ELECTRIC VEHICLE CHARGING STATION SITING REQUIREMENTS

To be eligible for a grant for the District Electric Vehicle (EV) Charging Station Program, an applicant must meet the following requirements:

1) **Location**: For private entities and nonprofit entities, the location of the proposed EV charging station must meet at least one of the following:
   - Any location within one-quarter mile of a roadway or intersection with a traffic count of 10,000 average daily trips or greater;
   - Employment centers with at least 50 employees;
   - Shopping centers;
   - Airports;
   - Multi-unit dwellings with at least 20 units;
   - Hotels with at least 20 rooms;
   - Universities or schools;
   - Medical facilities at least 10,000 square feet in size, or hospitals.

2) **Financial Commitment**: The applicant shall commit to maintaining and operating the charging station according to the manufacturer's recommendations for the entire grant term.

3) **Visibility and Accessibility**: The EV charging station must be easy to find from a major public roadway and be clearly identifiable, and accessible to the public 24 hours per pay, 7 days per week, unless there are unforeseen closures due to safety or security concerns or necessary maintenance.

4) **Power Supply**: The charging station shall be equipped with 240 volt power for Level 2 charging, or 480 volt power for Level 3 DC fast charging.

5) **ADA Access**: The charging station must comply with applicable local, state, and federal access requirements, including the Americans with Disabilities Act.

6) **Security**: The charging station must be visible to the public from a public roadway and must comply with local codes for lighting requirements.

7) **Signage**: The charging station must be equipped with signage identifying the space as an "Electric Vehicle Charging Station". If time limits or vehicle removal provisions are to be enforced, signage must be provided and must include parking restrictions. Signs must comply with applicable Federal Highway Administration's Manual on Uniform Traffic Control Devices (June 17, 2013 memo, *Regulatory Signs for Electric Vehicle Charging and Parking Facilities,* attached) and with the California Vehicle Code (Sections 22511 and 22511.1).

8) **Equipment Protection**: Charging station equipment shall be designed to protect the EV Station from physical damage. Measures may include curbs, wheel stops, setbacks, bumper guards, and bollards.

9) **Permits**. The applicant shall demonstrate to the District that the applicant can obtain all necessary land use permits and other entitlements from public regulatory agencies necessary to install and operate the EV Station.

ATTACHMENT:

Federal Highway Administration's Manual on Uniform Traffic Control Devices (June 17, 2013 memo, *Regulatory Signs for Electric Vehicle Charging and Parking Facilities*)

Memorandum

Subject:	**INFORMATION:** Regulatory Signs for Electric Vehicle Charging and Parking Facilities	Date:	JUN 17 2013
From:	Jeffrey A. Lindley Associate Administrator for Operations	In Reply Refer To:	HOTO-1
To:	Division Administrators Directors of Field Services Director of Technical Services Resource Center Director		

A number of agencies are installing electric vehicle charging facilities at on-street parking locations as electric vehicles become more prevalent in the vehicle fleet. Due to variations in local regulations, and the lack of standard signing for such a condition in the current *Manual on Uniform Traffic Control Devices for Streets and Highways* (MUTCD), there are extreme variations in the legends and formats of the official traffic signs being installed.

