

## BASE OF DITCH Z = THE DISTANCE SUCH THAT POINTS (X) AND (Y) ARE OF EQUAL ELEVATION POSSIBLE. FOR SITES WHICH DRAIN TO EXCEPTIONAL TENNESSEE WATERS OR SEDIMENT-IMPAIRED STREAMS, THE WEIR SHALL BE SIZED TO CONTAIN THE 5-YEAR, 24-HOUR (E) DIAPHRAGMS SEPARATE INDIVIDUAL GABION CELLS. (F) BASKET-TO-BASKET CONNECTIONS SHALL BE AS DIRECTED (G) THE DRAINAGE AREA FOR THE GABION CHECK DAM SHALL BE (H) SEE STANDARD DRAWINGS EC-STR-56, EC-STR-57, EC-STR-58, AND EC-STR-59 FOR ADDITIONAL DETAILS AND GENERAL NOTES

SHEET, REVISED NOTES, MISC. EDITS TO DRAWING. ☐ REV. 4-1-08: REVISED GENERAL -12" OR 18" TALL NOTES, TABLES, MISC. DRAFTING GABION BASKET EDITS. OR NATURAL GROUND ☐ REV. 8-1-12: MINOR EDITS TO HEIGHT BASED ON AVAILABLE WEIR CAPACITY FLOW LINE PER STD. DWG\_EC-STR-56 OF WEIR (12" MIN.) (D) TERMINATION-POINT FOR FABRIC B FLOW LINE OF MACHINED RIPRAP PROPOSED DITCH (CLASS A-1) 36" 3" MIN. INSET DEPTH OF GABIONS 12", 18", OR 36" BELOW FLOW LINE GABION BASKET HEIGHT DEPENDENT ON DITCH DESIGN -GEOTEXTILE FABRIC (TYPE III) SECTION A-A SHALL EXTEND BEYOND TOE OF GEOTEXTILE FABRIC (TYPE III) -MACHINED RIPRAP SLOPE 3'. AT WEIR SHALL BE PLACED UNDER ENTIRE WIDTH OF CHECK DAM SEE SPACING TABLE FLOW

GABION CHECK DAM SPACING AT CENTER OF WEIR

GABION PT. X

CHECK DAM

| MAXIMUM GABION CHECK DAM SPACING TABLE (IN FEET) |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| GROUND SLOPE,<br>S (FT/FT)                       | 12-INCH BASKETS | 18-INCH BASKETS | 36-INCH BASKETS |
| 0.010  | 72              | 122             | 272             |
| 0.015  | 47              | 81              | 181             |
| 0.020  | 35              | 60              | 135             |
| 0.030  | 22              | 39              | 89              |
| 0.040  | 16              | 29              | 66              |
| 0.050  | 12              | 22              | 52              |
| 0.060  | 10              | 18              | 43              |
| 0.070  | N/A             | 15              | 37              |
| 0.080  | N/A             | 13              | 32              |
| 0.090  | N/A             | 11              | 28              |
| 0.100  | N/A             | 10              | 25              |
| 0.110  | N/A             | N/A             | 22              |
| 0.120  | N/A             | N/A             | 20              |
| 0.130  | N/A             | N/A             | 19              |
| 0.140  | N/A             | N/A             | 17              |
| 0.150  | N/A             | N/A             | 16              |
| 0.200  | N/A             | N/A             | 11              |

PT. Y

GABION CHECK DAM - FLOW LINE OF WEIR

HEIGHT OF GABION BASKET

<u></u>3″ MIN.

INSET DEPTH

(12", 18", OR 36")

☐ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

☐ REV. 4-15-06: REFORMATTED

DRAWING AND GENERAL NOTES.

NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

GABION CHECK DAM

EROSION CONTROL PLAN LEGEND:

RESOURCES.

STAGGERED.

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D SIZE WEIR TO CONTAIN THE 2-YEAR, 24-HOUR STORM.

(A) GABION CHECK DAMS ARE USED FOR VELOCITY REDUCTION

NOT BE USED IN STREAMS OR OTHER NATURAL WATER

B) HEIGHT OF UPPER GABION SHALL BE OF EQUAL OR LESSER

C VERTICAL JOINTS OF GABION BASKETS SHALL BE

AND EROSION PREVENTION IN AREAS WHERE CONCENTRATED

FLOWS EXIST. GABION CHECK DAMS ARE NOT TO BE USED

SEDIMENT TRAPPING DEVICE. GABION CHECK DAMS SHALL

HEIGHT THAN LOWER GABION AND SHALL NOT EXCEED 18".

CONTAIN DESIGN DISCHARGE WITHIN WEIR STRUCTURE WHERE

FOR SEDIMENT CONTROL AND SHOULD NOT BE CONSIDERED A

GABION CHECK DAM

GABION CHECK DAM GENERAL NOTES

STORM.

35 ACRES OR LESS.

NOT SHOWN ON THIS DRAWING.

7-29-04 EC-STR-55