



CHAPTER TWO

Fire Lanes and Fire Access

Contents:

- Fire Access Plan Submittal Requirements
- Fire Lane Signs and Installation
- Alternative Fire Lane Signs
- Fire Lane Identification (Red Painted Curbs)
- Alternative Surface Fire Apparatus Roads
- Blue Reflective Markers

Purpose:

Proper fire lanes directly affect how the Fire Department is able to maneuver through a property. These fire lane standards help to ensure unimpeded access for the fire apparatus.



ACCESS REQUIREMENTS FOR NEW CONSTRUCTION SITES

See **Chapter 1-8: Access Requirements for New Construction Sites** for details and specifications. Consult with your Fire Inspector to answer any questions you may have regarding access requirements during any phase of construction.

FIRE LANE SIGNS

When required, approved signs, curb markings or other approved notices shall be provided for Fire Apparatus Access Roads. Their location should be shown on the approved plans. If fire lane signs are not shown, please consult with your Fire Inspector for assistance in determining sign locations.

All signs are to be installed perpendicular to the road and facing the direction of travel and may be required to be double sided.

FIRE ACCESS PLAN SUBMITTAL REQUIREMENTS

Digital copies of the SITE PLAN or FINAL PLAT showing the location of the following items shall be submitted for review and approval at time of initial building plan submittals.

- Project name and location
- Property lines and construction area
- Cross streets and intersections
- Emergency vehicle access sign location
- A minimum of one (1) point of access
- Access road with a minimum width of 20 feet and a minimum vertical clearance of 13 feet 6 inches
- Turning radius with a minimum outside radius of 42 feet 8 inches and a minimum inside radius of 20 feet 3 inches
- A minimum of one (1) approved fire hydrant capable of supplying the required fire flow within 400 feet travel distance of all combustibles

The following statements must be noted on the plans:

- Access roads will be designed and maintained by the contractor/builder
- Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus, at least 83,000 pounds and shall be surfaced so as to provide all-weather driving capabilities.
- Access surface will be ABC compacted to 95% or asphalt for grades up to 6%. For grades from 6% to 12%, the surface shall be comprised of asphalt type materials. For grades from 12% to 15%, surfaces shall be comprised of concrete with a traction surface. Grades shall not exceed 15% without approval from the fire code official.



FIRE LANE SIGNS & INSTALLATION



1. The sign plate shall be a minimum of 12 X 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen printed lettering as shown above.



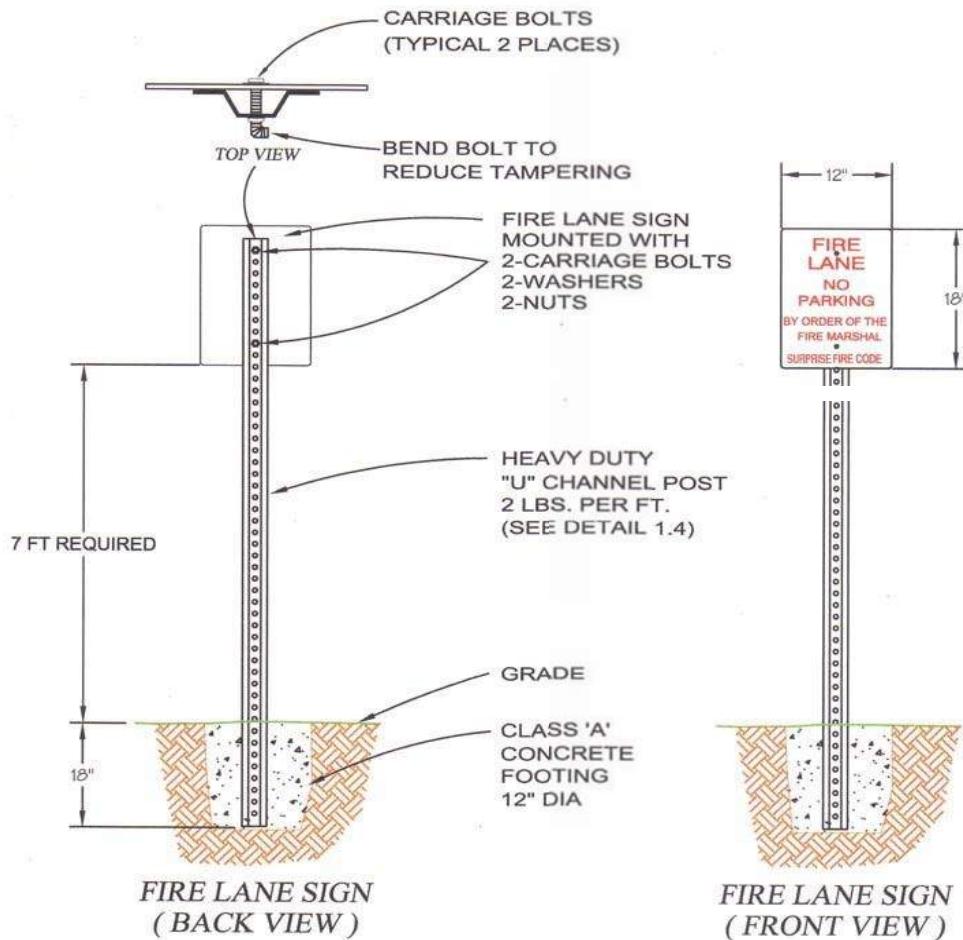
ALTERNATIVE FIRE LANE SIGNS



1. The sign plate shall be a minimum of 12 X 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen printed lettering as shown above.