While signs with word legends not currently in the MUTCD are allowed to be developed by transportation agencies without the need for official experimentation under the MUTCD provisions, this Policy is intended to promote a level of uniformity among the regulatory signing for on-street electric vehicle charging and parking sites. The Federal Highway Administration intends to include standard regulatory signing for this purpose in the next Notice of Proposed Amendment to the MUTCD. Until such time as a proposal is published, the signs and optional plaques detailed in the attached are recommended for use at on-street electric vehicle charging and parking sites. The optional plaques address variations in local regulations where posting of those regulations is required.
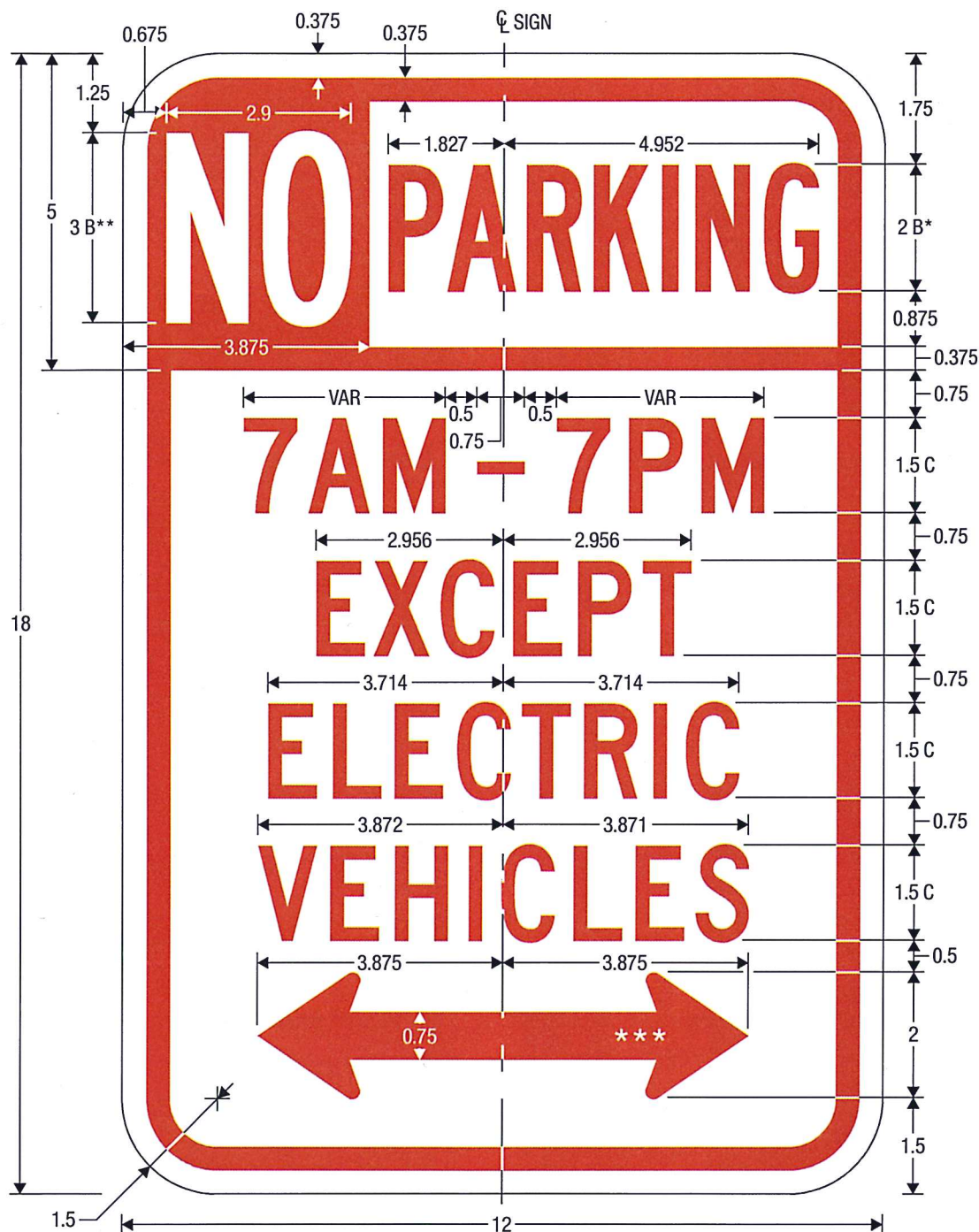
To date, no symbol has been developed that can effectively convey regulations associated with electric vehicle charging or parking facilities, including the Electric Vehicle Charging symbols specified for use on a General Service directional sign found in the MUTCD and the Interim Approval dated April 1, 2012. Symbols that have not been adopted in the MUTCD for use in a specific application cannot be used in untested applications without approved official experimentation that includes the requisite human factors evaluation for comprehension and legibility. Accordingly, regulatory signs for electric vehicles and vehicle charging facilities display only word legends to convey the specific requirements or restrictions.

Please share this information with State and local transportation agencies. For more information or questions regarding this matter, please contact Mr. Kevin Sylvester, Office of Transportation Operations, at Kevin.Sylvester@dot.gov.

Attachments

R7-111

NO PARKING EXCEPT ELECTRIC VEHICLES

★ Reduce character spacing 40%.

★★ Reduce character spacing 60%.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
　　　　　 BACKGROUND　　 — RED (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
　　　　　 BACKGROUND　　 — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
　　　　　 BACKGROUND　　 — WHITE (RETROREFLECTIVE)

R7-111a

NO PARKING EXCEPT ELECTRIC VEHICLES (PART-TIME)

★ Reduce character spacing 40%.

