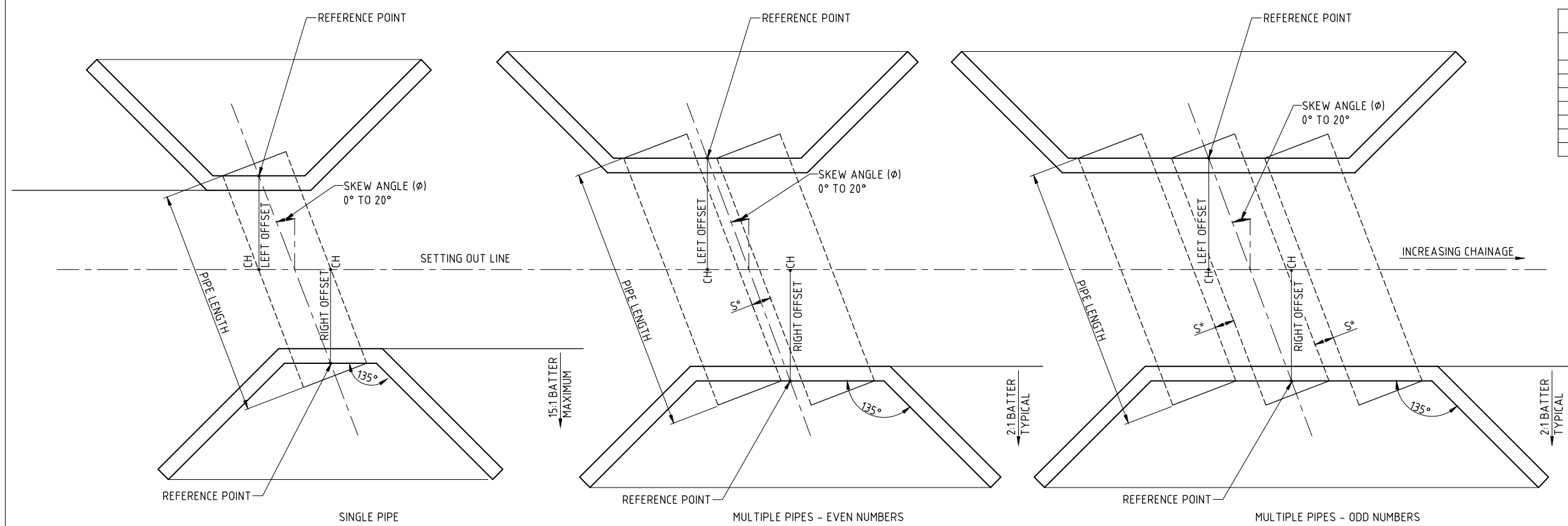
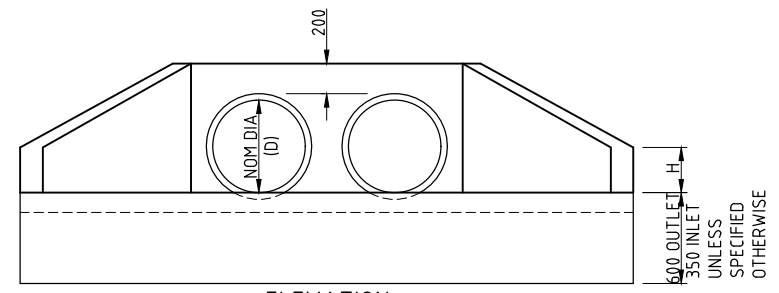