FIRE LANE SIGN AND POST INSTALLATION SPECIFICATIONS

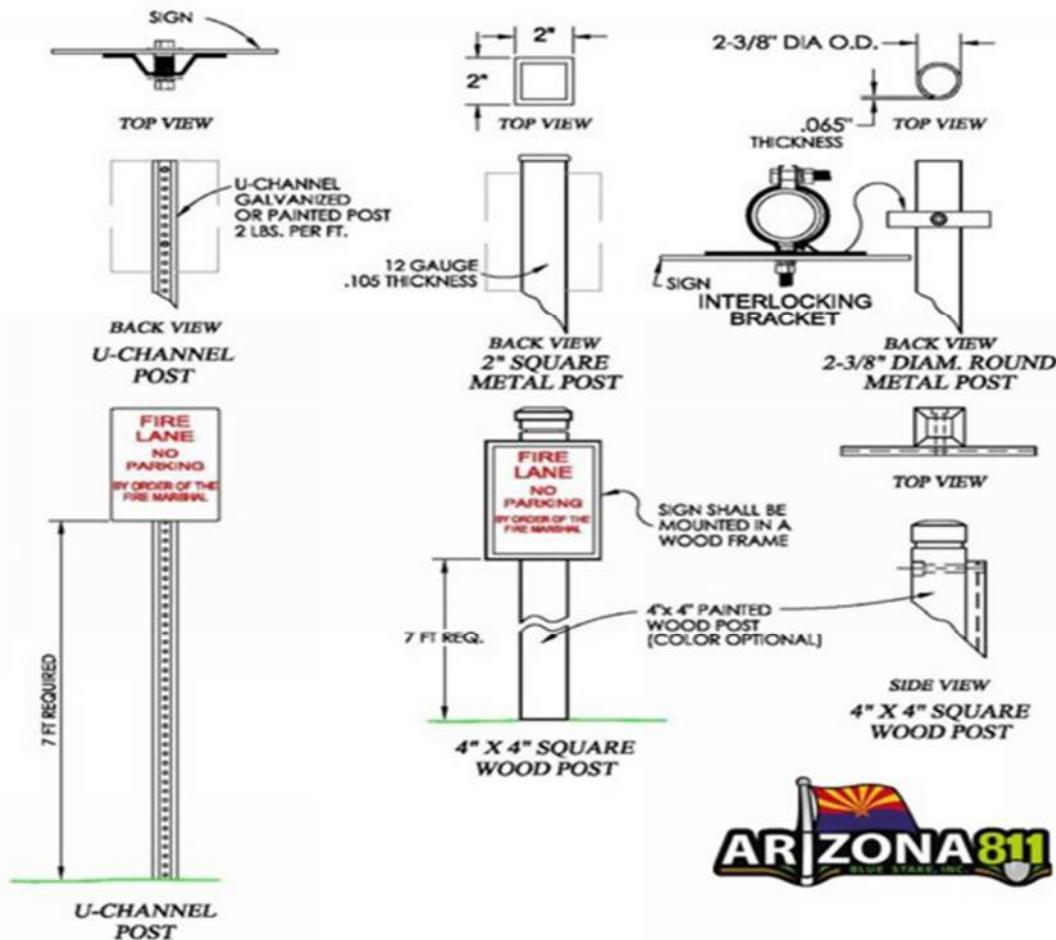


1. 10-foot long U-Channel galvanized or painted post.
2. Lane sign (12x18 inch) .80 aluminum construction with white reflective background and red screen-printed legend.
3. The sign plate shall be a minimum of 12 X 18 inches. The sign face shall have a white reflective background with a red legend. A durable, weather-proof sign shall be used.
4. Signs must face the direction of ONCOMING TRAFFIC.
5. Post shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. Golder Ranch Fire District recommends you blue stake before you dig.





