

VOLUME 3 – Standard Technical Specifications

PART 3 – ROADING PROJECTS

SECTION 2 : TESTING

2.1 SCALA PENETROMETER

2.1.4 Vehicle Crossings

Scala penetrometer subgrade strength testing is not required on low volume entrances.

2.3 BENKELMEAN BEAM TEST

Hauraki DC will accept alternative pavement deflection testing i.e. FWD - Falling Weight Deflectometer (FWD)

SECTION 13 : ROAD OPENINGS AND REINSTATEMENTS

13.1 General

- All work within the road reserve shall comply with the Code of Practice for Working in the Road (SNZ HB 2002:2003).
- Work within the road reserve shall comply with NZTM COPTTM Level 1.

SECTION 11 : BERM FEATURES

11.10 CONCRETE FOOTPATHS & VEHICLE CROSSINGS

When installing a vehicle crossing at a location that has an existing footpath, the footpath must be cut-out and removed unless it can be proven that the footpath has been constructed to vehicle crossing standards.

SECTION 18 : AS BUILT PLANS AND ASSET DETAILS

18.2 As Built Plans

As-Built plans and associated data shall be sent to:

In the case of subdivisions:

Planning and Environmental Services department
PO Box 17
Paeroa 3600

For all other work:

Technical Services
PO Box 17
Paeroa 3600

E-mail electronic files to: -

asbuilts@hauraki-dc.govt.nz, include in the sub heading:

HDC Subdivision Consent Number, Subdivision name and stage number.

PART 4 – STORMWATER AND WASTEWATER

Section B: Construction Specification

11.0 MANHOLES

11.1 Manhole Types

All joints in wastewater manholes are to be wrapped with Densotape to further ensure water tight joints.

11.6 Manhole Tops

All manhole lid frames to be epoxied on to the manhole top to ensure water tight joints.

18.0 TESTING

18.4 Manhole Testing

All wastewater man holes (excluding sealed dry chambers), are to be tested using the low pressure air method as required by HDC.

23.0 CONSTRUCTION OF DRAINS IN RURAL AREAS WITHIN THE HDC DRAINAGE DISTRICTS

23.1 All drains should be constructed in accordance with HDC400.

Section C: Works Completion and Clearance

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4.0 DATUMS AND UNITS OF MEASUREMENT

All levels to be in terms of Tararu (preferred) or Auckland 1946 datum.

Projection co-ordinates shall be:

New Zealand Transverse Mercator 2000 (NZTM2000)

Geographic co-ordinates shall be:

New Zealand Geodetic Datum 2000 (NZGD2000)

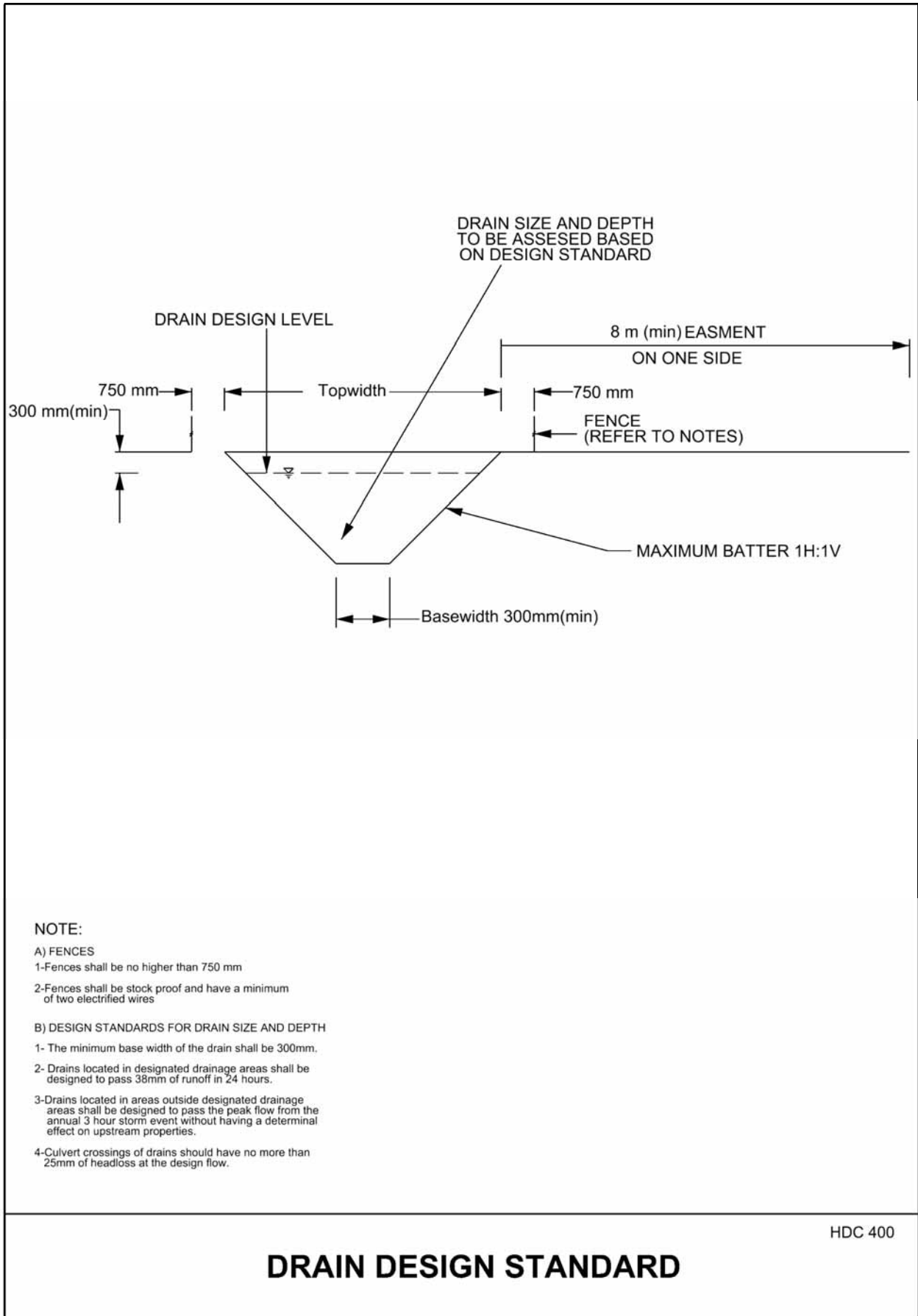
APPENDICES TO PART 4 – Stormwater & Wastewater

