

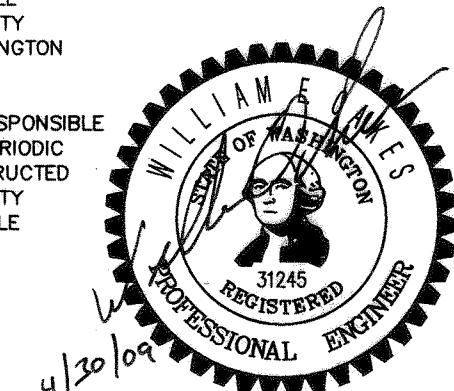
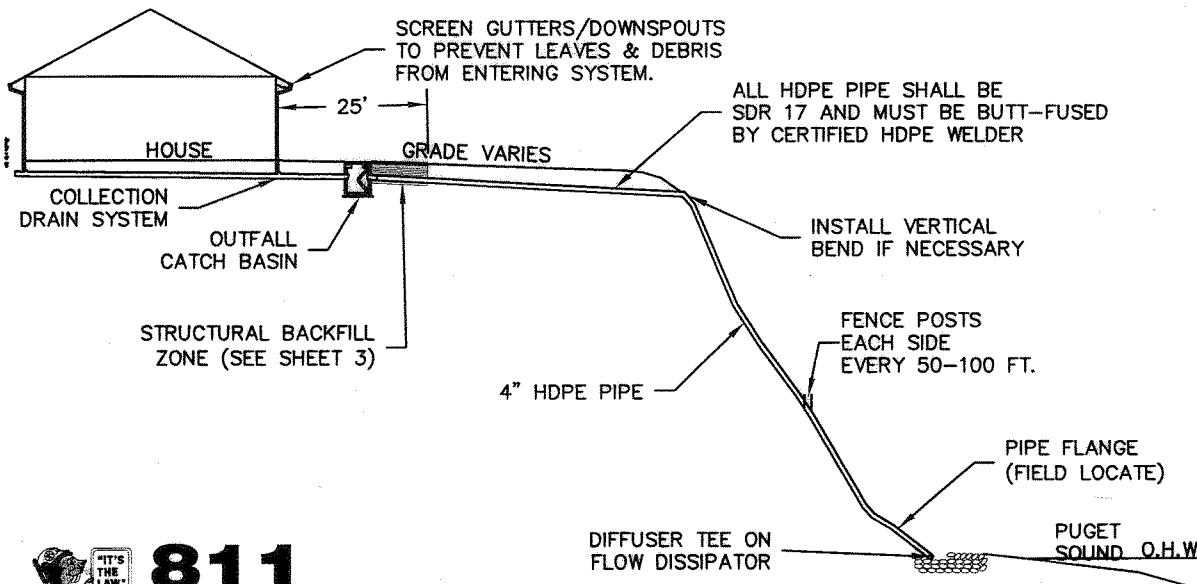
THE INTENT OF THESE PLANS FOR ISLAND COUNTY'S SMALL DIAMETER HDPE OUTFALL IS TO PROVIDE AN ASSEMBLY DIAGRAM FOR THE HDPE OUTFALL PIPE AND CATCH BASINS AS SHOWN ON THE PLANS. ACCEPTED RECOMMENDATIONS OF A GEOTECHNICAL ENGINEERING REPORT MAY BE USED FOR MODIFYING DETAILS OR DIMENSIONS PROVIDED HEREIN.

**DISCLAIMER FOR SMALL DIAMETER OUTFALL PLANS AS DEVELOPED BY ISLAND COUNTY PUBLIC WORKS**

ISLAND COUNTY MAKES NO WARRANTY OR CLAIM AS TO THE PERFORMANCE OF THIS OUTFALL SYSTEM AND ACCEPTS NO LIABILITY FOR ITS USE. PERSONS SEEKING SUCH A PERFORMANCE WARRANTY OR CLAIM SHOULD MAKE SUCH A REQUEST TO THEIR CONTRACTOR OR MATERIALS SUPPLIER.