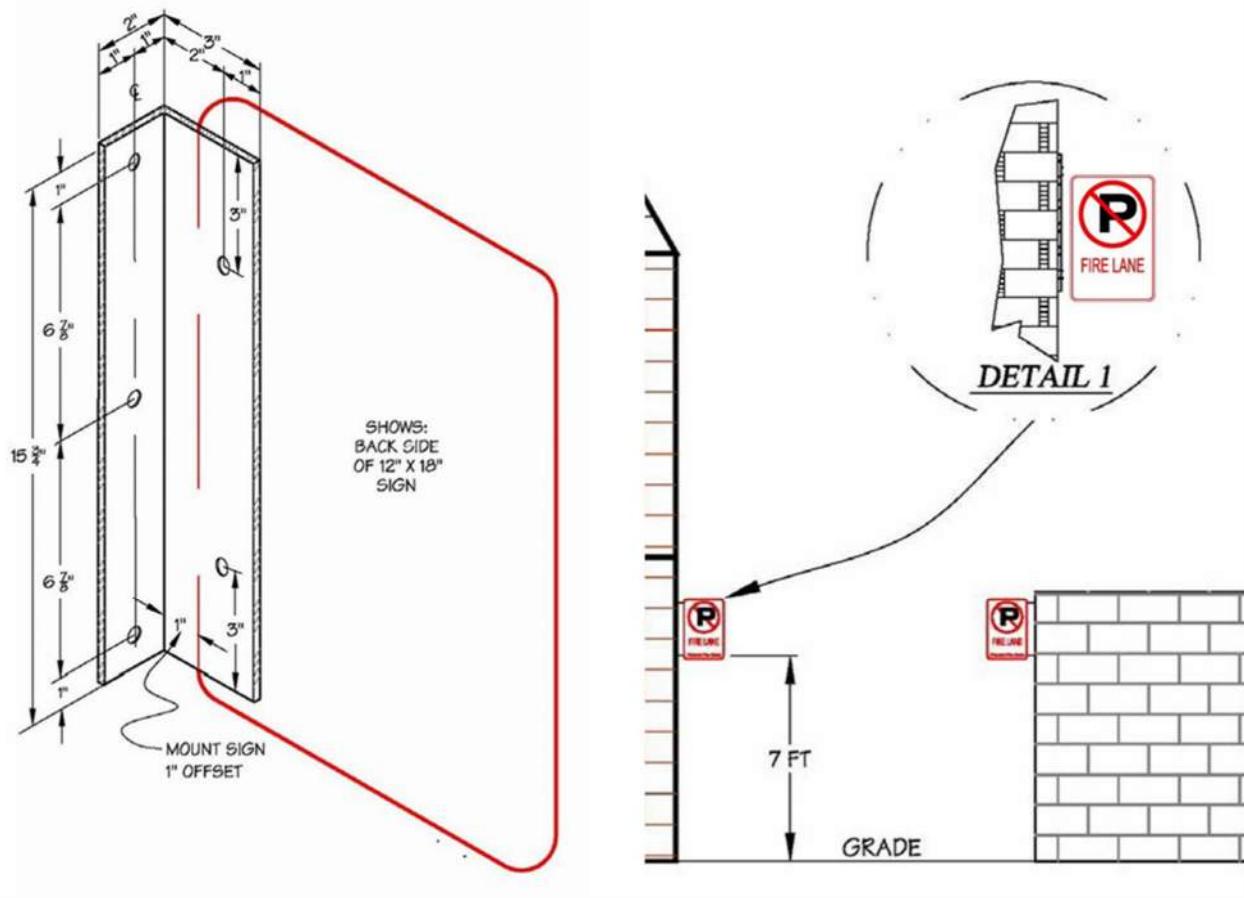
APPROVED FIRE LANE SIGNPOSTS



1. Approved signs shall be constructed of .080 aluminum with a reflective background.
2. Minimum of $\frac{1}{4}$ " bolts with flat washers and nuts that bolt through.
3. Post footing shall be 12 inches in diameter and 18 inches in depth.
4. The sign shall be located seven (7) feet above finished grade to the bottom of sign.
5. Fire lane sign shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. Signs must face the direction of ONCOMING TRAFFIC.
7. Golder Ranch Fire District recommends you blue stake before you dig.



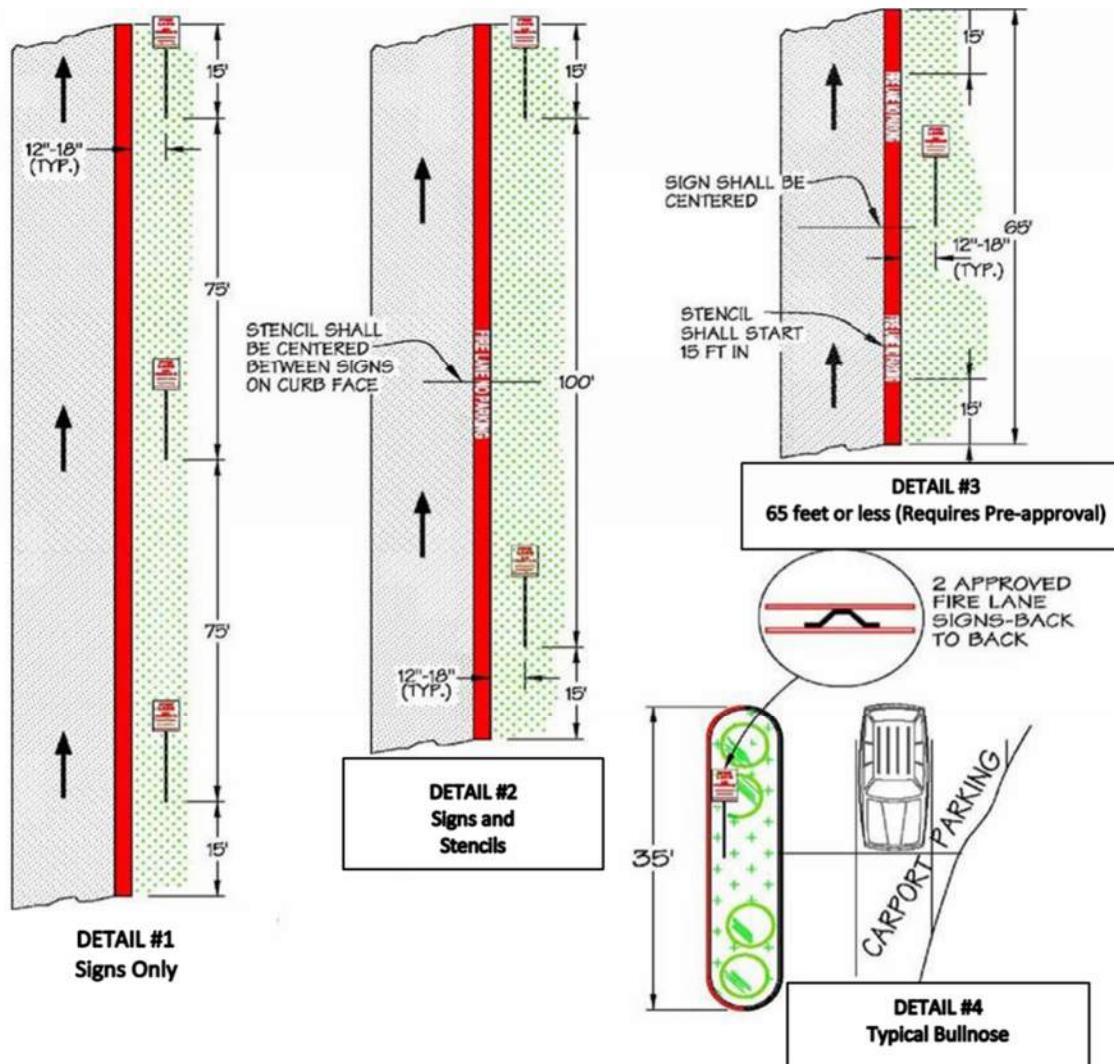
WALL MOUNT BRACKET FIRE LANE SIGN “FLAG-MOUNT STYLE”



1. 3/16-inch-thick, 2X3X15 $\frac{3}{4}$ inch aluminum angle bracket.
2. The sign plate shall be a minimum of 12x18 inches with a thickness of .080 aluminum construction.
3. Approved sign bracket is available for flag-mounted FD access signs. Bracket can be used on either the right or left side of the sign.
4. This application only available when sign cannot be installed on an approved post.



