

STORMWATER GENERAL NOTES:

1. ALL STORMWATER PIPE, STRUCTURES AND RETENTION/DETENTION BASINS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY A SURVEYOR LICENSED IN THE STATE OF WASHINGTON.
2. THE CONTRACTOR SHALL MAINTAIN STORM SERVICE TO ALL RESIDENCES AND BUSINESS AND THROUGH ALL EXISTING STORMWATER PIPES AT ALL TIMES. IF THE CONTRACTOR DESIRES TO BY-PASS STORM FLOWS, A BY-PASS PLAN SHALL BE SUBMITTED TO, AND APPROVED BY THE TOWN PRIOR TO IMPLEMENTING THE BY-PASS PLAN.
3. PRIOR TO BACKFILLING, ALL PIPE AND STRUCTURES SHALL BE INSPECTED AND APPROVED BY THE TOWN. APPROVALS SHALL NOT RELIEVE THE CONTRACTOR OF CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS.
4. THE TOWN OF FRIDAY HARBOR PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF ANY REQUIRED INSPECTIONS AND CONNECTION TO AN EXISTING STORM STRUCTURE OR PIPE.
5. STORMWATER PIPE SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP) UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE TOWN. CPEP UP TO 10 INCH DIAMETER PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M252 TYPE S. CPEP 12" TO 60" DIAMETER PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M294 TYPE S. ALL JOINTS FOR CPEP PIPE SHALL BE MADE WITH A BELL/BELL OR BELL/SPIGOT COUPLING AND SHALL CONFORM TO ASTM D3212 USING ELASTOMERIC GASKETS CONFORMING TO ASTM F477. ALL GASKETS SHALL BE FACTORY INSTALLED ON THE PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FITTINGS SHALL BE BLOW MOLDED, ROTATIONAL MOLDED OR FACTORY WELDED PIPE SHALL MEET THE FOLLOWING REQUIREMENTS.
6. DUCTILE IRON PIPE, CLASS 50 SHALL BE INSTALLED IF COVER IS LESS THAN 24-INCH. DUCTILE IRON, CLASS 50 SHALL CONFORM TO ANSI A 21.51 OR AWWA C151 AND SHALL BE CEMENT MORTAR LINED. NON-RESTRAINED JOINTS SHALL BE RUBBER GASKET TYPE, PUSH ON TYPE, OR MECHANICAL TYPE AND SHALL MEET THE REQUIREMENTS OF AWWA C111. CAST IRON FITTINGS MAY BE USED WITH DUCTILE IRON PIPE.
7. PVC PIPE SDR 35 MAY BE INSTALLED IF APPROVED BY THE TOWN. PVC PIPE SDR 35, 4-INCH TO 15-INCH DIAMETER SHALL CONFORM TO ASTM D 3034, 18-INCH TO 48-INCH DIAMETER SHALL CONFORM TO ASTM F679. JOINTS FOR SOLID WALL PVC PIPE SHALL CONFORM TO ASTM D 3211 USING ELASTOMERIC GASKETS CONFORMING TO ASTM F477. FITTINGS FOR SOLID WALL PVC PIPE SHALL BE INJECTION MOLDED, FACTORY WELDED, OR FACTORY SOLVENT CEMENTED.
8. ADJUSTMENTS TO CATCHBASINS AND MANHOLES UNDER 2-INCHES SHALL BE WITH CONCRETE OR NON-SHRINK GROUT.
9. ADJUSTMENTS TO CATCHBASINS OVER 2-INCHES SHALL BE WITH CONCRETE ADJUSTMENT RINGS.
10. ALL ADJUSTMENT RISERS SHALL BE GROUTED WITH NON-SHRINK GROUT OR SOME TYPE OF PORTLAND AND SAND MIXTURE. DRY-STACKING IS NOT ALLOWED.
11. STORM SEWERS SHALL BE TESTED FOR DEFLECTION NOT LESS THAN 30 DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. THE TEST SHALL BE CONDUCTED BY PULLING A PROPERLY SIZED "GO-NOGO" MANDREL THROUGH THE COMPLETED PIPELINE. TESTING SHALL BE COMPLETED AFTER THE LINE HAS BEEN COMPLETELY FLUSHED OUT WITH WATER. THE CONTRACTOR SHALL REMOVE ALL DEBRIS SO THAT NONE IS FLUSHED INTO THE EXISTING STORM SEWER SYSTEM. THE TEST SHALL BE OBSERVED BY THE TOWN.

NO SCALE



APPROVAL

*Wayne R. Haufle*

PUBLIC WORKS DIRECTOR

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GENERAL NOTES**

DATE  
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DRAWING NO.  
**SW-0**

REV: