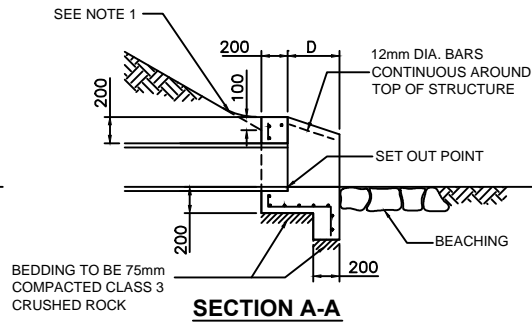
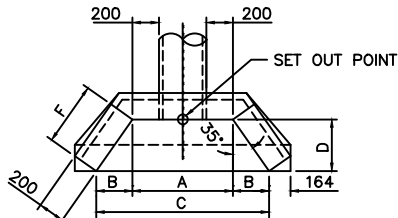


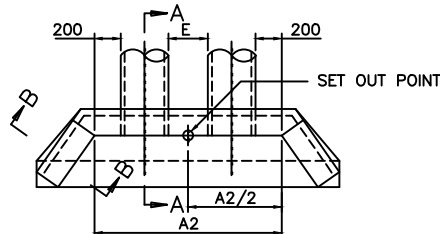
**ELEVATION**



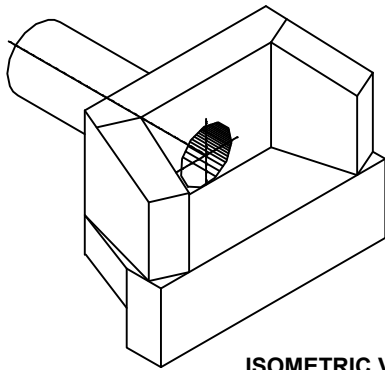
**SECTION A-A**



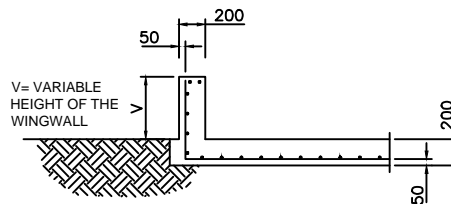
**SINGLE PIPE CULVERT PLAN**



**MULTIPLE PIPE CULVERT PLAN**



**ISOMETRIC VIEW**



**SECTION B-B**

1. BECAUSE THE RELATION OF BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL FOR THE SAFETY OF THE MOTORIST THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION
2. REINFORCEMENT, SL82 UNLESS OTHERWISE SPECIFIED, SHALL BE CONTINUOUS AROUND CORNERS AND LOCATED AS SHOWN ON SECITONS A-A AND B-B. CLEAR COVER 50mm MIN. LAPS:FABRICS 300MIN. BARS 25 X (BAR DIA) MIN
3. DISTRIBUTION BARS 12mm DIA. AT 200mm CENTRES
4. ADDITIONAL FOR LARGEST CULVERTS ARE PLACED ADJECENT TO THE MESH
5. CONCRETE STRENGTH 30Mpa
6. EXPOSED EDGES SHALL HAVE 20 X 20mm CHAMFERS
7. COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15Mpa(1.5 TONNE VIBRATORY ROLLER OR 300 Kg VIBRATING PLATE

**DIMENSIONS**

NOM. PIPE DIA.	EXTER. PIPE DIA.#	A**	E	H	TYPE 1 *SLOPE AT 1.5:1				TYPE 2 *SLOPE AT 2:1				TYPE 3 *SLOPE AT 3:1			
					B	C	D	F	B	C	D	F	B	C	D	F
					300	362	762	300	531	138	1037	197	240	183	1129	262
375	445	845	300	610	221	1286	315	385	294	1433	420	513	441	1727	630	769
450	534	934	300	692	307	1547	438	535	409	1752	584	713	613	2161	876	1069
525	616	1016	300	775	394	1804	563	687	525	2066	750	916	788	2591	1125	1373

\*THEORETICAL SLOPE OF WINGWALL MEASURED AT RIGHT ANGLES TO THE ROADWAY

\*\* A2=A+E+EXTERNAL DIAMETER OF PIPE

#APPROXIMATE ONLY



**Macedon Ranges**  
Shire Council

**REINFORCED CONCRETE WINGWALL TYPES 1,2 & 3**  
Pipe culvert 300mm to 525mm Dia  
(Not To Scale)

DRAWN BY:  
C.B.

CHECKED : L.T

DATE:  
05.04.13

SD 030

REVISION	DATE	APPROVED
1.	10.6.2008	J.G.
2.	5.04.2013	L.T.
3.		