



**COSUMNES COMMUNITY SERVICES DISTRICT
FIRE DEPARTMENT**

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[CosumnesCSD.gov/Fire](https://cosumnesCSD.gov/Fire)

**FIRE PREVENTION CONSTRUCTION STANDARDS
TYPICAL DETAILS FOR FIRE RISER UNDERGROUND FLOOR PENETRATION,
BOLLARD SIZING AND PLACEMENT, AND FIRE HYDRANT CLEARANCE**

Standard Number: FPCH-2010
Original Effective Date: 4/8/2019
Revision Date: 6/18/2025
Code Section: 2022 California Fire Code

STANDARD

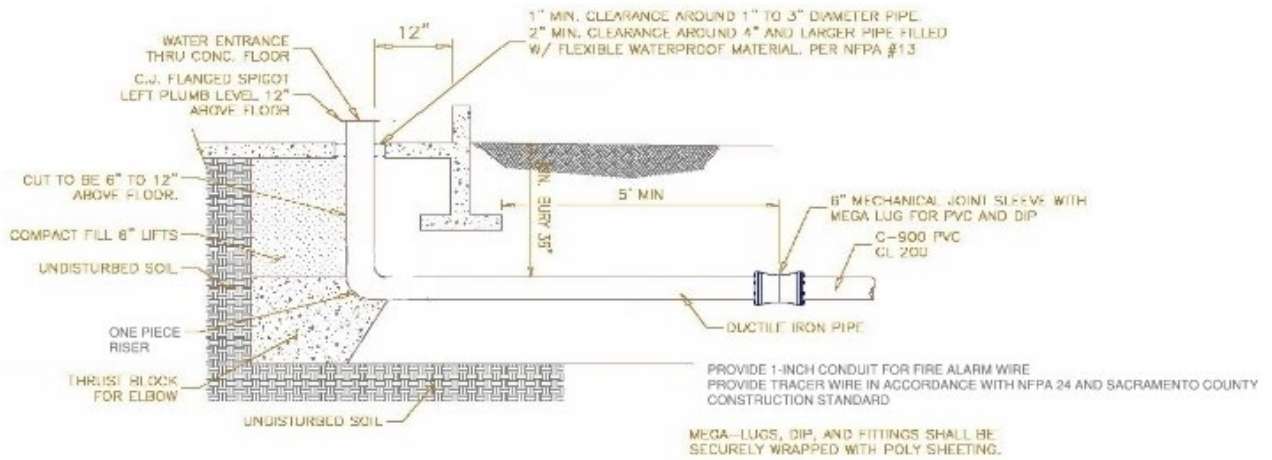
2010.1 This handout provides typical minimum design standards for underground fire risers, bollard sizing and placement, and fire hydrant clearance requirements.

PURPOSE AND SCOPE

2010.2 This handout helps the user understand the minimum design details relating to distance of vegetation and bollard placement to a fire hydrant, typical fire riser line into the building diagram, and typical bollard design requirements.

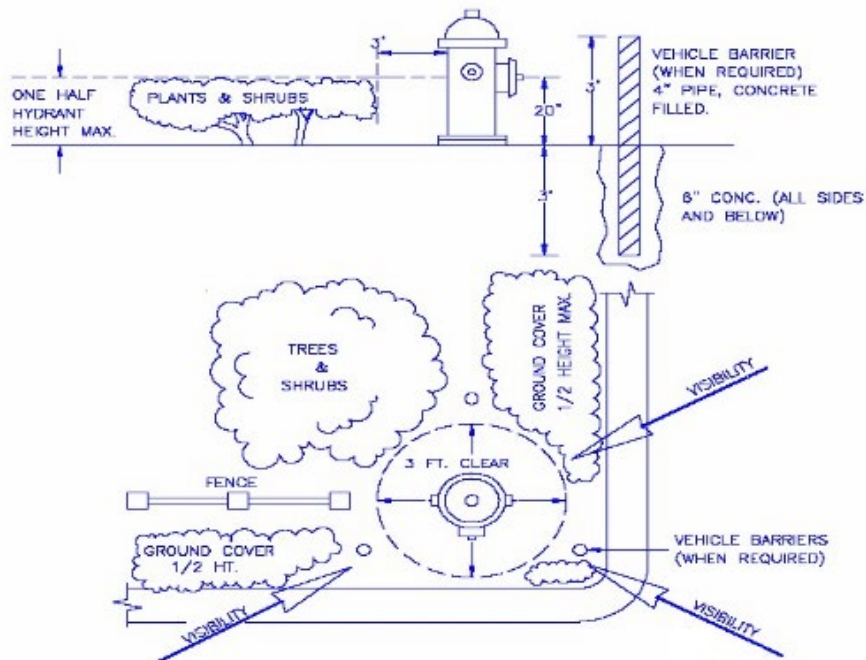
APPLICATION

2010.3 Below are examples of typical details that are shown on construction plans to clearly indicate design intent.



**FIRE RISER UNDERGROUND FLOOR
PENETRATION DETAIL (TYP)**

NTS



**HYDRANT CLEARANCE
GUIDELINES (TYP)**

NTS