★★ Reduce character spacing 60%.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
BACKGROUND — RED (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
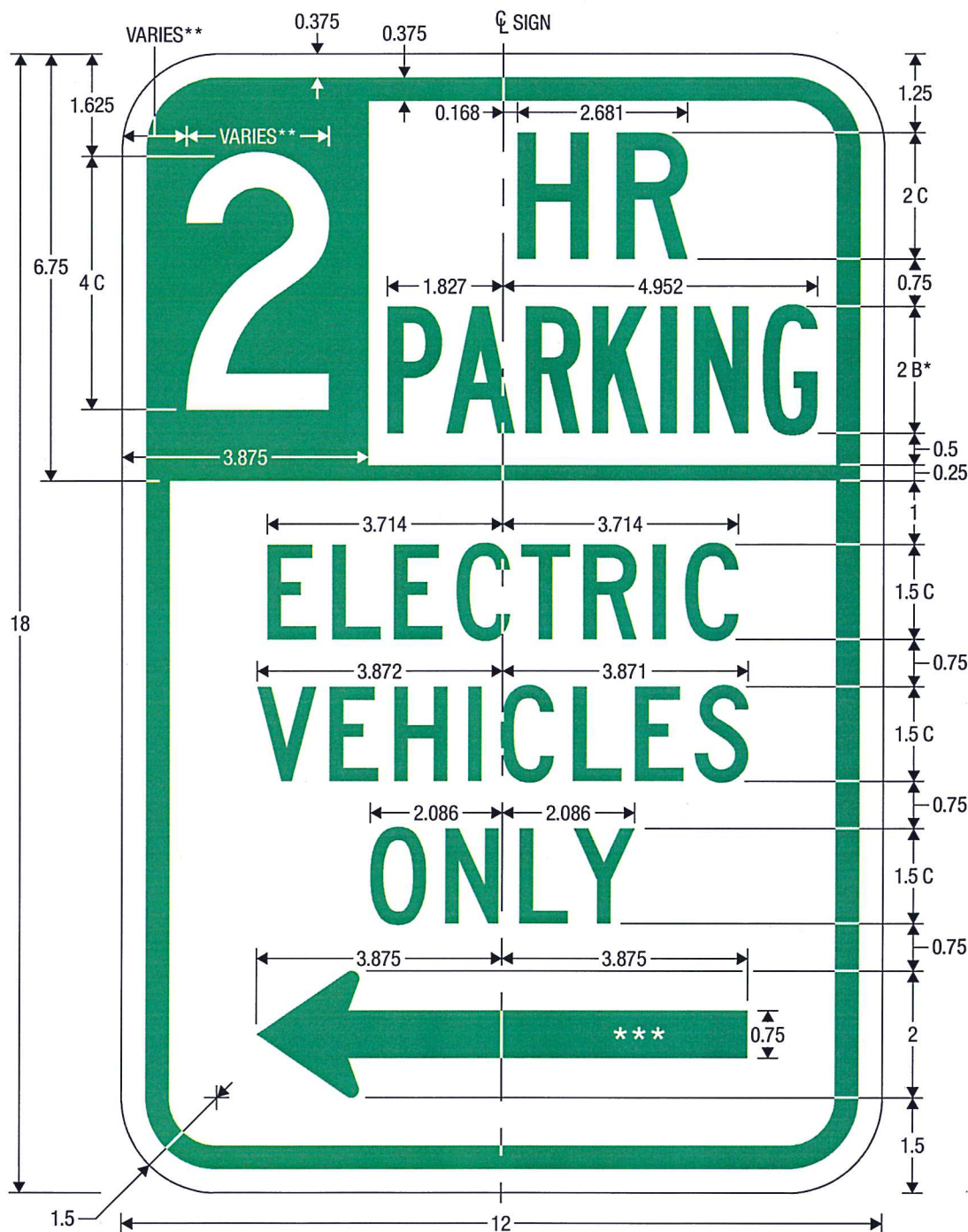BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

R7-112

ELECTRIC VEHICLE PARKING (TIME LIMIT)

★ Reduce character spacing 40%.

★★ Optically space numeral.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

2 HR PARKING
ELECTRIC VEHICLES ONLY
7AM – 8:30PM

R7-112a
ELECTRIC VEHICLE PARKING (TIME LIMIT, PART-TIME)

★ Reduce character spacing 40%.

