APPENDIX 3E

Sample Notes for Drainage Plans About Catch Basins and Inlets

1. INTRODUCTION

All notes in these sets are illustrative and require review and revision by the Engineer for each project and specific project conditions. Some of these notes are contradictory AND MAY BE SUITABLE FOR ONE SITE BUT NOT OTHERS. Yellow highlights indicate a note to the designer.

2. DRAINAGE CATCH BASINS AND INLETS NOTES

For drainage catch basins and inlets notes unless otherwise noted.

1. CATCH BASIN CONNECTIONS AND INLET CONNECTIONS MUST BE 8" DIAMETER, UNLESS OTHERWISE NOTED. PIPE MUST BE DOUBLE CEMENT MORTAR LINED DUCTILE IRON CLASS 50 (MIN) PER COS STD SPEC 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. Note to the engineer: Consider substitution with PVC C900 with Class B bedding of mineral aggregate type 22 when there are corrosion concerns. See note 3.
2. INLET CONNECTIONS MUST BE 8” DIAMETER, UNLESS OTHERWISE NOTED. PIPE MUST BE DOUBLE CEMENT MORTAR LINED DUCTILE IRON CLASS 52 (MIN) PER COS STD SPEC 9-05.3. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. Note to the engineer: Consider substituting DI class 50 with DI class 52 with Class B bedding of mineral aggregate type 6 or 7 when there are corrosion concerns. DI class 52 is preferred for inlets in corrosive soils because typical depth of inlet connections may be too shallow to use of PVC C900.
3. CATCH BASIN CONNECTIONS MUST BE 8” DIAMETER, UNLESS OTHERWISE NOTED. PIPE MUST BE PVC C900 PER COS STD SPEC 9-05.4(2).
4. BEDDING MUST BE CLASS D OR WITH SELECT NATIVE MATERIAL IF APPROVED BY THE ENGINEER.
5. BEDDING FOR DUCTILE IRON PIPE MUST BE CLASS B, MINERAL AGGREGATE TYPE 6 OR 7. Note to designer: Class B bedding (sand) is recommended for storm drain and sewer pipes in corrosive soils.
6. BEDDING FOR PVC PIPE MUST BE CLASS B, MINERAL AGGREGATE TYPE 22.
7. TRENCH BACKFILL MUST BE MINERAL AGGREGATE TYPE 17. NATIVE MATERIAL WILL NOT BE ALLOWED. Note to designer:
8. CATCH BASIN CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% PER COS STD PLAN 261 AND COS STD SPEC7-08.3(4).
9. INLET CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50% PER COS STD SPEC 7-08.3(5), UNLESS OTHERWISE NOTED ON THE PLANS.
10. CATCH BASINS AND INLETS MUST BE LOCATED PER COS STD PLAN 260A AND 260B.
11. TELEVISION INSPECTION OF CATCH BASIN CONNECTIONS MUST BE PER COS STD SPEC 7-17.3(4)I.

12. CONTRACTOR MUST FOLLOW SPU CORE TAP PROCEDURES FOR ALL NEW CONNECTIONS TO EXISTING SEWER OR DRAINAGE MAINS OR STRUCTURES. CONTRACTORS ARE NOT ALLOWED TO CORE INTO EXISTING MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL AND OBSERVATION BY SPU. TO SCHEDULE CORE TAPS, CONTACT SPU AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE. SEE COS STD SPEC 7-17.3(2)C3 AND THE SPU CORE TAP PROCEDURE FOR STORM AND SEWER MAINS. Note to designer: The distinction is new connections to existing mainlines will be by SPU crews and new tees and lateral on new pipe will be by the contractor. A project decision to allow the contractor to tap existing pipe should include a check of bid items and spec language.