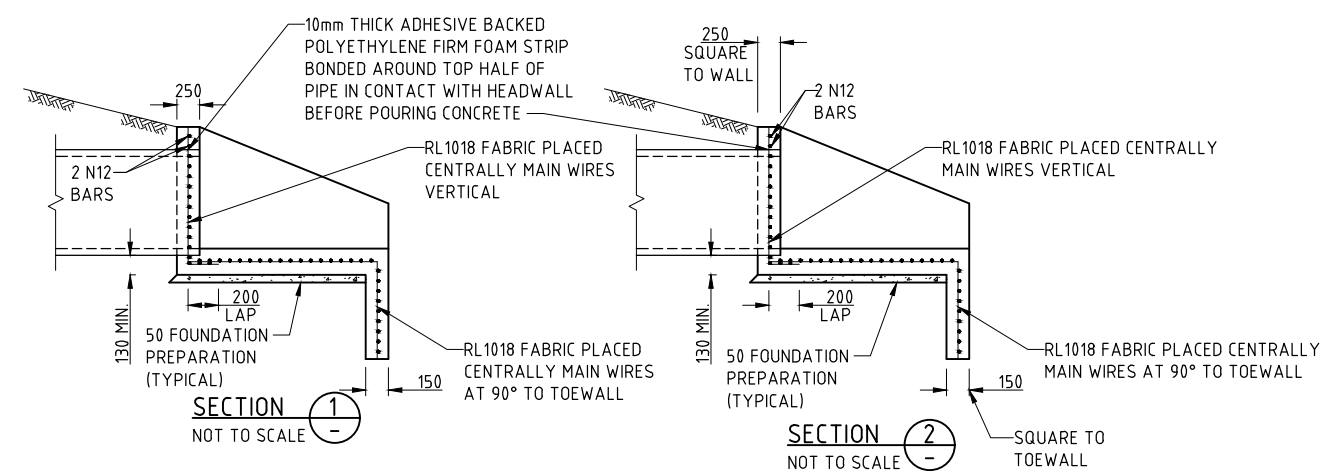
SETTING OUT DIMENSIONS				
D	A	H	SKEW ANGLE ϕ LESS THAN 20°	
			B	C
1050	1700	450	1700	W+34.00
1200	1900	500	1900	W+38.00
1350	2100	550	2100	W+42.00
1500	2300	600	2300	W+46.00
1650	2500	650	2500	W+50.00
1800	2700	700	2700	W+54.00



SETTING OUT OF PIPES
NOT TO SCALE



ELEVATION
TYPICAL FOR SINGLE AND MULTIPLE PIPES
NOT TO SCALE



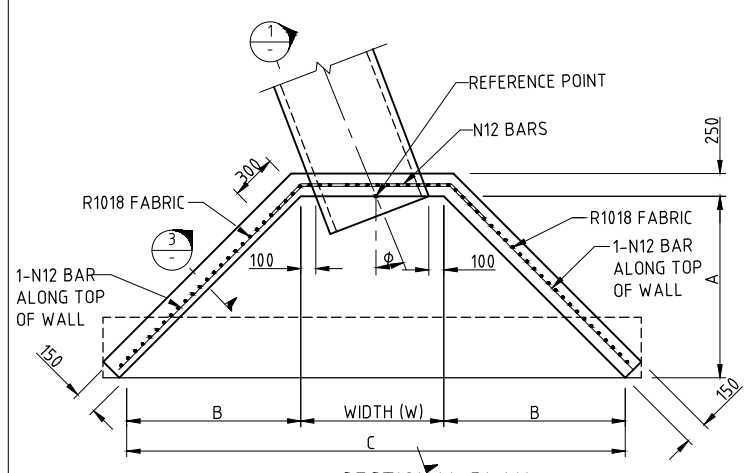
SECTION 1
NOT TO SCALE

SECTION 2
NOT TO SCALE

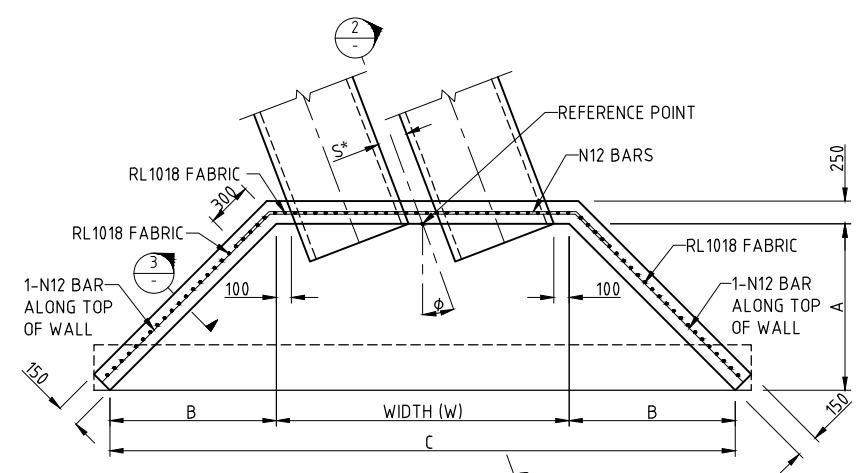
NOTE:

