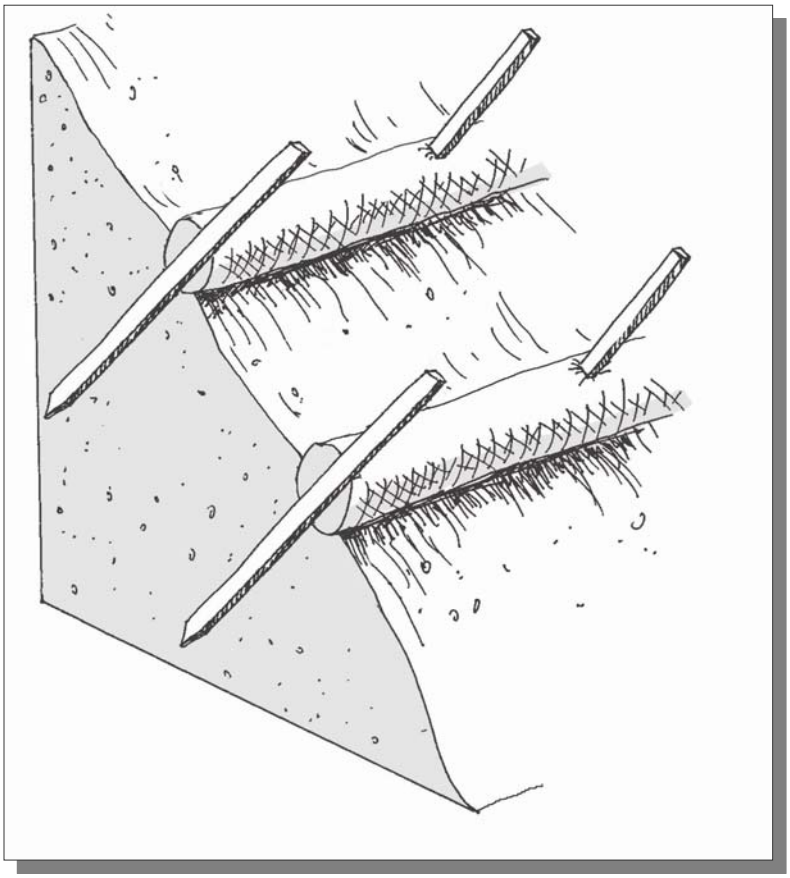
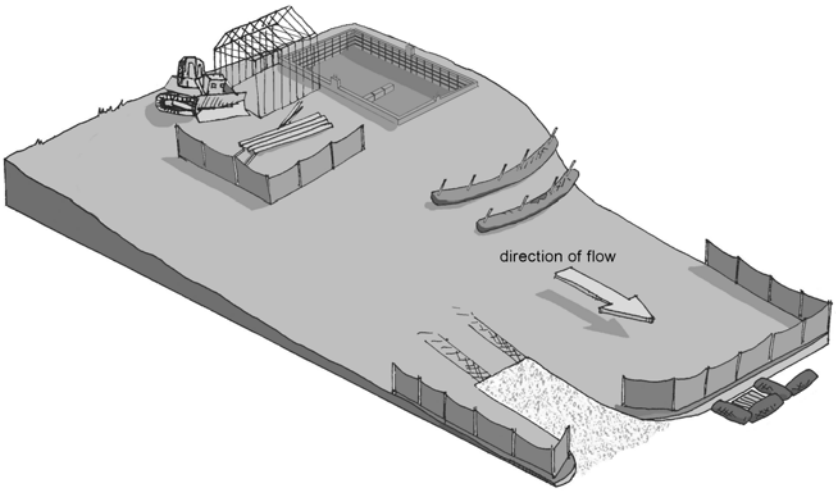
# BMP C235 – Straw Wattles for Erosion Control

Straw wattles prevent mud from flowing off the job site and into streams and rivers.



