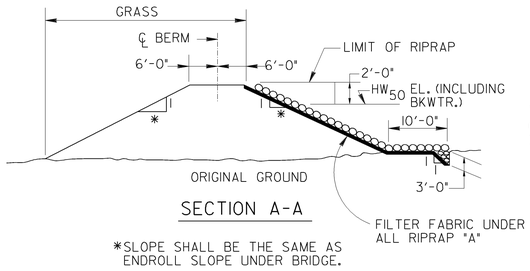
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012683	102	110

NOTE: WHEN SPUR DIKE IS CONSTRUCTED SEPARATELY FROM BRIDGE, RIPRAP "A" SHALL BE PLACED BY GRADING CONTRACTOR AND RIPRAP "B" WILL BE PLACED IN THE FUTURE BY THE BRIDGE CONTRACTOR. WHEN GRADING AND BRIDGE IS LET UNDER SAME CONTRACT THEN THE RESPONSIBILITY OF PLACING RIPRAP "A" AND "B" WILL BE THE PRIME CONTRACTOR'S. FILTER FABRIC SHALL BE PLACED BY THE CONTRACTOR RESPONSIBLE FOR PLACING RIPRAP "A".

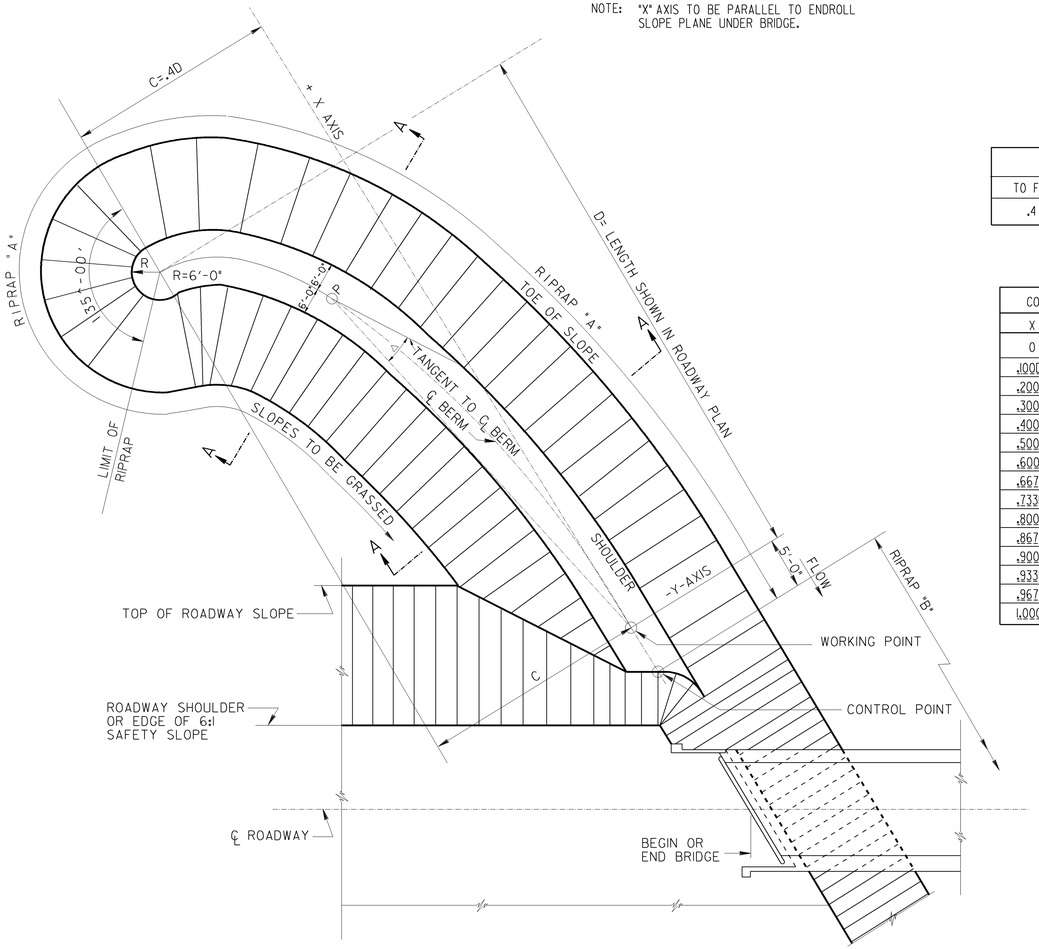
HW_{50} = HIGHWATER 50 YEAR FLOOD



SECTION A-A

*SLOPE SHALL BE THE SAME AS ENDROLL SLOPE UNDER BRIDGE.

NOTE: "X" AXIS TO BE PARALLEL TO ENDROLL SLOPE PLANE UNDER BRIDGE.



EQUATIONS	
TO FIND "Y" COORDINATE	TO FIND Δ
$.4\left(D-\sqrt{D^2-X^2}\right)$	+ ARCTAN $.4X/\sqrt{D^2-X^2}$ - ARCTAN Y/X

COORDINATES		ANGLE
X	Y	Δ
0	0	0°-0'
.100D	.005C	1°-09'
.200D	.020C	2°-21'
.300D	.046C	3°-39'
.400D	.083C	5°-08'
.500D	.134C	6°-53'
.600D	.200C	9°-06'
.667D	.255C	11°-00'
.733D	.320C	13°-26'
.800D	.400C	16°-46'
.867D	.501C	21°-46'
.900D	.564C	25°-29'
.933D	.641C	30°-46'
.967D	.744C	39°-23'
1.000D	1.000C	68°-12'

NOTE: TO SET TOP AND BOTTOM OF SLOPE, SET ON ANY POINT P ON C BERM. SIGHT BACK ON WORKING POINT AND TURN ANGLE Δ TO BECOME TANGENT TO ℄ BERM. TOP AND BOTTOM OF SLOPE ARE SET NORMAL TO TANGENT.

RELEASED FOR CONSTRUCTION 2-19-2016

GENERAL NOTES

SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.

FILTER FABRIC SHALL BE PLASTIC WOVEN FOR USE BENEATH RIPRAP PER SECTION 881.

NOTE:
STANDARD No 9046 A REPLACES STANDARD No 9046.

DATE | REVISION | BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

EARTH SPUR DIKE

NO SCALE — REDRAWN SEPT., 1999

DESIGNED
DRAWN
TRACED
CHECKED

(SUBMITTED) James H. Kennel — STATE ROADWAY & AIRPORT DESIGN ENGINEER
(APPROVED) Paul L. Liddy — CHIEF ENGINEER

NUMBER 9046A