★★ Optically space numeral.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
          BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
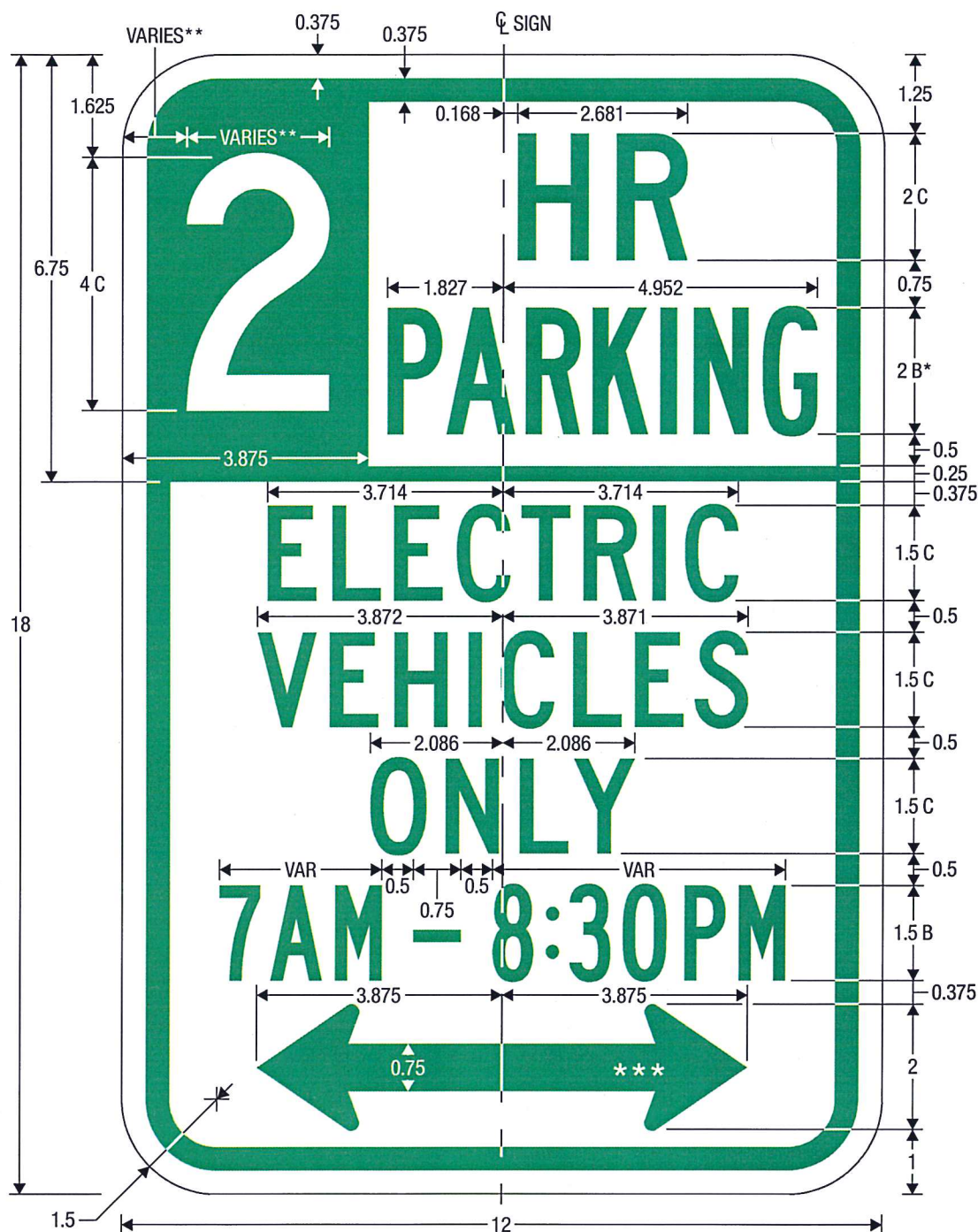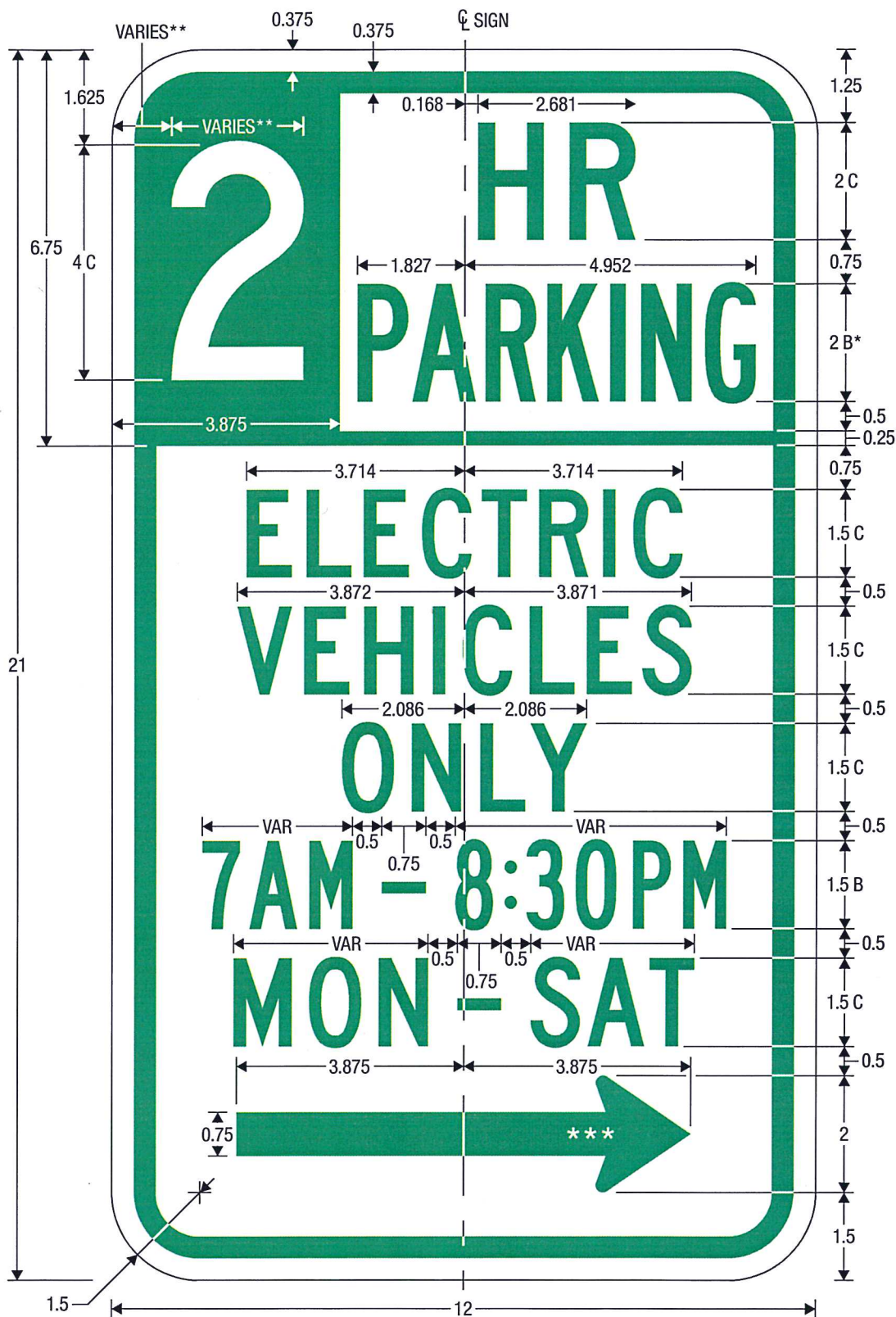   BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
          BACKGROUND — WHITE (RETROREFLECTIVE)

