

PLASTIC/METAL PIPE / CORRUGATED HDPE REQUIREMENT APPLICATION MATRIX

1. Culverts only, no connections to catch basins and no alignments parallel to centerline; should be single line crossing under roadway.
2. Must have six feet of cover or more, shallow pipe tends to get cut up by others. If less than 6' a concrete blanket is required per APWA Standard 225-0
3. Thickness per IV-J.
4. Allowable materials are HDPE, PVC and Steel.
5. All pipe to be smooth interior and ribbed or corrugated exterior.
6. Structural calculations for required strength shall be provided.
7. Standard specifications for pipe material, installation, and testing are per Ordinance 461.

CORRUGATED HDPE APPLICATION MATRIX

APPLICATION	Minimum Cover (ft) <sup>1,2</sup>	Maximum Cover (ft) <sup>1</sup>	Emedment Material	Compaction Level (% RC)	Compaction Equipment	Joint Type	Post Installation Inspection	Compaction Testing	Radius Curves	High Ground Water	Design Service Life (years)
NEW DEVELOPMENT											
TRANSPORTATION											
INSIDE ROW – NO TRAFFIC	6	20	N	95	M	WT	TV	Y	Y	Y	100
INSIDE ROW – TRAFFIC	6	20	R	95	M	WT	M	Y	Y	Y	100
OUTSIDE ROW – NO TRAFFIC	6	20	N	95	M	WT	V	Y	Y	N	100
OUTSIDE ROW – TRAFFIC	6	20	R/S	95	M	WT	V	Y	Y	Y	100

1 = Based on Caltrans Design Manual Section 850

2 = Minimum cover under traffic loading is defined as from top of pipe to bottom of flexible pavement and/or from top of pipe to top of rigid pavement.

3 = Minimum 4" concrete CAP per APWA Standard 225-0 required for less than 6' cover.

ST = Silt tight

V = Visual Inspection

TV = CCTV Inspection

M = Mandrel to 7.5% Based ID

Y = Yes

N = No