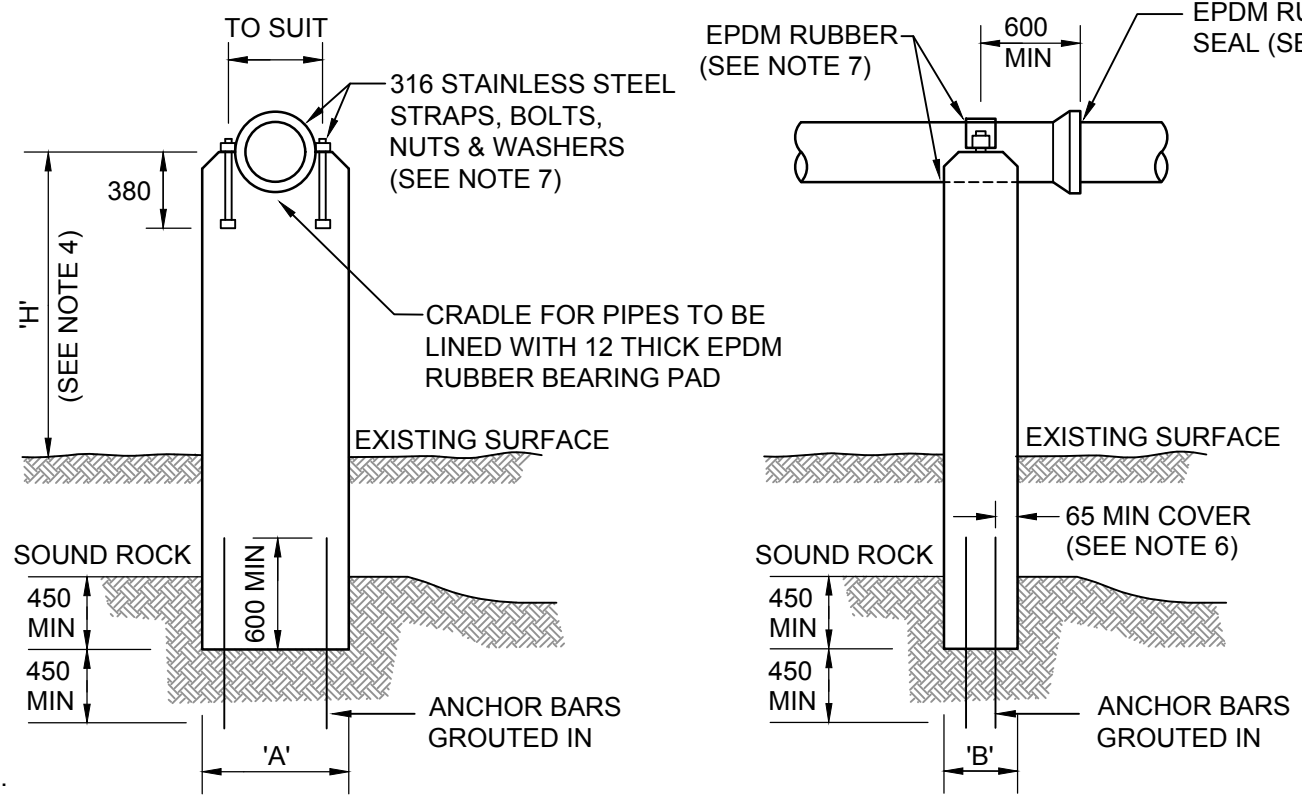


TYPICAL AQUEDUCT

NOTES

1. ALL DIMENSIONS IN MILLIMETERS.
2. DI PIPE WITH POLYMERIC LINING SHOWN. STEEL SINTALINED RRJ PIPE MAY BE USED AS AN ALTERNATIVE. AN EXPANSION JOINT IS REQUIRED FOR STEEL PIPE.
3. MINIMUM SIZE OF PIPE AS AQUEDUCT TO BE DN 150.
4. MAXIMUM HEIGHT 'H' OF CONCRETE PIER;
 - IN FLOOD CONDITIONS, SEE TABLE FOR MAXIMUM HEIGHT
 - IN NO FLOOD CONDITIONS, 5000 MAXIMUM
 - WHERE AQUEDUCT NEEDS TO BE HIGHER, SPECIFIC DESIGN CALCULATIONS NEED TO BE CARRIED OUT.
5. CONCRETE TO N32 FOR PIERS.
6. REINFORCEMENT AND CONCRETE DETAILS FOR PIERS AS SPECIFIED IN DESIGN DRAWINGS. 65 MIN COVER TO REINFORCEMENT
7. STRAPS TO BE GRADE 316 STAINLESS STEEL. PLACE A 3 THICK x 100 WIDE EPDM RUBBER INSERTION AROUND THE PIPE WHERE IN CONTACT WITH THE STRAP AND CONCRETE.
8. UNLESS OTHERWISE SPECIFIED IN THE DESIGN DRAWINGS, NO ADDITIONAL PROTECTION / COATING TO BE PROVIDED EXCEPT TO MAKE PIPES MORE ENVIRONMENTALLY ACCEPTABLE.
9. CYLINDRICAL PIERS (Ø600 MIN) OR EQUIVALENT ARE AN ACCEPTABLE ALTERNATIVE.
10. PIERS IN SOIL;
 - SPECIFY DEPTH OF PIER IN SOIL IN DESIGN DRAWINGS, BUT NOT LESS THAN 900.
 - SPECIFY TYPE AND SIZE OF FOOTING TO BE USED IN DESIGN DRAWINGS.
 - CONSTRUCT PIERS WITHOUT FOOTINGS TO THE DEPTH SPECIFIED IN DESIGN DRAWINGS.
11. ASSEMBLE JOINTS WITH THE SPIGOT END WITHDRAWN 5 TO 10 FROM BACK OF THE SOCKET TO ACCOMMODATE EXPANSION AND CONTRACTIONS RESULTING FROM TEMPERATURE FLUCTUATIONS.
12. PROVIDE STEEL GRILLES WHERE THE VERTICAL DISTANCE 'G' EXCEEDS 1800. GRILLE TO BE CLAMPED ON THE PIPELINE TO PREVENT MOVEMENT. SEE 010-048.
13. % GRADES 'X', 'Y' AND 'Z' TO BE SHOWN IN DESIGN DRAWINGS.



DETAIL OF CONCRETE PIER (SEE NOTE 9)

DIMENSIONS FOR PIERS (SEE NOTES 4 & 9)			
SEWER PIPE NOMINAL SIZE DN	PIER		
	A	B	'H' MAX
150	450	300	2700
200	600	300	2100
250	600	300	2100
300	750	300	1800
375	750	450	1800
450	915	450	1800
500	915	450	1800
600	1070	450	1800
750	1200	450	1800

Armidale Dept of Public Regional Council Infrastructure	SCALES	APPROVED	D. MAUNDER	31/08/2016	SHEET 1 OF 1
	NTS	MANAGER ENGINEERING AND STANDARDS SUPPORT		DATE	
SEWER AERIAL CROSSINGS AQUEDUCT		SURV	AS SHEET SIZE	DRAWING No	AMDT No
		DRWN	A3	010-044	
		DES			
		CHKD	CADFILE 010-044.dwg	DATE 31/08/2016	