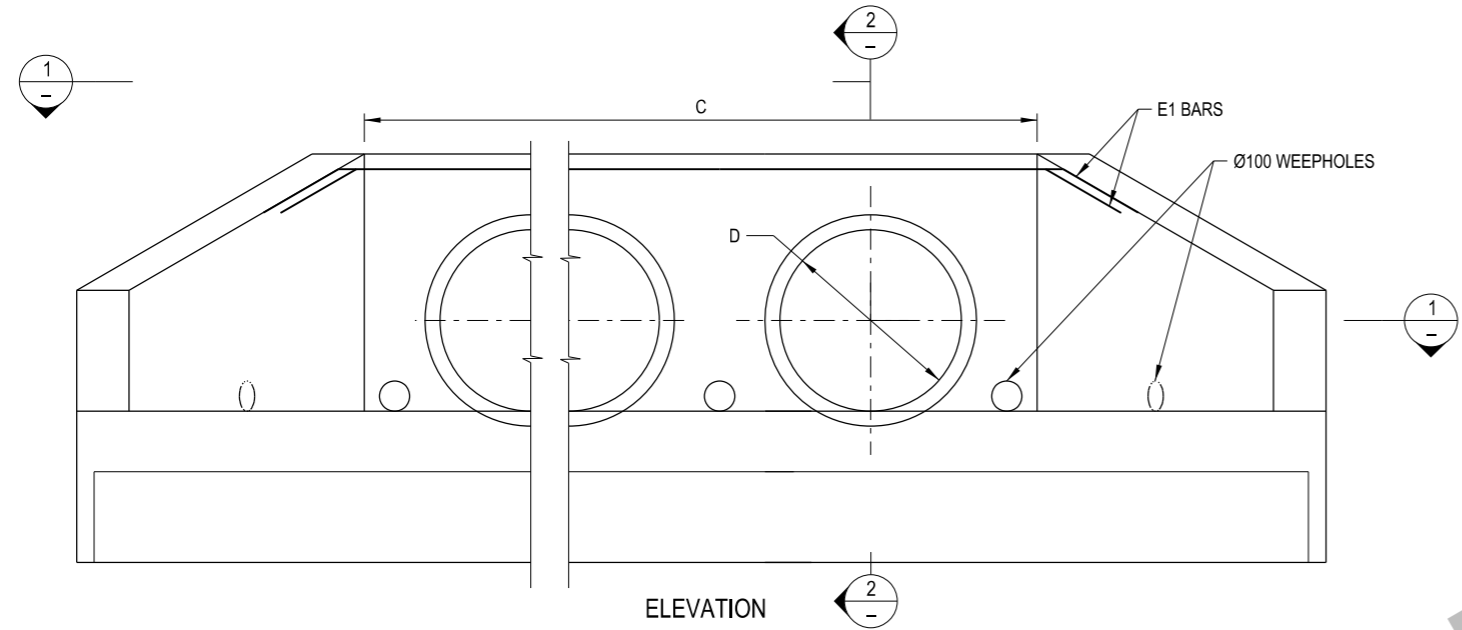
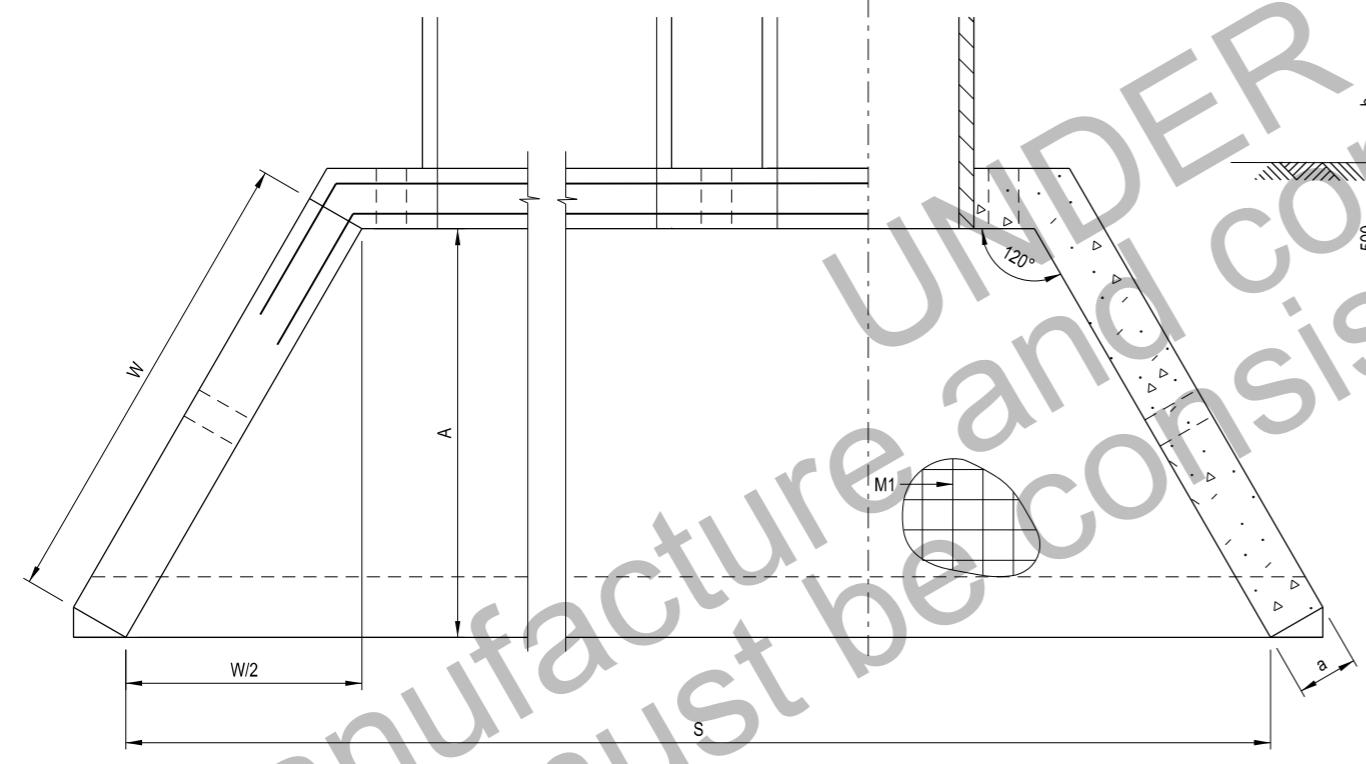


