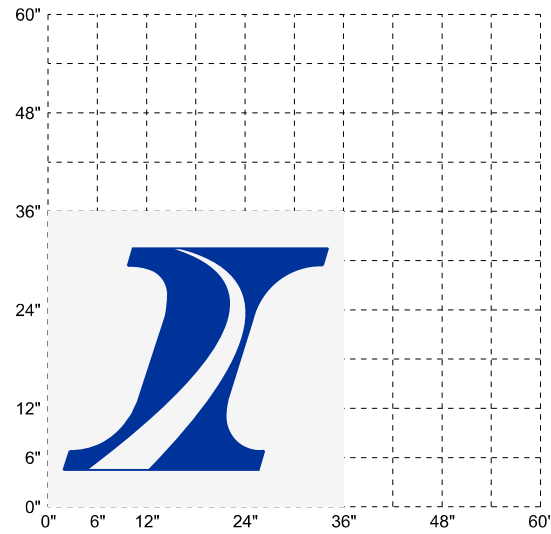
INFORMATION SIGN ILLUSTRATION

Pictograph: I-Pass (for standard sign panels in this manual)

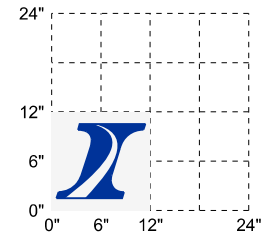
[Not to scale]



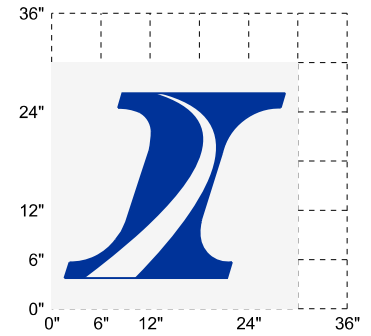
48" I-PASS



36" I-PASS



12" I-PASS



30" I-PASS

NOTE:
DEPENDING ON THE APPLICATION, LOGO
BACKGROUND COLOR MAY BE WHITE OR
PURPLE.

INFORMATION SIGN ILLUSTRATION
Pictograph: EZ Pass on Purple Background
[Not to scale]

SIGN NUMBER

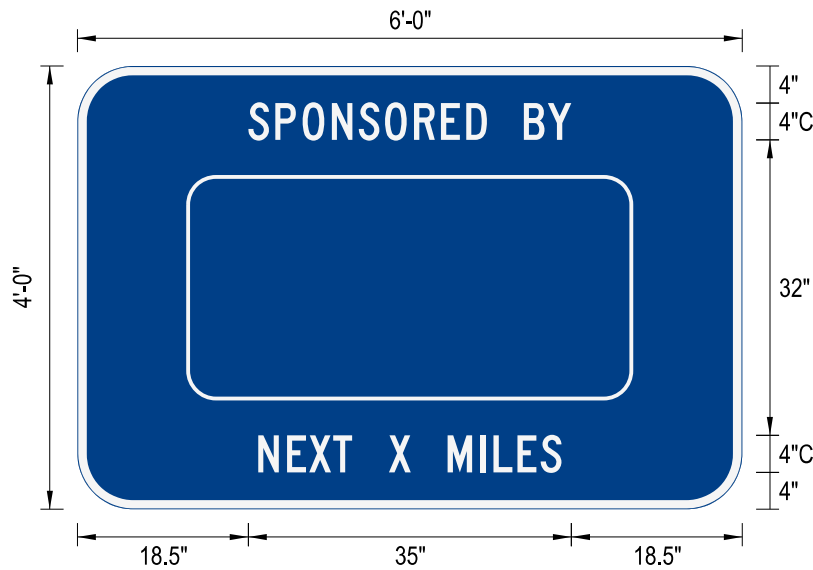
I-IT5C



NOTE:
E-Z PASS IS PURPLE IN COLOR WHEN ON WHITE BACKGROUND.

INFORMATION SIGN ILLUSTRATION
Sponsorship Sign

[Not to scale]



NOTE:
 The area reserved for the sponsor acknowledgement logo shall not exceed 1/3 of the total area of the sign and shall be a maximum of 8 square feet.

SIGN NUMBER	I-IT6
MUTCD CITATION	Chapter 2H
WIDTH x HGHT.	6'-0" x 4'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches.tenths
 Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
S	P	O	N	S	O	R	E	D	B	Y		C 2000
18.5	21.4	24.4	27.5	30.5	33.3	36.5	39.4	42.1	48.3	50.9	35	4
N	E	X	T	X	M	I	L	E	S		C 2000	
19.6	22.7	25.1	27.7	33.7	40.1	43.6	45.1	47.7	50.2	32.8	4	

INFORMATION SIGN ILLUSTRATION
Tollway Approach: Welcome, Accepted Forms of Payment

[Not to scale]



Dimensions are in inches.tenths
 Letter locations are panel edge to lower left corner.

SIGN NUMBER	I-IT7
MUTCD CITATION	-
WIDTH x HGHT.	15'-0" x 11'-0"
BORDER WIDTH	2" White, 1" Black
CORNER RADIUS	6" White, 3" Black
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black

SYMBOL	ROT	X	Y	WID	HT
IPASS Logo	0	139	92.2	28	35
EZPass Logo	0	141	81.1	24.1	8
Tollway Logo	0	4	39	118	54
Cash Symbol	0	138	20.2	30	30

LETTER POSITIONS (X)													LENGTH	SERIES-SIZE					
W	E	L	C	O	M	E		T	O		T	H	E					ClearviewHwy-4-W	
9.4	21.7	28.8	35	42.9	52.5	62.2		74.3	81.5		95.9	103.4	112					102.1	8
A	L	L		P	L	A	Z	A	S										C 2000
132.2	136.9	140.8		149.8	154.4	157.8	162.2	166.1	170.5									41.6	6
C	A	S	H																C 2000
144.9	149	153.4	157.7															16.2	6
S	E	L	E	C	T		P	L	A	Z	A	S							C 2000
128.3	132.3	136.1	139.7	143.4	147.2		155.5	159.7	162.9	167	170.6	174.6						49.5	6

INFORMATION SIGN ILLUSTRATION

Tollway Exit: Thank You

[Not to scale]



SIGN NUMBER	I-IT8
MUTCD CITATION	-
WIDTH x HGHT.	14'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green, White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White, Black

SYMBOL	ROT	X	Y	WID	HT
Tollway Logo	0	37	28	94	40

Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)																		LENGTH	SERIES-SIZE					
T	H	A	N	K		Y	O	U		F	O	R		U	S	I	N	G				ClearviewHwy-5-W		
13.3	20.6	28.2	37	45.8		58.6	66.6	75.8		90.5	97	106.2		120.3	128.2	135.8	140.2	148.7				141.2	7	
U	n	p	a	i	d		T	o	l	l	?													
8.9	15.3	21.1	26.7	32.5	35.5		44.9	50.1	56.3	59.6	62.4													
i	l	l	i	n	o	i	s	t	o	l	l	w	a	y	.	c	o	m					ClearviewHwy-4-W	
71.4	74.6	77.9	81.1	84.3	89.9	95.9	98.7	103.5	107.6	113.7	117	119.9	127.8	133.1	138.6	141.5	146.5	152.6					150.6	6/4.9



10. Dynamic Message Signs

10 - Dynamic Message Signs

10.1 - Dynamic Message Sign Application

Dynamic Message Signs (DMS) have a large number of applications including, but not limited to, the following:

- A. Incident management and route diversion
- B. Warning of adverse weather conditions
- C. Lane, ramp, and roadway control
- D. Travel Times
- E. Warning situations
- F. Traffic regulations
- G. Speed Control
- H. Destination Guidance

10.2 - Dynamic Message Sign Design

See *MUTCD* Chapter 2L for information regarding the design of Dynamic Message Signs.

10.3 - Dynamic Message Sign Messages: Length and Units of Information

See *MUTCD* Chapter 2L for information regarding the messages displayed on Dynamic Message Signs.

10.4 - Dynamic Message Sign Descriptions

A Dynamic Message Sign (DMS) is a traffic control device that is capable of displaying one or more alternative messages. Dynamic Message Signs shall display only traffic operational, regulatory, warning, and guidance information. Advertising messages shall not be displayed on a Dynamic Message Sign or its supports or other equipment. Dynamic Message Signs may be used by State and local highway agencies to display safety messages, transportation-related messages, emergency homeland security messages, and America's Missing: Broadcast Emergency Response (AMBER) alert messages.



11. Pavement Marking Guidelines

11 - Pavement Marking Guidelines

11.1 – General

Pavement markings on roadways open to public travel have important functions in providing guidance and information to motorists. Tollway motorists should be guided with consistent pavement markings on the approaches and departures throughout the Tollway system, including: Mainlines, Toll Plazas, ORT lanes, IPO lanes, lane drops, lane reductions, and channelizing lanes. Designers shall follow pavement marking layout guidelines provided in the Tollway standard drawings and the *MUTCD* as applicable. Supplemental marking layout guidelines, for markings that are unique to the Tollway roadway system, are described in Chapter 12. This chapter focuses on pavement marking material selection for both new striping and maintenance striping. When calculating productivity for new or maintenance striping contracts, designers and planners should be cognizant of typical atmospheric and moisture conditions at the time of marking placement, as weather conditions can delay placement or impact the time required for placement.

11.2 – Material Selection for New Pavements

Research conducted on Illinois Tollway roadways has shown that multi-polymer pavement markings are the

optimum performing, most durable pavement marking for both weather and traffic conditions typical at the Tollway. Durable, longer-lasting markings mean roadways have a longer period of continuously effective lane delineation and therefore a safer driving environment. Longer-lasting markings also mean fewer traffic disruptions for future roadway re-striping. However, multi-polymers' cure times are exceptionally sensitive to lower temperatures, making their placement difficult for late-season construction completion. Fast cure epoxy and polyurea pavement markings, while not quite as durable as multi-polymers, have shown to adhere better to the pavement at cooler temperatures.

Therefore, designers should plan to place permanent, recessed multi-polymer pavement markings from April 15 through October 15, and the ambient temperature at the time of placement must be 45° F and rising. Temporary, surface applied markings shall be placed from October 16 through April 14 or when the ambient temperature at the time of placement is below 45° F.

For any project in which the designer does not anticipate permanent, recessed multi-polymer markings to be fully placed before October 16th, then temporary, surface-applied epoxy pavement markings should be placed up to the date of November 15th, and the ambient temperature at the time of placement must be 35° F and rising. For any project in which the designer anticipates temporary markings to be placed after November 15th or when the ambient temperature at the time of placement is 25° to 34° F, then temporary, surface-applied polyurea pavement markings should be placed. Based on current standards, there are no markings that can be placed below 25° F. Placement dates and associated marking materials are presented again in Table 1.

Table 1. Pavement Marking Material Selection for New Construction

Striping on New Pavement		
April 15 to October 15	October 16 to November 15	November 16 to April 14
Multi-Polymer	Epoxy (Temporary)	Polyurea (Temporary)

The following spring, the temporary markings shall be removed with the groove installation and then the permanent, multi-polymer markings placed in the groove. Removing the temporary marking and placement of the permanent marking may be accomplished by requiring the Contractor to return to the job site in the spring or through a separate pavement marking contract.

If the striping being placed after October 15 is intended to be temporary markings for Maintenance of Traffic (MOT), until construction resumes in the spring, the temporary marking material shall still be a polyurea or epoxy, depending on the placement conditions and dates, in order to provide the safest option for traffic during winter months. If such temporary MOT markings are not to be replaced with recessed permanent markings, then the temporary markings shall be removed only by the water blasting method with vacuum recovery, not by grinding or sand blasting. For more details on multi-polymer, epoxy, and polyurea pavement marking material requirements and installation requirements, refer to Tollway special provisions or IDOT Standard Specifications for the respective marking type.

Designers should also note that it is Tollway policy that all linear markings on newly constructed pavement shall be recessed. Refer to Tollway special provisions for requirements for installing a groove for recessing pavement markings.

11.3 – Material Selection for Maintenance Striping

When considering pavement marking materials for maintenance striping (refreshing existing markings), the options depend on the pavement's remaining service life (RSL). When the pavement's RSL is five or less years (i.e. the pavement is scheduled for re-surfacing or reconstruction within five years), there are more cost effective options than multi-polymer. Epoxy should provide five years' service when placed in a groove, and it typically costs less than multi-polymer. Therefore, when the pavement's RSL is greater than five years, multi-polymer markings should be used for maintenance striping, but when the RSL is five or less years, epoxy should be used. Just like striping on new pavements, placement dates for multi-polymer are limited to April 15 through October 15. Regardless of the cut-off placement dates or the pavement's RSL, epoxy markings should be placed when the ambient temperature at the time of placement is less than 45° F but at least 35° F and rising. Since polyurea is not used for permanent markings on the Tollway and the marking type is not compatible with existing epoxy or multi-polymer markings, polyurea markings will not be used for maintenance except in emergency applications when the ambient temperatures are below 35° F at the time of placement. Table 2 summarizes the pavement marking material guidelines for maintenance striping.

Table 2. Pavement Marking Material Selection for Maintenance Striping

Maintenance Striping			
Pavement Surface Type	April 15 to October 15		October 16 to April 14
	Pavement Service Life ≤ 5 years	Pavement Service Life > 5 years	Any Pavement Age
Asphalt	Epoxy	Multi-Polymer	Epoxy
Concrete	Epoxy	Multi-Polymer	Epoxy



12. Pavement Marking Layout

12 - Pavement Marking Layout

12.1 – General Guidelines

Pavement markings on roadways open to public travel have important functions in providing guidance and information to motorists. Tollway motorists should be guided with consistent pavement markings on the approaches and departures throughout the Tollway system, including: Mainlines, Toll Plazas, ORT lanes, IPO lanes, lane drops, lane reductions, and channelizing lanes. Designers shall follow pavement marking layout guidelines provided in the Tollway standard drawings and the MUTCD as applicable. This chapter presents supplemental marking layout guidelines, for markings that are unique to the Tollway roadway system. Chapter 11 provides guidance on pavement marking material selection and material placement cut-off dates.

12.2 - Mainline Pavement Markings – Previous Standards (Illustrations PM-IT1A-C)

Pavement markings for new construction on the mainline shall be installed in accordance with Tollway Standard Drawing D5. For rehabilitation type projects, designers may need to refer to the Previous Tollway Pavement Marking standards included in this chapter,

but shall consult with the Tollway PM to determine which standards to use. Illustrations are included for a 4-lane typical section of I-294, I-94, I-88; 3-lane typical section of I-355; and 2-lane typical section of I-94 Edens Spur.

12.3 - Dotted Line and Channelizing Line for Exit and Entrance Ramps

Pavement markings for Dotted Line and Channelizing Lines for Exit and Entrance Ramps shall be installed on roadways in accordance with Tollway Standard Drawing D6. The Designer shall also refer to *MUTCD* section 3B for additional requirements and general guidance.

12.4 - Lane-Drop Markings at Exit, Split, and Auxiliary Lane

Pavement markings for Lane-Drop Markings at Exit, Split and Auxiliary Lanes shall be installed on roadways in accordance with Tollway Standard Drawing D6. The Designer shall also refer to *MUTCD* section 3B for additional requirements and general guidance.

12.5 - Lane-Reduction Transition Markings (Illustration PM-IT2A-B)

Lane-reduction transition markings are used where the number of through lanes is reduced because of the narrowing of the roadway. Pavement markings for lane-reduction transitions are not used for lane drops. Lane-reduction arrow markings should be used in long parallel acceleration lanes based on engineering judgment.

12.6 - Mainline Plaza Pavement Markings

At Toll Plazas, pavement markings help road users identify the proper lane(s) to use for the type of toll payment they plan to use, channelizing movements into the various lanes. In the Tollway system there are nearly 25 mainline toll plazas, all of which are unique in geometry and layout, resulting in pavement markings that are specific to every location. Pavement Markings drawings for Tollway Mainline Plazas are available to Designers from the Tollway upon request.

Pavement markings through the ORT lanes are standard at all Toll Plazas. The pavement markings thru the ORT lanes shall be 6" White Solid Lane Lines, beginning at 600' in advance of the ORT monotube and ending at 200' after the ORT monotube.

12.7 - IPO Lane Pavement Markings (Illustrations PM-IT3A-B)

Pavement markings through the IPO lanes are standard at all Toll Plazas. All IPO lane word and symbol markings shall be white and shall be positioned laterally in the center of the lane. At decision points, the IPO lane marking should be placed on all applicable lanes and should be visible to approaching traffic for all available departures. There should be 200' of gore striping between the IPO and the cash lanes on the approach to the tollbooths, and a 200' solid white line between the IPO and the cash lanes on the departure from the tollbooths.

12.8 - Interstate Shield Pavement Markings (Illustrations PM-IT4A-B)

Pavement markings simulating Interstate, U.S., State and other official highway route shield signs with appropriate route numbers, but elongated for proper proportioning when viewed as a marking, may be used to guide road users to their destinations. Designers shall refer to *MUTCD* section 3B.20 for pavement marking requirements.

For Tollway pavement marking details, refer to illustrations for Interstate Shield Detail Type I and Type II. The application and placement of Interstate Shield Markings will be as directed by the Tollway.