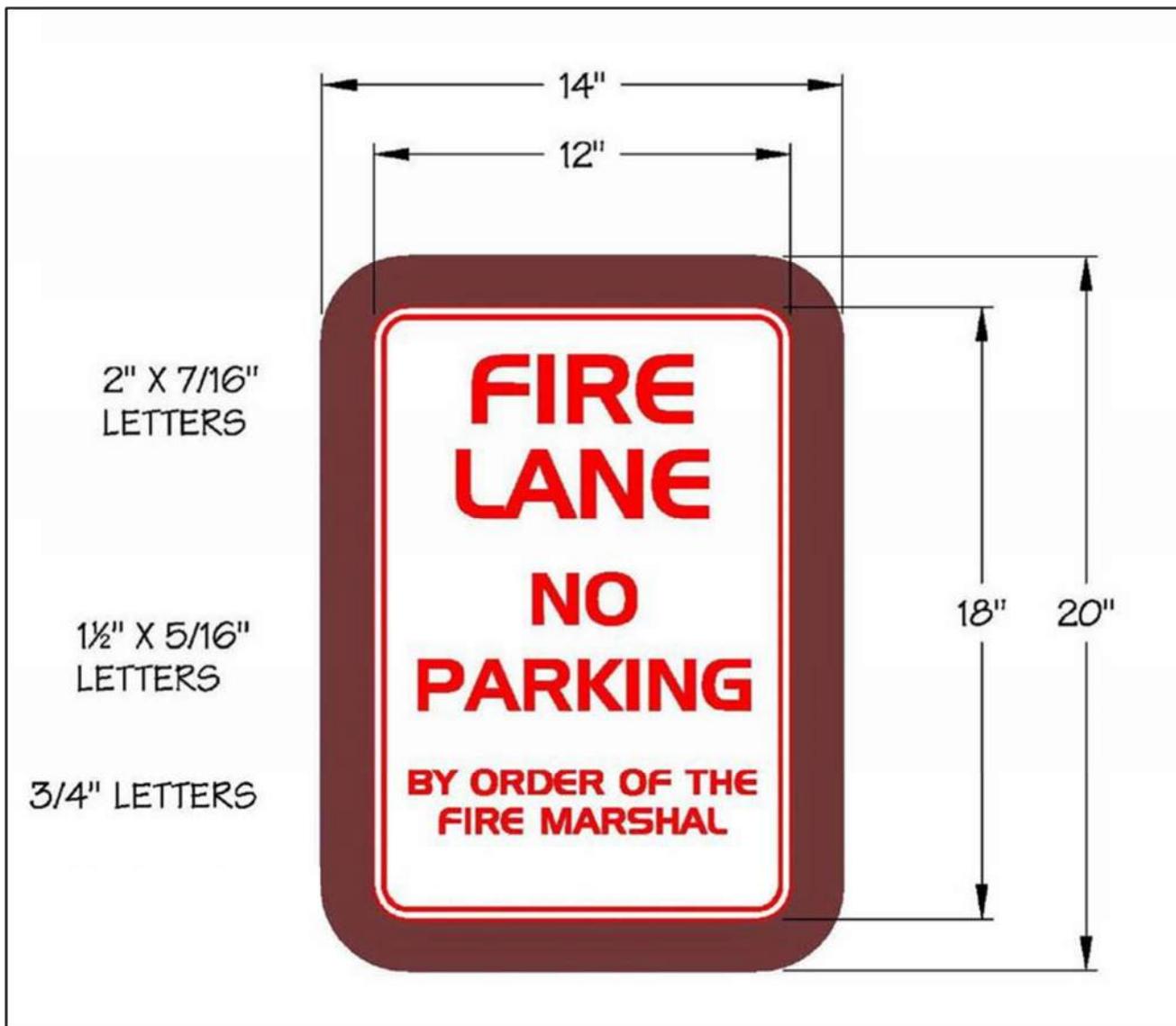
FIRE LANE IDENTIFICATION, STENCILING AND SIGN INSTALLATION



1. Approved fire lane signs shall be installed 12 to 18 inches from back of curb or back of sidewalk.
2. Sign must face the direction of ONCOMING TRAFFIC.
3. Stencils shall be in white lettering (4-inch height, $\frac{1}{2}$ inch stroke) on "Industrial grade" safety red painted curb.
4. Stencil shall read "Fire Lane No Parking."