- DESIGN LOADS:**
- IN ACCORDANCE WITH AUSTRALIAN BRIDGE DESIGN CODE AS 5100-2017.
 - HEADWALLS ARE NOT DESIGNED FOR GUARDRAIL IMPACT FORCES.
- CONCRETE:**
- GRADES S40
- COVER:**
- MINIMUM CLEAR COVER TO BE 50mm.
- CONCRETE EXPOSURE CLASSIFICATION:**
- IN ACCORDANCE WITH REQUIREMENTS IN AUSTRALIAN BRIDGE DESIGN CODE AS 5100-2017 FOR CONCRETE EXPOSURE CLASSIFICATION.
 - COVER AND CONCRETE STRENGTH SHOWN ON DRAWINGS SATISFY REQUIREMENTS FOR EXPOSURE CLASSIFICATION B1 AND B2.
 - FOR EXPOSURE CLASSIFICATIONS C AND U, THE FOLLOWING SHALL APPLY.

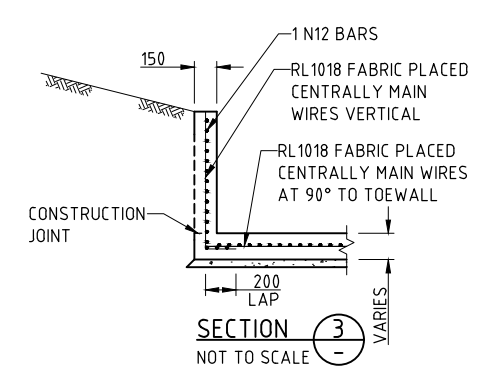
EXPOSURE CLASSIFICATION	MINIMUM CLEAR COVER (mm)	
	40 MPa CONCRETE	50 MPa CONCRETE
C (SALT-RICH ARID AREAS OR IN SEA WATER)	60	50
U (IN SOFT OR RUNNING WATER OR AGGRESSIVE SOILS - SULPHATE IONS - pH<4.0)	-	70



SECTIONAL PLAN
REINFORCEMENT FOR SINGLE PIPE
NOT TO SCALE



SECTIONAL PLAN
REINFORCEMENT FOR MULTIPLE PIPE
NOT TO SCALE



SECTION 3
NOT TO SCALE

REINFORCEMENT:

- REINFORCING BAR SHALL BE D500N AND MESH SHALL BE D500L IN ACCORDANCE WITH AS/NZS 4671-2001.
 - MINIMUM LAPS, UNLESS SHOWN OTHERWISE: BARS 300mm, FABRIC 100mm.
- CHAMFERS:**
- ALL EXPOSED EDGES TO BE PROVIDED WITH 20mm CHAMFERS.
- FOUNDATION PREPARATION:**
- 50mm COMPACTED SAND.
- GENERAL:**
- REFER TO STANDARD DRAWING CS-3101 AND CS-3100 FOR S*
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

THIS DRAWING IS DERIVED FROM TRANSPORT SOUTH AUSTRALIA STANDARD DRAWING S-4002, SHEET 22 AND ADOPTED FOR THE NT CONDITIONS.

No.	DESCRIPTION	DATE	NAME	DEPT/COMPANY
1	HEAD WALL ANGLE MODIFIED FOR SINGLE PIPE	JUNE 2018	S.J.	EES/DIPL
0	ISSUED AS A STANDARD DRAWING	SEPT 2017	J.LEESON	EES/DIPL
AMENDMENTS				

WARNING
BEWARE OF UNDERGROUND SERVICES.
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

DRAWN J.LEESON	CHECKED S.HATZI
DATE DESIGNED S.A.	DATE CHECKED S.A.
DATE DESIGN LEADER S.HATZI	DATE DESIGN DIRECTOR S.JACKSON
DATE 1/09/2017	DATE 1/09/2017



STANDARD DRAWINGS DRAINAGE				
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
-	-	1 OF 1	CS-3105	1
RCP 1050mm DIA. TO 1800mm DIA, HEADWALL & WINGWALL DETAILS 0° TO 20° SKEW ANGLE				
SHEET SIZE A1				