DIMENSIONS								
	D	300	375	450	525	600	750	900
D NOMINAL PIPE DIAMETER (mm)	300	375	450	525	600	750	900	
A APRON DEPTH (mm)	405	630	885	1 110	1 350	1 830	2 320	
C HEADWALL LENGTH (mm)	3 350	3 850	4 300	4 700	5 100	5 950	6 850	
S APRON WIDTH (mm)	3 820	4 580	5 320	5 980	6 660	8 060	9 530	
W WINGWALL LENGTH (mm)	470	730	1 020	1 280	1 560	2 110	2 680	
a (mm)	150	150	150	150	150	150	150	
b (mm)	300	300	300	300	400	400	400	
E1 BAR Ø12 mm	L1 (mm)	3 565	3 965	4 415	4 815	5 215	6 065	6 965
	L2 (mm)	200	200	200	200	600	600	600
M1 MESH	No. REQ (mm)	4	4	4	4	4	4	4
	LENGTH (mm)	15 860	17 460	19 260	20 860	25 660	29 060	32 660
STEEL REINFORCEMENT	MARK	SL81	SL81	SL81	SL81	SL81	SL81	SL81
	L1 (mm)	4 000	4 760	5 500	6 160	6 840	8 240	9 710
CONCRETE N25 (SEE NOTE 1)	L2 (mm)	745	970	1 225	1 450	1 690	2 210	2 660
	L3 (mm)	255	385	530	660	800	1 075	1 360
No. REQ	2	2	2	2	2	2	2	2
STEEL REINFORCEMENT (kg)	59.0	83.9	115.2	147.0	187.2	280.9	386.9	
CONCRETE N25 (SEE NOTE 1) (m³)	1.70	2.36	3.16	3.98	4.96	7.18	9.88	

