

NOTES:

1. USE FOR DRAINAGE AREAS NOT EXCEEDING 5 (FIVE) ACRES.
2. EARTH BERM SHALL BE STABILIZED W/SEEDING ACCORDING TO CITY SPECIFICATIONS.
- ① 3. MINIMUM 3 POROUS BAFFLES REQUIRED. IF LESS THAN 20' IN LENGTH, MAY USE 2 BAFFLES.
- ④ 4. MINIMUM SURFACE AREA REQUIRED IS 435 SQ FT PER CFS Q10.
- ⑤ 5. REFER TO NCDENR PLANNING AND DESIGN MANUAL SECTION 6.60 FOR ADDITIONAL CONSTRUCTION SPECIFICATIONS.

DESIGN OF SPILLWAYS

DRAINAGE AREA (ACRES)	WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

DIMENSIONS SHOWN ARE MINIMUM

① MAINTENANCE

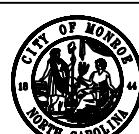
INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT  $\frac{1}{2}$  INCH OR GREATER RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

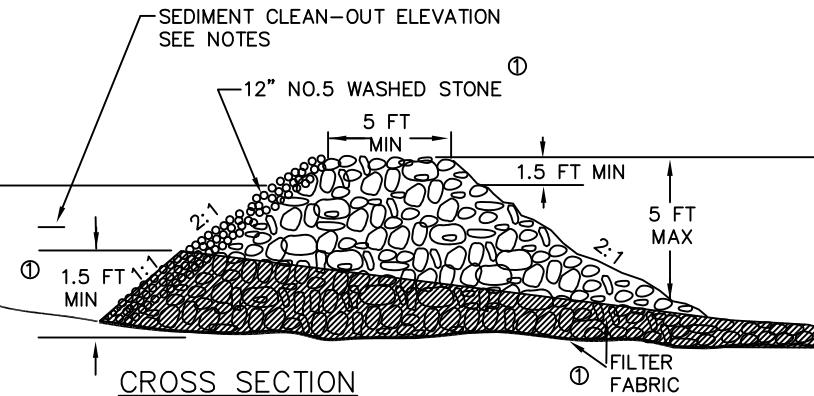
AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

REFERENCE: NCDENR PLANNING AND DESIGN MANUAL, JUNE 2006

REVISIONS		
NO.	DATE	DESCRIPTION
1	05/08	UPDATE PER NC DENR



**TEMPORARY SEDIMENT TRAP**



GENERAL NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEANED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT.
2. THE POOL AREA SHALL BE CLEARED.
3. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE BEING CONSTRUCTED.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
5. THE TRAP SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
7. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
8. IF SEDIMENT TRAP IS IN USE 30 DAYS OR LONGER, EMBANKMENTS SHOULD BE SEEDED OR OTHERWISE PROPERLY STABILIZED.
9. STORAGE AREA SHOWN RECTANGULAR FOR ILLUSTRATIVE PURPOSES ONLY. MAY BE CONSTRUCTED IN ANY SHAPE AS LONG AS THE REQUIRED STORAGE IS PROVIDED. REQUIRED STORAGE = 3600 C.F. PER DENUDED ACRE.
10. LENGTH OF STONE OUTLET SHOULD NOT BE LESS THAN 10 FT.
11. WHENEVER TOPOGRAPHY ALLOWS, BASIN LENGTH SHOULD BE 2 X WIDTH TO ALLOW FOR SETTLING, BAFFLES MUST BE INSTALLED IN BASINS WHERE LENGTH IS LESS THAN TWICE THE WIDTH.

**CITY OF MONROE**  
UNION COUNTY, NORTH CAROLINA  
PREPARED BY: ENGINEERING DEPARTMENT

FILE: 1:/Maps-Details/Detail Manual/Details  
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