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PUBLIC WORKS
8401 Laguna Palms Way
Elk Grove, California 95758



Standards Update Transmittal

Reference Number: 2024-01
Standards: Improvement Standards, 9-12 “Closed Conduits”

Update:

1. Modification to Improvement Standards:
 - a. Section 9-12 “Closed Conduits”, Item F, language is being added to allow for storm drainage pipes to be closer to the centerline of the street when in conflict with State requirements for water and storm drain separation.

Effect of Update:

1. These modifications will remove the requirements for Director approval and design exceptions process for minor residential streets that cannot meet State requirements for water and storm drain separation and would streamline development projects.

Request for Update Initiated By: IWG Subtask Group 10/3/2023
Date

Update Reviewed for Conformity and Consistency to Standards: Shoaib Ahrary 2/8/2024 | 12:26 PM PST
Shoaib Ahrary, PE, ESD Manager Date

Update to Standards Approved: Jeffrey R. Werner 2/13/2024 | 6:46 AM PST
Jeffrey R. Werner, PE, City Engineer Date

9-12 CLOSED CONDUITS

F. Alignment Requirements

1. The preferred location of storm drainage pipes in new streets shall be typically six feet (6') north or west of and parallel to the centerline of the street. In special situations, and if necessary to meet State required water separation standards, pipelines may be placed three feet (3') north or west of and parallel to the centerline of the street. Placement of storm drainage pipes in alternative locations, including under curb and gutter, must be approved by the Director.
2. All new storm drain mains shall be placed a minimum of one hundred feet (100') from existing and proposed water wells. Encroachments less than one hundred feet (100') require approval of Director and the water purveyor prior to plan approval.
3. Avoid unnecessary meandering and angular changes of pipelines. Angular changes, when necessary, shall not exceed 90 degrees unless approved by the Director. No angular changes in direction are allowed for concrete cast-in-place-pipe other than on a radius.
4. Pipeline Radius Criteria: All pipe placed on curves shall meet manufacturer's recommendations for curved alignment. All curves, radii, length of pipe joints, and types of pipe shall be shown on the plans. The minimum radius of curvature for concrete cast-in-place-pipe shall be determined by the formula $R = 30D$ where R = radius of curvature, and D = nominal internal pipe diameter, with R and D expressed in the same units.
5. Pipelines shall be laid straight in both horizontal and vertical planes between manholes unless otherwise approved by the Director.
6. Where storm drain pipelines of different diameter join, the invert elevations shall be adjusted to maintain a uniform energy gradient.