STRAW WATTLE DETAIL

CONSTRUCTION SPECIFICATIONS:
1. PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED.
2. SMOOTH SHALLOW GULLIES AS WORK PROGRESSES.
3. 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.
4. ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
5. BUILD TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
6. CONSTRUCT TRENCHES AT CONTINUOUS INTERVALS 3-12 FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 3'-10' 2'-20' 3'-20' 4'-30'
7. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE ROLL AND THE STRAW WATTLE.
8. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
9. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL, LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
10. IF USING WILLOW STAKES REFER TO LIVE STAKING BEST MANAGEMENT PRACTICES.
11. 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 ERODIBLE OR VERY STEEP SLOPES.
12. INSPECT THE STRAW ROLLS AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
13. REPAIR ANY ROLLS OR GULLIES PROMPTLY.
14. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL SLOPES ARE STABILIZED.

TURBIDITY CURTAIN

NOT TO SCALE

NOTES:
1. FABRIC IS 22 OUNCE PER SQUARE YARD
BEAVER DECEIVER MATERIALS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>DETAILS</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSTS</td>
<td>3 INCH DIAMETER, SCHEDULE 40</td>
<td>7 EACH</td>
</tr>
<tr>
<td>MESH PANELS</td>
<td>8 INCH x 8 INCH MESH, GALVANIZED, 6 FOOT TALL PANEL</td>
<td>218 SF</td>
</tr>
<tr>
<td>BOTTOM MESH PANEL</td>
<td>8 INCH x 8 INCH MESH, GALVANIZED</td>
<td>200 SF</td>
</tr>
</tbody>
</table>

ELEVATION

18° HOPE

WIRE MESH ON TOP TO PREVENT FALLING IN

4" CMP 1/2 PIPE RISER

BOTTOM LINING, 8"x8" GALVANIZED CONCRETE REINFORCING MESH OR SIMILAR SIZED CATTLE FENCING, TO BE SECURED INTO EARTH WITH DUCKBILL ANCHORS

3" SCH. 40 PIPE ~ TYP.

PLAN

BEAVER DECEIVER WITH RISER & TIDEGATE

NOT TO SCALE

REFERENCE NUMBER:
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
POND WATER MANAGEMENT
LOCATION: COWLITZ WLA - SPEARS UNIT
SHEET 9 OF 10 DATE: 6/24/2021

ENG. PROJECT NO. LS:R48:2021-1

DRAWN BY: A. JOHNSON
ARTICULATED CONCRETE MAT DETAIL

PLACE 4" OF 1 1/4" CLEAN COMPACTED CRUSHED ROCK

SUPPORT CABLE

ARTICULATED CONCRETE MAT ~ TYP

LOOP SS ANCHOR CABLE THROUGH SUPPORT CABLES, DRIVE ANCHORS UNTIL CABLE IS TIGHT.

MRA MANTARRAY ANCHOR WITHOUT THREADED CONNECTOR

END OF ARTICULATED CONCRETE MAT ANCHORING DETAIL

NOTE:
END MAT CAN BE VARIOUS WIDTHS. ADJUST ANCHOR CABLE LENGTH TO SIZE OF ARTICULATED CONCRETE MAT.

12" HOPE PIPE

WRAP SS CABLE AROUND PIPE

MRA MANTARRAY ANCHOR WITHOUT THREADED CONNECTOR

DRIVE ANCHOR MIN 36" DEPTH ~ TYP

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