



# City of Los Alamitos

Community Development: Building & Safety Division  
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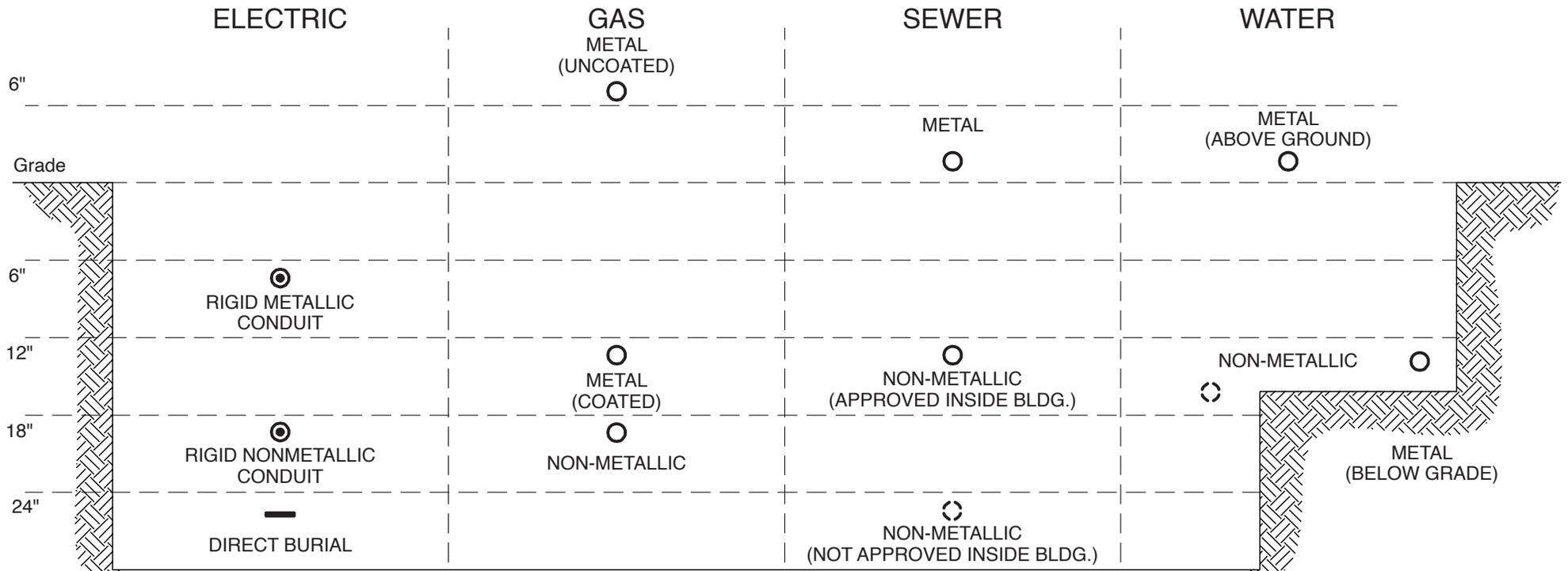
## PIPE BURIAL DEPTHS

### NOTES

- These burial depths apply, outside of buildings within private property, subject to the following provisions:
1. Not applicable to utility, companies gas and electric lines.
  2. May be laid in the same trench without horizontal separation except as noted for sewer and water lines.
  3. Does not apply to automatic sprinkler system lines beyond control valves.

### SYMBOLS:

- ⊙ Conduit
- Pipe
- ⊖ Alternate Location
- Direct Burial Cable



#### CEC 2019 Table 300.5

**Metal** - Rigid conduit (coated) 6" minimum.  
**Nonmetallic** - Rigid conduit 18" minimum.  
**Exception** - Direct burial cable 24" minimum. (CEC Art. 300.5 Exceptions apply: i.e., 6" less depth for 2" concrete pad over cable. Residential branch circuits rated 120 Volts or less with GFCI protection and maximum overcurrent protection of 20 amperes maybe at 12".

#### CPC 2019 Sec. 1210.1.1

**Metal** -  
**(a)** 6" above ground (uncoated and unwrapped).  
**(b)** 12" below ground (factory coated or machine wrapped). Minimum cover shall be increased to 18" if external damage to the pipe from external sources is likely to result  
**Nonmetallic** - (PVC or PE) - 18" min.  
**Note:** Require approved plastic to metal transition fittings to rise above ground. Also, 18 GA. copper tracer wire required for non-metallic

#### CPC 2019 Sec. 718.3 & 720

**Metal** -  
 No burial requirement (recommended 12" to protect from mechanical damage and freezing).  
**Nonmetallic**  
**(a)** Pipe approved inside building - 12" minimum  
**(b)** Pipe approved inside building - sewer to be 12" below water line with water pipe 12" to one side on a solid shelf - total depth 24", and 12" apart horizontally minimum.

#### CPC 2019 Sec. 609.1 & 720

**Metal** -  
 At or above grade, or 12" minimum below grade.  
**Nonmetallic** -  
 12" minimum (plastic).