

DESIGN CRITERIA

SUMMARY:

PRIMARY SPILLWAY:
 MAXIMUM DRAINAGE AREA:
 MINIMUM SEDIMENT STORAGE VOLUME:
 MINIMUM SURFACE AREA:
 MINIMUM L/W RATIO:
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 MINIMUM DEPTH:
 DEWATERING MECHANISM:
 MINIMUM DEWATERING TIME:
 DESIGN LIFE:
 DAM HEIGHT:

TEMPORARY SEDIMENT BASIN

RISER / BARREL PIPE
 100 ACRES MAX.
 1800 CUBIC FEET PER ACRE OF DISTURBED AREA
 435 SQUARE FEET PER CFS OF Q25 PEAK INFLOW
 2:1
 6:1
 2 FEET
 SKIMMER ATTACHED TO BOTTOM OF RISER
 24 HOURS
 3 MINIMUM
 3 YEARS MAX
 15 FEET OR LESS FROM TOP OF DAM TO LOW
 POINT OF DOWNSTREAM TOE.

SEE NC DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

NOTE: BASINS LESS THAN 20' IN LENGTH MAY USE 2 BAFFLES.

5' CREST WIDTH

9"-16" STONE W/FABRIC

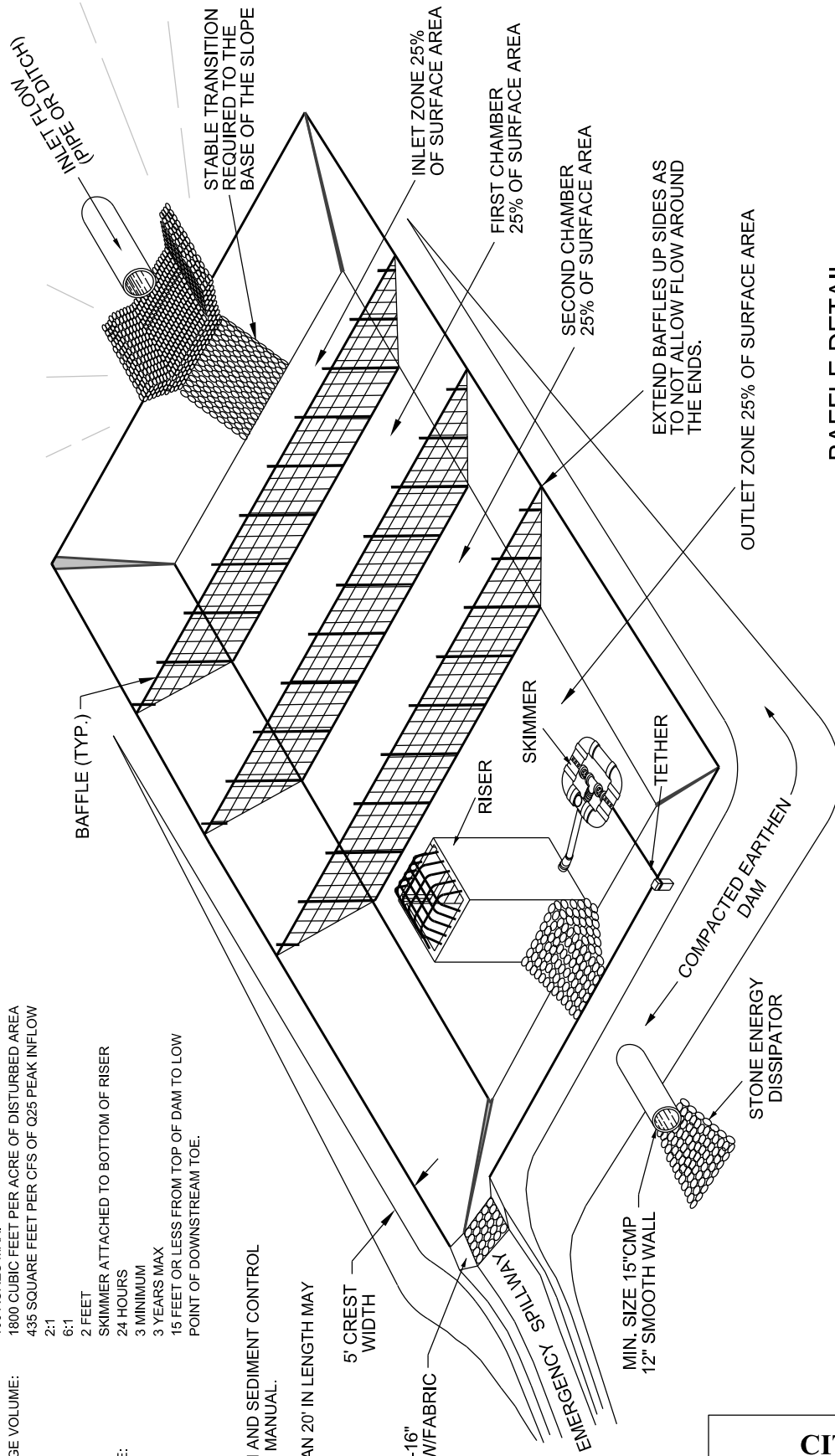
EMERGENCY SPILLWAY

MIN. SIZE 15" CMP
12" SMOOTH WALL

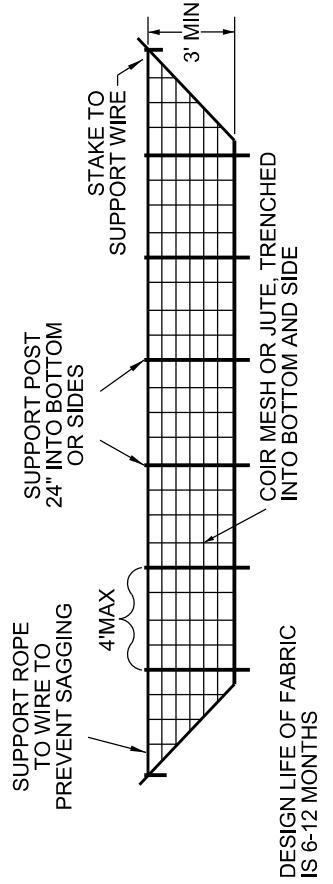
STONE ENERGY DISSIPATOR

COMPACTED EARTHEN DAM

PERSPECTIVE VIEW



BAFFLE DETAIL



- NOTES:
1. LOCATE SEDIMENT INFLOW TO THE BASIN AWAY FROM THE DAM TO PREVENT SHORT CIRCUITS FROM INLETS TO OUTLETS
 2. BASINS MUST BE STABILIZED IMMEDIATELY UPON CONSTRUCTION AND PRIOR TO SITE INSPECTION APPROVAL

CITY OF RALEIGH STANDARD DETAIL

REVISIONS

DATE: 8/2020

NOT TO SCALE

SEDIMENT BASIN

SW-20.20