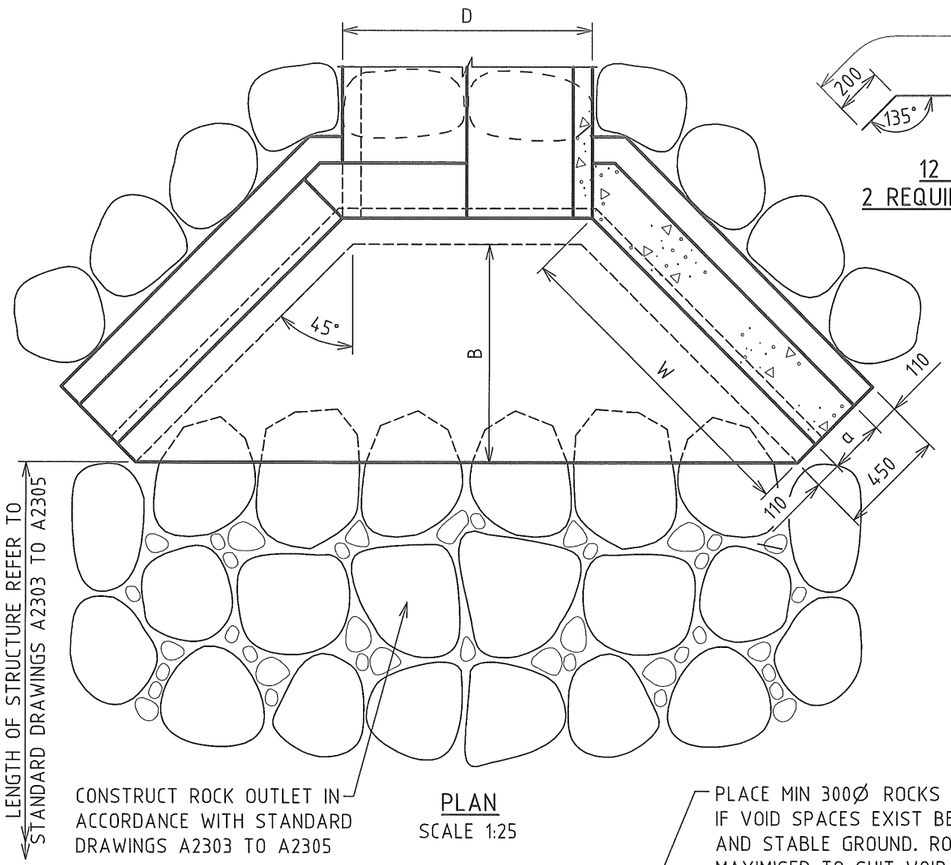
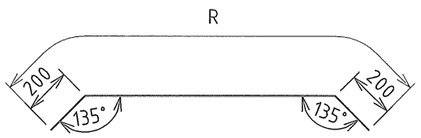
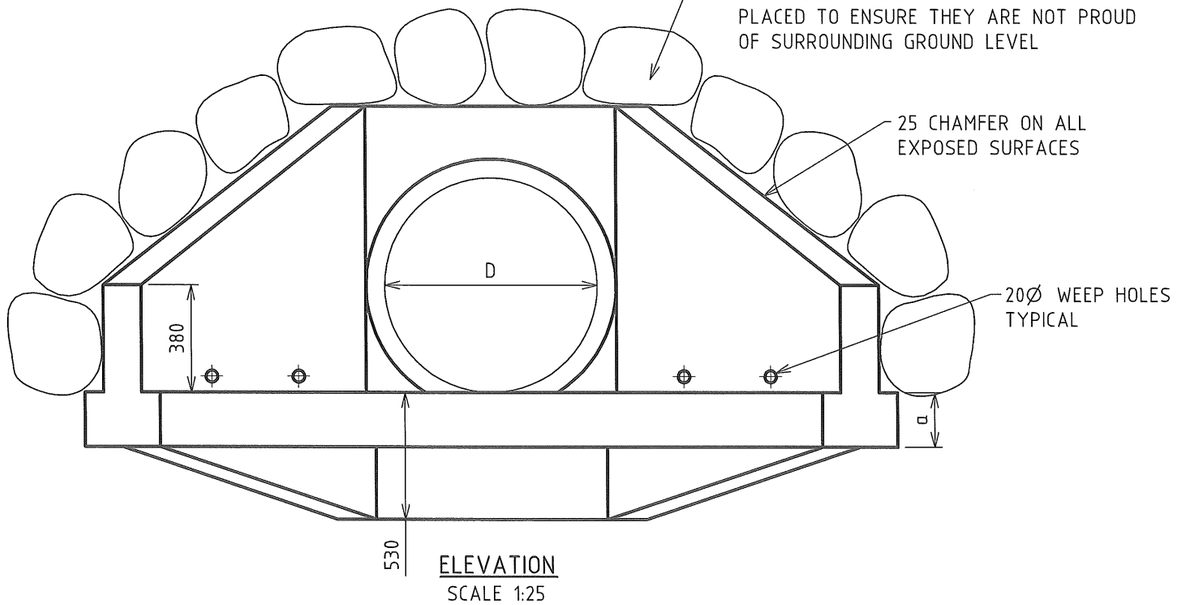


