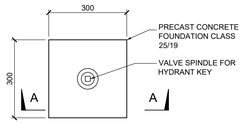
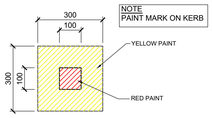
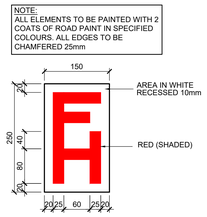


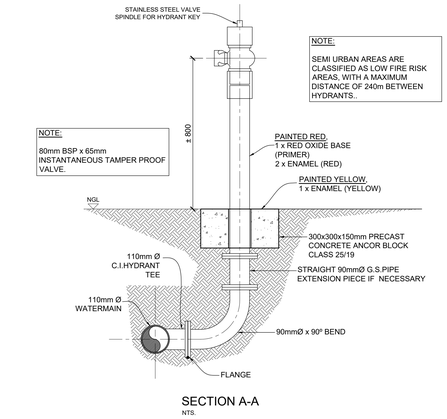
PLAN: FIRE HYDRANT
NTS.



DETAIL: KERB PAINT MARKING AT FIRE HYDRANT
SCALE 1:10

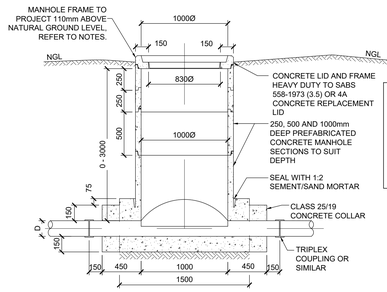


FIRE HYDRANT MARKER
SCALE 1:5



SECTION A-A
NTS.

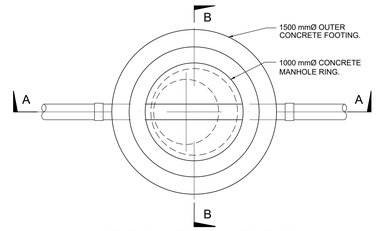
WOODLANDS 80 mm FIRE HYDRANT
(WOODLANDS OR SIMILAR APPROVED)



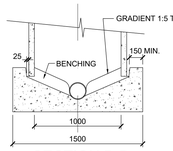
SECTION B-B
COLLAR & BENCHING FOR 1000mmØ MANHOLES
SCALE 1:25

NOTES:

1) IN ROAD RESERVES MANHOLE COVERS SHALL BE FLUSH WITH THE SURFACE. THE RECESS IN THE FRAME SHALL BE FILLED WITH GREASE HAVING A HIGH MELTING POINT. AND THE COVER SHALL BE SET THEREIN TO FORM AN AIRTIGHT SEAL.
2) OTHER MANHOLES - FRAMES SHALL PROJECT 110mm ABOVE GROUND SURFACE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER
3) BENCHING SHALL BE FINISHED WITH A 40mm GRANOLITHIC LAYER OR HIGH ALUMINA CEMENT. PLACED WHILE CONCRETE IS STILL GREEN AND STREELTROWED TO A SMOOTH FINISH.
4) CLAY CHANNEL SECTIONS
5) ROCLA/SALBERG TYPE



TYPICAL PLAN (WITHOUT COVER AND SLAB)
SCALE 1:25



SECTION B-B
SCALE 1:25

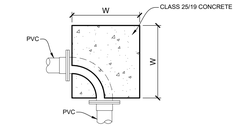
SEWER MANNHOLE DETAILS

TYPICAL DESCRIPTION

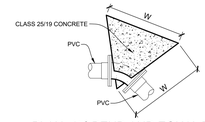
90 ° BEND & END CAP
75MM DIA: 'W' = 0.5m MINIMUM
110MM DIA: 'W' = 0.6m MINIMUM
160MM DIA: 'W' = 0.75m MINIMUM
200MM DIA: 'W' = 0.8m MINIMUM
250MM DIA: 'W' = 0.85m MINIMUM

45 ° BEND & T-PIECE
75MM DIA: 'W' = 0.5m MINIMUM
110MM DIA: 'W' = 0.6m MINIMUM
160MM DIA: 'W' = 0.75m MINIMUM
200MM DIA: 'W' = 0.8m MINIMUM
250MM DIA: 'W' = 0.85m MINIMUM

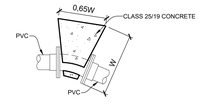
22.5° & 11° BENDS
75MM DIA: 'W' = 0.5m MINIMUM
110MM DIA: 'W' = 0.6m MINIMUM
160MM DIA: 'W' = 0.75m MINIMUM
200MM DIA: 'W' = 0.8m MINIMUM
250MM DIA: 'W' = 0.85m MINIMUM



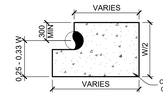
PLAN: 90° BEND AND END CAP
N.T.S.



PLAN: 45° BEND AND EQUAL TEE-PIECE
N.T.S.

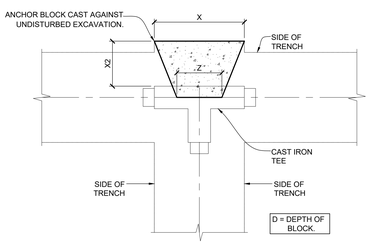


PLAN: 22.5° BEND
N.T.S.