12.9 - Plowable Raised Pavement Lane Marker Installation

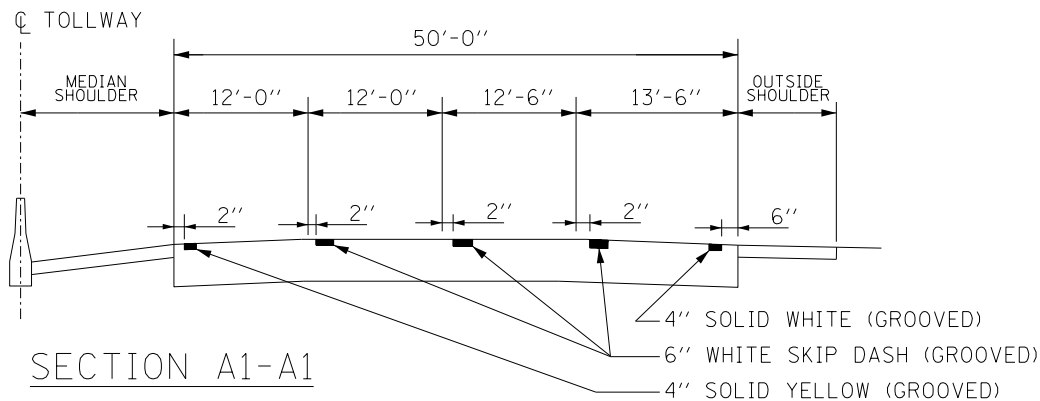
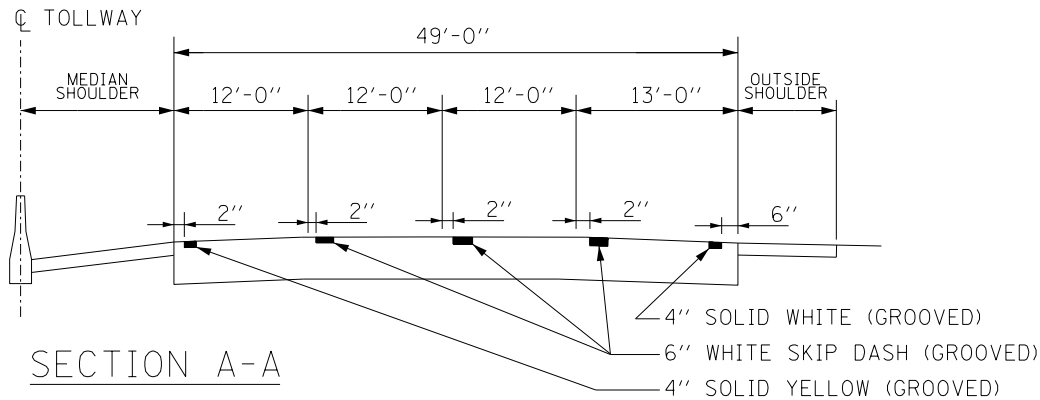
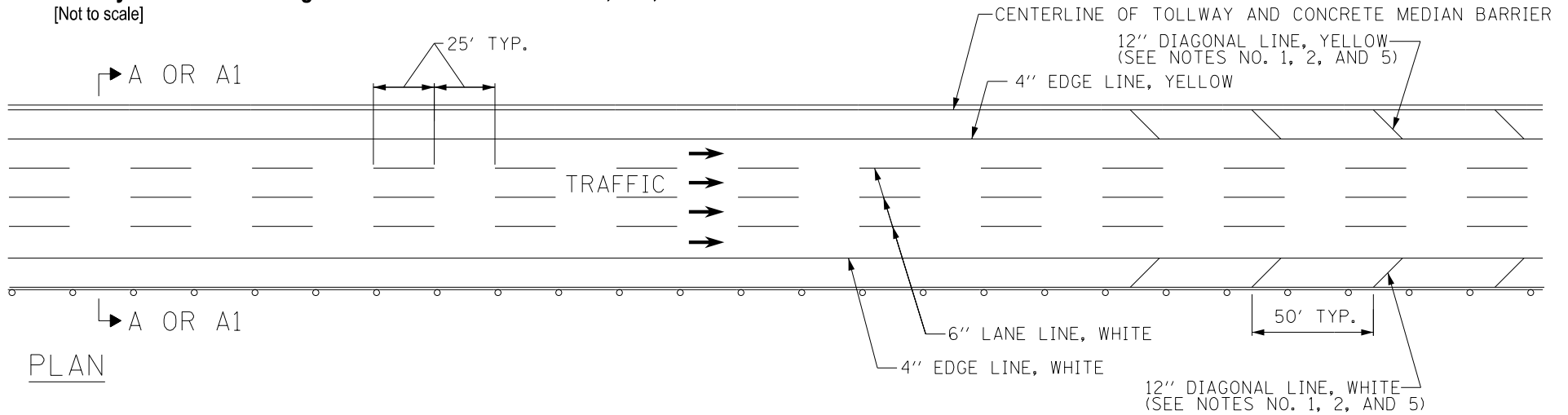
Plowable raised pavement lane markers (RPMs) shall be installed in all current and future roadways in accordance with Tollway Standard Drawing D8. Roadway sections that currently do not have RPMs shall have them installed as roadway projects are programmed in that section.

PAVEMENT MARKINGS (PM) ILLUSTRATION LIST

Number	Placement	Legend	Page
PM-IT1A	Mainline	Tollway Pavement Markings Previous Standards for I-294, I-94, I-88	12 - PM-IT1A
PM-IT1B	Mainline	Tollway Pavement Markings Previous Standards for I-355	12 - PM-IT1B
PM-IT1C	Mainline	Tollway Pavement Markings Previous Standards for I-94 - Edens Spur	12 - PM-IT1C
PM-IT2A	Mainline	Lane-Reduction Transition Markings	12 - PM-IT2A
PM-IT2B	Mainline	Lane Reduction Transition Markings Entrance	12 - PM-IT2B
PM-IT3A	Ramp	IPO Lane Pavement Markings: Exit Ramp	12 - PM-IT3A
PM-IT3B	Ramp	IPO Lane Pavement Markings: Entrance Ramp	12 - PM-IT3B
PM-IT4A	Mainline	Interstate Shield Detail (Type I)	12 - PM-IT4A
PM-IT4B	Mainline	Interstate Shield Detail (Type II)	12 - PM-IT4B

PAVEMENT MARKING ILLUSTRATION
Tollway Pavement Markings Previous Standards for I-294, I-94, I-88

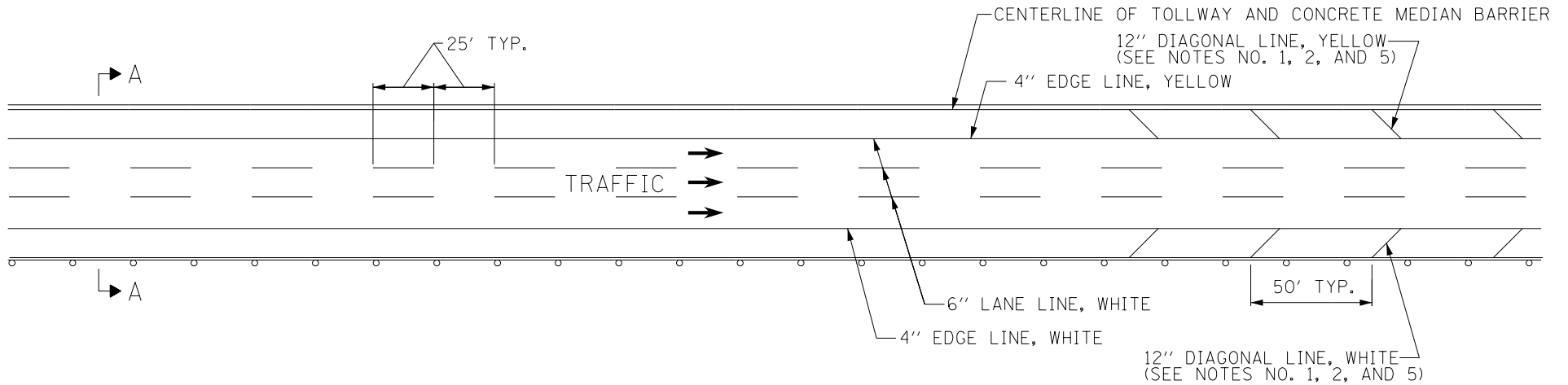
[Not to scale]



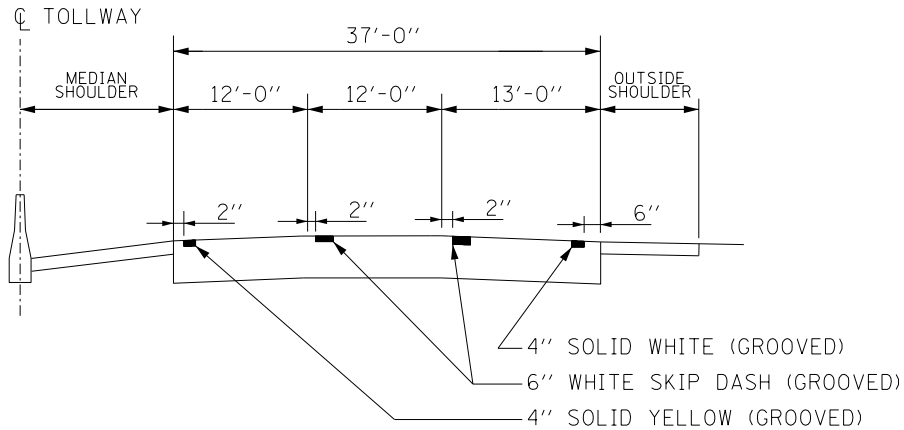
GENERAL NOTES:

1. DIAGONAL SHOULDER STRIPING REQUIRED WHERE SHOULDER WIDTH IS LESS THAN STANDARD.
2. ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND HOT-MIX ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
3. WHERE THE GUARDRAIL ENCROACHES ON THE SHOULDER THE DIAGONAL MARKINGS SHALL EXTEND AS CLOSE TO THE FACE OF THE RAIL AS POSSIBLE.
4. ALL LANE LINES AND EDGE LINES SHALL BE GROOVED.
5. DIAGONAL STRIPING SHALL BE SURFACE APPLIED.
6. GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.

PAVEMENT MARKING ILLUSTRATION
Tollway Pavement Markings Previous Standards for I-355
 [Not to scale]



PLAN



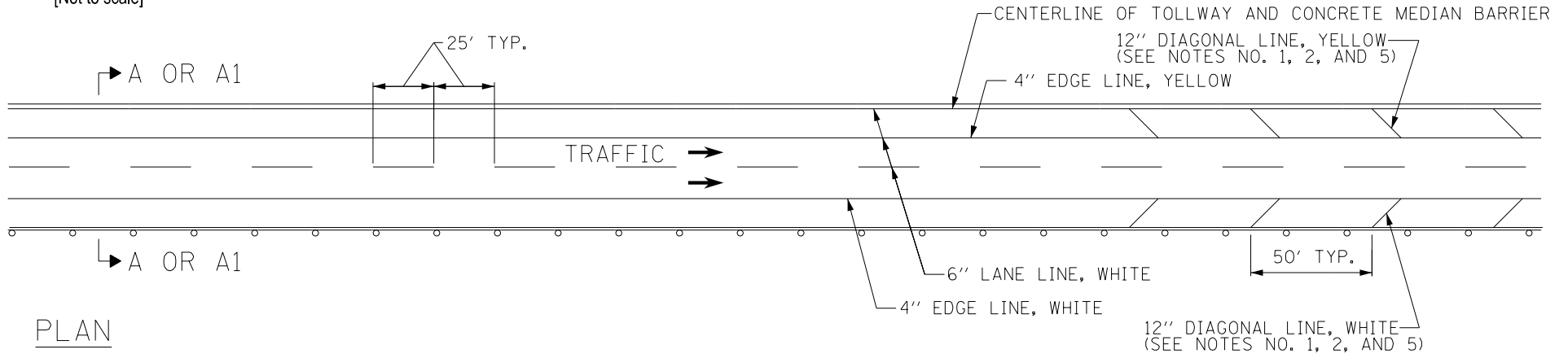
SECTION A-A

GENERAL NOTES:

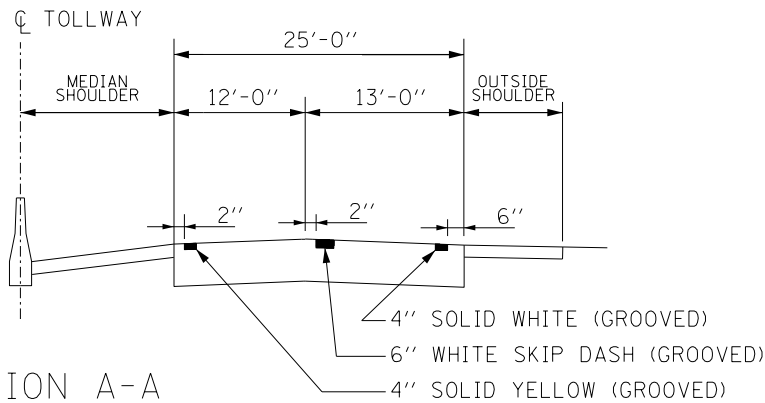
1. DIAGONAL SHOULDER STRIPING REQUIRED WHERE SHOULDER WIDTH IS LESS THAN STANDARD.
2. ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND HOT-MIX ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
3. WHERE THE GUARDRAIL ENCLOSES ON THE SHOULDER THE DIAGONAL MARKINGS SHALL EXTEND AS CLOSE TO THE FACE OF THE RAIL AS POSSIBLE.
4. ALL LANE LINES AND EDGE LINES SHALL BE GROOVED.
5. DIAGONAL STRIPING SHALL BE SURFACE APPLIED.
6. GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.

PAVEMENT MARKING ILLUSTRATION
Tollway Pavement Markings Previous Standards for I-94 - Edens Spur

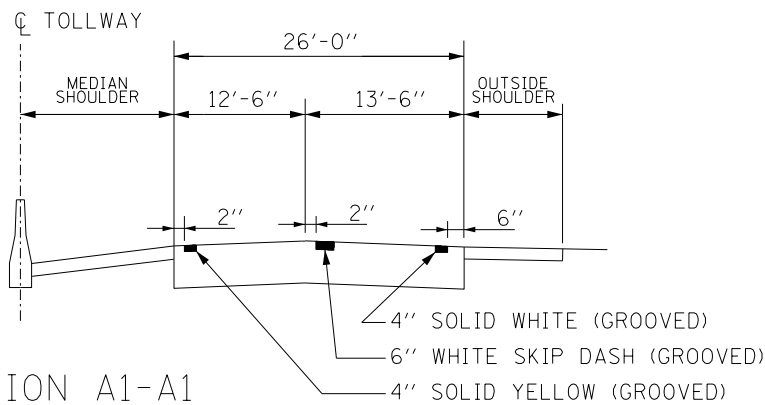
[Not to scale]



PLAN



SECTION A-A



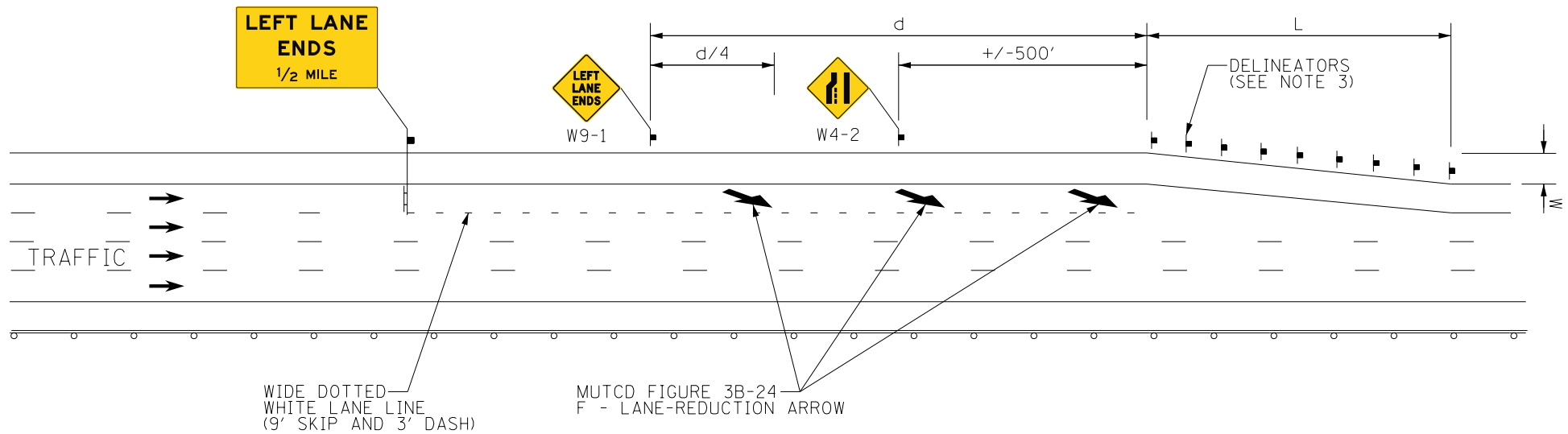
SECTION A1-A1

GENERAL NOTES:

1. DIAGONAL SHOULDER STRIPING REQUIRED WHERE SHOULDER WIDTH IS LESS THAN STANDARD.
2. ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND HOT-MIX ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
3. WHERE THE GUARDRAIL ENCROACHES ON THE SHOULDER THE DIAGONAL MARKINGS SHALL EXTEND AS CLOSE TO THE FACE OF THE RAIL AS POSSIBLE.
4. ALL LANE LINES AND EDGE LINES SHALL BE GROOVED.
5. DIAGONAL STRIPING SHALL BE SURFACE APPLIED.
6. GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.

PAVEMENT MARKING ILLUSTRATION
Lane-Reduction Transition Markings

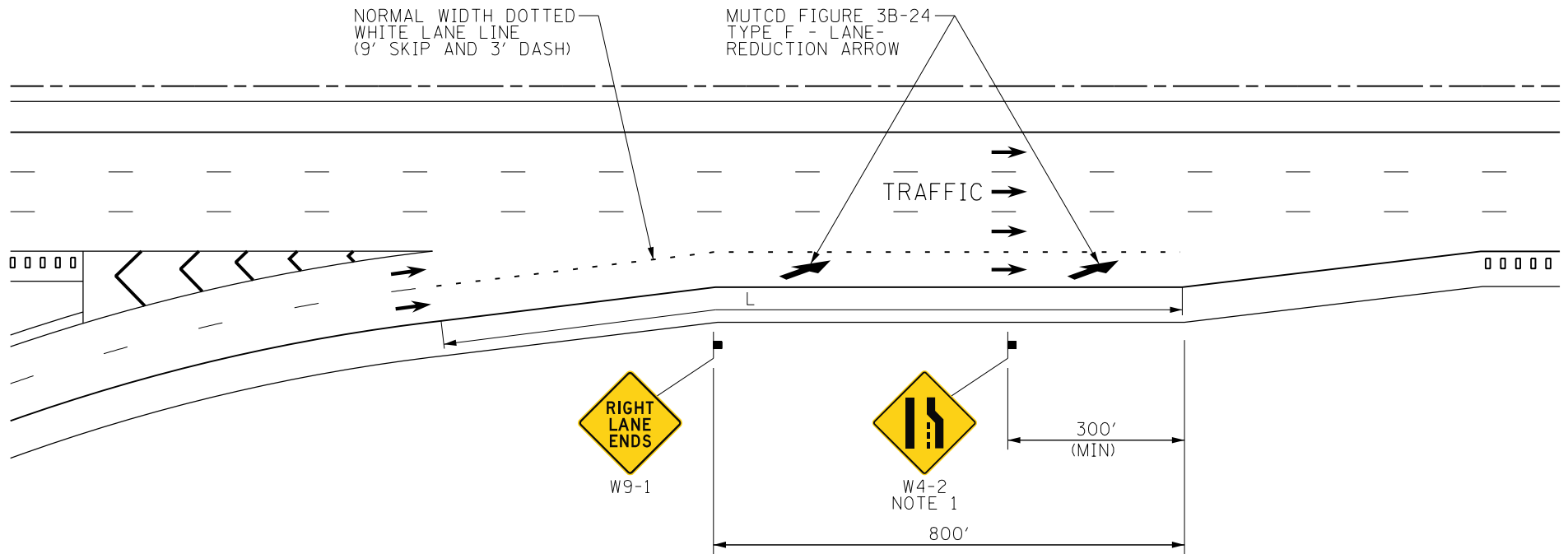
[Not to scale]



GENERAL NOTES:

1. L = WS FOR SPEEDS 45 MPH OR GREATER.
 L = LENGTH OF TAPER IN FEET
 S = POSTED 85th-PERCENTILE, OR STATUTORY SPEED IN MPH
 W = OFFSET IN FEET
2. d = ADVANCE WARNING DISTANCE (SEE MUTCD SECTION 2C.05)
 $(d = \text{APRX. } 1000' \text{ BASED ON FIELD CONDITIONS})$
3. DELINEATOR SPACING AT 50' C-C PER TOLLWAY STANDARDS
4. ADVANCE "LEFT LANE ENDS" AT 1/2 MILE. W4-2 $\pm 500'$ BEFORE TAPER STARTS.

