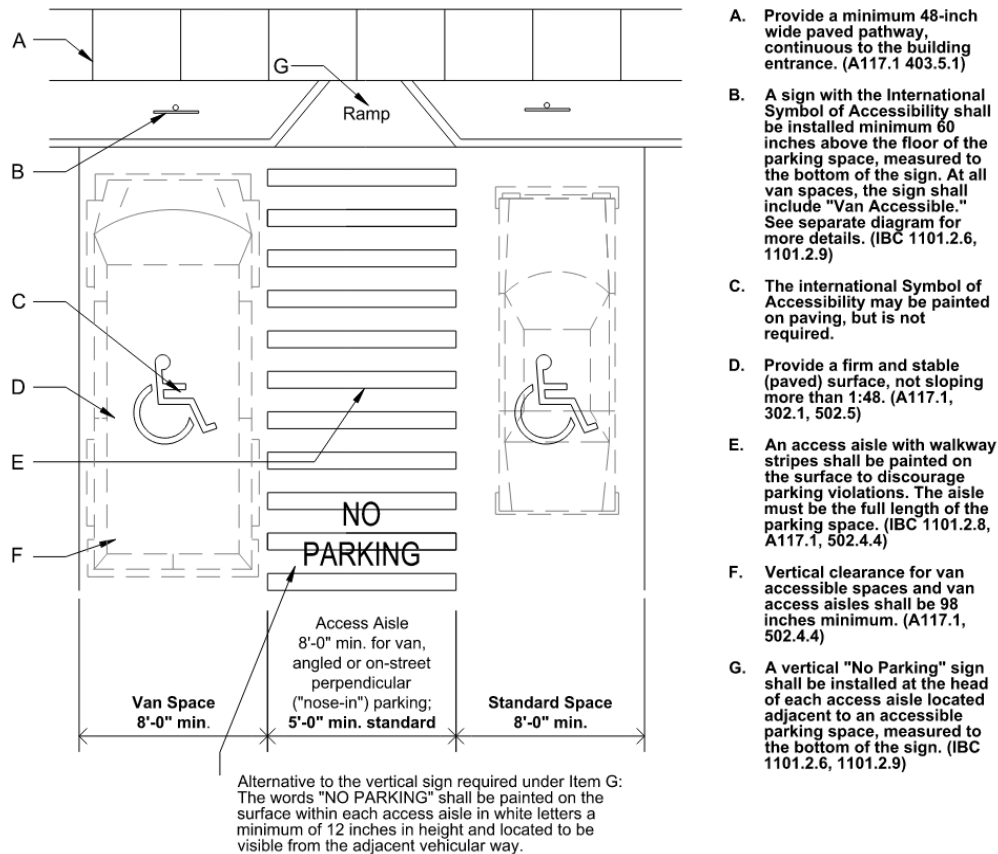


Accessible Parking (including Electric Vehicle Charging Stations)

This tip sheet illustrates the technical installation requirements of the 2021 International Building Code (IBC) and ICC A117.1-2017 with Washington State Amendments.



- A. Provide a minimum 48-inch wide paved pathway, continuous to the building entrance. (A117.1 403.5.1)
- B. A sign with the International Symbol of Accessibility shall be installed minimum 60 inches above the floor of the parking space, measured to the bottom of the sign. At all van spaces, the sign shall include "Van Accessible." See separate diagram for more details. (IBC 1101.2.6, 1101.2.9)
- C. The international Symbol of Accessibility may be painted on paving, but is not required.
- D. Provide a firm and stable (paved) surface, not sloping more than 1:48. (A117.1, 302.1, 502.5)
- E. An access aisle with walkway stripes shall be painted on the surface to discourage parking violations. The aisle must be the full length of the parking space. (IBC 1101.2.8, A117.1, 502.4.4)
- F. Vertical clearance for van accessible spaces and van access aisles shall be 98 inches minimum. (A117.1, 502.4.4)
- G. A vertical "No Parking" sign shall be installed at the head of each access aisle located adjacent to an accessible parking space, measured to the bottom of the sign. (IBC 1101.2.6, 1101.2.9)

Dimensions (Minimums)