2 HR PARKING

ELECTRIC VEHICLES ONLY 7AM – 8:30PM MON – SAT

Dimensions shown:
- 0.375
- 0.375
- CL SIGN
- VARIES**
- 1.625
- VARIES**
- 0.168
- 2.681
- 1.25
- 6.75
- 4 C
- 2 C
- 1.827
- 4.952
- 0.75
- 2 B*
- 3.875
- 0.5
- 0.25
- 3.714
- 3.714
- 0.75
- 1.5 C
- 3.872
- 3.871
- 0.5
- 1.5 C
- 2.086
- 2.086
- 0.5
- 1.5 C
- VAR
- 0.5
- 0.5
- VAR
- 0.5
- 0.75
- 1.5 B
- VAR
- 0.5
- 0.5
- VAR
- 0.5
- 0.75
- 1.5 C
- 3.875
- 3.875
- 0.5
- 0.75
- ***
- 2
- 1.5
- 21
- 1.5
- 12

R7-112b

ELECTRIC VEHICLE PARKING (TIME LIMIT, PART-TIME)

★ Reduce character spacing 40%.

★★ Optically space numeral.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
        BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
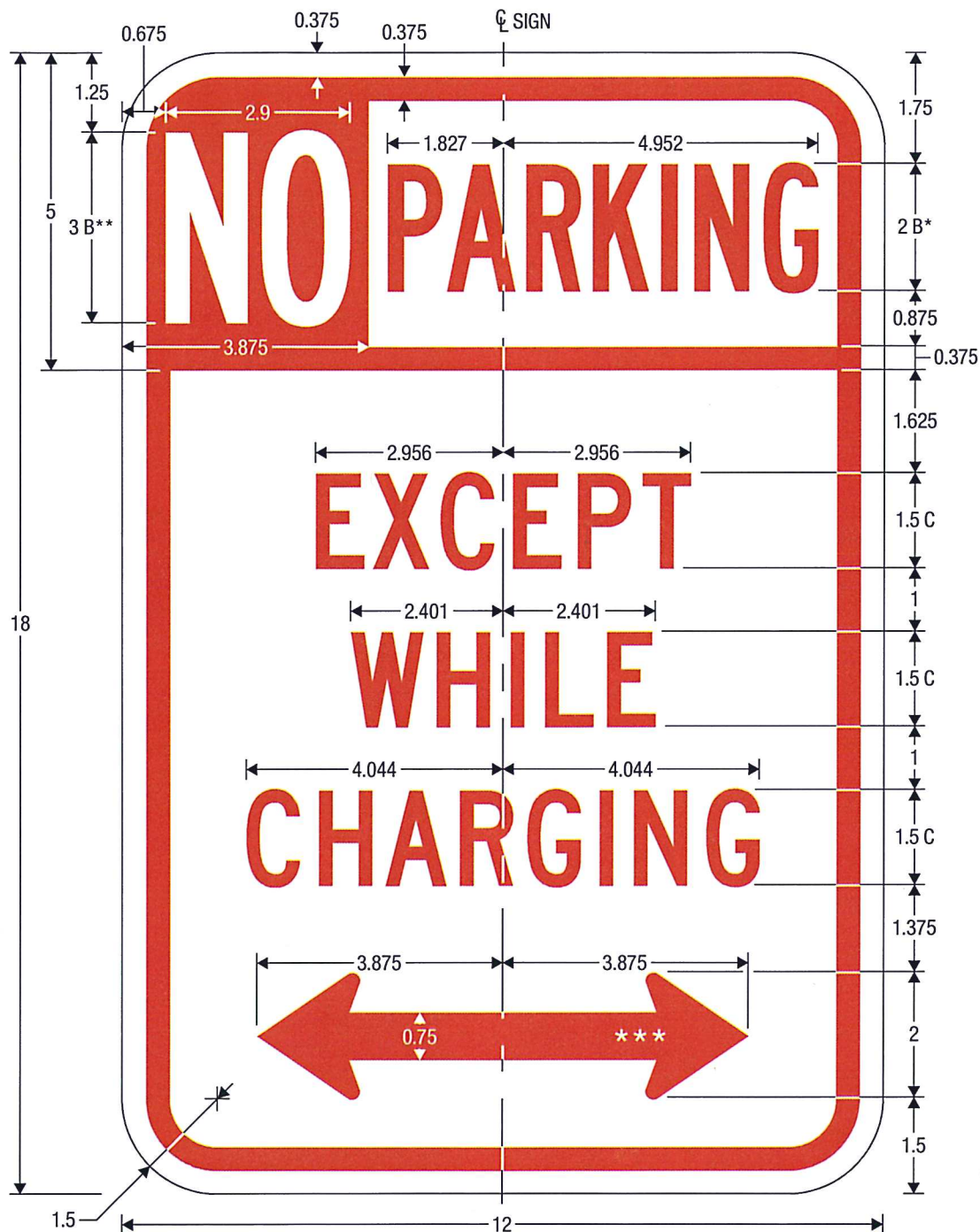   BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
        BACKGROUND — WHITE (RETROREFLECTIVE)