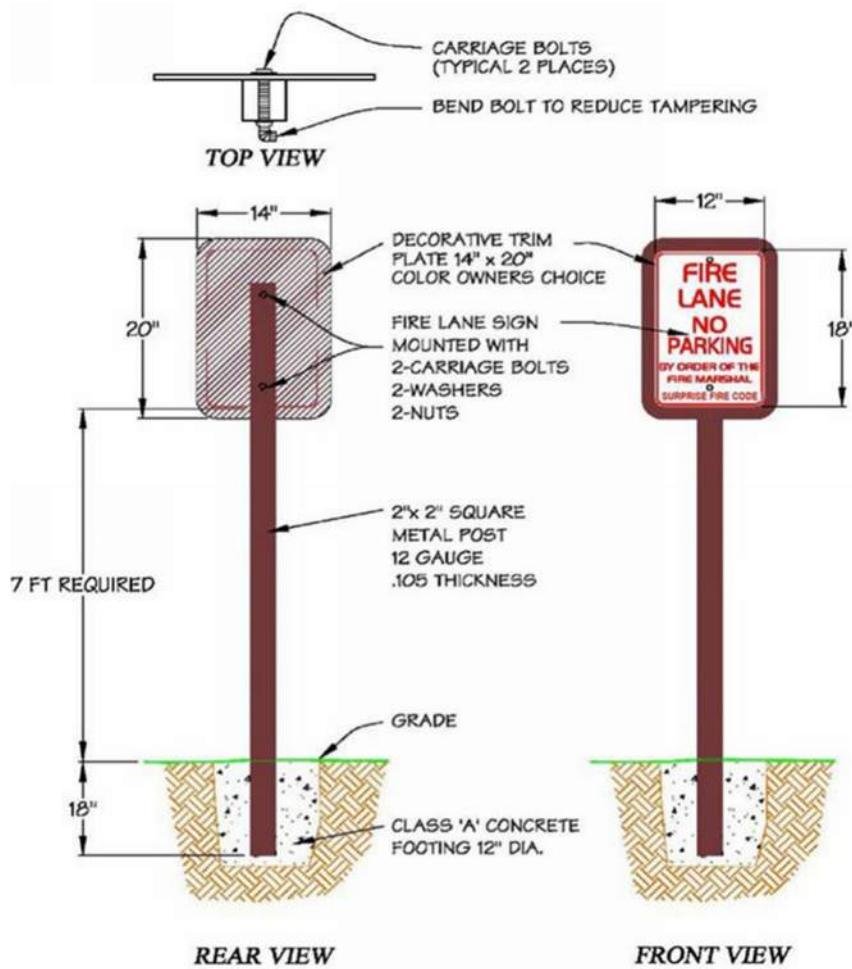
DESIGNER FIRE LANE SIGNS



1. The sign plate shall be a minimum of 12 x 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen-printed lettering as shown above.
3. Font style is Handel Gothic capital font.
4. Decorative trim plate shall be 14 x 20 inches with a thickness of .080 aluminum, in a color of the owner's choice.



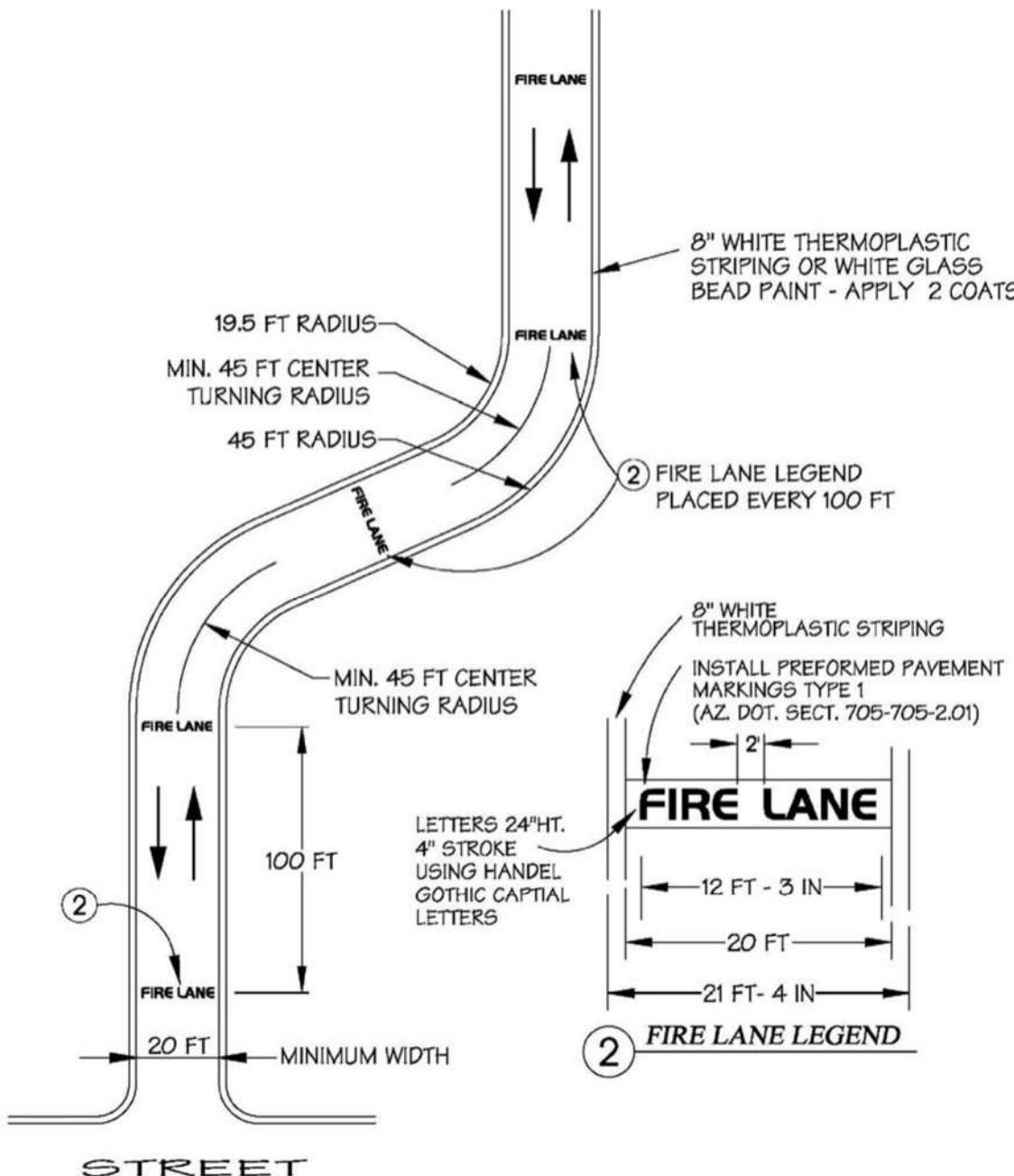
DESIGNER FIRE LANE SIGNPOST 7 INSTALLATION



1. The sign plate shall be 12 x 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with red screen-printed legend.
3. Letters using a Handel Gothic capital font.
4. Decorative trim plate shall be 14x20 inches with a thickness of .080 aluminum, color can be owner's choice.
5. Ten-foot long painted 2x2 inch square or round post shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. The sign shall be located seven (7) feet above finished grade to bottom of the sign.
7. Minimum of $\frac{1}{4}$ " bolt with flat washers and nuts that bolt through post.
8. Signs must face the direction of ONCOMING TRAFFIC.
9. Golder Ranch Fire District recommends you blue stake before you dig.

