

APPROACH CULVERTS				
DIA	X	Y	Surface area to be protected	ECB
In	Ft	Ft	SF	SY
15	9.0	20.0	176.0	20
18	9.5	20.7	190.7	22
21	9.5	21.0	190.9	22
24	10.5	21.6	214.1	24
27	11.0	22.0	226.3	25
30	11.6	22.5	241.5	27
36	12.7	23.3	268.8	30
42	13.3	23.3	279.7	31
48	13.8	24.0	293.2	33
54	14.5	23.4	300.6	34
60	15.0	23.0	307.5	35
66	15.6	24.0	325.6	37
72	16.2	24.5	340.6	38

Note: Quantities based on 8:1 slope.

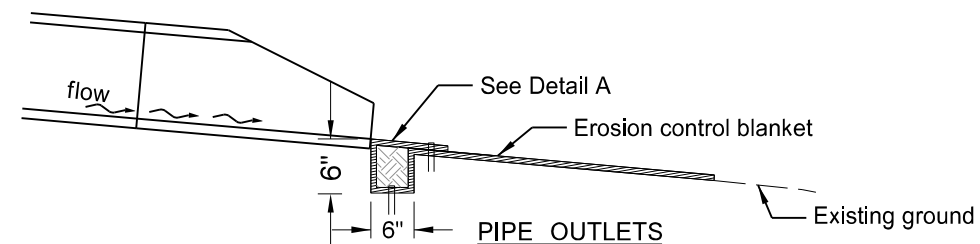
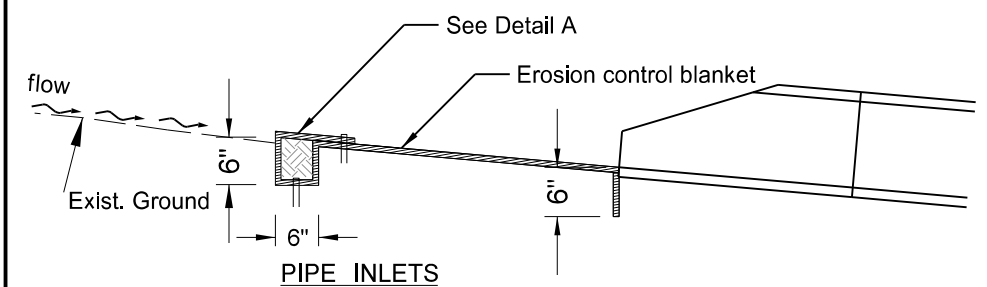
CENTERLINE CULVERTS									
DIA	X	Y	Surface area to be protected	ECB	DIA	X	Y	Surface area to be protected	ECB
24	10.5	19.6	193.1	22	24	10.5	17.6	172.1	20
27	11.0	20.0	204.3	23	27	11.0	18.0	182.3	21
30	11.6	20.5	218.3	25	30	11.6	18.5	195.1	22
36	12.7	21.2	242.1	27	36	12.7	19.2	216.7	24
42	13.3	21.2	251.8	28	42	13.3	19.2	225.2	25
48	13.8	22.0	265.6	30	48	13.8	20.0	238.0	27
54	14.5	21.5	273.7	31	54	14.5	19.5	244.7	28
60	15.0	21.0	278.3	31	60	15.0	19.0	248.3	28
66	15.6	22.0	295.7	33	66	15.6	20.0	264.5	30
72	16.2	22.5	309.2	35	72	16.2	20.5	276.8	31

Note: Quantities based on 6:1 slope. Note: Quantities based on 4:1 slope.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	PROJECT NUMBER	SEC	PAGE

Erosion Control Blanket (ECB)								
Location to be Protected Station	Culvert Type Appr/CL	Pipe Diam (Inch)	No	Unit Quantity (SY)	Total Quantity			
					Type 1 (SY)	Type 2 (SY)	Type 3 (SY)	Type 4 (SY)
2+00 Rt	Appr	xx	x	xx	00	00	00	00
3+00 Rt	CL	xx	x	xx	00	00	00	00
5+20 Lt	CL	xx	x	xx	00	00	00	00
7+50 Lt	Appr	xx	x	xx	00	00	00	00
10+00 Rt	CL	xx	x	xx	00	00	00	00
12+00 Lt	CL	xx	x	xx	00	00	00	00
15+75 Rt	CL	xx	x	xx	00	00	00	00
21+26 Rt	CL	xx	x	xx	00	00	00	00
35+02 Lt	Appr	xx	x	xx	00	00	00	00
40+25 Lt	Appr	xx	x	xx	00	00	00	00
50+26 Rt	Appr	xx	x	xx	00	00	00	00
60+75 Rt	CL	xx	x	xx	00	00	00	00
75+29 Lt	CL	xx	x	xx	00	00	00	00
82+50 Lt	CL	xx	x	xx	00	00	00	00
91+65 Rt	Appr	xx	x	xx	00	00	00	00
91+65 Lt	Appr	xx	x	xx	00	00	00	00
101+26 Rt	Appr	xx	x	xx	00	00	00	00
105+33 Lt	Appr	xx	x	xx	00	00	00	00
130+56 Rt	CL	xx	x	xx	00	00	00	00
175+23 Lt	CL	xx	x	xx	00	00	00	00
Total (SYs)					000	000	000	000

NOTE: Tuck the ECB a minimum of 6" into the embankment (against the flared end section) around the opening of the flared end section.



Erosion Control at Culvert Flared End Sections

Project Description

Project Location

This document is preliminary and not for construction or implementation purposes.