Manufacture and construction of headwalls

UNDE R REVIEW

STANDARD DRAWING No. R0210-01

DATE

AMENDMENT / REVISION DESCRIPTION

WVR No.

APPROVAL

SCALE S ON A3 SIZE DRAWING

0 5 1 0 1 5 2 0 2 5 3 0 3 5 4 0 4 5 5 0 mm ON A3 ORIGIN A L T H I S DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

PREPARED BY

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ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN

QR CODE

CONTACT DETAILS

DRAWING TO :

SEND FEEDBACK ON THIS STANDARD
technologystandards@rms.nsw.gov.au

SHEET OF

STANDARD DRAWING

ROAD DESIGN ENGINEERING

ORIGINAL ISSUE DATE

JANUARY 2017

DOCUMENT VER.

SCAN TO CHECK

R0210 STORMWATER DRAINAGE SERIES - HEADWALLS

EDMS No.

STATUS

ISSUED

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DATE

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AND TECHNOLOGY

ROAD POLICY, SPECIFICATIONS

ENGINEERING SERVICES

1

CONCRETE HEADWALLS FIVE CELL Ø300 mm TO Ø900 mm

1

2

ELEVATION

C

E1 BARS

Ø100 WEEPHOLES

1

W

300

W/2

A

S

a

APRON DEPTH AT OUTLET

C

S

W

a

APRON DEPTH AT INLET

2

T O 1 OR STEEPER

NOM COVER (SEE NOTE 1)

E1 BARS

DIMENSIONS

D NOMINAL PIPE DIAMETER (mm)

L1 L2 No. REQ LENGTH (mm)

(Ø12 mm)

Baffle

STEEL REINFORCEMENT

CONCRETE N25 (SEE NOTE 1)

STEEL REINFORCEMENT

REFERENCES TO AS3600-2009, SECTION 4 FOR CONCRETE STRENGTH GRADES SHOWN ARE FOR EXPOSURE CLASSIFICATION A2.

CONCRETE HEADWALLS FIVE CELL Ø300 mm TO Ø900 mm

REFERENCE DOCUMENTS:

SPECIFICATION R11 - STORMWATER DRAINAGE

AS3600-2009 CONCRETE STRUCTURES

AS4671-2001 STEEL REINFORCING MATERIALS

NOTES

1. CONCRETE STRENGTH GRADES SHOWN ARE FOR EXPOSURE CLASSIFICATION A2. REFER TO AS3600-2009, SECTION 4 FOR CONCRETE STRENGTH GRADES, 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. SPACING FOR MULTIPLE PIPES AS SPECIFIED IN R0240-01.

RENSERED DOCUMENTS:

AS4671-2001 STEEL REINFORCING MATERIALS

ADDED 2009 CONCRETE STRUCTURES

SPECIFICATION R11 - STORMWATER DRAINAGE

NOTE:

1. NORMAL PIPE DIAMETER (mm)

A A ARCH DEPTH AT INLET

B A RCH DEPTH AT OUTLET

C HEARTH LENGTH

D A RCH WIDTH

E Width Wall LENGTH

FOR MANUFACTURE AND CONSTRUCTION WITH R0240-01.

OUTLET PROTECTION 230 mm THICK ROCK MATTRESS

INLET PROTECTION 170 mm THICK ROCK MATTRESS

EXPOSURE CLASSIFICATIONS B2 & C

PROVIDE DAMP PROOF MEMBRANE FOR SECTION

NOT TO SCALE

WINGWALL LENGTH

HEADWALL LENGTH

APRON DEPTH AT OUTLET

APRON DEPTH AT INLET

APRON WIDTH

ARMS LENGTH

HEADWALL LENGTH

PROVIDE DAMP PROOF MEMBRANE FOR EXPOSURE CLASSIFICATIONS B2 & C

APRON DEPTH AT OUTLET

APRON DEPTH AT INLET

APRON WIDTH

ARMS LENGTH

HEADWALL LENGTH

PROVIDE DAMP PROOF MEMBRANE FOR EXPOSURE CLASSIFICATIONS B2 & C

APRON DEPTH AT OUTLET

APRON DEPTH AT INLET

APRON WIDTH

ARMS LENGTH

HEADWALL LENGTH

PROVIDE DAMP PROOF MEMBRANE FOR EXPOSURE CLASSIFICATIONS B2 & C

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