**GENERAL NOTES:**

1. THIS STANDARD PLAN IS INTENDED FOR ONE SINGLE FAMILY RESIDENCE WITH LESS THAN 5,000 SQUARE FEET OF IMPERVIOUS SURFACE. CONTACT ISLAND COUNTY PUBLIC WORKS DEPARTMENT (360) 679-7331 REGARDING LOCAL PERMITTING AND DESIGN/SUBMITTAL REQUIREMENTS. CONTACT DEPARTMENT OF FISH AND WILDLIFE FOR PERMIT REQUIREMENTS (360) 466-4345 IN CRITICAL AREAS.
2. THE MAX. BLUFF HEIGHT FOR THIS SYSTEM IS 300 FEET. FENCE POSTS ON SLOPE RESTRICT LATERAL MOVEMENT BUT ALLOW PIPE EXPANSION/CONTRACTION.
3. PROPERTY OWNER IS REQUIRED TO CONTACT ISLAND COUNTY PUBLIC WORKS DEVELOPMENT COORDINATOR FOR SYSTEM INSTALLATION INSPECTION AT LEAST 36 HOURS PRIOR TO COVERING SYSTEM COMPONENTS.
4. ALL CONSTRUCTION SHALL COMPLY WITH ISLAND COUNTY SPECIFICATIONS AND WASHINGTON STATE LAW.
5. PROPERTY OWNER IS RESPONSIBLE FOR AN ADEQUATE AND PERIODIC INSPECTION OF THE CONSTRUCTED DRAINAGE SYSTEM. PROPERTY OWNER ALSO IS RESPONSIBLE FOR ONGOING AND PROPER MAINTENANCE OF THE CONSTRUCTED DRAINAGE SYSTEM.



Office of the  
**ISLAND COUNTY ENGINEER**  
1 NE 6th Street  
Coupeville, WA 98239-5000