PAVEMENT MARKING ILLUSTRATION
Lane-Reduction Transition Markings Entrance Ramp
 [Not to scale]

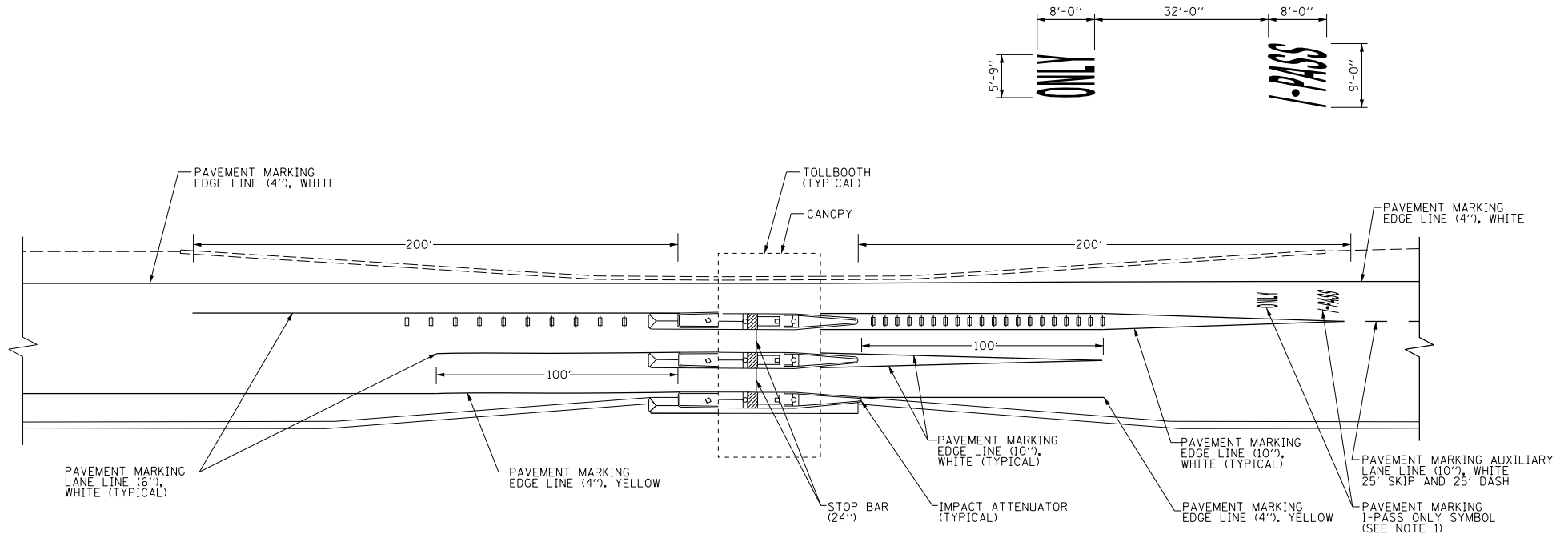


GENERAL NOTES:

1. FOR USE WHERE L EXCEEDS 1000'.
2. SIGN PLACEMENT SUBJECT TO SITE CONDITIONS. IT IS DESIRABLE FOR W4-2 TO BE AT A MINIMUM 300' BEFORE START OF TAPER.

PAVEMENT MARKING ILLUSTRATIONS
IPO Lane Pavement Markings: Exit Ramp

[Not to scale]

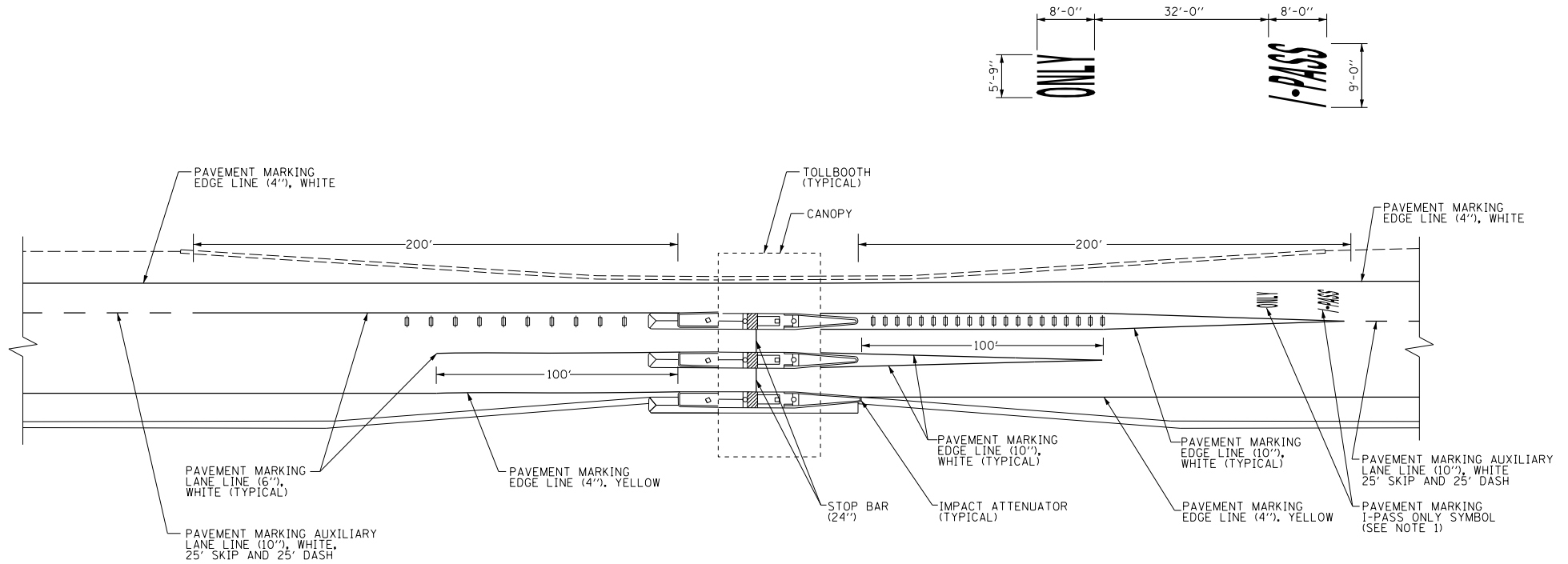


NOTES:

1. MINIMUM ONE "I-PASS ONLY" PAVEMENT MARKING IS REQUIRED PER IPO LANE. ADDITIONAL MARKINGS MAY BE REQUIRED BASED ON THE GEOMETRIC CONFIGURATION OF THE RAMP.

PAVEMENT MARKING ILLUSTRATIONS
IPO Lane Pavement Markings: Entrance Ramp

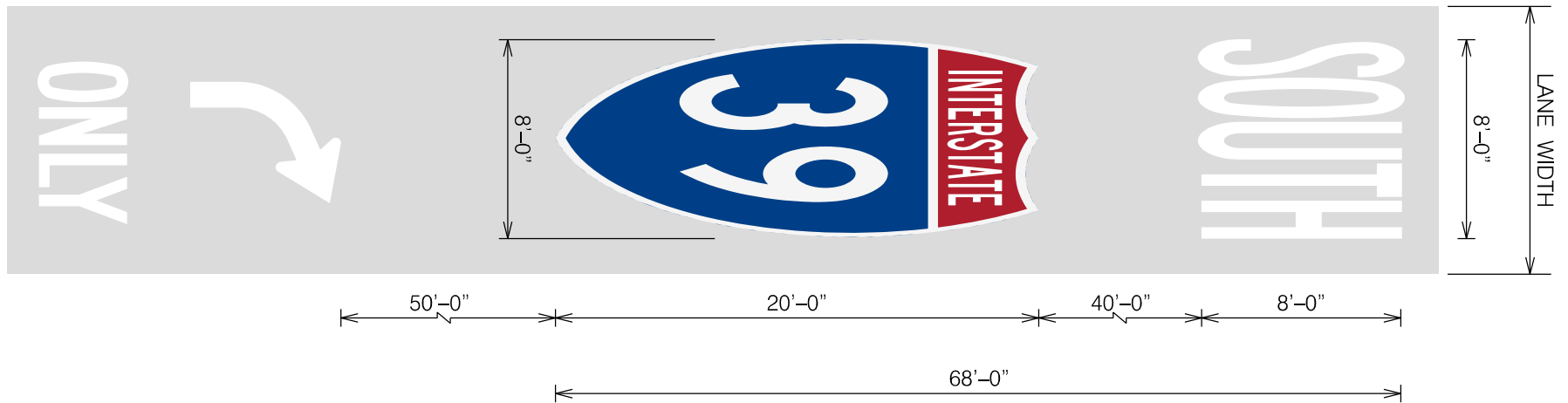
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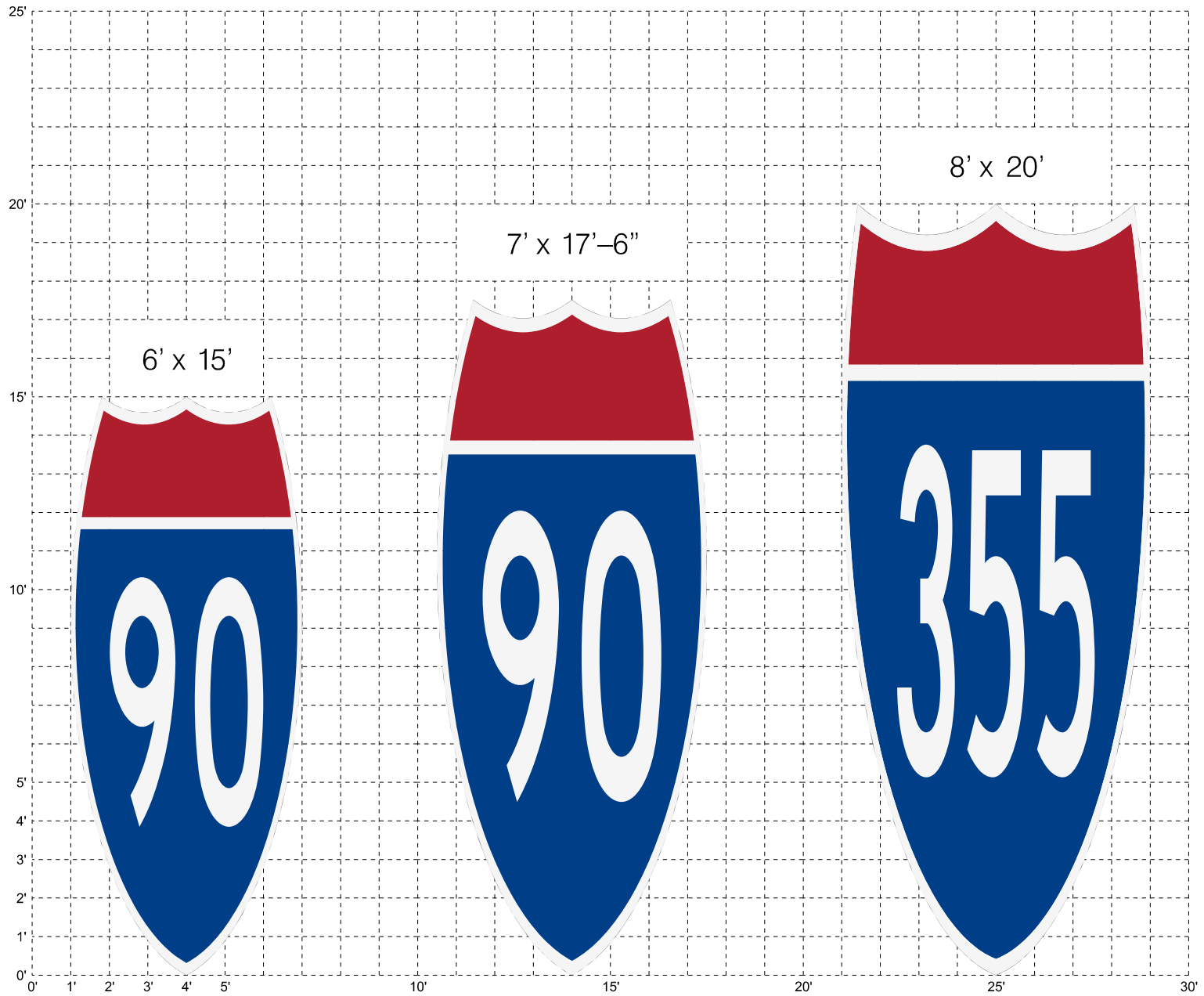
NOTES:

1. MINIMUM ONE "I-PASS ONLY" PAVEMENT MARKING IS REQUIRED PER IPO LANE. ADDITIONAL MARKINGS MAY BE REQUIRED BASED ON THE GEOMETRIC CONFIGURATION OF THE RAMP.

MARKINGS ILLUSTRATIONS
Interstate Shield Detail (Type I)
[Not to scale]



MARKINGS ILLUSTRATIONS
Interstate Shield Detail (Type II)
[Not to scale]





13. Engineering Studies

13 - Engineering Studies

13.1 - Engineering Study

MUTCD defines Engineering Study as the comprehensive analysis and evaluation of available pertinent information, and the application of appropriate principles, provisions, and practices as contained in the *MUTCD* Manual and other sources, for the purpose of deciding upon the applicability, design, operation, or installation of a traffic control device. Pursuant to bring Tollway practice into overall conformance with the Illinois adopted version of the *2009 Manual on Uniform Traffic Control Devices (MUTCD)*, the Engineering Studies address several issues pertinent to Tollway signing. The intent is to answer questions and issues regarding sign practice for universal application to Tollway signing. It is incumbent upon designers to check whether or not any of the practices and policies discussed here have been superseded or updated.

1. ETC Only: Use of "ONLY" messaging on ETC plaza lanes and auxiliary signs
2. Table: Traffic Generator Sign Categories per *MUTCD* and Illinois Tollway
3. Tollway Sign Issues:
 - a. Option lane exit signing for intermediate and minor interchanges
 - b. Distinguishing between Advance Guide and Supplemental Guide signs for interchange exit numbering applications
 - c. Stop sign sizes at toll booths
4. Wood posts for sign structures
5. Sign Support Research
6. Number of Sign Posts required based on Sign Size and Post Size

Designers on Tollway projects shall follow this practice unless directed otherwise by the Tollway Project Manager.

13.2 - Engineering Study Descriptions

The Tollway is applying the use of engineering studies to modify parts of the *MUTCD* guidance, as follows:

ENGINEERING STUDIES

Number	Date	Subject	Page
1	8/2/2012	ETC Only: Use of "ONLY" Messaging on ETC Plaza Lanes and Auxiliary Signs	13-3
2	8/3/2012	Table: Traffic Generator Sign Categories per MUTCD and Illinois Tollway 12-5	
3	10/15/2012	a) Option Lane Exit Signing for Intermediate and Minor Interchanges	13-6
		b) Distinguishing Between Advance Guide and Supplemental Guide Signs for Interchange Exit Numbering Applications	
		c) Stop Sign Sizes at Toll Booths	
4	1/9/2013	Wood Posts for Sign Structures	13-15
5	10/10/2014	Sign Support Research	13-18
6	3/30/2015	Number of Sign Posts Required base on Sign Size and Post Size	13-37

Memorandum

To: Adam Lintner, Steve Musser
From: Jim Powell
Date: August 2, 2012
Subject: Use of “ONLY” Messaging on ETC Lanes

At the July 31, 2012 Sign Guidelines review meeting with Epstein Global representatives, a question came up regarding placement of the required “ONLY” message on ETC plaza lane signs per the 2009 *Manual on Uniform Traffic Control Devices (MUTCD)*, specifically whether the “ONLY” message was required (“shall” condition) to be a panel within the ETC plaza lane sign or not. Section 2F.12 seems to imply that the “ONLY” is required to be a panel within ETC Account-Only signing.

After researching Section 2F further, it turns out that this is *not* the case. There are several places in Section 2F that require use of “ONLY” with the ETC pictograph as a “regulatory message.” The only place where this is required to be on a panel within a larger sign is on ETC Account-Only Auxiliary Signs (Section 2F.12) that direct drivers from a non-toll highway to a toll facility, e.g.:

MUTCD Fig 2F-4.



A. Lintner & S. Musser
August 2, 2012
Page 2

All other references are to either the more generic “regulatory message” or in one case a header panel or plaque (Sec 2F.17 Guide Signs for Entrances to ETC Account-Only Facilities). Thus for the at issue case of a toll plaza sign, the “ONLY” can be a plaque below the “I-PASS” sign, as discussed at the meeting and will be in conformance with the *MUTCD*:



cc: John Benda

Table xx: Traffic Generator Sign Categories per *MUTCD* and Illinois Tollway

	BLUE BOARD SIGNS (white text on blue background) Application Area	BROWN BOARD SIGNS (white text on brown background) Application Area	COMMENT
<i>MUTCD</i>	<i>MUTCD</i> Section 2 J: Gas Food Lodging <u>Camping Attractions 24-Hr Pharmacy</u> Recommended for Rural Areas Only	<i>MUTCD</i> Section 2M: Recreational and Cultural Interest Signs: <ul style="list-style-type: none"> • General applications • Accommodations (of recreational nature) • Services • Land Recreation • Water Recreation • Winter Recreation <hr/> Urban and Rural	
Illinois Tollway*	<u>Attractions (Sec 4.9) & Lodging (Sec 4.10)</u> Rural Only	Treated same as <i>MUTCD</i> for most cases (Sec 4.2), adds Points of Interest subgroup (Sec 4.3)	These are the only two types of Blue Board signs on the Tollway for non-Tollway entities. For use in rural areas only.

*See Illinois Tollway *Traffic Generator and Information Signage Policy Guide* for cited Sections.

Memorandum

To: Steve Musser (Tollway) & Bridget Malinowski (AECOM)
From: Jim Powell
Date: October 15, 2012
Subject: Tollway Sign Issues

Pursuant to review and update of the Illinois Tollway's *Signage Guidelines*, which includes updates to bring Tollway practice into overall conformance with the Illinois adopted version of the 2009 *Manual on Uniform Traffic Control Devices (MUTCD)*, this memo addresses several issues pertinent to Tollway signing. The intent is to answer questions and issues regarding sign practice for universal application to Tollway signing. It must be noted that both national and local practice may change over time, and it is incumbent upon designers to check whether or not any of the practices and policies discussed here have been superseded or updated.

Option Lane Exits at Intermediate and Minor Interchanges (MUTCD Sec 2E.23)

Background

The MUTCD contains the below Guidance statement, meaning that this is recommended practice that "should" be used:

Section 2E.23 Signing for Intermediate and Minor Interchange Multi-Lane Exits with an Option Lane

Support:

⁰¹ Intermediate and minor multi-lane exits might have an operational need for the presence of an option lane for only the peak period during which excessive queues might otherwise develop if the option lane were not available. In such cases, the Overhead Arrow-per-Lane or Diagrammatic guide signing described for option lanes in Sections 2E.21 and 2E.22 might not be practical, depending on the level of use of the option lane and the spacing of nearby interchanges, particularly in non-rural areas.

