

## City of Madison Bike Rack Requirements

### 1) Bicycle Parking Space Size, Access Aisles, and Vertical Clearance

- Bicycle parking spaces shall be a minimum of two (2) feet by six (6) feet.
- There shall be an access aisle a minimum of five (5) feet in width.
- Have a vertical clearance of at least 6 feet.



### 2) Bicycle Rack Design

- Shall permit the locking of the bicycle frame and one (1) wheel to the rack
- Shall support a bicycle in a stable position.
- All racks shall accommodate cable locks and “U” locks including removing the front wheel and locking it to the rear fork and frame.
- Each required bicycle parking space must be accessible without moving another bicycle
- Placement shall not result in a bicycle obstructing a required walkway.
- Shall be located on paved or pervious, dust-free surface with a slope no greater than three percent (3%).
- Surfaces shall not be gravel, landscape stone, or wood chips.






### 3) Bicycle Rack Location on Site

- Required short-term bicycle parking spaces shall be located in a convenient and visible area at least as close as the closest non-accessible automobile parking and within one hundred (100) feet of a principal entrance
- Required long-term bicycle parking spaces shall be located in enclosed and secured or supervised areas providing protection from theft, vandalism and weather and shall be accessible to intended users
- Required long-term bicycle parking for residential uses shall not be located within dwelling units or within deck, patio areas, or private storage areas accessory to dwelling units.

### Examples of Bicycle racks that do not meet the design requirements above:

			
Grid or Fence Style Racks	Wave or Ribbon Style Racks	Racks that hold the bike by the wheel with no way to lock the frame and wheel to the rack with a U-lock	

### Examples of Bicycle racks that do meet the design requirements above:

				
Dero Campus Rack	Saris City Rack	Madrax Spartan Rack	Madrax Sentry Rack	Madrax Shark Rack

### Examples of Inverted-U and Post & Ring Type Racks

*See attached sheets for proper installation instructions for Inverted-U and Post & Ring type racks*



**If you have questions about whether a particular bicycle parking rack you are considering using meets these requirements, please contact Arthur Ross, Pedestrian-Bicycle Coordinator, 608/266-6225**

# Inverted-U, Post & Ring Other Similar Bicycle Parking Racks Installation instructions

Inverted-U, Post & Ring, and other similar type racks for use in the City of Madison need to be installed per the following instructions.