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COUNTY ENGINEER

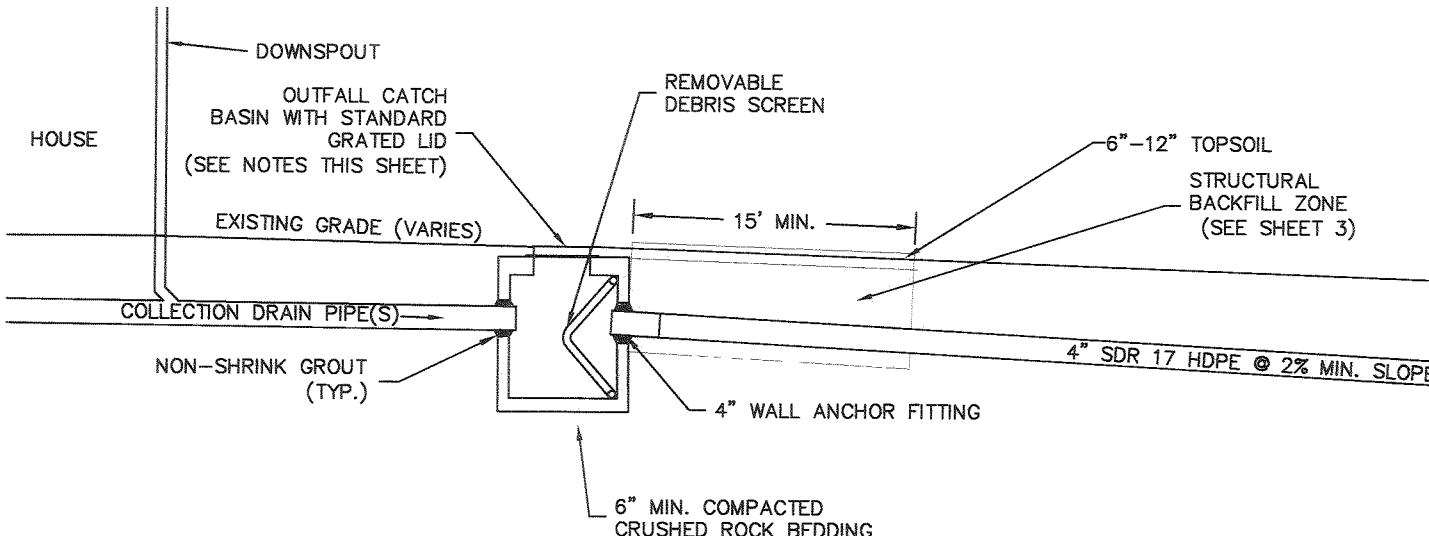
4/30/09  
DATE

TITLE:

**SMALL DIAMETER  
RESIDENTIAL HDPE  
STORMWATER OUTFALL**

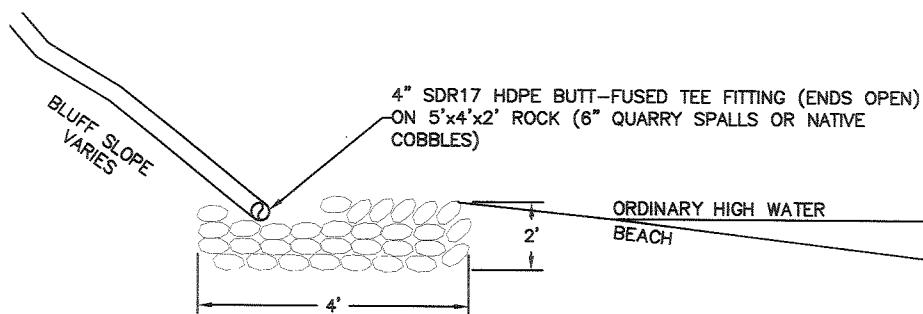
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SHEET  
1 OF 3



### **CATCH BASIN, ANCHOR BLOCK AND STRUCTURAL BACKFILL DETAIL**

NOT TO SCALE



### **OUTFALL DIFFUSER PAD DETAIL**

NOT TO SCALE

SUPERSEDES PREVIOUS  
VERSION OF SHEET 2 OF 3



**ABBREVIATIONS:**

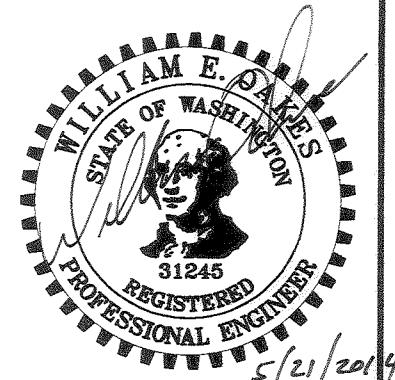
CB = CATCH BASIN  
HDPE = HIGH DENSITY POLYETHYLENE  
OHW = ORDINARY HIGH WATER  
SDR = STANDARD DIMENSION RATIO  
(PIPE WALL THICKNESS)  
SS = STAINLESS STEEL  
TYP = TYPICAL  
' = FEET  
" = INCHES

### **NOTES:**

1. CATCH BASIN SPECIFICATIONS:  
CONCRETE  
TYPE = BURLINGTON (OR EQUAL)  
18"W X 24"D X 30"H (OUTSIDE  
DIMENSIONS) TRAFFIC RATED  
METAL LID

2. REMOVABLE DEBRIS SCREEN  
SPECIFICATION:  
VINYL COATED, GALV.  $\frac{1}{2}$ " X  $\frac{1}{2}$ "  
SCREEN TO PREVENT DEBRIS  
FROM CLOGGING THE SYSTEM