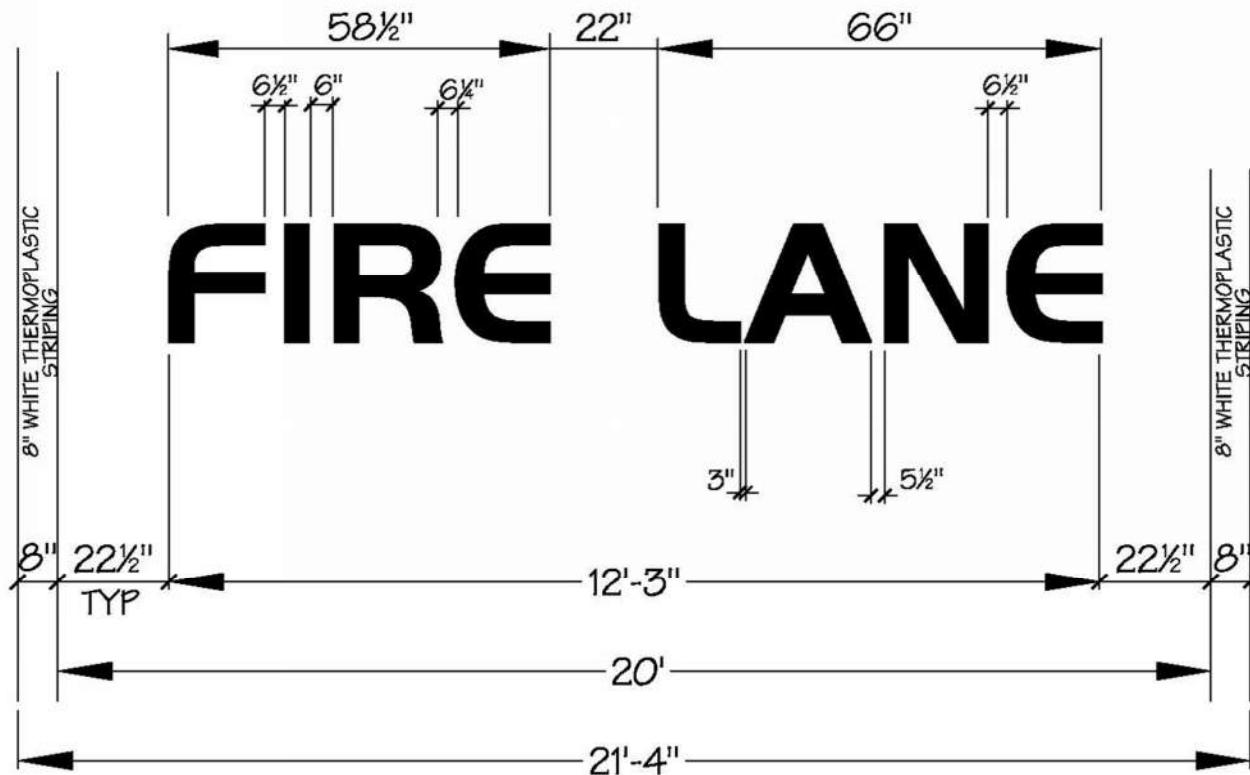


ALTERNATIVE FIRE LANE MARKING SYSTEM





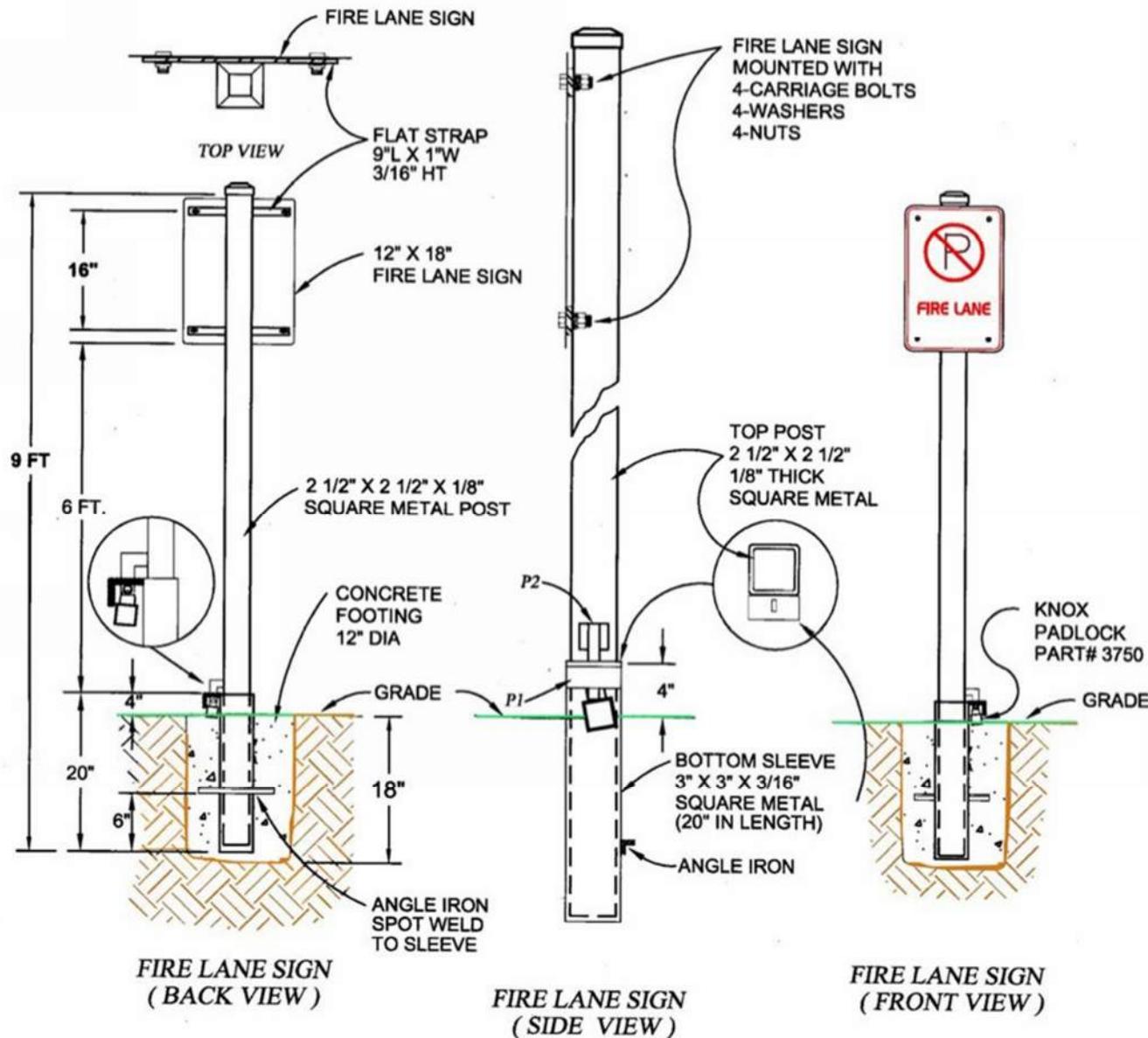
ALTERNATIVE FIRE LANE MARKING SYSTEM



1. Letters 24-inch height with a three (3) inch stroke
2. Install performed pavement markings type I (AZ, DOT sect.705-705-0201).