Guidance:

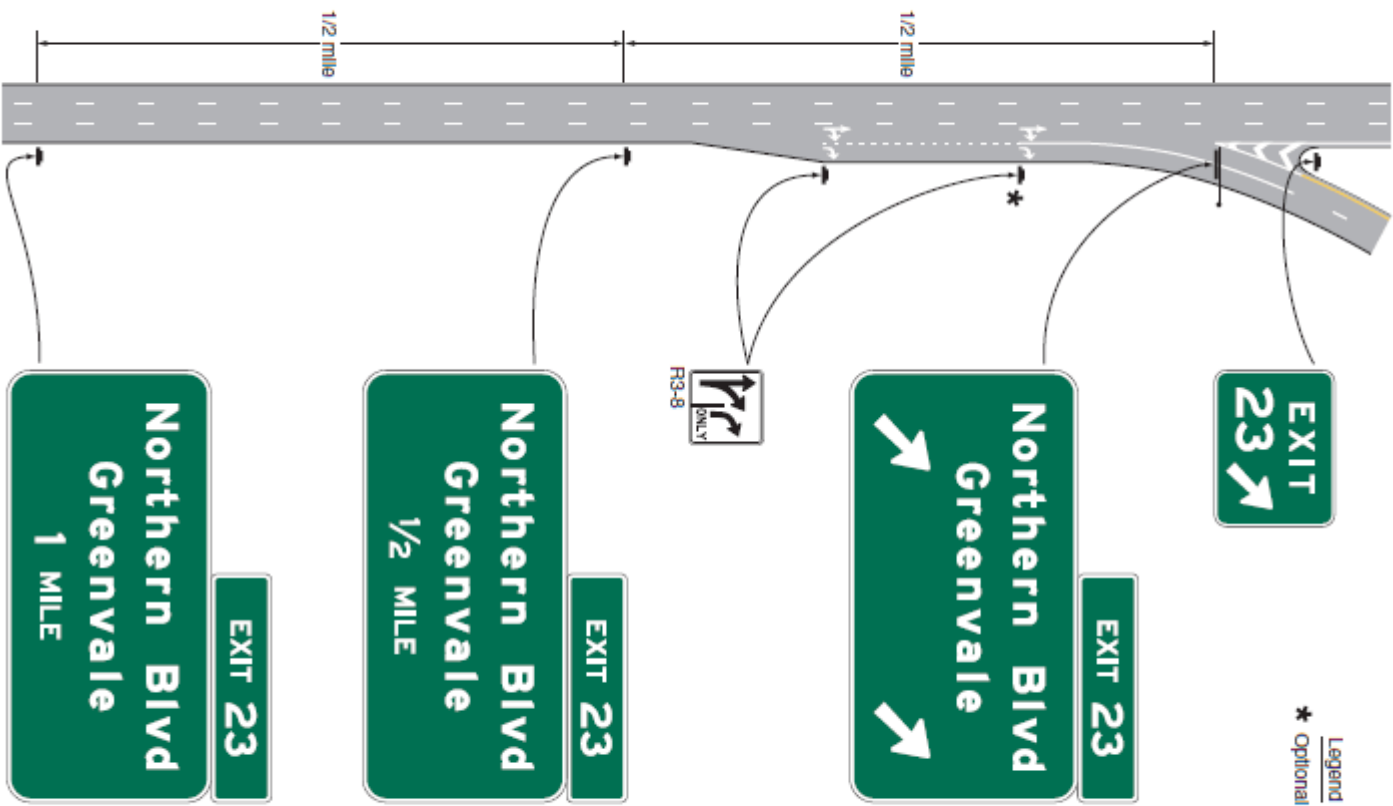
⁰² *Signing for an intermediate or minor interchange that has a multi-lane exit with an option lane that also carries the through route should use the same basic principles as those for a conventional exit. In such cases, the option lane is not signed on the Advance Guide signs. For such exits that involve the addition of an auxiliary lane that is not present at the Advance Guide sign locations, but do not involve a lane drop (see Figure 2E-12), a sequence of post-mounted or overhead-mounted Advance Guide signs should be used, located in accordance with the interchange classification (see Section 2E.32). The Exit Direction sign should be located at the theoretical gore and display a diagonally upward-pointing directional arrow above each lane that departs from the mainline alignment. The Exit Direction sign should not contain the EXIT ONLY legend.*

⁰³ *For such interchanges that also have a lane drop (see Figure 2E-11), the Advance Guide and Exit Direction signs should follow the provisions of Section 2E.24. The Exit Direction sign should be located at the theoretical gore and should contain the EXIT ONLY (E11-1e) sign panel.*

⁰⁴ *The presence of the option lane should be conveyed by the use of post-mounted lane-use (R3-8 Series) signs (see Section 2B.22). When used, the R3-8 signs should be of an appropriate size for their application to optimize their conspicuity. The signs should be located in succession with the Advance Guide signs, where the option and exit lanes have developed (see Figure 2E-11). In cases where the exiting lane or lanes have not developed and the option lane is created by the addition of an auxiliary lane that exits, the R3-8 signs should be located only adjacent to where the lanes have been fully developed and not in advance of the lane or along its transition (see Figure 2E-12).*

Mr. Steve Musser & Ms. Bridget Malinowski
October 15, 2012
Page 3

**Figure 2E-12. Example of Signing for a Two-Lane Intermediate or Minor Interchange
Exit with Option and Auxiliary Lanes**



Mr. Steve Musser & Ms. Bridget Malinowski
October 15, 2012
Page 4

Tollway Practice

The MUTCD further states that Guidance can be overridden based on engineering judgment, and that such judgment does not need to be formally documented:

Sec 1A.13, p10: “B. Guidance—a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgment or engineering study indicates the deviation to be appropriate. All Guidance statements are labeled, and the text appears in unbold type. The verb “should” is typically used...”

Sec 1A.13, p 14: “64. Engineering Judgment—the evaluation of available pertinent information... .. Documentation of engineering judgment is not required.”

The Tollway, however, generally states the reasons for exercising engineering judgment that runs counter to the *MUTCD*, and that practice is followed here.

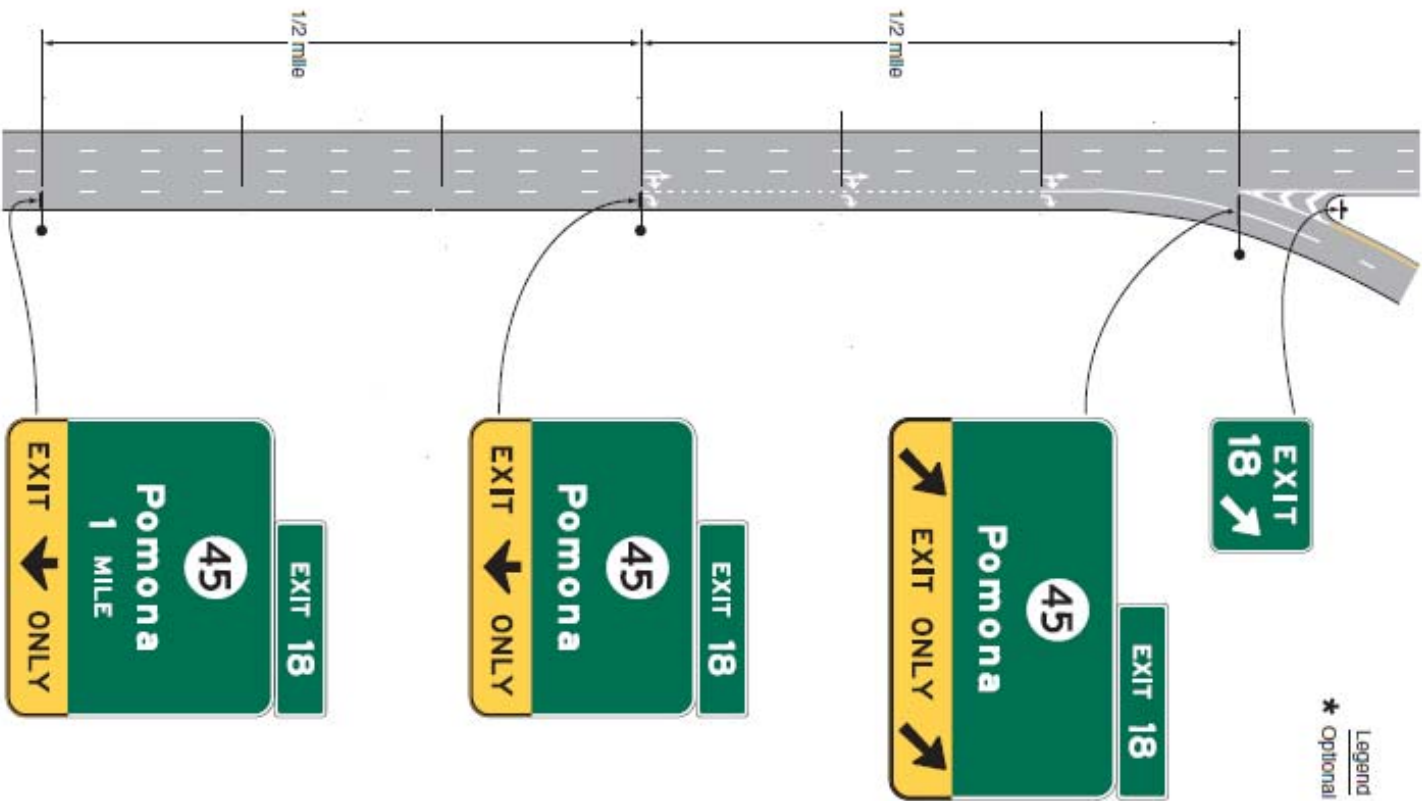
In this case, Illinois Tollway staff in coordination with CDM Smith have reviewed this guidance and are applying engineering judgment to modify parts of the MUTCD guidance, as follows:

- Use of the R3-8 ground mounted sign is considered inappropriate for the Tollway because 1) such signs are normally associated with surface streets, not freeway and tollway facilities, and 2) ground mounted signs like this often may not be visible to drivers when trucks occupy the outside lane or lanes.
- Tollway practice is to always use an “EXIT ONLY” (black/yellow) legend and arrows when the Exit Direction sign is at or very near the theoretical gore in both cases of an auxiliary lane and a lane drop. This is based on the perceived need for clear and accurate guidance at Tollway exits, many of which occur in an environment of competing backgrounds.
- In summary, option lane exit signing for Intermediate and Minor interchanges (interchange type as determined by the Tollway) is to follow *MUTCD* Figure 2E-11 but without R3-8 ground mounted signs, as illustrated on the next page.

Designers on Tollway projects shall follow this practice unless directed otherwise by the Tollway Project Manager.

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October 15, 2012
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Tollway Practice: Option Lane Exit Signing for Intermediate and Minor Interchanges



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Interchange Exit Numbering (*MUTCD* Sec 2E.31)

The *MUTCD* states the following with respect to interchange exit numbering:

Sec 2E.31: Standard: Interchange numbering shall be used in signing each freeway interchange exit. Interchange exit numbers shall be displayed with each Advance Guide sign, Exit Direction sign, and Exit Gore sign. The exit number shall be displayed on a separate plaque at the top of the Advance Guide or Exit Direction sign...

Advance Guide signs then are discussed per:

Section 2E.33 Advance Guide Signs

Support:

An Advance Guide sign (see Figure 2E-22) gives notice well in advance of the exit point of the principal destinations served by the next interchange and the distance to that interchange.

Guidance:

For major and intermediate interchanges (see Section 2E.32), Advance Guide signs should be placed at ½ mile and at 1 mile in advance of the exit with a third Advance Guide sign placed at 2 miles in advance of the exit if spacing permits...

Figure 2E-22. Examples of Interchange Advance Guide Signs, Exit Number Plaques, and LEFT Plaque



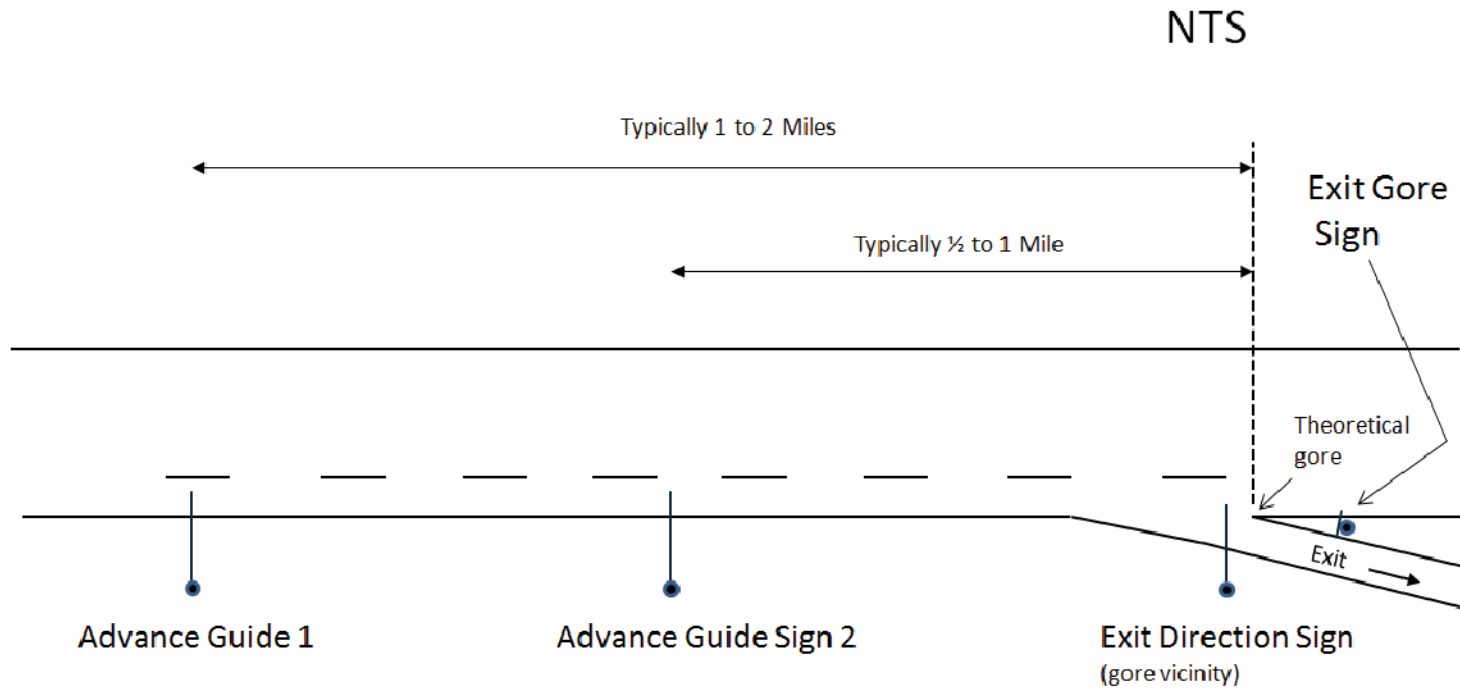
Note: Delete word EXIT(S) if exit number is used.

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October 15, 2012
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Tollway Practice

The issue on the Tollway is classification of signs as Advance Guide vs. Supplemental Guide, since at some Tollway exits there are signs well in advance of the exit (over about 3 miles) that have legend that is the same as Advance Guide signs in closer proximity to the exit. This section discusses distinguishing between Advance Guide signs that do include exit numbering and Supplemental Guide signs that should not include such numbering. The figure on the next page lays out Tollway practice to incorporate exit numbering on guide signs approaching and at Tollway exits.

Tollway Practice: Exit Numbering



Exit Numbering shall be included on the Exit Gore Sign, the Exit Direction Sign, and **TWO** Advance Guide Signs ideally within 2 Miles of the theoretical gore.

Mr. Steve Musser & Ms. Bridget Malinowski
October 15, 2012
Page 9

Stop Sign Sizes at Toll Booths (MUTCD Sec 2A.11)

Section 2A.11 of the *MUTCD* states: "...the sign dimensions shall not be less than the minimum dimensions specified in this Manual." Section 2B.03 goes on to prescribe minimum stop sign (R1-1) dimensions of 30" x 30" for single lane approaches. The Tollway, however, uses a 15" x 15" foam board sign on toll gate arms, as illustrated below.



Engineering Study

In the case of toll arm stop sign, the smaller stop sign is supplemental to the gate arm and a standard size stop sign mounted on the right side of such toll plaza lanes (not shown in picture). The toll arm stop sign is used solely to improve driver recognition of the need to stop. The need for supplemental signing is based on Tollway experience with motorists knocking down or crashing through gate arms, and a standard 30" x 30" metal stop sign would be too heavy for the gate arm mechanism. Under the circumstances, the reduced size is acceptable because it is not the operative, mandatory traffic control device conveying the required regulatory message.



Memorandum

Page 302

To: Steve Musser, Jeff Schneberg (Tollway), Bridget Malinowski,
Matt Pregmon (AECOM)

From: Peter R. Dombrowski SE PE

Date: January 9, 2013

Subject: Engineering Study of Wood Posts for Sign Structures.

Epstein completed the requested review of utilizing wood posts specifically for larger signs placed in the gore areas.

In summary, the engineering study focused on specific conditions that the Illinois Tollway utilizes for these sign posts while eliminating overly conservative assumptions embedded into various codes. This was achieved by the following:

1. Member size is limited to 6"x6" wood posts to accommodate the equipment of the in-house maintenance staff.
2. Material properties were limited to Southern Pine No. 2. The material properties of the Douglas-Fir as an option were not equivalent. Crash test data was also limited to So. Pine No. 2 or equivalent. To maintain the economics and standard of practice, the study sets for a specific material property, but also allows ISHTA to approve alternative materials that meet the minimum bending stress requirement.
3. Properties of the 6"x6" member were taken directly from the NDS manual for the allowable bending stress.
4. Dimensions for spacing of posts are rounded to the nearest 3" increment to keep fabrication and installation simple for maintenance crews.
5. Latest design study calculation hold a 5'-0" sign plate height and 11'-6" average overall, this allows for wider signs to be fabricated within this study as long as the 3'-9" maximum post spacing is not violated.

The summary table indicates the minimum wood post size for the exit gore signs analyzed.