R7-113

NO PARKING EXCEPT WHILE CHARGING

⋆ Reduce character spacing 40%.

⋆⋆ Reduce character spacing 60%.

⋆⋆⋆ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
          BACKGROUND — RED (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
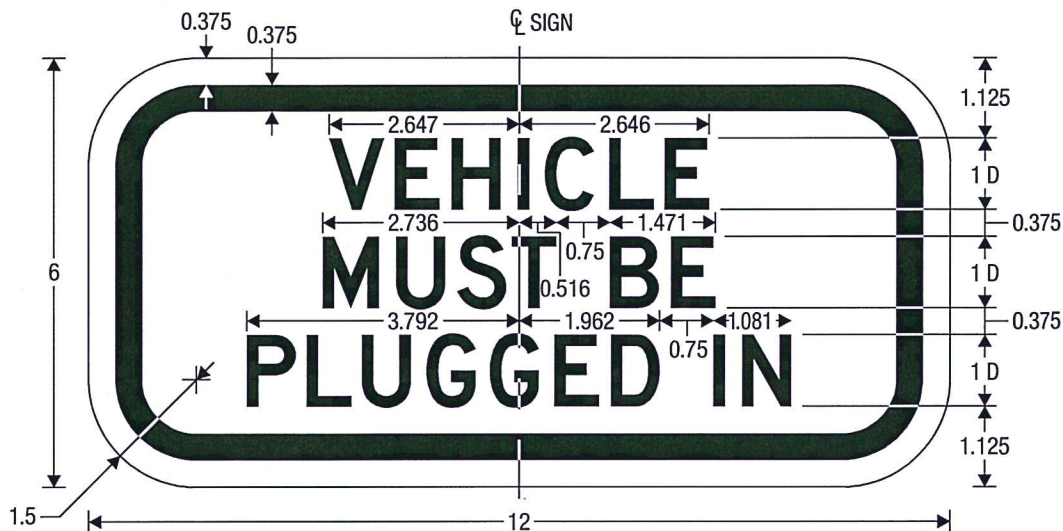   BACKGROUND — WHITE (RETROREFLECTIVE)

