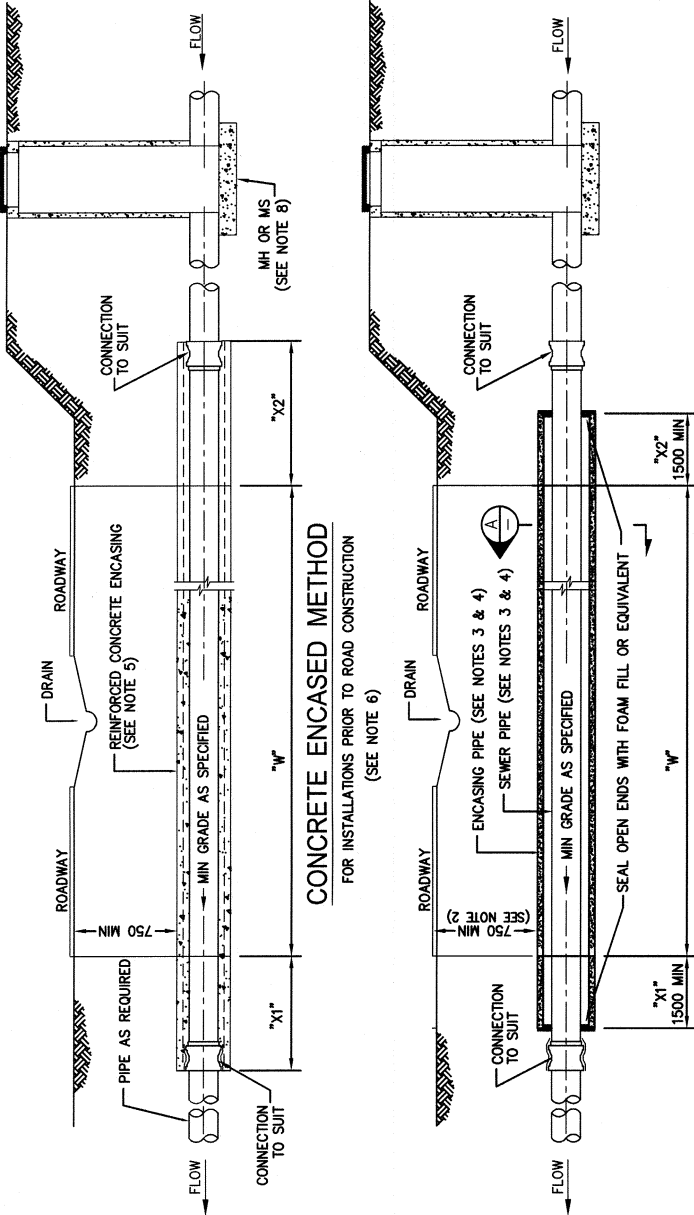


NOTES:

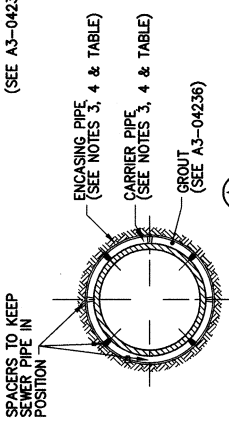
- ALL DIMENSIONS IN MILLIMETRES.
- METHODS OF INSTALLATION TO BE AS SHOWN IN DESIGN DRAWINGS OR AS DIRECTED BY THE WATER AGENCY OR ROAD OWNER. DIFFICULT CONDITIONS MAY REQUIRE SPECIAL ARRANGEMENTS.
- HORIZONTAL BORING.**
ENCASING PIPE
- RC CLASS 4 OR
- STEEL (BARE) PIPE. WALL THICKNESS TO BE AS SPECIFIED IN THE DESIGN DRAWINGS OR GRP.
SEWER PIPE
- DI WITH POLYMERIC LINING CLASS K9
- PVC CLASS SN 8
- PE CLASS PN 12.5
- GRP CLASS SN 5000 MIN.
- JACKING**
ENCASING PIPE
- REINFORCING CONCRETE CLASS 4 BUTT JOINED WITH STEEL LOCATING BANDS, STEEL OR GRP JACKING PIPE
SEWER PIPE
- DI WITH POLYMERIC LINING CLASS K9
- PVC CLASS SN 8
- PE CLASS PN 12.5
- GRP CLASS SN 5000 MIN.
CONCRETE ENCASED
- PIPE MATERIAL TO BE:
• STEEL WITH FBPE INTERNAL COATING
• PE CLASS PN 12.5
• PVC (SW) CLASS SN 8
• GRP CLASS SN 5000 MIN.
- NO SERVICE CONNECTIONS TO BE MADE TO ENCASED SECTION OF PIPELINE.
- ENCASING AS SHOWN IN A3-04211
- NO EXTERNAL COATING REQUIRED ON CONCRETE ENCASED WELDED STEEL PIPELINE.
- DIMENSIONS "X1" & "X2" AND LOCATION OF BULKHEADS & REINFORCING TO BE SHOWN IN DESIGN DRAWINGS.
- FILL VOID BETWEEN BORED HOLE AND CASING PIPE WITH GROUT AS SHOWN ON A3-04236.
- LOCATE MH OR MS AT LEAST 6000 FROM TOP OF BANK TO BE LOCATED AT LEAST 6 m FROM TOP OF BANK.
- CONSTRUCTION TO BE IN ACCORDANCE WITH DESIGN DRAWINGS.
- DIRECTIONAL BORING TO INSTALL PE PIPE IS ALSO ACCEPTABLE. GRADE TO BE INCREASED TO ENSURE A POSITIVE GRADE THROUGHOUT PIPE SECTION.



BORED & JACKED ENCASED/SEWER PIPE SIZES										
SEWER PIPE (DN)	100	150	225	300	375	400	500	550	650	800
BORED ENCASED PIPE MIN (DN)	300	375	425	500	575	600	700	750	850	1000
JACKED ENCASED PIPE (DN)	N/A									1200 MIN.

BORED OR JACKED ENCASED PIPE METHOD

FOR INSTALLATIONS AFTER ROAD CONSTRUCTION
(SEE A3-04236)



ENCASING & SEWER PIPE ARRANGEMENT

MRC STANDARD DRAWINGS SUPERCEDES WSAA STANDARD DRAWINGS

Mackay REGIONAL COUNCIL		DRAWING No. A3-04235	
STANDARD DRAWING BURIED CROSSINGS MAJOR ROADWAYS		AMEND. C	
SHEET 1 OF 1		COMMERCIAL SERVICES	
EXECUTIVE MANAGER MACKAY WATER & WASTE RPEQ 7506		WSAA NO. SEW-1402	
DATE 27 MAY08		WATER SERVICES ASSOCIATION of Australia	
JASON DEVITT		DATE	
DRAWING FILE NAME M:\Engineering Services\Technical Services\Design\Projects\Standard drawings\Mackay Water\WSAA MRC\SEW CODE\A3-04235B		SURVEY FILE No N/A	
SURVEY N/A		DATE OF LAST EDIT May 21, 2009	
SURVEY FILE No N/A		LEVEL DATUM A.H.D.	
LEVEL DATUM A.H.D.		MERIDIAN MGA-55	
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