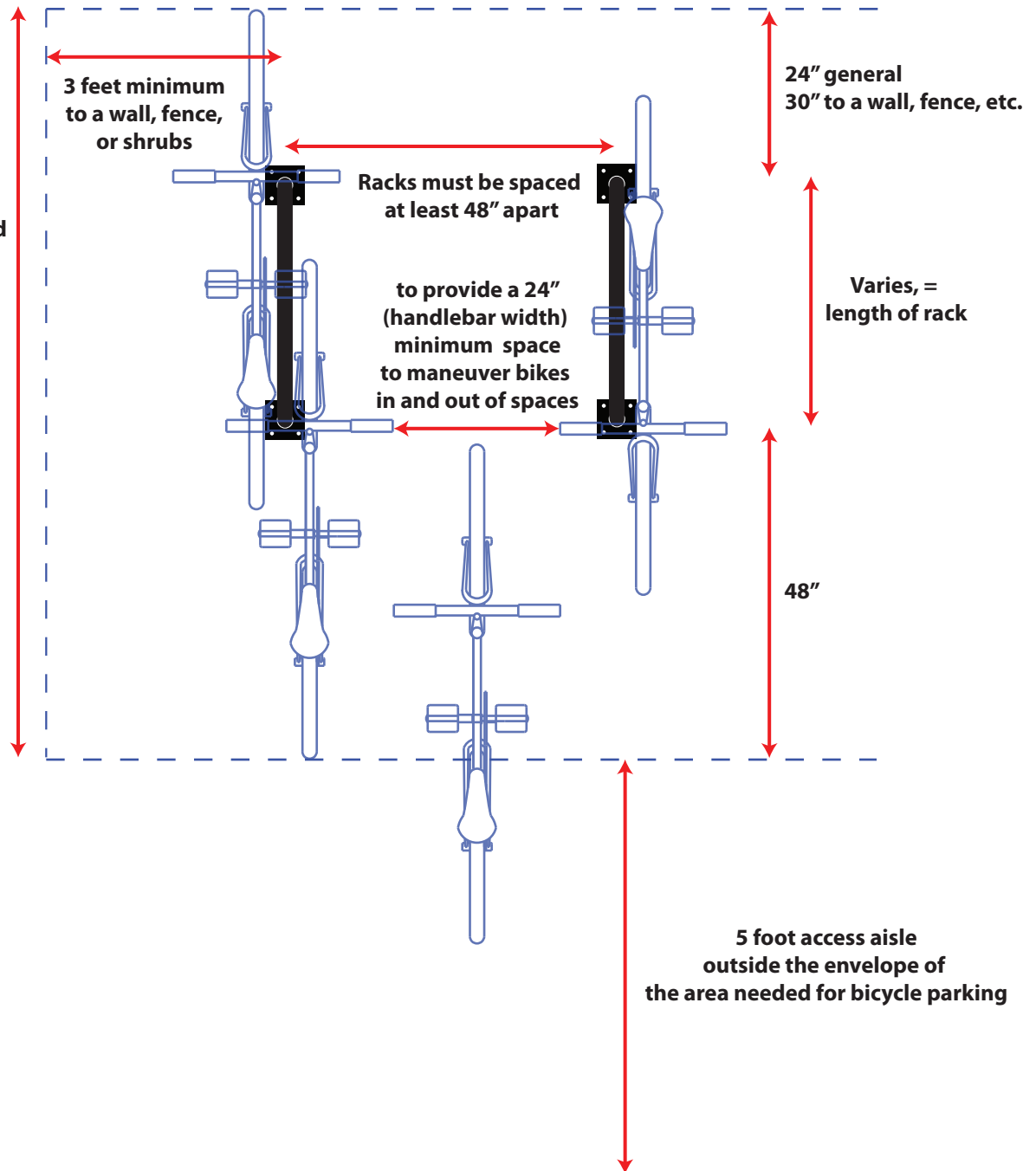
## A) Horizontal Spacing (width) and Space Length (or depth) for a Single Row of Racks

Overall width needed is 2 feet per bicycle, same as for any well designed rack.

In the example below, for 4 bikes the minimum width needed is 96", the same as for a rack with 4 individual spaces. There is no space savings with this rack design since you still need room to get bikes in and out without handlebar interference.

The space length, or depth, when using inverted-U type racks will be longer than for other types of racks due to the variety of ways people may use these racks. Instead of 6 ft. you will need between 90" and 108" (7.5 - 9 ft.).

The diagram below explains both the width and length/depth requirements if you decide to use inverted-U type racks.



Overall depth of space when using inverted-U, Post & Ring, etc., type racks must be longer than the standard 6 feet to accommodate the ways in which the rack might be used.