CC: V. Iniguez, T. Pelletier (Epstein)

Architecture
Interiors
Engineering
Construction

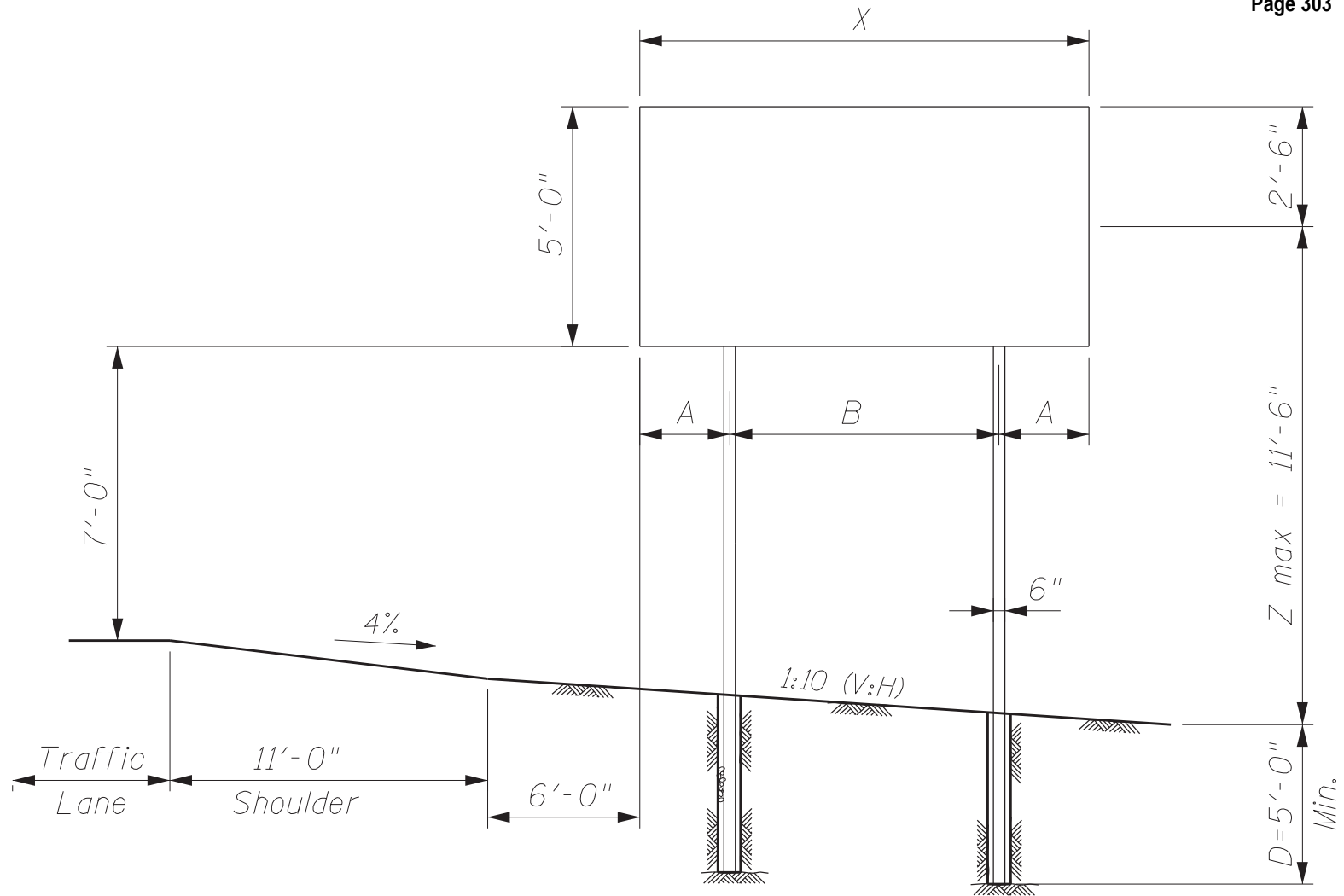
600 West Fulton Street
Chicago, Illinois

60661-1259

T (312) 454-9100

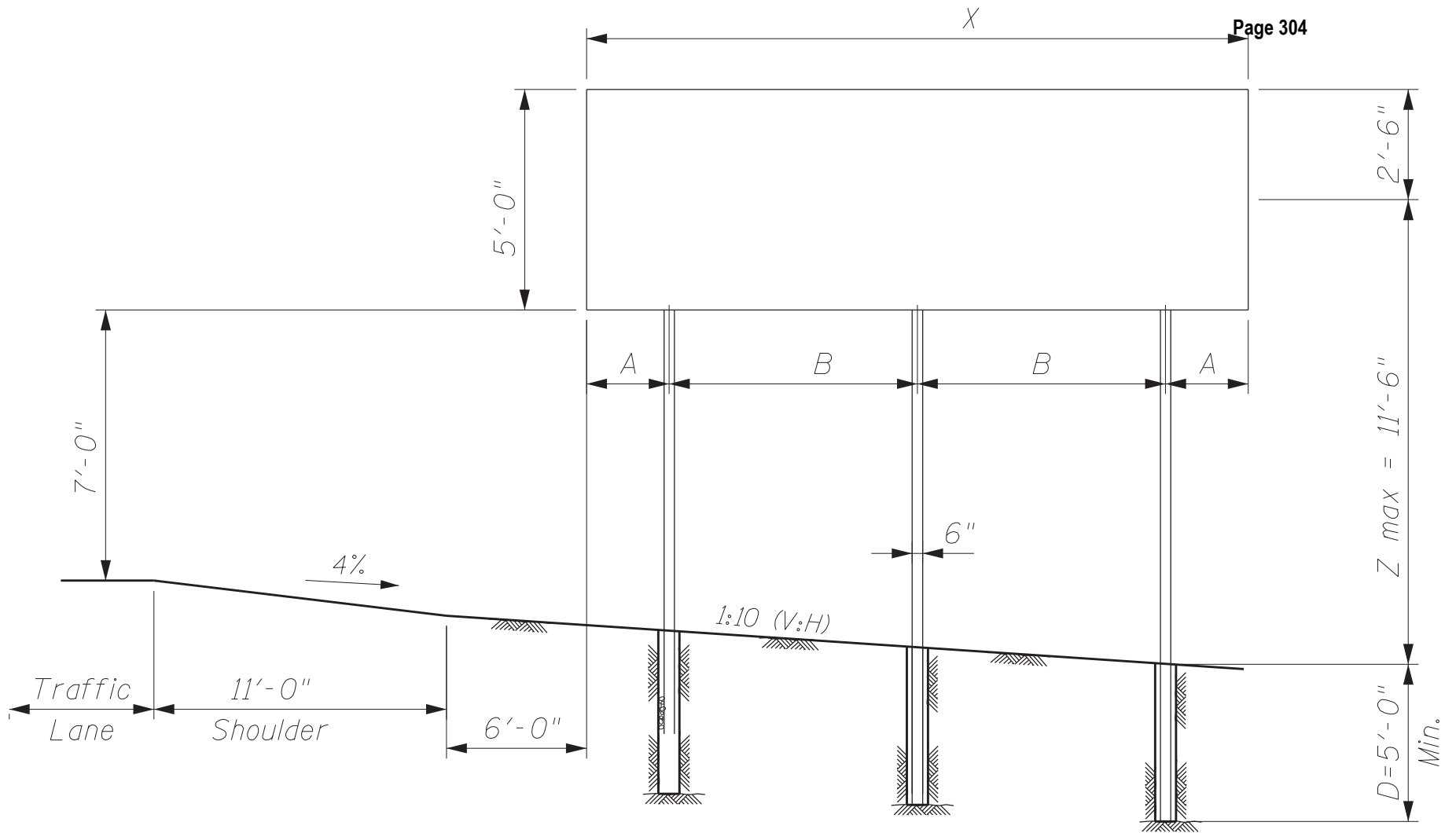
F (312) 559-1217

www.epsteinglobal.com



Sign Designation	X , ft	A , ft	B , ft
G-IT4A, C	6.50	1.25	4.0
G-IT4B	7.50	1.5	4.5

GORE SIGN ON 2-6"x6" TIMBER POSTS



Sign Designation	X, ft	A, ft	B, ft
G-IT4D	9.00	0.75	3.75
G-IT4E	11.50	2.0	3.75
G-IT4F	8.00	0.5	3.5
G-IT4G	10.50	1.5	3.75

GORE SIGN ON 3-6"X6" TIMBER POSTS



TO: Illinois Tollway

FROM: Hanson Professional Services

DATE: 10/10/2014

SUBJECT: Sign Support Research

The Tollway has requested additional research be generated for different wood post sizes, wood type, and number of posts recommended by other agencies, research boards, and State Departments of Transportation for use with signs.

The **goals** of this memorandum are the following:

1. Summarize the material, number, and size of wood post supports to use for various sign sizes based on existing resources from other agencies, researchers, and State Departments of Transportation.
2. Highlight acceptable methods to make sign posts breakaway.
3. Illustrate in a table what the Tollway Sign Shop's current standard practices are versus results calculated using AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals Manual (6) 2013 equations.
4. Highlight examples of speed limit sign supports used by neighboring states.

Material, size, and number of supports to use for various sign sizes

Breakaway, or "crashworthy", sign support systems have been extensively tested by the following entities at the Federal Outdoor Impact Laboratory (FOIL) based on the two reports listed below:

- U.S. Department of Transportation – Federal Highway Administration (FHWA) Report, September 3, 1993
- Transportation Research Board (TRB) 14-479 - Development of a Crashworthy Support System for Large Temporary Guide Signs, Report by R.P. Blingh and D.R. Arrington, August 1, 2013

Testing conditions administered by these entities for various breakaway sign supports were kept as constant as possible and were measured in accordance to the Manual for Assessing Safety Hardware (MASH) and the National Cooperative Highway Research Program (NCHRP) Report 350 evaluation criteria. Within the "clear zone" of a roadway, roadside signs of all types must meet breakaway standards unless mounted on, or protected by a barrier or guardrail.

Data from the Iowa State University Institute for Transportation (ISUIT):

According to the document "Sign Posts and Supports" by the Center for Transportation Research and Education, Iowa State University Institute for Transportation dated 2001 (<http://www.ctre.iastate.edu/pubs/itcd/signposts.pdf>), the following graph and table (see Figure 1) was generated for use in determining the number and size of wood and steel posts needed for various sign sizes.

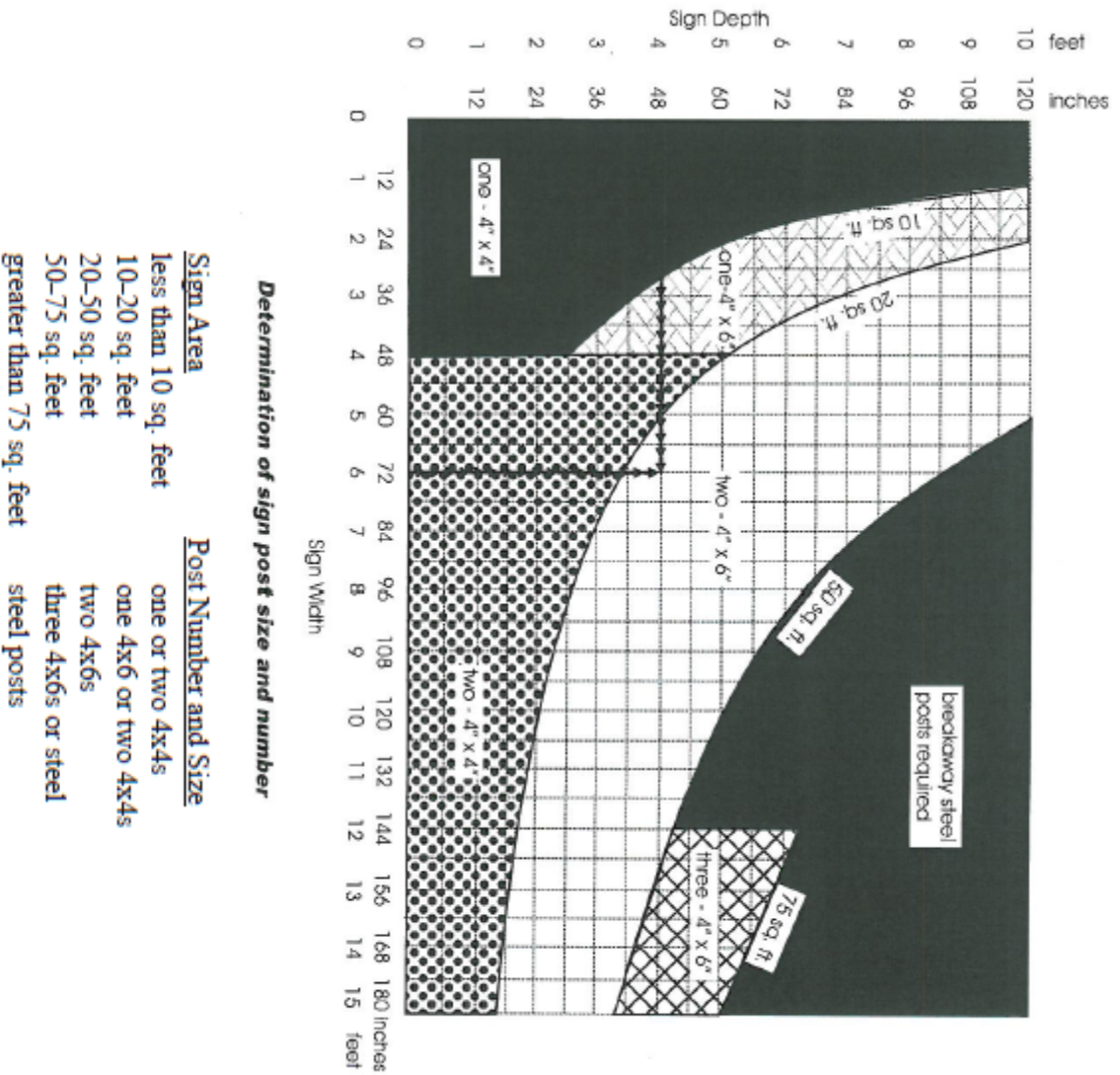


Figure 1. Number and Size of Sign Posts (source: ISUIT 2001)

Small signs (less than 50 SQFT) are commonly supported with either wood or steel posts. Larger signs (greater than 50 SQFT) may be mounted on specially designed steel or aluminum structures such as trusses, bridges, or cantilever supports. Wood posts are available in standard sizes of 4"x4", 4"x6" and larger. Major types of steel sign posts for small signs include U-channel, round pipe, and square tube. In addition to the graph in Figure 1, the dimensions in the same figure can be used as a guide to select the size and number of wood posts, "Sign Posts and Supports" by the Center for Transportation Research and Education, Iowa State University (<http://www.ctre.iastate.edu/pubs/itcd/signposts.pdf>).

For stability reasons, a maximum width of 4' is recommended for signs to be mounted onto a single post. The recommended sign width for a three-post assemble is 12' to avoid having two posts within the path of an errant vehicle, "Sign Posts and Supports" by the Center for Transportation Research and Education, Iowa State University Institute for Transportation dated 2001 (<http://www.ctre.iastate.edu/pubs/itcd/signposts.pdf>).

Posts for smaller signs with less than 10 SQFT of area should be installed with approximately 4' below the ground surface. For larger signs and longer post lengths, the portion below the

ground surface should be a minimum of 5', "Sign Posts and Supports" by the Center for Transportation Research and Education, Iowa State University Institute for Transportation dated 2001 (<http://www.ctre.iastate.edu/pubs/itcd/signposts.pdf>).

All wood posts 4"x6" or larger must be modified to meet breakaway requirements if located within the clear zone. This modification can be achieved by drilling two holes near the bottom section of the post above the ground surface (see Figure 2), "Sign Posts and Supports" by the Center for Transportation Research and Education, Iowa State University Institute for Transportation dated 2001 (<http://www.ctre.iastate.edu/pubs/itcd/signposts.pdf>).

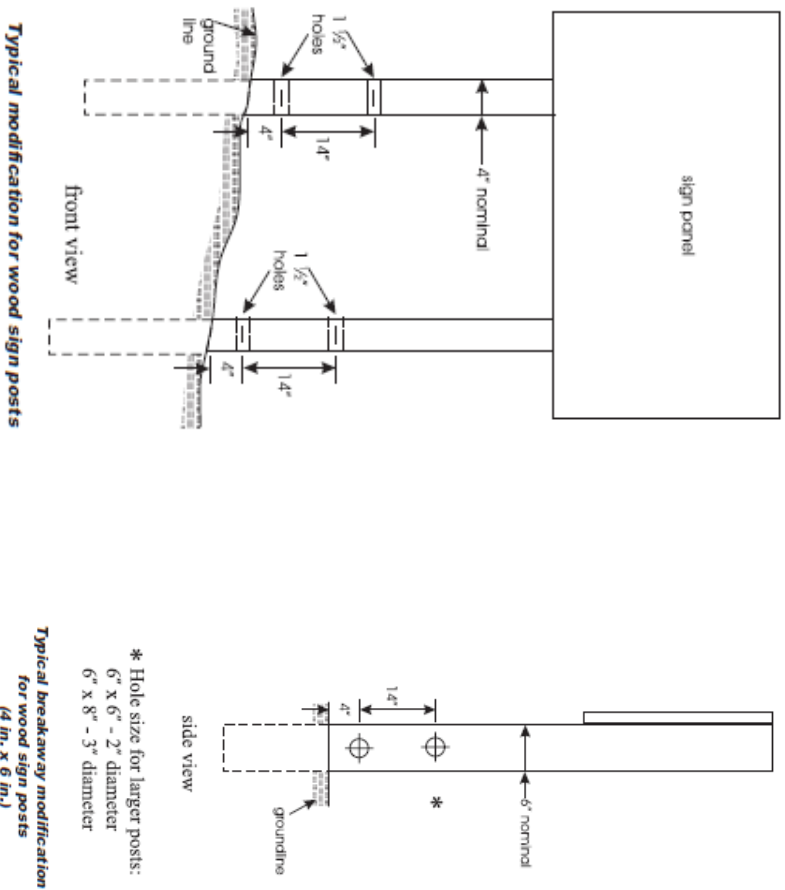


Figure 2. Wood Sign Post Breakaway Modifications (Source: ISUIT 2001)

Data from the Wisconsin Department of Transportation (WisDOT):

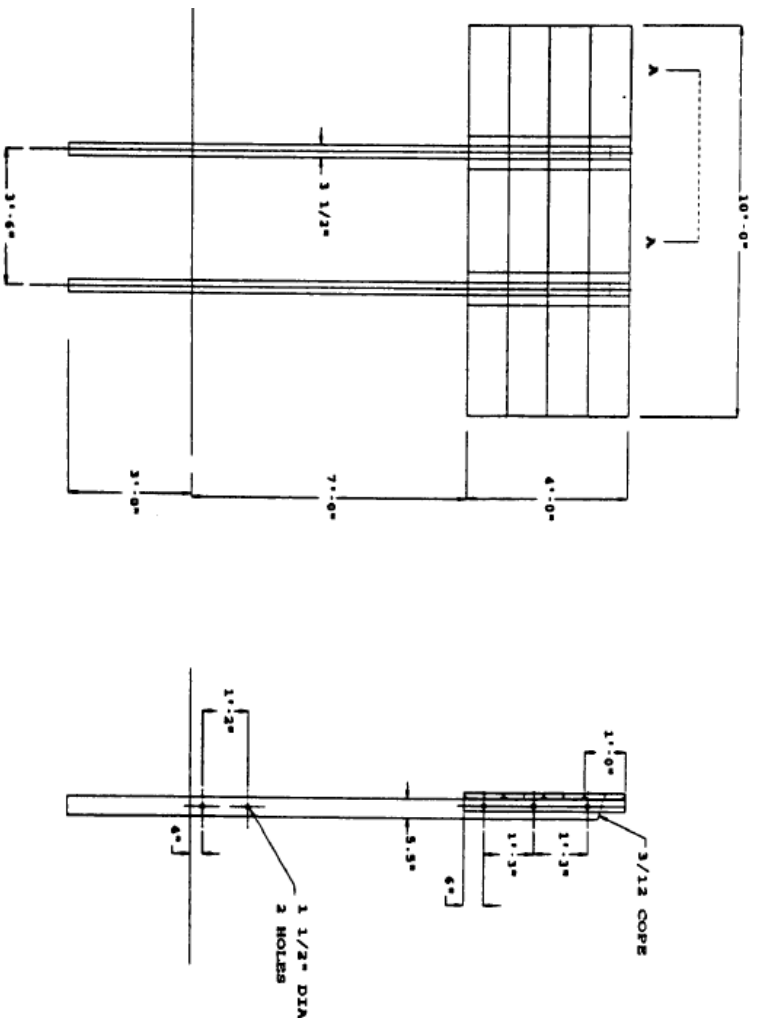
According to the document "Evaluation of Wood Species and Preservatives for WisDOT Sign Posts" prepared by Stan Lebow, Robert Ross, Sam Zeilinka, and Carol Clausen of the USDA, Forest Service, Forest Products Laboratory dated October 2013 (<http://wisdotresearch.wi.gov/wp-content/uploads/WisDOT-Policy-Research-0092-13-15-final-report.pdf>), the type of wood support material usually varies across different states, but in general, two species are typically used:

- Southern Yellow Pine
- Douglas Fir

In comparison, the Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction adopted January 1, 2012 state wood supports shall be either Southern Pine No. 2 or Douglas Fir No. 2. Other state agencies cite to follow the AASHTO Standard Specification M 168 or the American Wood Protection Association (AWPA) standards for allowable wood species rather than listing individual species.

