**DESIGN CRITERIA**

**TEMPORARY SEDIMENT BASIN**
- *Riser/Barrel Pipe*:
  - Minimum Depth: 2.1 feet
  - Duration: 24 hours
  - Minimum Area: 150 cubic feet per acre of disturbed area

**SEDIMENT CONTROL**
- Minimum Initial Depth: 2 feet
- Minimum Initial Area: 300 square feet
- Minimum Time: 3 years

**OUTLET ZONE 25% OF SURFACE AREA**
- Extend baffles up sides as flow around the ends.

**EMERGENCY OUTLET ZONE**
- 25% of surface area

**STABLE TRANSITION REQUIRED TO THE BASE OF THE SLOPE**
- 100 cubic feet per linear foot of downstream toe

**INLET ZONE 25% OF SURFACE AREA**
- Point of downstream toe

**PERSPECTIVE VIEW**
- Skimmer attached to bottom of riser
- Support post 24" into bottom of sides
- Support rope to prevent sagging
- 4" x 4" support post
- Corrugated or jute, trenched into bottom and side

**DESIGN LIFE OF FABRIC**
- 6-12 months

**STONE ENERGY DISSIPATOR**
- 9" - 16" stone/w/fabric

**SUMMARY**
- Primary SPIL area: 100 acres max.
- Minimum Surface Area: 300 square feet
- Minimum inflow volume: 4,355 cubic feet per acre of disturbed area

**NOTES**
- Locate sediment inflow to the basin away from the dam to prevent short circuits
- Basins must be stabilized immediately from inflows to outlets
- Inspect approval upon construction and prior to site

**SEDIMENT BASIN**
- Primary SPIL area: 100 acres max.
- Minimum inflow volume: 4,355 cubic feet
- Minimum surface area: 300 square feet

**DESIGN CRITERIA**
- Use 2 baffles
- Note: Basins less than 20' in length may change water levels and design
- See NC DEQ erosion and sediment control planning and design manual

**STANDARD DETAIL**
- **SW-20.20**

**DATE**
- 8/1/18