Space depth = 6 feet + length of the rack

Common Rack Lengths & Required Space Depth

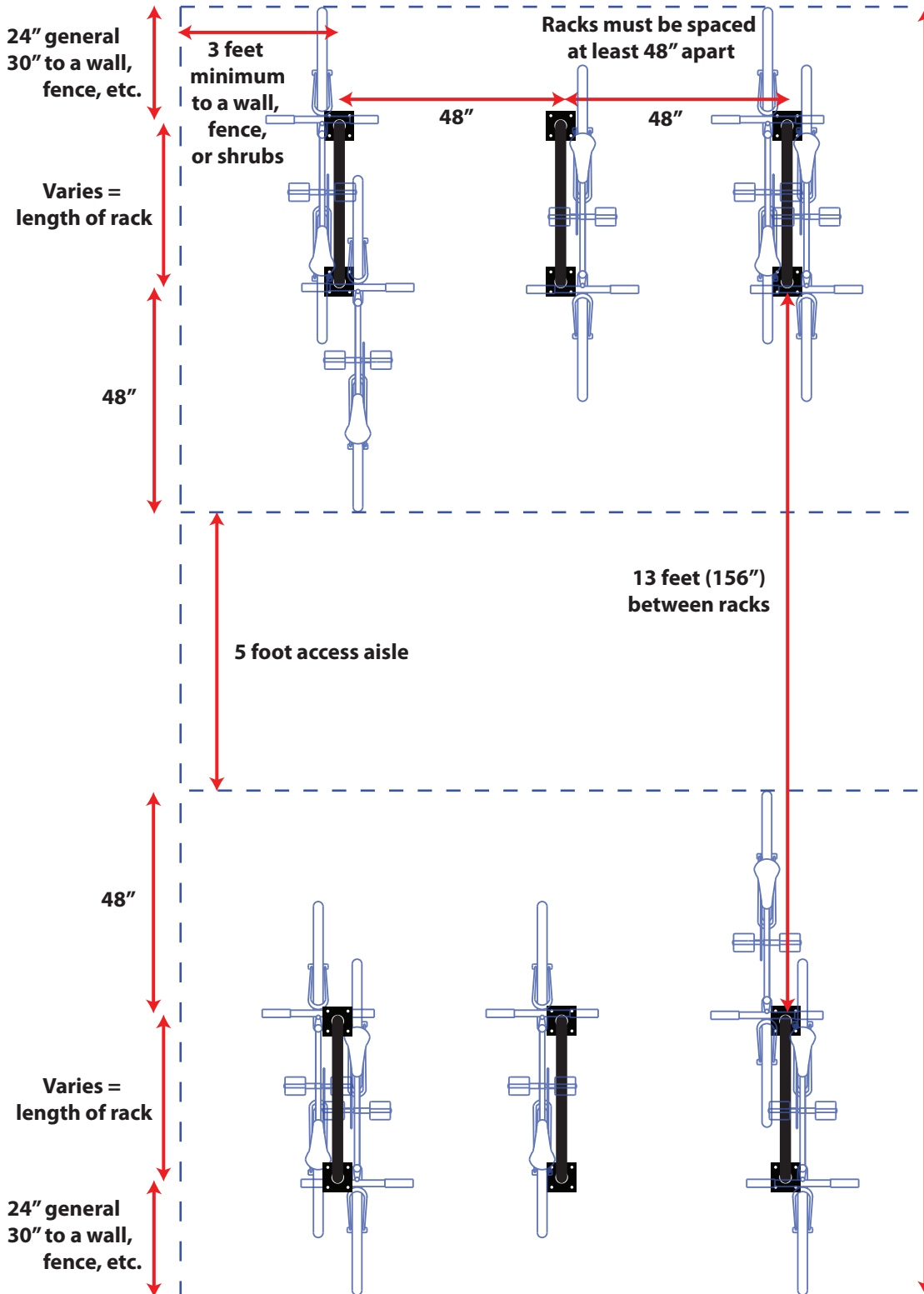
Rack Length	Space Depth
18"	90"
24"	96"
30"	102"
36"	108"

# Inverted-U, Post & Ring Other Similar Bicycle Parking Racks Installation instructions

**Inverted-U, Post & Ring, and other similar type racks for use in the City of Madison need to be installed per the following instructions.**

## B) Layout for a Multiple Row Installation

(See Sheet A for general width and depth spacing information)



**Overall depth of space when using inverted-U, Post & Ring, etc., type racks**  
**For two rows of racks including a 5 foot access aisle between the rows is 17 feet (204") plus 2 times the length of the rack**

**Common Rack Lengths & Overall Length for 2 Rows**

Rack Length	Overall Length
18"	240" (20')
24"	252" (21')
30"	264" (22')
36"	276" (23')

**Installation of Post & Ring or Inverted-U type Racks  
when installed in a line.  
For example in a narrow space such as a street terrace. \***