PLAN
SCALE 1:25



12 DIAMETER BARS
2 REQUIRED EACH HEADWALL
SCALE 1:25
(SEE TABLE C)

LONGITUDINAL SECTION
SCALE 1:25



ELEVATION
SCALE 1:25

TABLE C: HEADWALLS				
D PIPE DIAMETER (mm)		600	750	900
a (mm) MINIMUM		150	175	200
B (mm)		790	1025	1260
W (mm)		1120	1450	1780
L (mm)		1100	1250	1400
REINFORCEMENT IN TWO HEADWALLS	'R' BARS	2-N12 4.4m LONG	2-N12 5.0m LONG	2-N12 5.6m LONG
	'M' MESH	SL81	SL81	SL81
	'L' BARS	N12-200	N12-200	N12-200
CONCRETE QUANTITY IN TWO HEADWALLS (M^3)		1.34	2.04	2.80

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. DRAWINGS ARE NOT TO SCALE
3. COMPRESSIVE STRENGTH FOR CAST INSITU CONCRETE SHALL BE 25MPa AT 28 DAYS
4. ENERGY DISSIPATERS IN LIEU OF STANDARD HEAD WALL SHALL BE PROVIDED WHERE VELOCITIES EXCEED 2.0 M/S
5. WHERE ADDITIONAL HEIGHT TO RETAINING IS REQUIRED KERB HEIGHT, KERB WIDTH AND CURTAIN WALL HEIGHT SHALL BE ADJUSTED WITH THE PROVISION OF ADDITIONAL REINFORCEMENT
6. FOUNDING MATERIAL TO ACHIEVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 150KPa.
7. SAFETY FENCING SHALL BE PROVIDED AROUND THE HEAD WALL WHERE DETERMINED BY THE ENGINEER.

No.	AMENDMENT DETAILS	DATE	INITIALS
1	CONSTRUCTION	11.06.13	J.C.
0	PRELIMINARY - FOR REVIEW AND COMMENT ONLY	14.12.12	J.C.

A3 ORIGINAL | THIS SHEET WAS PREPARED IN COLOUR AND WILL BE INCOMPLETE IF COPIED | COORDINATE SYSTEM: | HEIGHT DATUM: AHD

SCALE: AS SHOWN

The City of Newcastle — LIVEABLE CITY — INFRASTRUCTURE MANAGEMENT SERVICES

REVIEWED: J.C.

APPROVED:
SIGNED:
INFRASTRUCTURE MANAGEMENT SERVICES MANAGER
DATE: 11/6/13

THE CITY OF NEWCASTLE

HEADWALLS REINFORCED CONCRETE FOR 600, 750 AND 900 PIPE CULVERTS

NCC PLAN No. A2300

AMENDMENT No.

SHEET No. 1 OF 1 SHEETS