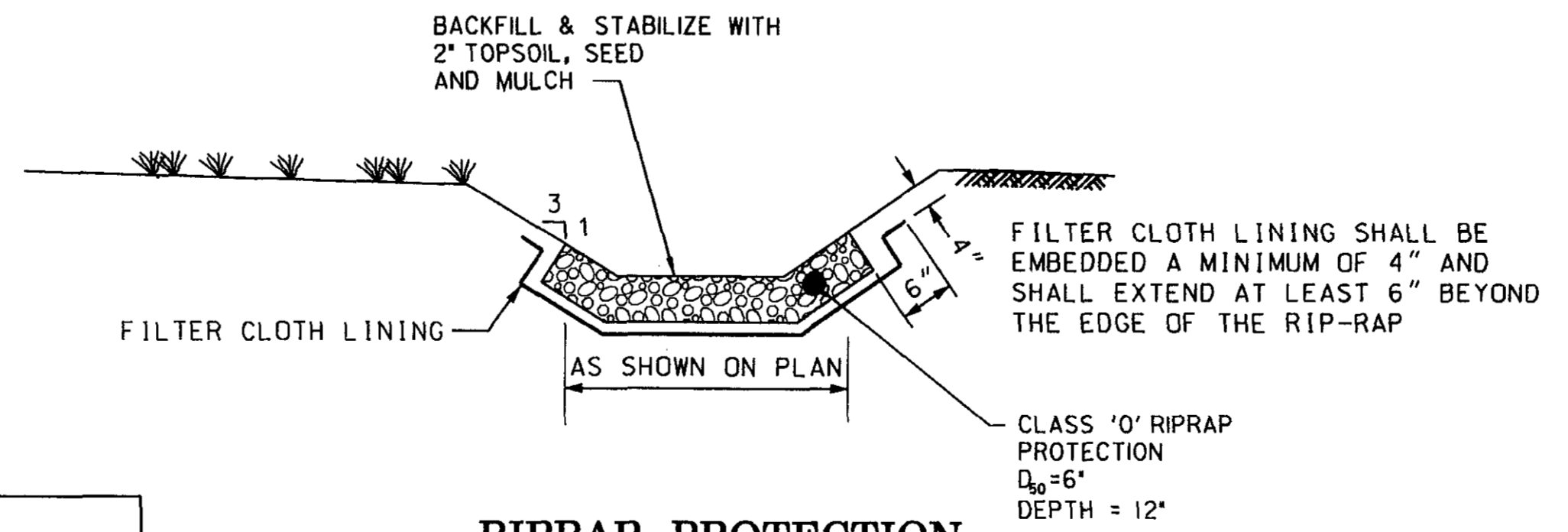


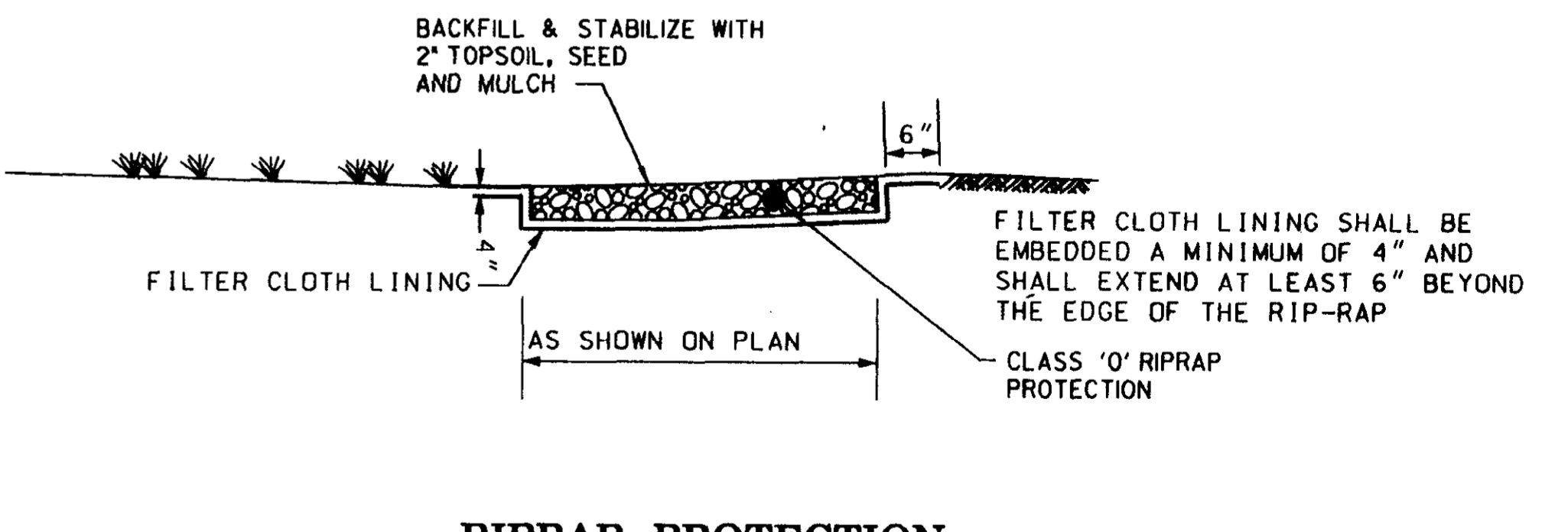
6" PERFORATED UNDERDRAIN		
NO.	TYPE	LENGTH
PRI I-1	6" PERFORATED WRAPPED IN GEOTEXTILE	33'

RIPRAP OUTFALL PROTECTION						
NO.	NORTHING	EASTING	TYPE	QUANTITY	LENGTH	WIDTH
RRP 1	559,378.92	1,342,591.76	CLASS '0'	13 S.Y.	15 FT.	13 FT.
RRP 2	559,414.03	1,342,634.95	CLASS '0'	37 S.Y.	31 FT.	10 FT.

DRAINAGE STRUCTURE SCHEDULE								
NO.	NORTHING	EASTING	TYPE	STD. NO.	INV. IN	INV. OUT	TOP OF GRATE	DEPTH
PRI I-1	559,406.56	1,342,620.60	OPEN END GRATE PRECAST	D-4.36	373.57	373.44	378.50	5.06'
I-1	559,399.26	1,342,501.51	NEW OPEN END GRATE	GRATE	369.65	369.11	373.00	3.89'



RIPRAP PROTECTION
TYPICAL SECTION A-A



RIPRAP PROTECTION
TYPICAL SECTION B-B

DRAWER 42

FILE: 03/20/09/0404-038-Rev01-Chain-Way-Drain-CD/01/01/01-01.dwg DATE: 11/2/2009 9:32 AM

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
DIRECTOR OF PUBLIC WORKS

[Signature] 11/10/09
CHIEF, BUREAU OF ENGINEERING

[Signature] 11-12-09
CHIEF, BUREAU OF HIGHWAYS

JM/T
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
72 Loveton Circle Baltimore, Maryland 21152-0949



DES:	BJM				
DRN:	JMB				
CHK:	CWH				
DATE:	10/09	BY	NO.		DATE

PS-01

DRAINAGE IMPROVEMENTS

WATCH CHAIN WAY - DRAINAGE STUDY

CAPITAL PROJECT No. D118-98

SCALE	1" = 30'
SHEET	1 OF 1