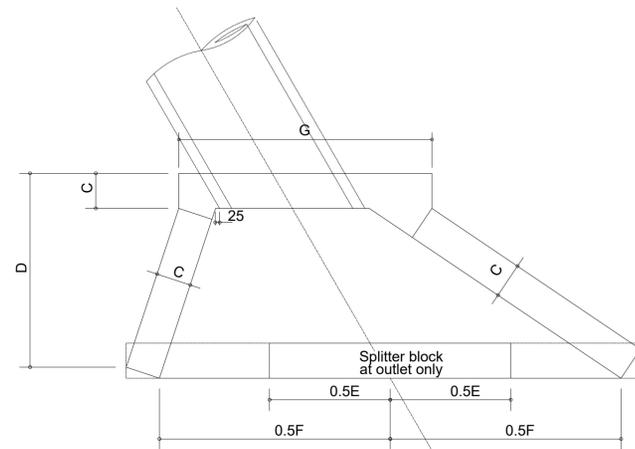
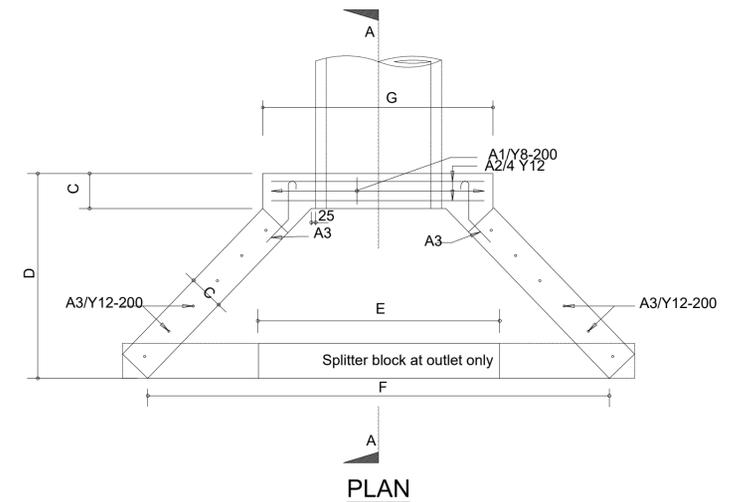


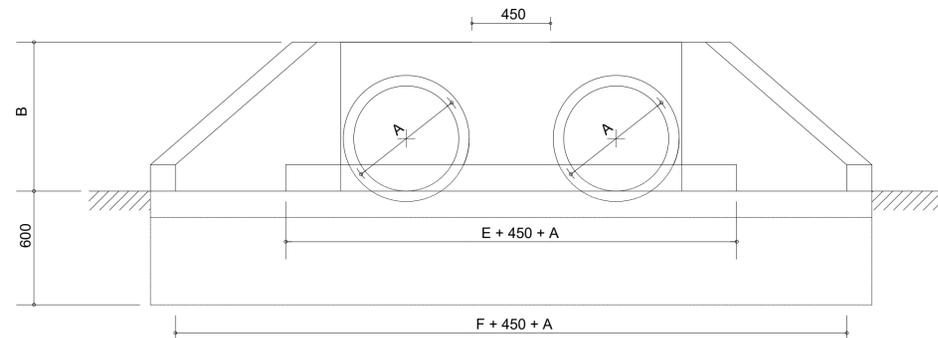
SECTION A - A



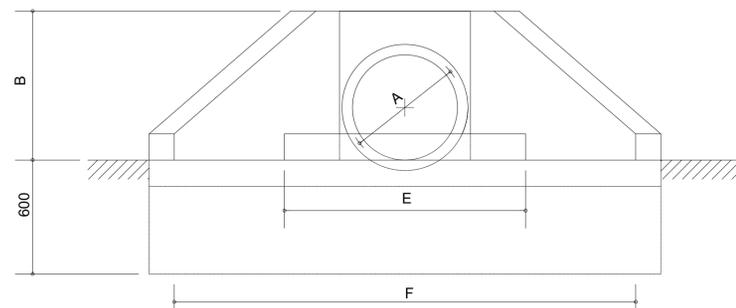
SKEW PIPE CULVERT



PLAN



FRONT ELEVATION - MULTIPLE PIPES



FRONT ELEVATION - SINGLE PIPE

NOTES:

1. Splitter block and pitching to be provided at all outlets where erosion is likely to occur. It is not required at inlets.
2. Splitter block may be omitted if discharge velocity is less than 0.9m/s.
3. Cut off walls may be omitted if structure is founded on rock.
4. For multiple pipe culverts increase dimensions "E" and "F" by  $(n-1)(A+450)$ mm  
Where n = number of pipes  
A = nominal diameter of pipes
5. Pipes to be cut flush with headwall.
6. For skew pipe culverts the headwall shall be parallel to the centre line of the road.
7. If corrugated metal pipes are used 4 x 20mm x 150mm long galvanized anchor bolts in the hollows of the corrugation are to be used.
8. All concrete to be 20MPa.
9. Square mesh fabric (Reference S.M.F 193 ) to be placed in all Apron slabs.

Item	Number	Diameter	CODE	Cut Length	Bending
A1	varies	Y8	60	600	150 110
A2	4	Y12	20	varies	
A3	varies	Y12	32	500	

Nominal Diameter	Dimensions						
	A	B	C	D	E	F	G
450	750	150	940	1 160	2 080	1 160	
600	900	150	1 170	1 380	2 640	1 380	
750	1 050	150	1 400	1 600	3 210	1 600	
900	1 200	230	1 640	1 830	3 780	1 830	
1 050	1 350	230	1 870	2 050	4 350	2 050	
1 200	1 500	230	2 100	2 270	4 910	2 270	