Data from the U.S. Department of Transportation and Federal Highway Administration:

According to the document "Testing of Small and Large Sign Supports" prepared by the U.S. Department of Transportation and Federal Highway Administration dated September 3, 2013 (http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/breakaway/pdf/ss36.pdf), The crash test guidelines have been updated and have replaced the NCHRP Report 230 with the NCHRP Report 350. Additionally, according to Section 7 of the AASHTO support specifications, breakaway devices are to be tested with an 1800-pound vehicle at 20 mph and at 60 mph. The NCHRP Report 350 recommends a maximum velocity change of 16.4 fps. In Appendix A of the US DOT/FHWA 2013 document, Figure 3 shows a sketch of a small sign support for testing is provided and states the distance from the ground surface to the bottom of the sign being 7ft (see Figure 3).



Acceptable – Dual 89-mm x 140-mm (4-in x 6-in) Southern Yellow Pine Wood Posts in Soil, Modified with two 38-mm (1.5-in) Holes, Two Posts Hit

Test Number	92F009	92F010
Soil Type	S-2 (Weak)	S-2 (Weak)
Embedment length, mm (in)	914 (36)	914 (36)
Impact Speed, km/h (mps)	32.2 (20.1)	94.3 (58.6)
Velocity Change, m/s (fps)	4.36 (1.43)	2.29 (7.5)
Occupant Impact, m/s (fps)	2.62 (8.6)	2.29 (7.5)
Stub Height, mm (in)	(see text)	< 100 mm (4 in)

Figure 3. Sketch and Table of Small Sign Support: 92F009 & 92F010
(Source: US DOT/FHWA 2013)

The sign support systems tested under the second phase of the study which has been judged to be acceptable for use on NHS projects are listed in section V A of the above referenced document. The test results indicated that the dual modified (Southern Yellow Pine with 2, 1.5" diameter holes in each post) 4" x 6" wood post support set in soil meet the FHWA breakaway

In Appendix B of "Testing of Small and Large Sign Supports" prepared by the U.S. Department of Transportation and Federal Highway Administration dated September 3, 2013 (http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/breakaway/pdf/ss36.pdf), there is a table labeled as "Summary of Sign Support Systems Tested and/or Accepted. Within Appendix B, noteworthy types of support systems tested included wood post systems, steel U-channel systems, slip base systems, 2" diameter schedule 40 steel pipe, 1.75" square perforated steel tube, and 3" diameter fiberglass posts. Noteworthy items that are accepted are two – 4" x 4" unmodified wood posts placed in all soil (no concrete foundation) types, two – 4" x 6" modified with 1.5" diameter holes for wood posts placed in all soil (no concrete foundation) types, and two – 6" x 8" modified with 3" diameter holes for wood posts placed in all soil (no concrete foundation) types (see table 1).

Table 1. FHWA Summary of Sign Supports

Appendix B: Summary of Sign Support Systems Tested and/or Accepted

Wood Post Systems

Size	# of Posts	Hole Size	OK In All Soils?	OK in S-1 Soil?	OK W/Conc. Pad??	Test Numbers
4" x 4"	2	None	Yes	Yes	No *	90F015, 050, 054, 055, 92F015
4" x 6"	1	None	No	Not Tested	Yes *	90F037, 91F032, 033
4" x 6"	2	1.5"	Yes	Yes	Not Tested	92F009, 010
4" x 6"	2	None	No	Not Tested	No *	90F037, 92F014
6" x 8"	1	3"	Yes	Yes	Yes *	90F045, 046, 92F020, 021
5" Top Diameter	1	2"	Not Tested	Not Tested	Yes, Solcrete	92F016, 026

Wood posts placed in cylindrical concrete foundation with steel sleeve. Foundation set in S-2 soil.

(Source US DOT/FHWA 2013)

Data from the Texas A&M Transportation Institute:

According to the document "Development of a Crashworthy Support System for Large Temporary Guide Signs" prepared by Rodger P. Bligh, Ph.D., P.E. and Dusty R. Arrington of the Texas A&M Transportation Institute dated August 1, 2013 (<http://docs.ttb.org/drp/14-4791.pdf>), a temporary direct embed wood post support system for large guide signs was developed and successfully crash tested in accordance with MASH guidelines. The design considers wind loads, foundation requirements, and impact performance. The direct embedded support posts eliminate the need for reinforced concrete foundations. Variations of different post size, grade, and spacing were used in the testing. Previous research from, "Testing of Small and Large Sign Supports" prepared by the U.S. Department of Transportation and Federal Highway Administration dated September 3, 2013 (http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/breakaway/pdf/ss36.pdf), has shown that weakening wood posts through the use of drilled holes at strategic locations has enhanced crashworthiness without sacrificing a significant percentage of their wind load capacity. Numerous wood sign support configurations were crash tested and evaluated as part of a national pool-funded study titled "Testing of Small and Large Sign Supports" performed in the early 1990s. The testing was conducted at the Federal Highway Administration's Federal Outdoor Impact Laboratory (FOIL). Most posts tested were of the Southern Yellow Pine (SYP) species. Support posts were tested in single and multiple support configurations. Some tests involved impacting one or two posts in a dual or multiple support installations. This is an important distinction because the behavior of the sign support system is different depending on whether or not all posts in an installation are impacted.

According to the Texas A&M study, supports successfully tested and considered eligible for use on the National Highway System (NHS) include:

- A single, unmodified 4" x 6" SYP post
- Dual 4" x 6" SYP posts with two - 1.5" diameter holes drilled through the post along its strong axis at heights of 4" and 18" above grade
- Dual 6" x 8" SYP posts with two - 4" diameter weakening holes at 4" and 18" above grade drilled perpendicular to the roadway and one - 3 5/8" weakening hole parallel to the roadway. A design modification is required for high-speed impacts. It involves drilling a small hole through the wood support parallel to the sign panel above and below the weakening hole. A ¼ - inch diameter cable is used to form a loop through the holes. Upon fracture of the support through the upper weakening hole, the cable will restrict rotation of the support toward the impacting vehicle (see Figure 5).

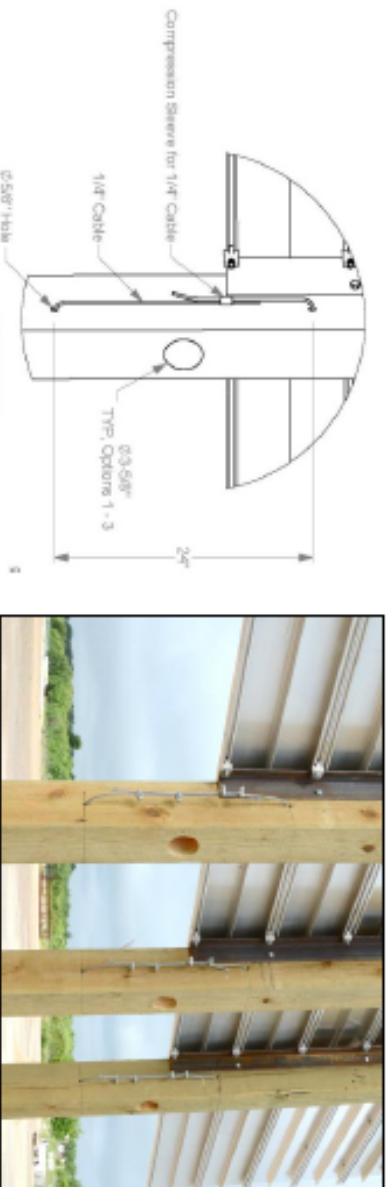


Figure 5. Cable Thru Weakening Hole (Source: Texas A&M/ TTI 2013)

According to “Development of a Crashworthy Support System for Large Temporary Guide Signs” prepared by Rodger P. Bligh, Ph.D., P.E. and Dusty R. Arrington of the Texas A&M Transportation Institute dated August 1, 2013 (<http://docs.ttb.org/prp/14-4791.pdf>), in addition to being crashworthy, sign supports must also meet wind load requirements described in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (6) 2013. The recommended minimum design life for roadside sign structures is 10 years. As illustrated in the AASHTO manual a 90 mph design wind speed with a 10 year recurrence interval was used by TTI in design. This AASHTO value was used to determine the required number of support posts and the maximum hole size that can be used to weaken the support to help facilitate fracture during vehicle impacts. In Texas, the minimum mounting height for signs is 7 ft. measured relative to the pavement surface. Because signs are typically installed in roadside slopes beyond the shoulder, a range of mounting heights from 7 to 10 feet was considered.

There are two grades of wood that is considered for sign posts, grade 1 and grade 2. Post size and grade directly affect the material strength of the post. Grading for Southern Pine posts are determined by the Southern Pine Inspection Bureau Grading Rules (SPIBGR) and Douglas Fir posts are determined by the West Coast Lumber Inspection Bureau Standard Grading Rules (WCLIBSGR), (IDOT - Standard Specifications for Road and Bridge Construction, January 1, 2012).

An example table is provided. Table 1 (see Figure 7) in “Development of a Crashworthy Support System for Large Temporary Guide Signs” prepared by Rodger P. Bligh, Ph.D., P.E. and Dusty R. Arrington of the Texas A&M Transportation Institute dated August 1, 2013 (<http://docs.trb.org/drf/14-4791.pdf>), represents the results of the sign support analysis which considers a 16’ wide x 8’ tall (128ft²) sign. It shows that for grade 2 timber posts with a wind velocity of 90 mph and a sign mounting height of 7ft require:

- 4”x6” post size – use 5 posts spaced at a minimum of 3.20 ft. with a maximum hole size of 1.83 inches.
- OR
- 6”x8” post size – use 3 posts spaced at a minimum of 5.33 ft. with a maximum hole size of 3.8 inches.

Table 1. Sign Support Requirement Analysis

Wind Velocity (mph)	Sign Mounting Height (ft)	Post Size (in)	Max Hole Size (in)	Number of Posts	Minimum Post Spacing (ft)	Number of Posts Impacted
Grade 1						
100	10	4x6	1.98	6	2.67	3
		6x8	3.91	3	5.33	2
		4x6	2.7	5	3.20	2.3
	7	6x8	5.39	3	5.33	2
		4x6	2.39	5	3.20	2.3
		6x8	5.26	3	5.33	2
90	7	4x6	2.58	4	4.00	2
		6x8	4.31	2	8.00	1
		4x6	2.15	8	2.00	3.4
	10	6x8	4.33	5	3.20	2.3
		4x6	0.42	6	2.67	3
		6x8	4.46	4	4.00	2
100	7	4x6	2.93	7	2.29	3
		6x8	4.23	4	4.00	2
		4x6	1.83	5	3.20	2.3
	10	6x8	3.8	3	5.33	2
		4x6	2.15	8	2.00	3.4
		6x8	4.33	5	3.20	2.3
90	7	4x6	2.58	4	4.00	2
		6x8	4.31	2	8.00	1
		4x6	2.15	8	2.00	3.4
	10	6x8	4.33	5	3.20	2.3
		4x6	0.42	6	2.67	3
		6x8	4.46	4	4.00	2
100	7	4x6	2.93	7	2.29	3
		6x8	4.23	4	4.00	2
		4x6	1.83	5	3.20	2.3
	10	6x8	3.8	3	5.33	2
		4x6	2.15	8	2.00	3.4
		6x8	4.33	5	3.20	2.3
90	7	4x6	2.58	4	4.00	2
		6x8	4.31	2	8.00	1
		4x6	2.15	8	2.00	3.4
	10	6x8	4.33	5	3.20	2.3
		4x6	0.42	6	2.67	3
		6x8	4.46	4	4.00	2
100	7	4x6	2.93	7	2.29	3
		6x8	4.23	4	4.00	2
		4x6	1.83	5	3.20	2.3
	10	6x8	3.8	3	5.33	2
		4x6	2.15	8	2.00	3.4
		6x8	4.33	5	3.20	2.3

Figure 7. Example TTI Sign Support Comparison
(Source: Texas A&M/TTI 2013)

Neighboring States examples with R2-1 & R2-4a signs:

Wisconsin using 2 wood supports:



Note: Correspondence with the Wisconsin Department of Transportation (WisDOT) Bureau of Structures (BOS) noted that similar calculations per the AASHTO – Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals Manual (6) 2013 were used to determine the number of wood supports used on their signs (as shown above). Villanueva Matt and Hille Jay (WisDOT), (personal communication, June 17, 2014).

Minnesota using 4 telespar sign supports:



I-35 & MN 23 east



I-694 & 34th St N



I-35W & Cleveland Ave N
(Source: Google Earth 2014)

Iowa using 1 I-beam post (see note):



I-80 & US 6 east / Iowa 14 – Newton,
Monroe



I-380 & S Raymond Rd



I-80 & US 59

(Source: Google Earth 2014)

Note: Per an email correspondence with Zachary Abrams of Iowa DOT, the I-beam posts shown in the photos for Speed Limit Sign Assemblies with "Minimum Speed" have been discontinued in favor of 4"x6" Rectangular Steel Tube. Typically, however, districts are given discretion to use either wood posts or telespar for most small sign applications. Large signs using steel I-beams (typically over 100 square feet) are limited to either W8x21 or W12x26 beams mounted in concrete foundations. Breakaway details are given on Iowa DOT Standard Road Plan SI-113, Sheet 2. Quill Mike and Abrams Zachary (Iowa DOT), (personal communication, March 2, 2015).

Comparison of Tollway Sign Shop Wood Supports vs. AASHTO Criteria (Attachment 1):

The attached table illustrates the results based on evaluating sign support sizes using equations from the [AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals Manual \(6\) 2013](#). The results shown in the table are strictly based from the formulas and standards represented from the AASHTO manual.

Illinois Department of Transportation (IDOT) Policy:

The Bureau of Operations is responsible for installation of signage. According to a conversation with the Bureau of Operations Engineering Standards Unit Chief, there is no IDOT

policy regarding material or quantity of sign posts apart from those specifically detailed in the IDOT Sign Structures Manual (which deals with large bridge and truss mounted sign structures). Regarding smaller scale, post-mounted signs, each IDOT district has the authority to decide what to use based on preference and experience.

In IDOT District One—responsible for the Chicagoland area—expressway signs larger than 10 square feet are mounted on wood posts when speed limits are greater than 55 mph. According to the District 1 sign shop manager, Bill Doherty, a second post is added for signs more than 48” wide. Mr. Doherty stated that wood posts are a more time consuming install, as they require auguring and coring, whereas telespar posts can typically be pushed into the ground using the down pressure of their Digger Derrick truck boom. He added that in his opinion and experience, both wood and steel hold up well to wind, plows and weather as long as they aren’t struck or impacted directly. Quill Mike and Doherty Bill (IDOT), (personal communication, February 24, 2015).

Missouri Department of Transportation (MoDOT) Electronic Signpost Selection Guide:

The MoDOT Engineering Policy Guide Section 903.3 deals with post mounted signing. The online version includes a link to a Signpost Selection Guide, an excel document that can be used to assist in determining the number and sizes of posts based on sign size and post material. The cover page is shown in Figure 8. A table is included with general guidelines for material selection based on the square footage and width of the sign. The example of a freeway sized R2-1 Speed Limit sign using wood posts (where inputs were a 4 ft width and 5 ft height) is shown in Figure 9. The same example using pipe posts is shown in Figure 10. The Selection Guide program also has calculators for PSST and channel posts.

SIGN POST SELECTION GUIDE

Post Selection Worksheets For:

- Channel / Wood / PSST Posts
- Pipe Posts
- Structural Posts with Post Spacing

Select The Appropriate Worksheet Based Off the General Sign Selection Table Below:

General Sign Selection Table

	Sign Area SQ FT	Sign Width FT.
Wood	up to 50	up to 8
Channel	up to 30	up to 8
PSST	up to 24	up to 6
Pipe	up to 30	up to 8
Structural	21 - 540	5 to 30

- Both Sign Area and Width Must Be Valid for Post Selection

Revised July 2005

Figure 8. MoDOT Sign Post Selection Guide cover page

Pipe Mounted Post Selector

2004-2005

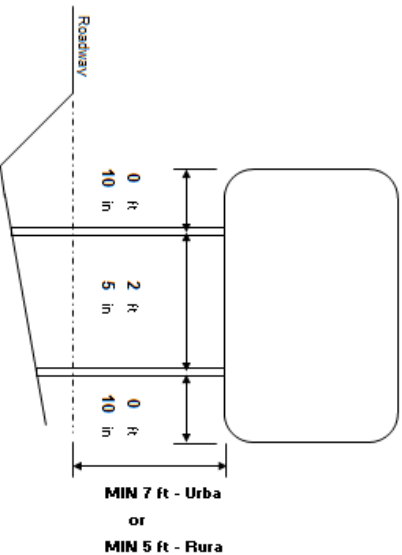
Sign: R2-1 Speed Limit

Instructions

- Fill in all shaded boxes.
- Press the Enter key after each selection.
- This worksheet automatically calculates post size for rectangular signs only.
- For Warning, Yield, and Stop signs use the Pipe Post Selection Table.