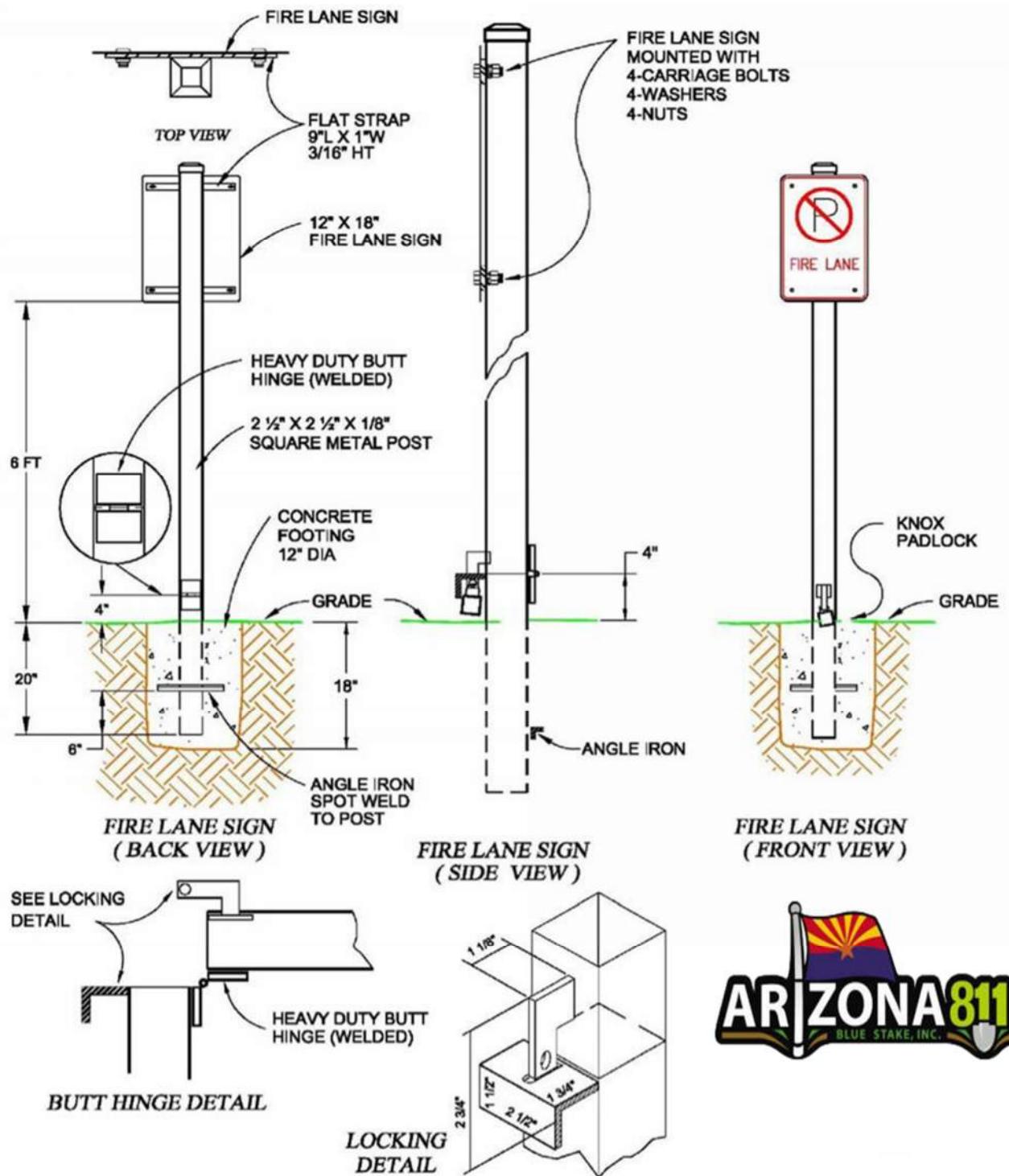


REMOVEABLE FIRE LANE SIGN





FOLDING FIRE LANE SIGN



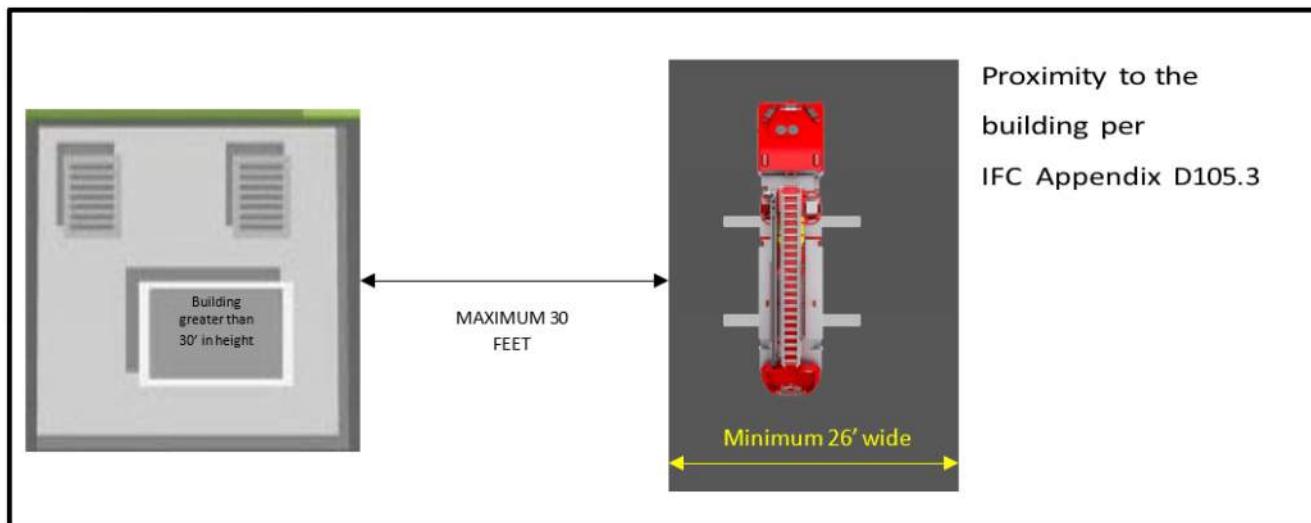
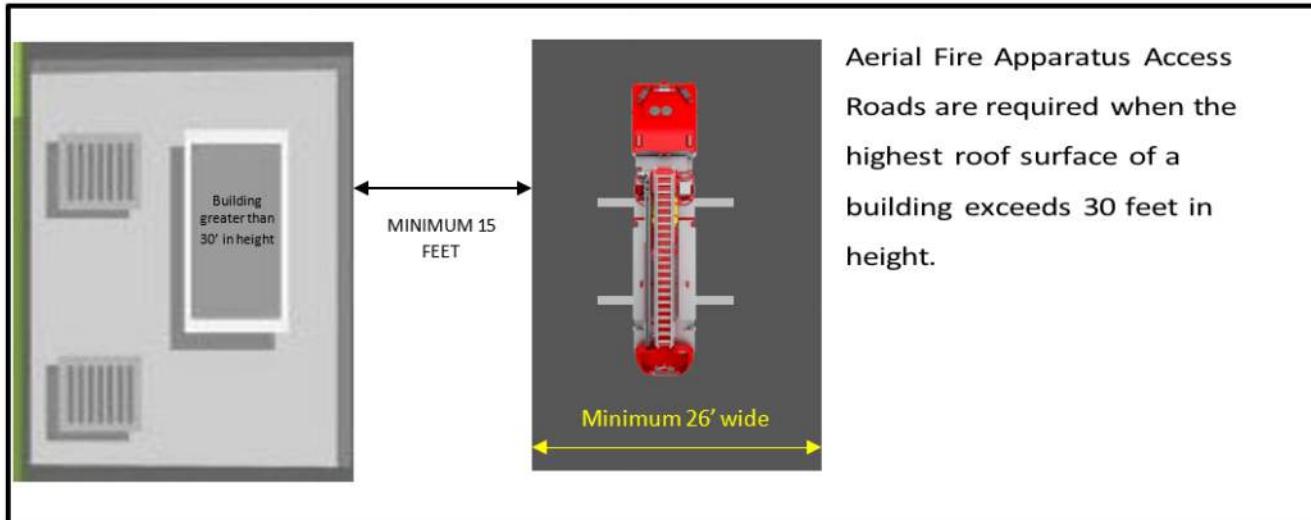


ALTERNATIVE SURFACE FIRE LANE MARKING SOFT SURFACE





STANDARD AERIAL FIRE APPARATUS ACCESS ROAD FOR BUILDINGS GREATER THAN 30' IN HEIGHT



The side of the building on which the aerial apparatus access road is positioned shall be approved by the Fire Code Official.



REFLECTIVE BLUE MARKER INSTALLATION DETAIL

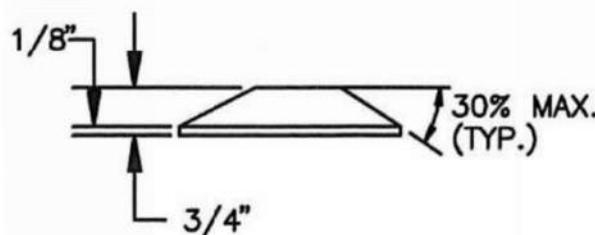
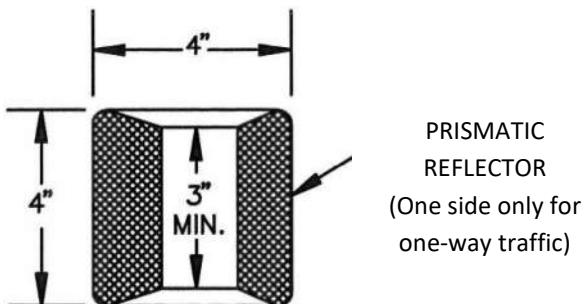


Reflective area is 3.25 square inches per reflective face.



MATERIALS

Acrylic plastic reflector filled with a tightly adherent potting compound.



Elevation View

1. Blue/red reflectors are required to help identify the location of fire hydrants and fire department connections (FDC) in the dark.
2. Blue reflectors shall be placed one (1) foot off the center line of the street or lane toward the hydrant or FDC.
3. One (1) blue marker is required to identify a fire hydrant.
4. One (1) red marker is required to identify an FDC.