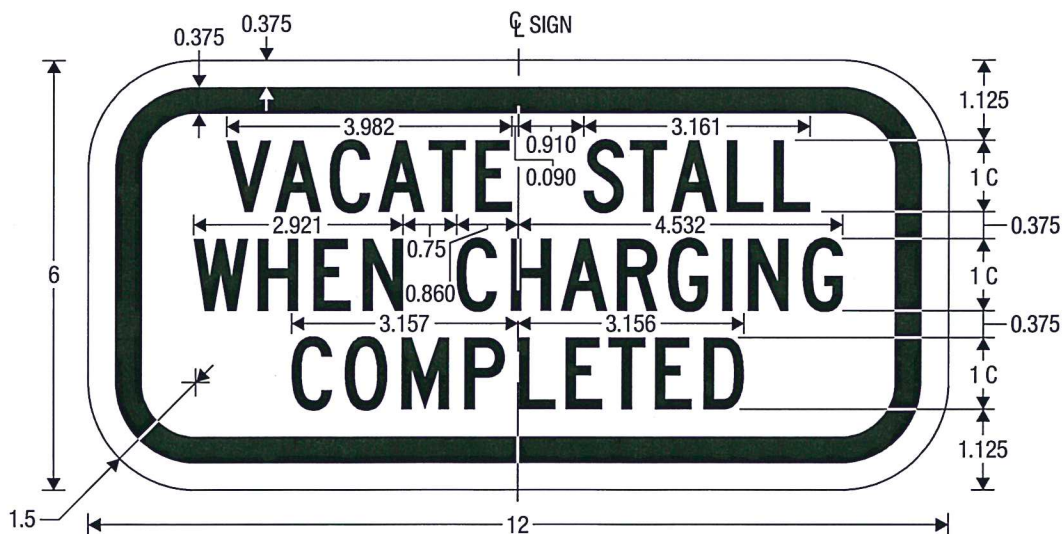**LOWER SECTION**
COLORS: LEGEND, BORDER — RED (RETROREFLECTIVE)
          BACKGROUND — WHITE (RETROREFLECTIVE)
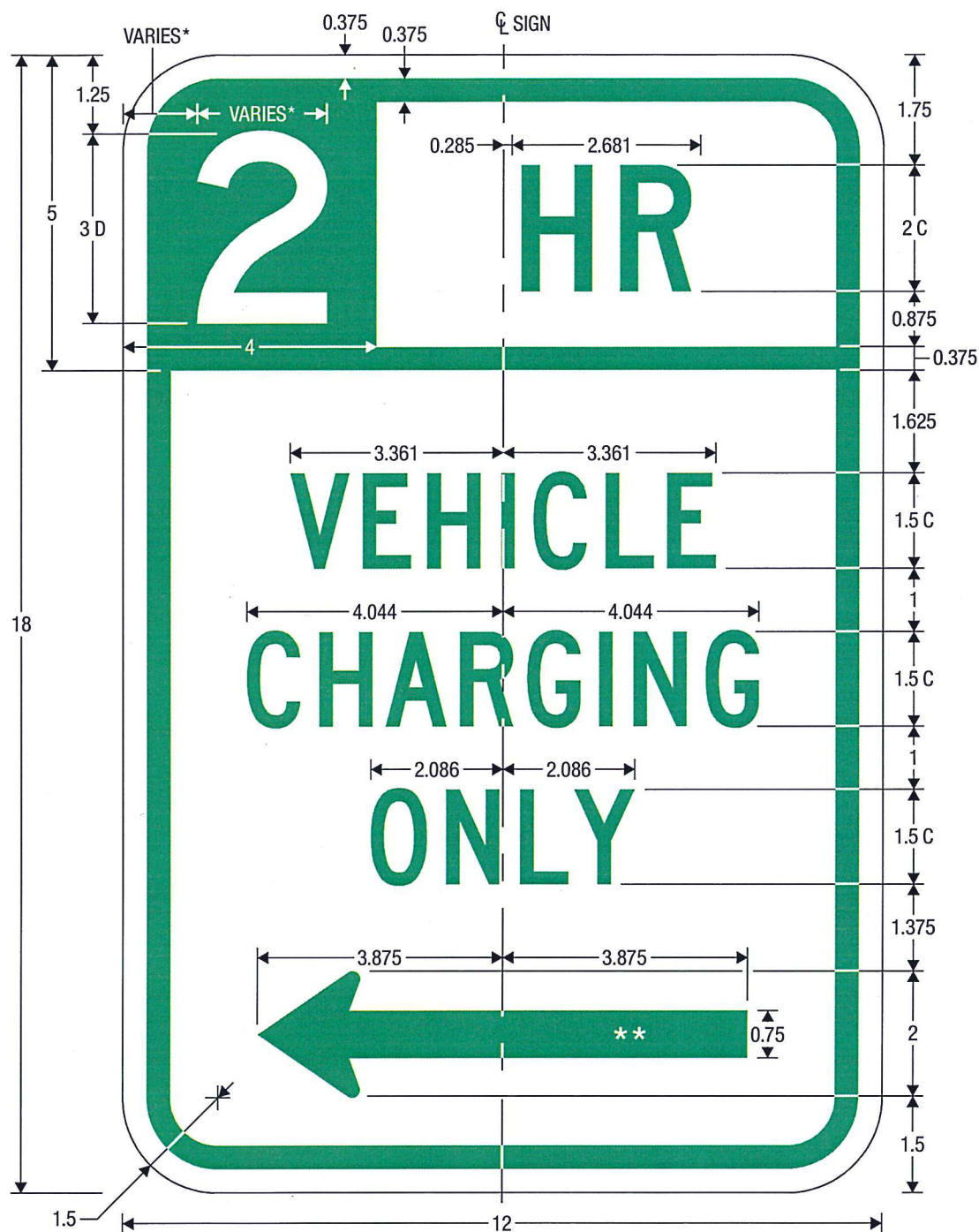
R7-113aP

VEHICLE MUST BE PLUGGED IN (Plaque)

R7-113bP

VACATE STALL WHEN CHARGING COMPLETED (Plaque)

COLORS: LEGEND, BORDER — BLACK (RETROREFLECTIVE)
BACKGROUND   — WHITE (RETROREFLECTIVE)

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R7-114

VEHICLE CHARGING ONLY (TIME LIMIT)

The sign shows:

2 HR
VEHICLE
CHARGING
ONLY

Dimensions shown: VARIES*, 0.375, 0.375, CL SIGN, 1.25, VARIES*, 0.285, 2.681, 1.75, 5, 3 D, 2 C, 0.875, 0.375, 4, 1.625, 3.361, 3.361, 1.5 C, 4.044, 4.044, 1, 1.5 C, 2.086, 2.086, 1, 1.5 C, 3.875, 3.875, 1.375, 18, 0.75, 2, **, 1.5, 1.5, 12

★ Optically space numeral.