Sign Dimensions	width ft	4
	height ft	5

Number of Posts: **2**
 Post Size: **2.5** in
 Sign Size: **20** sqr.ft.
 Sign Type: **Flat Sheet**



Warning, Yield, and Stop Signs

Sign Size	Sign Type	Post Required
36" x 36"	Warning Signs ¹	1-2.5" Post
36" x 36"	Warning Signs ²	1-.3" Post
48" x 48"	Warning Signs ¹	1-.4" Post
48" x 48"	Yield Signs ⁴	1-.4" Post
60" x 60"	Yield Signs ⁴	1-.4" Post
36" x 36"	Stop Signs ¹	1-2.5" Post
36" x 36"	Stop Signs ²	1-.3" Post
48" x 48"	Stop Signs ^{1,4}	1-.4" Post

Pipe Post Notes

- Max sign width on one pipe post = 3' 6"
- Max sign width on two pipe posts = 6 ft
- Max sign sqft on pipe post = 30 sqft
- Pipe post size = inside pipe diameter
- For signs widths between sizes shown, go to next largest width (example: a sign that is 2-1/2 wide use the chart for a sign width that is 2-1/2 wide)

- 1 - without plaques
- 2 - with plaques
- 3 - with or without plaques
- 4 - with or without one-way signs mounted above

Figure 10. MODOT Signpost Selection Guide pipe mounted sign example

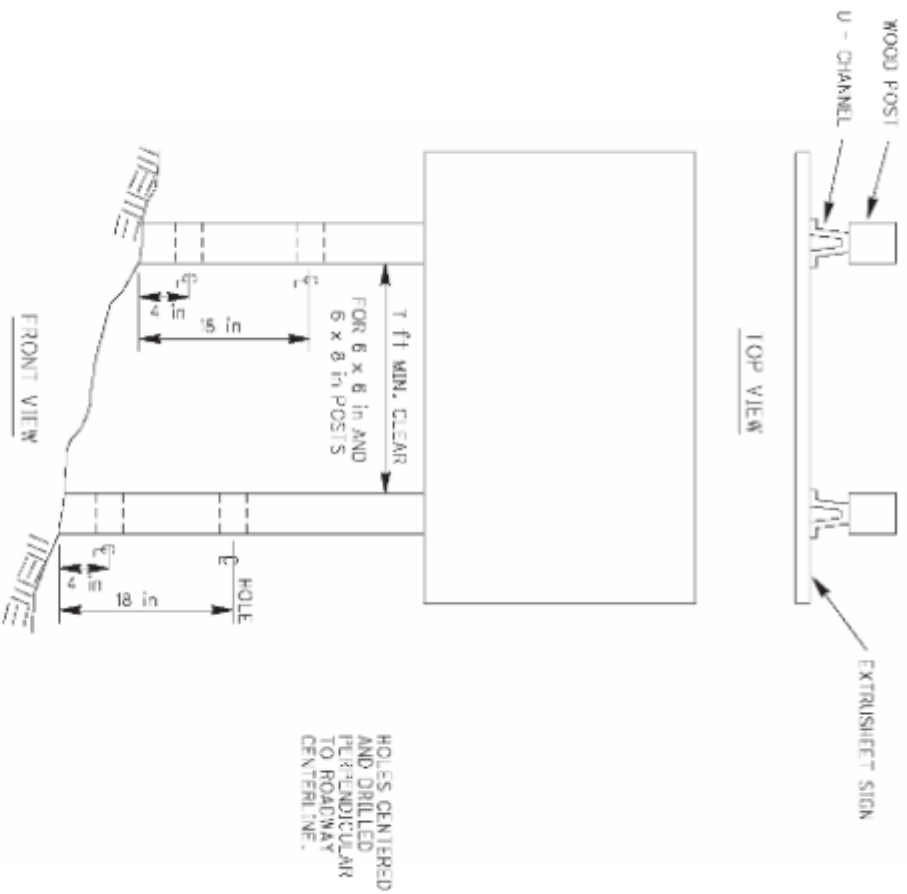
Ohio Department of Transportation (ODOT) and Turnpike:

According to a conversation with an Ohio Turnpike highway & traffic engineer, in regards to all signage, the Turnpike follows standards set forth by ODOT in their Traffic Engineering Manual (TEM). He went on to state, however, although allowed by the ODOT TEM (Section 221-5), the Turnpike does not use any wood sign posts, relying instead on steel drive posts and steel beams. Quill Mike and Bonnett Travis (Ohio Turnpike), (personal communication, October 9, 2014)

According to Jason Yeray, an engineer with ODOT, within the remainder of the state, "Districts commonly use wood posts (4x4, 4x6, 6x6, and 6x8) for larger Extrusheet signs due to ease of installations." He added that they also commonly use U-Channel Yielding posts, with some districts using only #3 due to extra durability in windier areas and long life expectancy. Quill Mike and Yeray Jason (ODOT), (personal communication March 2, 2015).

The ODOT TEM presents two useful figures regarding wood post selection and installation.

The first, shown in Figure 11, shows wood post installation details, including breakaway hole diameters based on post dimensions, embedment depths, and the wind pressure they use in calculations. According to Section 221-5 of the TEM, the wind pressures are based on a 60 mph sustained wind speed. Secondly, the ODOT design chart shown in Figure 12 shows post size selection for a two-post installation based on sign area and centroid height.



Recommended wind pressure to use in size calculations:

Wind pressure on sign = 15 lb/ft²

Wind Pressure on exposed post = 18 lb/ft²

Nominal Post Size (inches)	Hole Diameter (inches)	No. of Posts Permitted in 7' Path in Exposed Locations	Minimum Recommended Embedment Depth (feet)	Maximum Recommended Allowable Moment per Post (ft-lb)
4 x 4	None	2	3.5	1050
4 x 6	1 1/2	2	4	2540
6 x 6	2	1	4.5	3880
6 x 8	3	1	5	6580

Figure 11. ODOT wood post installation details

(Source: ODOT Traffic Engineering Manual, 2014)

Two Post Installations
(Nominal Post Size in inches (mm))

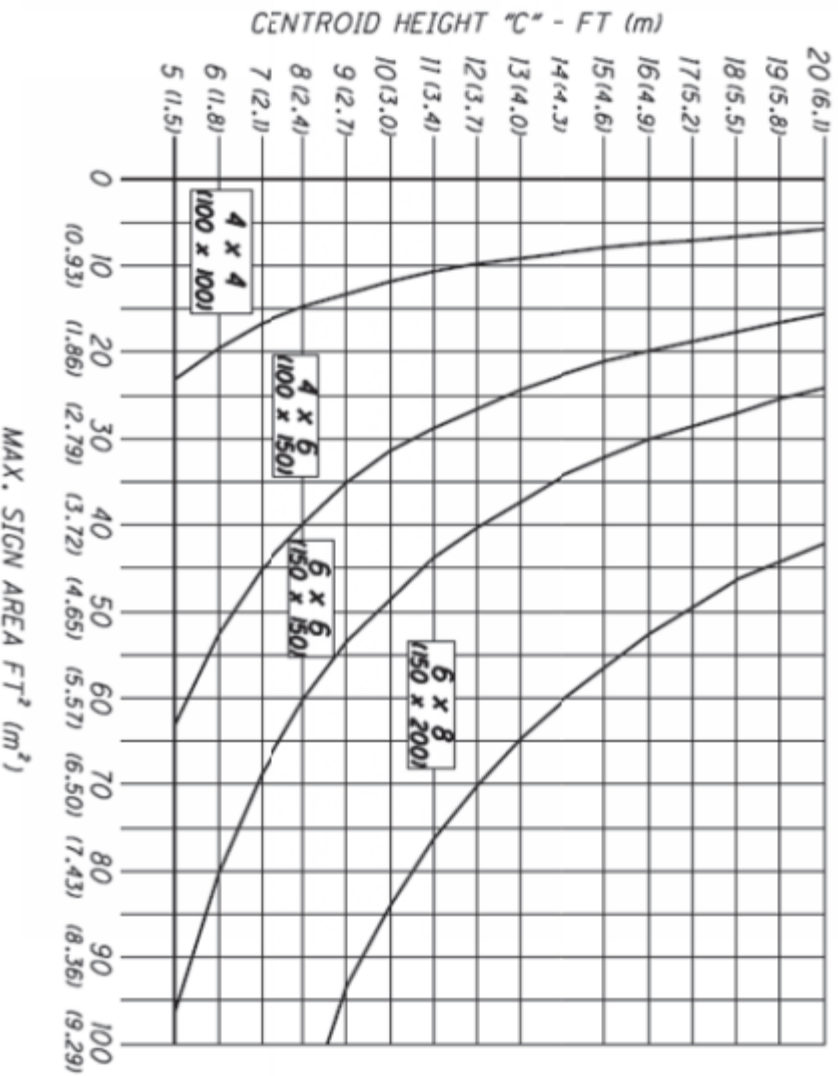


Figure 12. Solid wood post selection chart for two post installations
(Source: ODOT Traffic Engineering Manual, 2014)

New York Thruway and New York State DOT (NYSDOT)

According to a conversation with New York Thruway Traffic Engineer Robert Cournoyer, the Thruway has adopted all NYSDOT standards and specifications in regards to signage (the 645 series of NYSDOT standards sheets). Although standard Sheet 645-02 allows for wood posts on route marker assemblies (considered a "Type A" post), Mr. Cournoyer stated that the Thruway does not use wood sign posts anywhere along their routes.

Pennsylvania Turnpike and Pennsylvania DOT (PennDOT)

According to Tom Macchione of the Pennsylvania Turnpike Signing Department, the Turnpike follows PennDOT standards for signage as spelled out in PennDOT Pub 111 (Pavement Markings and Signing Standards, June 2013). In practice, the Turnpike typically uses steel sign posts for large guide signs, and wood posts for smaller signs such as speed limits, stop signs, etc. Since the PennDOT Standards require a galvanized mounting sleeve embedded in a concrete footing, Mr. Macchione stated that maintenance crews have found that wood post replacement into those sleeves is fairly simple and efficient. He went on to say that the Turnpike has found that the wood posts are more durable against snow removal loading than metal channel and square tube counterparts.

Sections TC-8702C and TC-8702E of Pub 111 detail PennDOT wood post selection and installation standards, and are based on the 2001 AASHTO Standards Specifications for Structural Supports, using a 90 mph design speed. Post selection tables for single and double posts are shown in Figure 13 and Figure 14, respectively. The sign width (W), height (H), and distance between top of the footing and bottom of the sign (L_B) are the variables. Importantly, as stated above, PennDOT and the Turnpike require galvanized sleeves embedded in concrete footings for all wood signs, an example of which is shown in Figure 15. Lastly, typical mounting for common sign sizes is shown in Figure 16.

DESIGN CRITERIA:

1. DESIGN BASED ON 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING 2002 INTERIM SPECIFICATIONS, WITH THE FOLLOWING DESIGN CRITERIA:
 - BASIC WIND SPEED (V) = 90 MPH (3-SECOND GUST)
 - WIND IMPORTANCE FACTOR (I_w) = 1.0 (10 YEAR DESIGN LIFE)
 - FATIGUE IS NOT CONSIDERED FOR ROADSIDE SIGNS.
2. EMBEDMENT OF FOOTINGS IS BASED ON FIGURES 13-3 AND 13-4 AS OUTLINED IN THE AASHTO SPECIFICATIONS.

W (FT)	L _B (FT)	POST SELECTION TABLE - ONE POST HEIGHT "H" (FT)							
		2	3	4	5	6	7	8	
2	6	P1	P1	P1	P1	P1	P2	P2	
	7	P1	P1	P1	P1	P1	P2	P3	
	8	P1	P1	P1	P1	P2	P2	P3	
	9	P1	P1	P1	P1	P2	P3	P3	
3	10	P1	P1	P1	P2	P3	P3	P3	
	11	P1	P1	P1	P2	P3	P3	P3	
	7	P1	P1	P1	P2	P3	P3	P3	
	8	P1	P1	P1	P2	P3	P3	P3	
4	9	P1	P1	P2	P3	P3	P3	-	
	10	P1	P2	P3	P3	P3	P3	-	
	11	P1	P2	P3	P3	P3	P3	-	
	11	P1	P3	P3	P3	P3	-	-	
5	6	P1	P1	P2	P3	P3	P3	-	
	7	P1	P1	P2	P3	P3	P3	-	
	8	P1	P2	P3	P3	P3	-	-	
	9	P1	P2	P3	P3	-	-	-	
6	10	P1	P3	P3	-	-	-	-	
	11	P3	-	-	-	-	-	-	
	6	P2	P3	P3	-	-	-	-	
	7	P2	P3	P3	-	-	-	-	
7	8	P2	P3	P3	-	-	-	-	
	9	P3	P3	-	-	-	-	-	
	10	P3	P3	-	-	-	-	-	
	11	P3	-	-	-	-	-	-	
8	6	P2	P3	P3	-	-	-	-	
	7	P3	P3	-	-	-	-	-	
	8	P3	P3	-	-	-	-	-	
	9	P3	-	-	-	-	-	-	
10	10	P3	-	-	-	-	-	-	
	11	P3	-	-	-	-	-	-	

LEGEND:

- P1 = 4"x6" POST
- P2 = 6"x6" POST
- P3 = 6"x8" POST
- * USE TWO POSTS (SEE SHEET 2)

POST SELECTION EXAMPLE

FOR A SIGN WHERE

- W = 2'-0"
- H = 2'-0"
- L_B = 11'-0"

ONE P1 = 4"x6" WOOD POST IS REQUIRED.

Figure 13. PennDOT single wood post size selection table
(PennDOT Pub 111, 2013)

POST SELECTION TABLE - TWO POSTS							POST SELECTION TABLE - TWO POSTS							POST SELECTION TABLE - TWO POSTS									
W (FT)	L B (FT)	HEIGHT "H" (FT)						W (FT)	L B (FT)	HEIGHT "H" (FT)						W (FT)	L B (FT)	HEIGHT "H" (FT)					
		2	3	4	5	6	2			3	4	5	6	2	3			4	5	6			
6	P1	P1	P1	P1	-	-	6	P1	P1	P2 * P3 * P3 *	P3 *	P3 *	P3 *	-	-	6	P1	P1	P3	P3	P3	-	-
7	P1	P1	P1	P1	-	-	7	P1	P2 * P3 * P3 *	P3 *	P3 *	P3 *	-	-	-	7	P2	P3	P3	P3	-	-	
8	P1	P1	P1	-	-	-	8	P1	P2 * P3 * P3 *	P3 *	P3 *	-	-	-	-	8	P2	P3	P3	P3	-	-	
9	P1	P1	-	-	-	-	9	P1	P3 * P3 * P3 *	P3 *	-	-	-	-	-	9	P2	P3	-	-	-	-	
10	P1	P1	-	-	-	-	10	P2 * P3 * P3 *	P3 *	-	-	-	-	-	-	10	P3	P3	-	-	-	-	
11	-	-	-	-	-	-	11	P2 * P3 * P3 *	-	-	-	-	-	-	-	11	P3	-	-	-	-	-	
12	P1	-	-	-	-	-	12	P3 * P3 *	-	-	-	-	-	-	-	12	P3	-	-	-	-	-	
13	-	-	-	-	-	-	13	P3 * P3 *	-	-	-	-	-	-	-	13	-	-	-	-	-	-	
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16	-	-	-	-	-	-	16	P3 *	-	-	-	-	-	-	-	16	-	-	-	-	-	-	
6	P1	P1	P1	-	-	-	6	P1	P2	P3	P3	P3	-	-	-	6	P2	P3	P3	-	-	-	
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6	P1	P1	P1	-	-	-	6	P1	P2	P3	P3	-	-	-	-	6	P2	P3	P3	-	-	-	
7	P1	P1	-	-	-	-	7	P1	P2	P3	P3	-	-	-	-	7	P2	P3	P3	-	-	-	
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12	-	-	-	-	-	-	12	P3	-	-	-	-	-	-	-	12	P3	-	-	-	-	-	
13	-	-	-	-	-	-	13	P3	-	-	-	-	-	-	-	13	-	-	-	-	-	-	
14	-	-	-	-	-	-	14	P3	-	-	-	-	-	-	-	14	P3	-	-	-	-	-	
15	-	-	-	-	-	-	15	P3 *	-	-	-	-	-	-	-	15	-	-	-	-	-	-	
16	-	-	-	-	-	-	16	P3 *	-	-	-	-	-	-	-	16	-	-	-	-	-	-	



* SEE NOTE 1.

LEGEND:
 P1 = 4"x6" POST
 P2 = 6"x6" POST
 P3 = 6"x8" POST

POST SELECTION EXAMPLE
 FOR A SIGN WHERE
 W = 6'-0"
 H = 2'-0"
 L_B = 13'-0"
 TWO P1 = 4"x6" WOOD POSTS ARE REQUIRED.

NOTES:
 1. POSTS IN THE SELECTION TABLE WITH AN "H" MUST HAVE A MINIMUM CLEAR SPACING OF 9'-0" BETWEEN POSTS. WIDTH INCREASING THE 3/5 "W" SPACING, THE REMAINING SIGN WIDTH SHOULD BE EQUALLY DISTRIBUTED TO THE OVERHANGS.
 2. SEE SHEET 1 FOR ADDITIONAL NOTES.
 3. SEE SHEET 4 FOR SECTIONS AND ERECTION DETAILS.

Figure 14. PennDOT double wood post size selection table
 (PennDOT Pub 111, 2013)

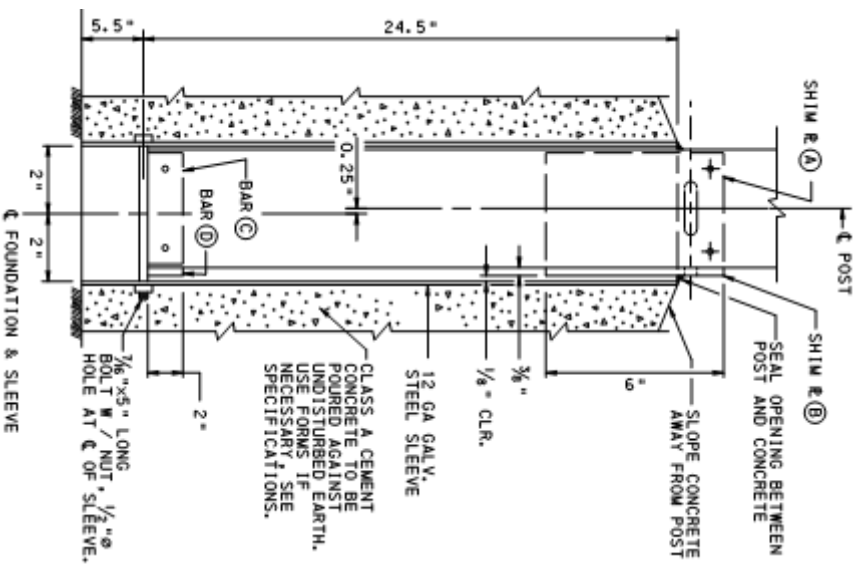


Figure 15. Example galvanized steel sleeve and concrete footing detail for wood posts (PennDOT Pub 111, 2013)

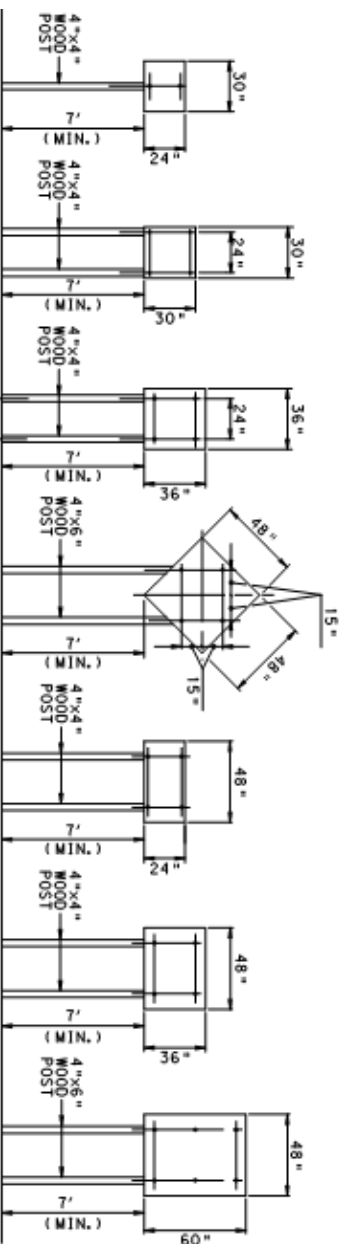


Figure 16. Typical wood sign post sizes for common sign types (PennDOT Pub 111, 2013)

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Illinois Tollway Wood Sign Post Requirements

Hanson Professional Services has researched eight departments of transportation in an effort to find standard criteria for wooden sign posts. Based on their investigation, there is no single standard followed by each agency or state department of transportation for wood post material, wood post size, or number of wood posts.

