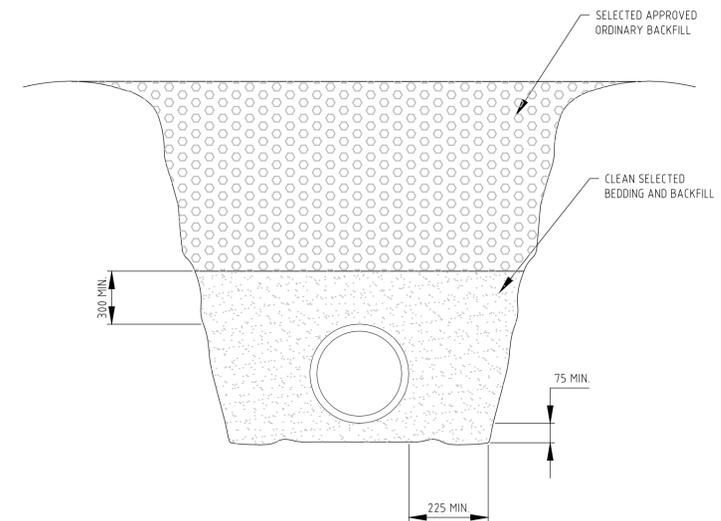
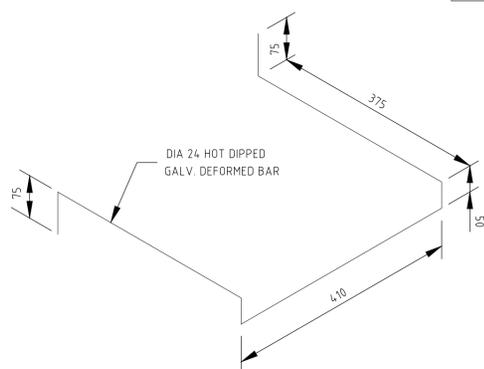


TYPICAL STORMWATER – SEWER CROSSING
NTS

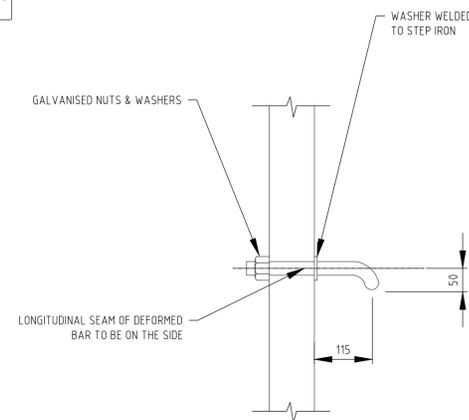


TRENCH DETAILS
NTS

NOTE:
PROPRIETARY STEPS MADE OF POLYPROPYLENE (OR APPROVED ALTERNATIVE) MAY BE USED. THESE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS. ALL STEPS TO BE A MINIMUM 375mm WIDE.

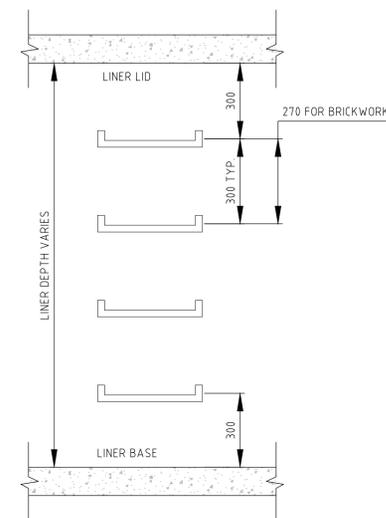


DETAIL – STEP IRON



SECTION THROUGH WALL

STEP IRON DETAILS
NTS



VERTICAL SPACING

NOTES:

1. PRIOR TO BACKFILLING THE TRENCH THE AREA SURROUNDING SERVICES SHALL BE CAREFULLY COMPACTED WITH HAND RAMMERS. THE MINIMUM DEPTH OF HAND COMPACTION ABOVE THE TOP OF PIPE SHALL BE NO LESS THAN 150mm.
2. COMPACTION OF THE REMAINING BACKFILL SHALL BE IN 150mm LAYERS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS WITH WATER TO A DENSITY OF NOT LESS THAN 95% MDD WHEN TESTED IN ACCORDANCE WITH AS1289.5.2.1-1993 OR AT LEAST EQUAL TO THAT OF THE SURROUNDING UNDISTURBED ROAD MATERIAL. CRUSHED LIMESTONE PAVEMENT SHALL BE COMPACTED TO 95% MDD WHEN TESTED IN ACCORDANCE WITH AS1289.5.2.1-1993.
3. ALL DIMENSIONS IN MILLIMETRES
4. MINIMUM CLASS 2 RCP TO BE USED WITH MINIMUM COVER AS PER MANUFACTURERS SPECIFICATIONS.
5. ALL ROAD CROSSINGS WITH LESS THAN 600mm COVER TO BE CLASS 4 RCP.
6. STEP IRONS TO BE INSTALLED IN PITS WHERE THE DEPTH FROM COVER TO TOP OF BASE EXCEEDS 1200mm. STEP IRONS TO BE LOCATED ON THE SIDE WITH LEAST INTERFERENCE FROM PIPES IN ALL JUNCTION PITS, GULLY'S, SIDE ENTRY AND/OR COMBINATION PITS. THIS IS TO ENSURE STEP INTERVALS AREN'T COMPROMISED AND ACCESSIBILITY IS MAINTAINED.

REV	DATE	DESCRIPTION	DRAWN
F	06/22	NOTE 6 AMENDED	J.M
E	06/19	REVIEW COMPLETED & DRAFTING AMENDMENTS MADE	J.M
D	06/18	NOTE 6 ADDED	J.M
C	05/17	STEP IRON DETAILS ADDED & DRAFTING AMENDMENTS MADE	J.M
B	09/12	CITY OF KWINANA LOGO ADDED	J.M
A	04/09	ADOPTED BY TOWN OF KWINANA	V.K

ASSOCIATE CONSULTANT:



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SCALE	N.T.S (A1)
DESIGN	S.S
CHECK	R.N
DRAWN	J.M
DATE	05/17
AUTHORISED (MANAGER ENGINEERING SERVICES)	
R.NAJAFZADEH	

DRAWING TITLE	STANDARD DETAILS DRAINAGE DETAILS
FILE NO.	ENG03
DRAWING NUMBER	STD-D05
REVISION	F