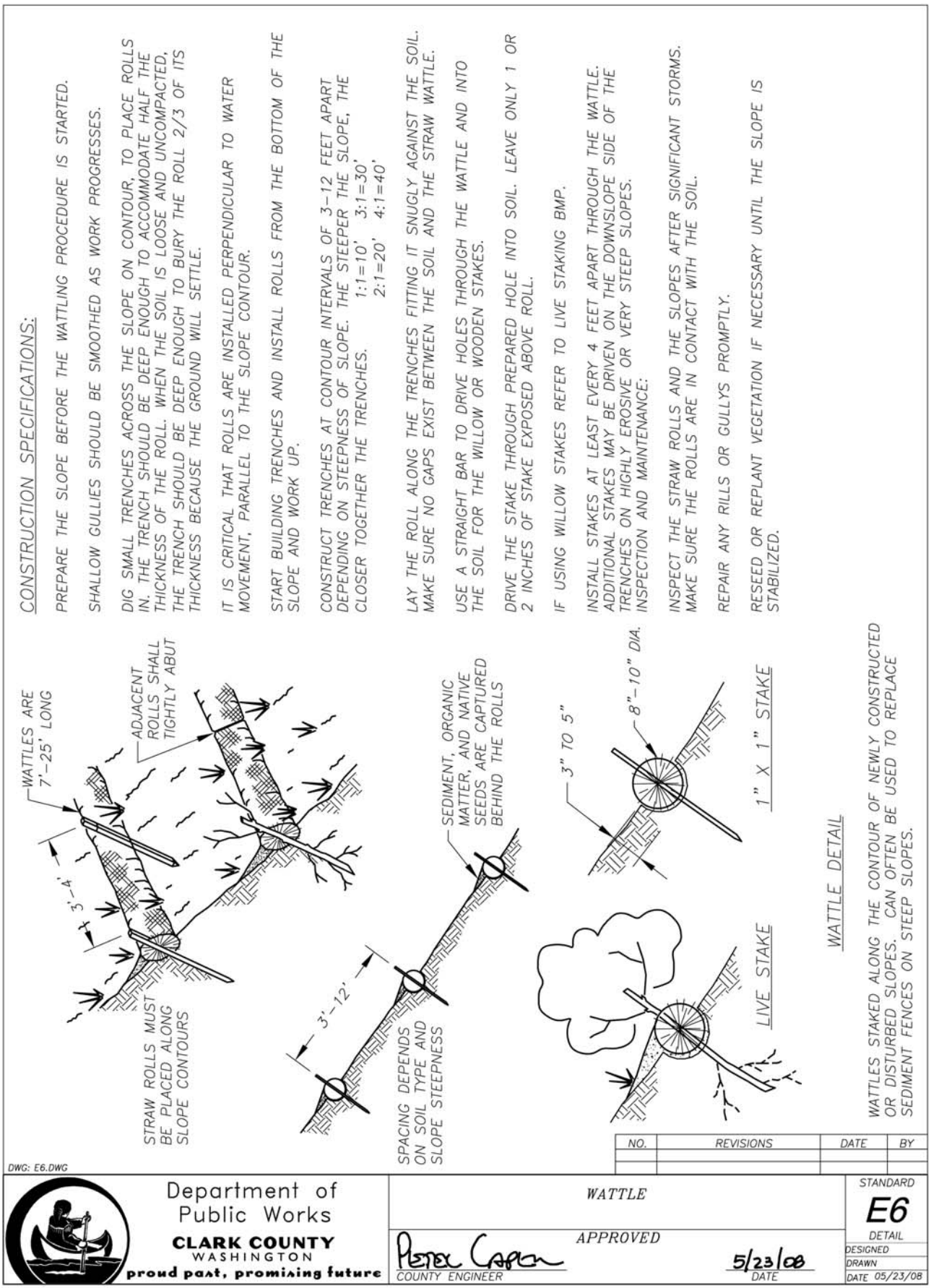
**Straw wattles**




**Revised 3/30/12**

Community Development
1300 Franklin Street, Vancouver, Washington
Phone: (360) 397-2375 Fax: (360) 397-2011
www.clark.wa.gov/development

For an alternate format, contact the Clark County ADA Compliance Office.
Phone: (360) 397-2322
Relay: 711 or (800) 833-6384
E-mail: ADA@clark.wa.gov


CONSTRUCTION SPECIFICATIONS:
PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED.
SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF 3–12 FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 1:1=10' 3:1=30' 2:1=20' 4:1=40'
LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
IF USING WILLOW STAKES REFER TO LIVE STAKING BMP.
INSTALL STAKES AT LEAST EVERY 4 FEET APART THROUGH THE WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.
INSPECTION AND MAINTENANCE:
INSPECT THE STRAW ROLLS AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
REPAIR ANY RILLS OR GULLYS PROMPTLY.
RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.
WATTLES ARE 7'–25' LONG
ADJACENT ROLLS SHALL TIGHTLY ABUT
3'–4'
STRAW ROLLS MUST BE PLACED ALONG SLOPE CONTOURS
3'–12'
SPACING DEPENDS ON SOIL TYPE AND SLOPE STEEPNESS
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE ROLLS
3" TO 5"
8"–10" DIA.
1" X 1" STAKE
LIVE STAKE
WATTLE DETAIL
WATTLES STAKED ALONG THE CONTOUR OF NEWLY CONSTRUCTED OR DISTURBED SLOPES. CAN OFTEN BE USED TO REPLACE SEDIMENT FENCES ON STEEP SLOPES.
NO. REVISIONS DATE BY
DWG: E6.DWG
Department of Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future
WATTLE
APPROVED
COUNTY ENGINEER
5/23/08
DATE
STANDARD
E6
DETAIL
DESIGNED
DRAWN
DATE 05/23/08

122