Since there is not a standard and the Tollway has not experienced an issue with existing signs falling due to wind, the Illinois Tollway has elected to use the AASHTO loading formula with a reduced wind speed of 50 MPH based on field observations. Below are the Wood Sign Post requirements calculated from that criteria.

The following exceptions apply:

- The reduced wind-speed should only be used for the signs listed in the table below.
- Signs greater than 4' wide must be mounted on two posts for stability.
- Signs less than 12' wide should be mounted on a maximum of two posts in order to maintain the breakaway feature.
- Only 4"x6" or 6"x6" posts shall be used, as 6"x8" posts require additional tethering.

Sign Example	Code	Sign Size		Current Tollway Standard Use	
		Dimensions (W x H) (Feet)	Area (ft ²)	4"x6" Douglas Fir No. 2 or Southern Pine No. 2	6"x6" Douglas Fir No. 2 or Southern Pine No. 2
Interstate Route Sign (1 or 2 digits)-Min size	M1-1	2x2	4	1	
Interstate Route Sign (1 or 2 digits)-Oversized	M1-1	3x3	9	1	
Merge	WA-1	4x4	16	1	
		4x5	20		1
Speed Limit	R2-1	5x4	20		1
		6x4	24		1
		7x4	28	2	
Exit gore (no exit number)	E5-1	6x5	30	2	
Combined speed limit	R2-4a	4x8	32		1
		8x5	40		2
3-Digit exit number		10x4	40		2
		7x6	42		2
2-Digit exit number (with single letter suffix)	E5-1a	9x5	45		2
		10x5	50		2
1-Digit exit number (with dual letter suffix)	E5-1a	9x6	54		2

Sources:

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (Sixth Edition 2013)
 Manual on Uniform Traffic Control Devices for Streets and Highways (Including Revision 1 dated May 2012 and Revision 2 dated May 2012, Edition 2009)

Assumptions:

- P_z (Wind Pressure (psf)) = $0.00256 \times K_z \times G \times V^2 \times I_s \times C_d$
- K_z (Height and Exposure Factor) = 1
- G (Gust Effect Factor) = 1.14
- V (Basic Wind Speed) = 50; 50MPH used based on field observations
- I_s (Wind Importance Factor) = 0.71
- C_d (Drag Coefficient) = 1.12
- Height of sign centroid = $7ft + H/2$ with H = sign height
- For Wood Dead Load (DL) calculations, assume 4 psf for Sign weight

Notes:

The results on this table are found based on the Group II load combinations
 Group II = DL + W
 Posts shall be made breakaway



14. Definitions

14 - Definitions, Acronyms and Abbreviations

14.1 - DEFINITIONS

This section contains definitions of frequently used terms as well as definitions with special or specific meanings as it applies to Tollway work. Whenever in this Manual the following proper nouns are used, their intent and meaning, both the singular and plural thereof, shall be as follows:

AASHTO. American Association of State Highway Transportation Officials.

AASHTO Roadside Design Guide. A guide that presents a synthesis of current information and operating practices related to roadside safety. It is developed and maintained by the AASHTO Subcommittee on Design, Technical Committee for Roadside Safety.

Advisory Speed. A recommended speed for all vehicles operating on a section of highway and based on the highway design, operating characteristics, and conditions.

Auxiliary Lane. An added lane for acceleration, deceleration, or weaving that is less than about 1 mile long and usually less than 1/2 mile long.

Barrier Warrant. A Barrier Warrant consists of criterion that identifies an area of concern which should be shielded by a traffic barrier, if judged to be practical. The warrant shall be based on Tollway/AASHTO Roadside Design Guide guideline.

Changeable Message Sign. A sign that is capable of displaying more than one message (one of which might be a “blank” display), changeable manually, by remote control, or by automatic control. Electronic-display changeable message signs are referred to as Dynamic Message Signs in the National Intelligent Transportation Systems (ITS) Architecture and are referred to as Variable Message Signs in the National Electrical Manufacturers Association (NEMA) standards publication.

Chief Engineer. The person designated by the Tollway for the position of Chief Engineer.

Clear Zone. The Clear Zone is defined by AASHTO Roadside Design Guide as “The unobstructed, transversable area provided beyond the edge of the through traveled way for the recovery of errant vehicles.” Refer to the Tollway Barrier Guidelines for detailed definition and application of the clear zone by the Tollway.

Community. Any municipality, or unincorporated County, within Illinois acting as a unit of local government.

Consulting Engineer. The Engineer or firm of Engineers retained by the Tollway for the purpose of carrying out the duties imposed on the Consulting Engineer pursuant to the terms and conditions of the contract between the Consulting Engineer and the Tollway and any trust indenture, and any additional requirements, entered into, by, or on behalf of the Tollway.

Contractor. The individual, partnership, firm or corporation, or any combination thereof, who has entered into a Tollway Contract.

Crashworthy. A characteristic of a roadside appurtenance that has been successfully crash tested in accordance with a national standard such as the National Cooperative Highway Research Program Report 350, "Recommended Procedures for the Safety Performance Evaluation of Highway Features."

Designer. The person (or consultant team) responsible for performing a design task for a Tollway project. Although this is typically the Design Section Engineer (DSE), it can also include a person (or consultant team) hired by a Contractor to perform design as part of a Value Engineering Proposal or part of a Performance Based Design. This document will use the term "Designer" which covers anyone performing design and will only use the term "DSE" when discussing tasks specific to the DSE.

Design Section Engineer (DSE). The Engineer or firm of Engineers and their duly authorized employees, agents and representatives retained by the Tollway to prepare the Contract Plans for a Design Section.

Downstream. A term that refers to a location that is encountered by traffic subsequent to an upstream location as it flows in an "upstream to downstream" direction. For example, "the downstream end of a lane line separating the turn lane from a through lane on the approach to an intersection" is the end of the lane line that is closest to the intersection.

Dropped Lane. A through lane that becomes a mandatory turn lane on a conventional roadway, or a through lane that becomes a mandatory exit lane on a freeway or expressway. The end of an acceleration lane and reductions in the number of through lanes that do not involve a mandatory turn or exit are not considered dropped lanes.

Edge of Pavement (EOP). The longitudinal joint between roadway pavement and shoulder pavement. Recently, the outside lane of roadway pavement has been built 13' wide, but was striped as a 12' (nominal) lane. For the purpose of barrier warrant calculations, if the outside lane is not built 1' wider, the edge of pavement is considered to be the same as the edge of traveled way.

Electronic Toll Collection (ETC). A system for automated collection of tolls from moving or stopped vehicles through wireless technologies such as radio-frequency communication or optical scanning. ETC systems are classified as one of the following: (1) systems that require users to have registered toll accounts, with the use of equipment inside or on the exterior of vehicles, such as a transponder or barcode decal, that communicates with or is detected by roadside or overhead receiving equipment, or with the use of license plate optical scanning, to automatically deduct the toll from the registered user account, or (2) systems that do not require users to have registered toll accounts because vehicle license plates are optically scanned. For type (2), drivers must take action to pay (e.g., pay online) or invoices for the toll amount are sent through postal mail to the address of the vehicle owner. The use of the color purple as a sign background is reserved for use with type (1) ETC system.

Engineering Judgment. The evaluation of available pertinent information, and the application of appropriate principles, provisions, and practices as contained in this Manual and other sources, for the purpose of deciding upon the applicability, design, operation, or installation of a traffic control device. Engineering judgment shall be exercised by an engineer, or by an individual working under the supervision of an engineer, through the application of procedures and criteria established by the engineer. Documentation of engineering judgment is not required.

Engineering Study. The comprehensive analysis and evaluation of available pertinent information, and the application of appropriate principles, provisions, and practices as contained in this Manual and other sources, for the purpose of deciding upon the applicability, design, operation, or installation of a traffic control device. An engineering study shall be performed by an engineer, or by an individual working under the supervision of an engineer, through the application of procedures and criteria established by the engineer. An engineering study shall be documented.

Expressway. A divided highway with partial control of access.

Freeway. A divided highway with full control of access.

Guideline. A Guideline is an official recommendation indicating how something should be done or what sort of action should be taken in a particular circumstance.

Guide Sign. A sign that shows route designations, destinations, directions, distances, services, points of interest, or other geographical, recreational, or cultural information.

Highway. A general term for denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

Illustration. Sheet showing layout individual signs prepared using GuideSIGN®, which include font, text sizes and pictographs or symbols used.

Interchange. A system of interconnecting roadways providing for traffic movement between two or more highways that do not intersect at grade.

Intermediate Interchange. An interchange with an urban or rural route that is not a major or minor interchange.

Major Interchange. An interchange with another freeway or expressway, or an interchange with a high-volume multi-lane highway, principal urban arterial, or major rural route where the interchanging traffic is heavy or includes many road users unfamiliar with the area.

Manual on Uniform Traffic Control Devices (MUTCD). FHWA National Manual on Uniform Traffic Control Devices For Streets and Highways and as amended by the State of Illinois Department of Transportation supplement to the MUTCD. Publication which defines the standards used by road managers nationwide to install and maintain traffic control devices on all public streets, highways, bikeways, and private roads open to public traffic. The *MUTCD* is published by the Federal Highway Administration (FHWA) under 23 Code of Federal Regulations (CFR), Part 655, Subpart F.

May. A permissive or provisional condition. No requirement for design or application is intended.

Minor Interchange. An interchange where traffic is local and very light, such as interchanges with land service access roads. Where the sum of the exit volumes is estimated to be lower than 100 vehicles per day in the design year, the interchange is classified as local.

Multi-Lane. More than one lane moving in the same direction. A multi-lane street, highway, or roadway has a basic cross-section comprised of two or more through lanes in one or both directions. A multi-lane approach has two or more lanes moving toward the intersection, including turning lanes.

Municipality. Any community, or the unincorporated County, within Illinois acting as a unit of local government.

Open-Road Tolling. A system designed to allow electronic toll collection (ETC) from vehicles traveling at normal highway speeds. Open-Road Tolling might be used on toll roads or toll facilities in conjunction with toll plazas. Open-Road Tolling is also typically used on managed lanes and on toll facilities that only accept payment by ETC.

Overhead Sign. A sign that is placed such that a portion or the entirety of the sign or its support is directly above the roadway or shoulder such that vehicles travel below it. Typical installations include signs placed on cantilever arms that extend over the roadway or shoulder, on sign support structures that span the entire width of the pavement, on mast arms or span wires that also support traffic control signals, and on highway bridges that cross over the roadway.

Physical Gore. A longitudinal point where a physical barrier or the lack of a paved surface inhibits road users from crossing from a ramp or channelized turn lane or channelized entering lane to the adjacent through lane(s) or vice versa.

Plaque. A traffic control device intended to communicate specific information to road users through a word, symbol, or arrow legend that is placed immediately adjacent to a sign to supplement the message on the sign. The difference between a plaque and a sign is that a plaque cannot be used alone.

Post-Mounted Sign. A sign that is placed to the side of the roadway such that no portion of the sign or its support is directly above the roadway or shoulder.

Project. The proposed development that is the subject of the Services stipulated in the Agreement. It may be comprised of one or more Design or Construction Sections.

Project Engineer. A member of the Design Section Engineer's staff responsible for the design of a singular discipline identified within the Contract Documents.

Project Manager (PM). The representative of the Chief Engineer assigned to be the primary technical and administrative liaison between the Tollway and its various Contractors, Construction Managers, Designers of Record, Program Manager, and Consulting Engineers.

Raised Pavement Marker. A device mounted on or in a road surface that has a height generally not exceeding approximately 1 inch above the road surface for a permanent marker, or not exceeding approximately 2 inches above the road surface for a temporary flexible marker, and that is intended to be used as a positioning guide and/or to supplement or substitute for pavement markings.

Regulatory Sign. A sign that gives notice to road users of traffic laws or regulations.

Retroreflectivity. A property of a surface that allows a large portion of the light coming from a point source to be returned directly back to a point near its origin.

Road User. A vehicle operator within the Tollway, other highway, or roads open to public travel.

Roadway. A Roadway consists of all lanes, auxiliary lanes and shoulders in one direction of travel.

Shall. A mandatory condition. Where certain requirements in the design or application of the device are described with the "shall" stipulation, it is mandatory when an installation is made that these requirements be met.

Should. An advisory condition. Where the word "should" is used, it is considered to be advisable usage, is subject to engineering study in most cases, and is recommended but not mandatory.

Sign. Any traffic control device that is intended to communicate specific information to road users through a word, symbol, and/or arrow legend. Signs do not include highway traffic signals, pavement markings, delineators, or channelization devices.

Sign Assembly. A group of signs, located on the same support(s) that supplement one another in conveying information to road users.

Sign Illumination. Either internal or external lighting that shows similar color by day or night. Street or highway lighting shall not be considered as meeting this definition.

Sign Legend. All word messages, logos, pictographs, and symbol and arrow designs that are intended to convey specific meanings. The border, if any, on a sign is not considered to be a part of the legend.

Sign Panel. A separate panel or piece of material containing a word, symbol, and/or arrow legend that is affixed to the face of a sign.

Signal Backplate. A thin strip of material that extends outward from and parallel to a signal face on all sides of a signal housing to provide a background for improved visibility of the signal indications.

Signing. Individual signs or a group of signs, not necessarily on the same support(s), that supplement one another in conveying information to road users.

Speed Limit. The maximum (or minimum) speed applicable to a section of highway as established by law or regulation.

Standard Drawings. The Tollway's standard details for items such as drainage appurtenances, signs, pavement, guardrail, etc., listed by the Design Section Engineer in the Index of Drawings in the Contract Plans and inserted into the Contract Plans by the Tollway prior to advertising.

Standard Specifications. The most recent edition of the Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction".

Supplemental Specifications. Revisions or additions to the Standard Specifications issued by the Illinois Department of Transportation.

Symbol. The approved design of a pictorial representation of a specific traffic control message for signs, pavement markings, traffic control signals, or other traffic control devices, as shown in the *MUTCD*.

Theoretical Gore. A longitudinal point at the upstream end of a neutral area at an exit ramp or channelized turn lane where the channelizing lines that separate the ramp or channelized turn lane from the adjacent through lane(s) begin to diverge, or a longitudinal point at the downstream end of a neutral area at an entrance ramp or channelized entering lane where the channelizing lines that separate the ramp or channelized entering lane from the adjacent through lane(s) intersect each other.

Tollway Supplemental Specifications. Revisions or additions to the Standard Specifications issued by the Tollway.

Toll Booth. A shelter where a toll attendant is stationed to collect tolls or issue toll tickets. A toll booth is located adjacent to a toll lane and is typically set on a toll island.

Toll Lane. An individual lane located within a toll plaza in which a toll payment is collected or, for toll-ticket systems, a toll ticket is issued.

Toll Plaza. The location at which tolls are collected consisting of a grouping of toll booths, toll islands, toll lanes, and, typically, a canopy. Toll plazas might be located on highway mainlines or on interchange ramps. A mainline toll plaza is sometimes referred to as a barrier toll plaza because it interrupts the traffic flow.

Traffic Control Devices. Traffic Control Devices are all signs, lights, signals, markings, channelizing devices and barriers placed on or adjacent to the roadway used to regulate, warn or guide motorists.

Upstream. A term that refers to a location that is encountered by traffic prior to a downstream location as it flows in an “upstream to downstream” direction. For example, “the upstream end of a lane line separating the turn lane from a through lane on the approach to an intersection” is the end of the line that is furthest from the intersection.

Utility. The privately, publicly or cooperatively owned lines, facilities and systems for transporting persons or property, for producing, transmitting or distributing communications, electric power, light, heat, gas, oil, crude products, water, steam, waste, sewerage, storm water not connected with highway drainage, and other similar commodities, including publicly owned fire and police signal systems and street lighting systems or any part thereof which directly or indirectly serve the public. The term “utility” shall also mean the utility company, inclusive of any wholly owned or controlled subsidiary.

Value Engineering. Method of evaluation done by the Contractor to provide a written proposal to the Tollway for modifying the Contract Documents to provide innovative, alternative, and/or lower cost construction without impairing the essential functions and characteristics of the facility including, but not limited to, service life, reliability, economy of operation, ease of maintenance, necessary standardized features, desired appearance, or IDOT and Tollway design standards. Refer to Supplemental Specifications Article 104.07 and Capital Program Procedure P5150.

Vehicle. Every device in, upon, or by which any person or property can be transported or drawn upon a highway, except trains and light rail transit operating in exclusive or semi-exclusive alignments. Light rail transit equipment operating in a mixed-use alignment, to which other traffic is not required to yield the right-of-way by law, is a vehicle.

Warning Sign. A sign that gives notice to road users of a situation that might not be readily apparent.

14.2 - ACRONYMS

The acronyms provided here are in addition to the abbreviations listed in the Definition of Terms:

AASHTO	American Association of State Highway and Transportation Officials
ANSI	American National Standards Institute
CMS	Changeable Message Sign
DSE	Design Section Engineer
ETC	Electronic Toll Collection
HMA	Hot Mix Asphalt
IDOT	Illinois Department of Transportation
IPO	I-PASS Only
ISTHA	Illinois State Toll Highway Authority, also Tollway, also Illinois Tollway
FHWA	Federal Highway Administration
LED	Light Emitting Diode
MPH or mph	Miles per Hour
<i>MUTCD</i>	Manual on Uniform Traffic Control Devices
ORT	Open Road Tolling
RPM	Raised Pavement Marker
RSPMG	Roadway Signing and Pavement Markings Guidelines
RV	Recreational Vehicle
Tollway	Illinois State Toll Highway Authority, also Illinois Tollway
USDOT	United States Department of Transportation
VPH or vph	Vehicles per Hour



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