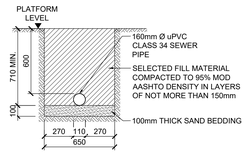


TYPICAL SECTION THROUGH THRUST BLOCK
N.T.S.

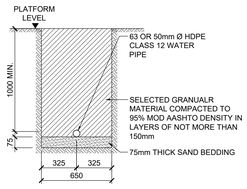
DIMENSIONS OF ANCHOR BLOCK FOR T-PIECE			
PIPE DIAMETER	X	D	Z
300	1950	1200	550
225	1475	900	425
200	1300	800	350
150	1000	600	275
100	650	400	200
75	500	300	150
50	325	200	100



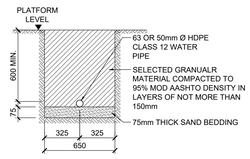
TYPICAL TEE-PIECE INSTALLATION DETAILS
SCALE 1:10



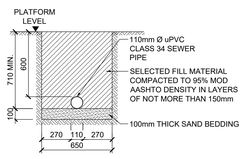
SECTION THRU SEWER TRENCH (TYPICAL)
SCALE 1:20



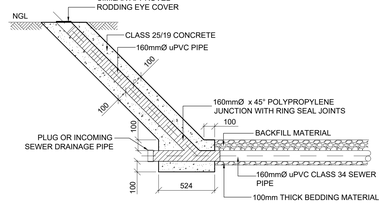
SECTION THRU WATER LINE TRENCH (OPEN LAND)
SCALE 1:20



SECTION THRU WATER LINE TRENCH (BUILT UP AREAS)
SCALE 1:20

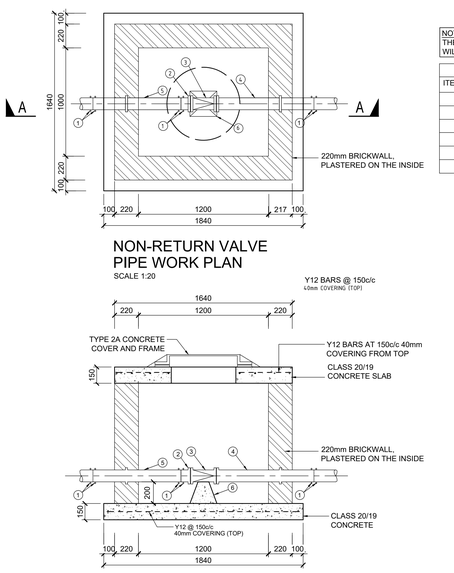


SECTION THRU SEWER TRENCH (TYPICAL)
SCALE 1:20



SECTIONAL DETAIL
SCALE 1:20

TYPICAL SEWERAGE RODDING EYE DETAIL



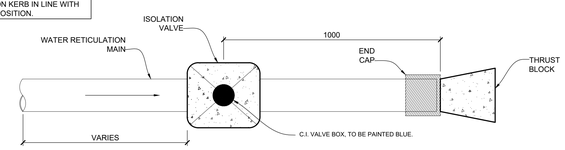
NON-RETURN VALVE PIPE WORK PLAN
SCALE 1:20

NOTE:
THE EXACT POSITIONS OF THE NON-RETURN VALVES WILL BE SHOWN TO THE CONTRACTOR ON SITE

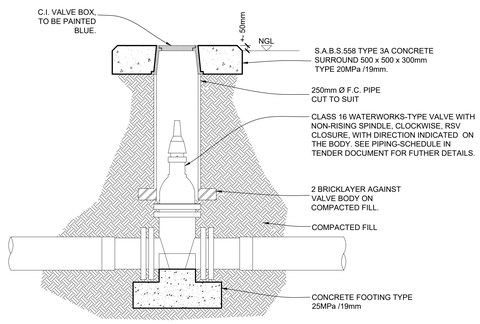
PIPE SCHEDULE	
ITEM No.	DESCRIPTION
1	VJ COUPLING
2	VJ FLANGED ADAPTOR
3	NON-RETURN VALVE
4	HDG STEEL PUDDLE PIPE, FLANGED ONE END, L=1000mm
5	HDG STEEL PUDDLE PIPE, PLAIN ENDED, L=1000mm
6	CONCRETE PLINTH

SECTION A-A
SCALE 1:20

NOTE:
100mm Ø BLUE DOT (ENAMEL PAINT) ON KERB IN LINE WITH VALVE POSITION.



WATER ISOLATION VALVE WITH END CAP
NTS



DETAIL 4: TYPICAL ISOLATION VALVE INSTALLATION
NTS.

ISSUED FOR TENDER

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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Consultant Signature

ECSA REG NO: 201470009
NHBRC REG NO: 126308441

No	Date	Details	Drawn	Chd
A	27/09/18	ISSUED FOR TENDER	AJ	MM

Client

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business streamlined

znm
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Discipline: STRUCTURES

Consultant Signature

Drawn	Designed	Checked	SIZE
AJ	LM	MM	A0

Project: D-FENCE FACTORY

Description: WATER & SEWERAGE MISCELLANEOUS DETAILS

Scale	Date
AS INDICATED	AUG 2018

Project No.	Drawing No.	Revision
E032/100/003A		A