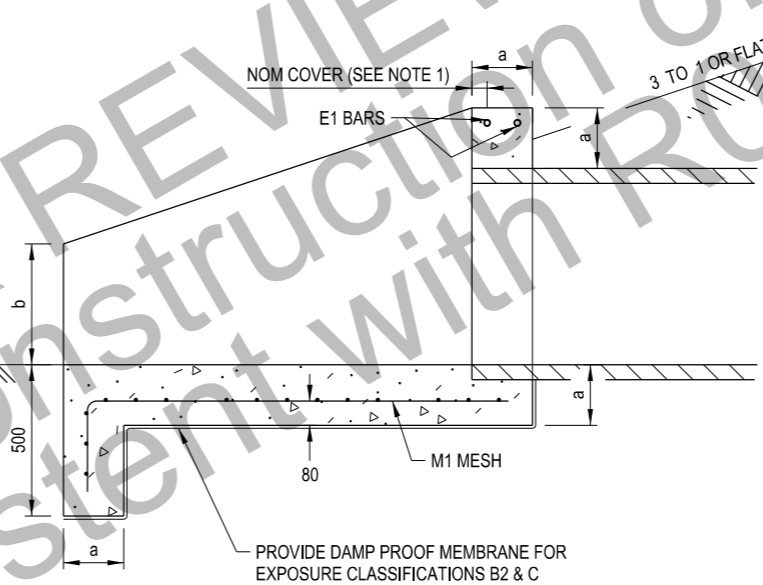


ELEVATION



PLAN

SECTION 1
NOT TO SCALE



SECTION 2
NOT TO SCALE

NOTES

1. CONCRETE STRENGTH GRADES SHOWN ARE FOR EXPOSURE CLASSIFICATION A2. REFER TO AS3600-2009, SECTION 4 FOR CONCRETE STRENGTH GRADE, COVER TO REINFORCEMENT AND FOR OTHER EXPOSURE CLASSIFICATIONS.
2. WEEPHOLES ARE TO BE PROVIDED AT 1800 CENTRES (MAXIMUM) AT OUTLET ONLY.
3. ALL STEEL BARS TO BE GRADE 400Y TO AS4671-2001.
4. MESH LAPS SHALL BE MADE SO THAT THE TWO OUTERMOST WIRES OF ONE FABRIC OVERLAP THE TWO OUTERMOST WIRES OF THE SHEET BEING LAPPED.
5. SPACING FOR MULTIPLE PIPES AS SPECIFIED IN R0240-01.

REFERENCED DOCUMENTS:

- AS4671-2001 STEEL REINFORCING MATERIALS
- AS3600-2009 CONCRETE STRUCTURES
- SPECIFICATION R11 - STORMWATER DRAINAGE
- SPECIFICATION B80 - CONCRETE WORK FOR BRIDGES

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

QR CODE				SCAN TO CHECK DOCUMENT VER.				ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN				ISSUED				STANDARD DRAWING			
1				9/10/17				Added Watermark				SFR				ROAD DESIGN ENGINEERING			
1				9/10/17				Added Watermark				SFR				R0210 STORMWATER DRAINAGE SERIES - HEADWALLS			
1				9/10/17				Added Watermark				SFR				CONCRETE HEADWALLS FIVE CELL Ø300 mm TO Ø900 mm			
1				9/10/17				Added Watermark				SFR				WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER) SHEET 1 OF 1			
1				9/10/17				Added Watermark				SFR				R0210-23			
1				9/10/17				Added Watermark				SFR				STATUS			
1				9/10/17				Added Watermark				SFR				ISSUED			
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1				9/10/17				Added Watermark				SFR				DS2014/005812			
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STANDARD DRAWING
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 R0210 STORMWATER DRAINAGE SERIES - HEADWALLS
 CONCRETE HEADWALLS FIVE CELL Ø300 mm TO Ø900 mm
 WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER) SHEET 1 OF 1
 STANDARD DRAWING No. R0210-23
 STATUS ISSUED
 EDMS No. DS2014/005812
 ORIGINAL ISSUE DATE JANUARY 2017
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