★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

R7-114a

VEHICLE CHARGING ONLY (TIME LIMIT, PART-TIME)

* Reduce character spacing 50%.

** Optically space numerals.

*** Type D Arrow.
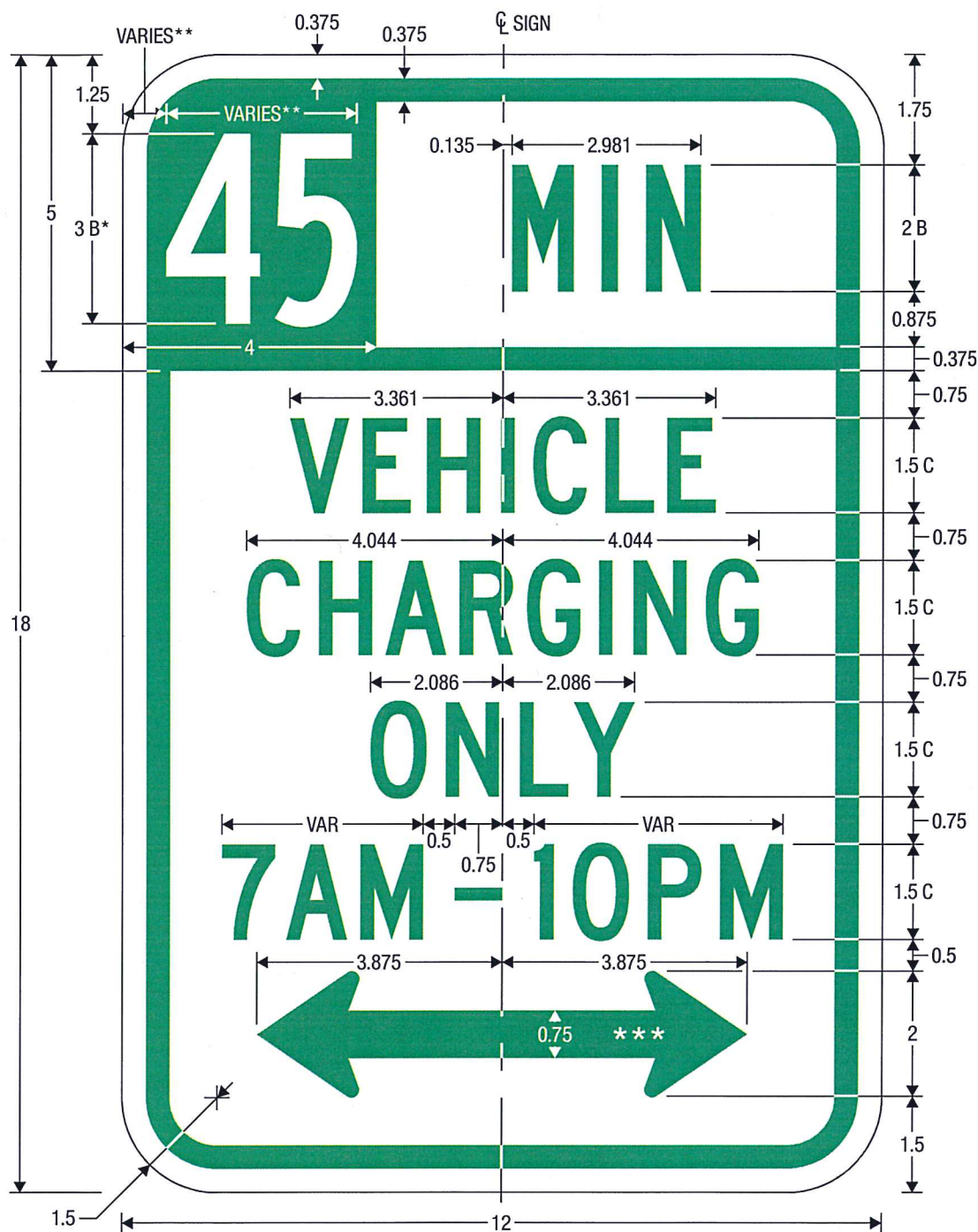
UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
              BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
              BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
              BACKGROUND — WHITE (RETROREFLECTIVE)

45 MIN

VEHICLE

CHARGING

ONLY

7AM – 10PM

MON – FRI

***

R7-114b

VEHICLE CHARGING ONLY (TIME LIMIT, PART-TIME)

★ Reduce character spacing 50%.

★★ Optically space numerals.

★★★ Type D Arrow.

UPPER LEFT SECTION
COLORS: LEGEND, BORDER — WHITE (RETROREFLECTIVE)
BACKGROUND — GREEN (RETROREFLECTIVE)

UPPER RIGHT SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

LOWER SECTION
COLORS: LEGEND, BORDER — GREEN (RETROREFLECTIVE)
BACKGROUND — WHITE (RETROREFLECTIVE)

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