FOLD AS NEEDED TO ALLOW  
LARGER SURFACE AREA. EDGES  
TO FIT FLUSH TO CATCH BASIN  
WALLS



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*William E. Oakes* 5/21/2014  
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COUNTY ENGINEER

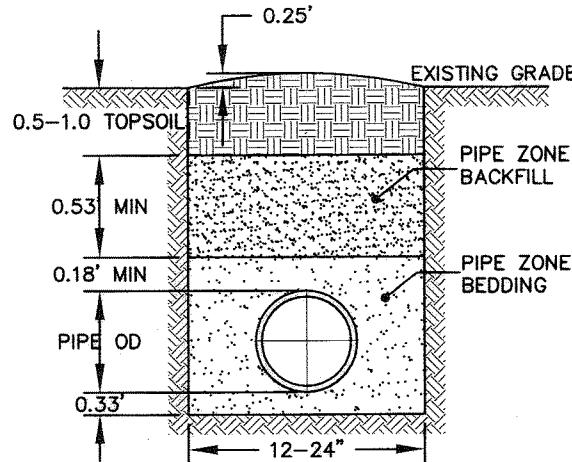
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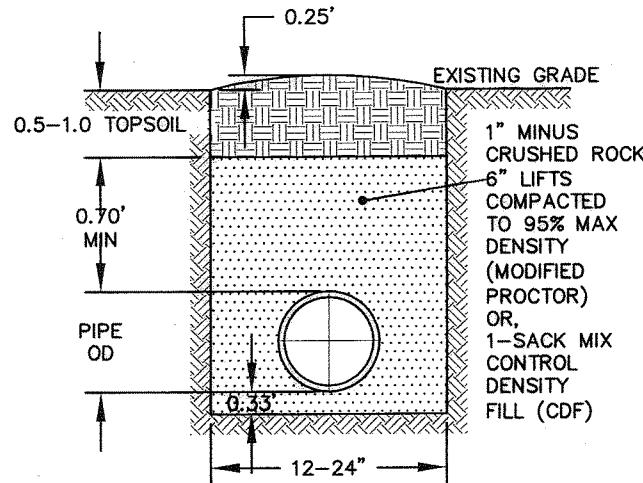
SHEET:

2 OF 3



**STANDARD BACKFILL CROSS SECTION**

NOT TO SCALE



**STRUCTURAL BACKFILL CROSS SECTION**

NOT TO SCALE



**811**  
Know what's **BELow**.  
CALL before you dig.



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4/30/09  
DATE

**TRENCH BACKFILL NOTES:**

(TRENCHES IN LANDSCAPED AREAS)

1. PIPE ZONE BACKFILL MATERIAL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS, OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL. PIPE ZONE BACKFILL SHALL BE PLACED IN LOOSE LAYERS AND COMPACTION TO 90 PERCENT MAXIMUM DENSITY.

2. PIPE ZONE BEDDING PER WSDOT/APWA 9-03.12(3):

GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL CONSIST OF CRUSHED, PROCESSED, OR NATURALLY OCCURRING GRANULAR MATERIAL. IT SHALL BE FREE FROM VARIOUS TYPES OF WOOD WASTE OR OBJECTIONABLE MATERIALS. IT SHALL HAVE SUCH CHARACTERISTICS OF SIZE AND SHAPE THAT IT WILL COMPACT AND SHALL MEET THE FOLLOWING SPECIFICATIONS FOR GRADING AND QUALITY:

SIEVE SIZE: PERCENT PASSING:

1 1/2" SQUARE	100
1" SQUARE	75-100
5/8" SQUARE	50-100
U.S. NO. 4	20-80
U.S. NO. 40	3-24
U.S. NO. 200	10.0
SAND EQUIVALENT	27 MIN.

ALL PERCENTAGES ARE BY WEIGHT.



TITLE:

**SMALL DIAMETER  
RESIDENTIAL HDPE  
STORMWATER OUTFALL**

SCALE:

NOT TO SCALE

SHEET:

3 OF 3