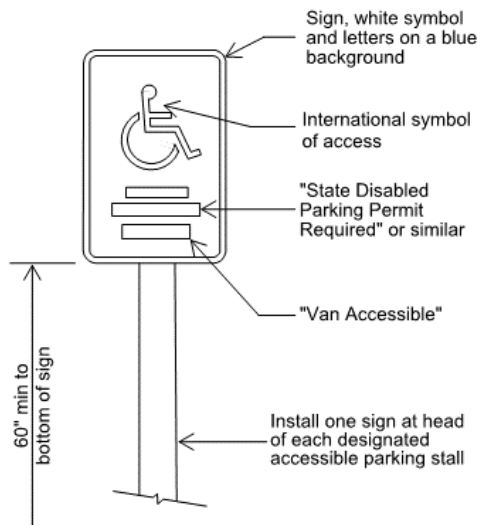
- ☐ Standard Space: 8 feet (96 inches) wide.
- ☐ Van Space: 8 feet (96 inches) wide, and vertical clearance of 8 feet 2 inches (98 inches).
- ☐ Length: No minimum length required/defined in the code.
- ☐ Access Aisles:
 - Must be the full length of the parking space.
 - Standard: 5 feet (60 inches) wide.
 - Van: 8 feet (96 inches) wide, and vertical clearance of 8 feet 2 inches (98 inches).
 - Angled Parking: 8 feet (96 inches) wide.
 - On-street Perpendicular ("nose-in"): 8 feet (96 inches) wide.
- ☐ Accessible route from the access aisle, continuous to the building entrance: 48 inches wide.

See IBC Sections 1101.2 and A117.1 403.5.1 and 502.4.4 for more information.

General Information

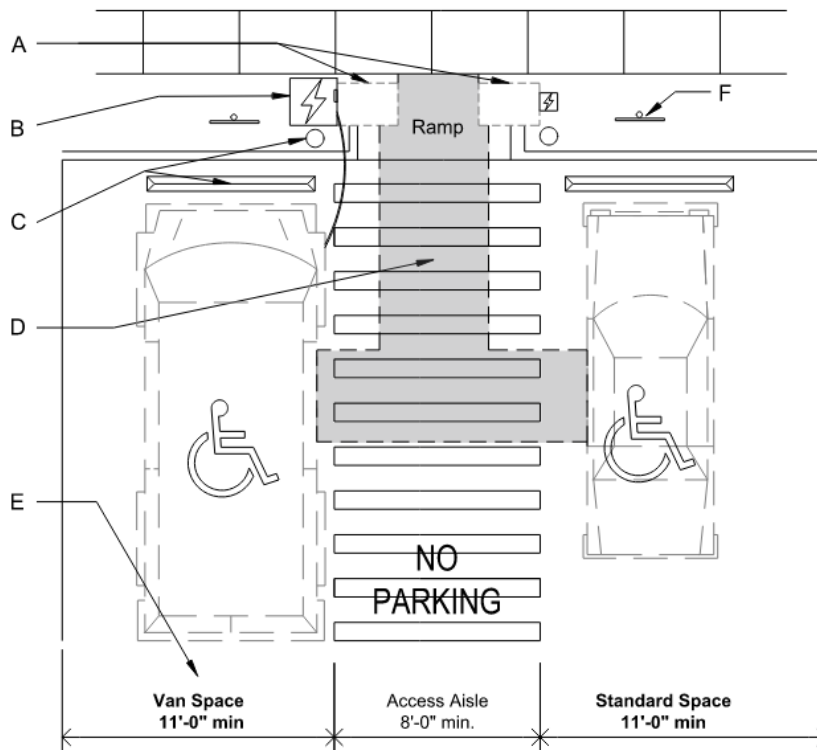
- ☐ See IBC Section 1106 for the number of spaces required and their location.
- ☐ See IBC Section 1106.8 and A117.1 Section 502.10 for parking meters and pay stations.
- ☐ See A117.1 Section 507.4 for accessible routes through parking.

Identification/Sign Details



- ☐ A vertical sign is required for every accessible parking space and must include the International Symbol of Accessibility complying with A117.1 Section 703.6.3.1. The symbol must be white on a blue background per IBC 1101.2.9.
- ☐ The sign may include additional language such as, but not limited to, an indication of the amount of the monetary penalty defined in RCW 46.19.050 for parking in the space without a valid permit. (IBC 1101.2.9)
- ☐ A vertical "No Parking" sign shall be erected at the head of each access aisle located adjacent to an accessible parking space. The sign may include additional language such as, but not limited to, an indication of any penalty for parking in an access aisle. (IBC 1101.2.9)
- ☐ If installing a "No Parking" sign at the head of the access aisle would obstruct the access aisle or accessible route, it is acceptable to paint "No Parking" on the pavement of the access aisle instead. Please discuss this with your local jurisdiction.
- ☐ Signs identifying spaces and access aisles shall be 60 inches minimum above the floor of the parking space, measured to the bottom of the sign. (IBC 1101.2.9)

Electric Vehicle (EV) Charging Stations Serving Accessible Parking Spaces



- A. Clear floor space required in front of charger and card reader, minimum 30 by 52 inches. (A117.1 502.11.2)
- B. EV Charging equipment must meet the requirements for operable parts, reach ranges, etc. See A117.1 Sections 308 and 309.
- C. Protection bollards, curbs or wheel stops shall be located so that they do not obstruct the clear floor space or accessible route. (A117.1 502.11.3)
- D. An accessible route shall be provided from the access aisle to the clear floor space adjacent to the EV Charging Station. When the vehicle is being charged, the accessible route shall not be obstructed by the cable between the car and charging station. (A117.1 502.11.2)
- E. Any accessible parking space equipped as an EV Ready or EV Charging Station must comply with the size requirements for van spaces, and be at least 11 feet wide. (IBC 1107.2.2)
- F. No signs specific to EV charging are required.
- G. Minimum 40-ampere dedicated 208/240-volt branch circuit shall be installed for each EV Ready parking space and each EV Charging Station. The branch circuits shall terminate at a receptacle outlet or EV charger in close proximity to the space being served. (IBC 426.2.1)
- H. A space with an EV charger also meets the requirement for EV Ready.

General Information

- ☐ When accessible parking is required to be equipped with EV Charging Stations or be EV Ready, those parking spaces must meet all of the same requirements for accessible parking, plus these additional requirements, listed below.
- ☐ "EV Charging Station" means a parking space installed with a charger.
- ☐ "EV Ready" means a parking space with a receptacle outlet capable of charging electric vehicles.
- ☐ NOTE: An EV Charging Station also meets the requirement for EV Ready, so when only one accessible parking space is required/provided, a charger will satisfy both types of EV space required by IBC 429.4.
- ☐ Not fewer than one for each type of EV charging system shall be accessible. (IBC 429.4)
- ☐ EV charging infrastructure may also serve adjacent parking spaces not designated as accessible parking. (IBC 429.4)

- ☐ Any accessible parking space equipped as an EV Charging Station or EV Ready must comply with the size requirements for van spaces, **and be at least 11 feet wide**, per IBC 1107.2.2. Since EVs do not have a uniform vehicle charging inlet location, a larger vehicle charging space is needed to maneuver around all sides of the electric vehicle.
- ☐ **Vehicle Space Dimensions (Minimums):**
 - Width: 11 feet (132 inches).
 - Length: No minimum length required/defined in the code.
 - Vertical Clearance: 8 feet 2 inches (98 inches).
 - Access Aisle: 8 feet wide (96 inches), extending the full-length of the parking space, and with a vertical clearance of 8 feet 2 inches (98 inches).
- ☐ Must comply with the provisions for operable parts, accessible routes, obstructions and clear floor space per A117.1 Section 502.11:
 - Clear floor space required in front of charger and card reader, minimum 30 by 52 inches.
 - An accessible route shall be provided from the access aisle to the clear floor space adjacent to the EV Charging Station. When the vehicle is being charged, the accessible route shall not be obstructed by the cable between the car and charging station.
 - Bollards, curbs or wheel stops shall be located so that they do not obstruct the required clear floor space or accessible route.
 - See A117.1 Sections 308 and 309 for operable parts, reach ranges, etc.
- ☐ **Signs:** Must meet all of the same requirements for accessible parking spaces and access aisles (see above). No additional signs, specific to EV charging, are required.
- ☐ **Location:** Any of the required accessible spaces can be used to meet the EV Charging Station and EV Ready requirements, there are no specific requirements for location, or which spaces must have this infrastructure installed.
- ☐ **Electrical Requirements:** Minimum 40-ampere dedicated 208/240-volt branch circuit shall be installed for each EV Ready parking space and each EV Charging Station. The branch circuits shall terminate at a receptacle outlet or EV charger in close proximity to the space being served. (IBC 429.2.1)
- ☐ See IBC Section 429 for all EV Charging requirements, including the electrical service, room and other equipment, and general EV Charging requirements not related to Accessible Parking (such as EV Capable parking spaces).
- ☐ See IBC Sections 429 and 1107 for the number of spaces required and their location.
- ☐ See IBC Section 1106.8 and A117.1 Section 502.10 for parking meters and pay stations.
- ☐ See A117.1 Section 507.4 for accessible routes through parking.