HAURAKI DISTRICT DRAINAGE STANDARDS

HDC400 : Land Drain Standard

ADDITIONS TO STANDARD HCCDM DRAWINGS

- TS 400.2: External drop structures are not preferred and are thus subject to specific approval of the Manager Engineering Services, HDC
- TS 400.4: End cap on London Junction
- TS 410: Not allowed



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PART 5 – WASTEWATER PUMP STATIONS

SECTION A : ACCEPTABLE FITTINGS AND MATERIALS

2.0 PUMP STATION MATERIALS

2.5 Access Lids

Approved Aluminium lids are suitable

2.6 Guide Rails

Rails may be galvanized instead of stainless steel

2.7 Guide Rail Brackets

Flygt or approved hot dipped galvanised

2.10 Riser Pipes

- ABS (Acrylonitrile Butadiene Styrene) Pressure Rating PN10 with solvent welded joints.

2.11 Rising Mains

- PE100 Polyethylene pipe manufactured to ASNZS 4130:2003, pressure rating PN12.5

2.15 Pumps

Grundfos pumps are acceptable

3.0 ELECTRONIC COMPONENTS APPROVED EQUIPMENT LIST

This section is currently under review.

Section B: Construction Specification

8.0 ELECTRICAL SPECIFICATIONS

This Section is currently under review.

PART 6 – WATER SUPPLY

SECTION A : ACCEPTABLE FITTINGS AND MATERIALS

2.0 PIPE MATERIALS

2.1 Watermains 300 mm and Larger

Materials for large diameter pipelines will be specifically approved and or specified by HDC. The specification shown below for spiral welded pipe, ductile iron pipe PVC-O, uPVC, mPVC and MDPE are indicative of what is likely to be approved.

P 9 or PN 10 class PVC water mains maybe used at the discretion of HDC.
uPVC water mains maybe used at the discretion of HDC.

All welding of MDPE pipes must be carried by a suitably qualified tradesperson.

All private water installations must be reviewed by approved Council staff.

2.2 Watermains 250mm dia

PE pipe material type is acceptable by HDC

2.3 Watermains 150mm and 200mm dia

MDPE and uPVC material types are acceptable by HDC.

2.7 Watermains 100mm diameter

Specifications generally in accordance with other diameters

5.0 FIRE HYDRANTS

5.1 Fire Hydrant

Short pattern screw down allowed.

7.0 WATER METERS

7.1 Water Meter Markers

Water meter markers shall be installed for all new water meters as per HDC 602.

SECTION B : PIPE INSTALLATION

1.0 INTRODUCTION

Water reticulation services are to be installed by persons who hold a National Certification in Water Reticulation or a reticulation service person who has been approved by the relevant Council.

SECTION E : VALVE AND FIRE HYDRANT INSTALLATION

9.0 VALVE AND HYDRANT MARKERS

A valve marker plate is to be located adjacent to the valve location, i.e. on fence behind the valve. The valve plate shall be as per drawing HDC601.

Alternative markings and locations may be accepted by the Manager Engineering Services.

SECTION F – INSTALLATION OF SERVICE CONNECTIONS

2.0 SCOPE

- iii. Hauraki District Council Consolidated Bylaw 2008

3.0 CONNECTIONS TO CUSTOMERS

3.1 General

All water supplies shall be metered.

3.2 Point of Supply to Consumer

All connections shall be metered

4.0 CONNECTIONS TO INDUSTRIAL/COMMERCIAL USERS

Refer to HDC Consolidated Bylaw Part 5: Water Supply for sizing limits

5.0 FIREMAIN CONNECTIONS

Refer to HDC Consolidated Bylaw Part 5: Water Supply for sizing limits

SECTION G – SHUT DOWN PROCEDURES

2.0 SCOPE

Refer to HDC Consolidated Bylaw Part 5: Water Supply

SECTION H – DISINFECTION AND FLUSHING

3.0 DISINFECTANT

Disinfection using Calcium Hypochlorite is not approved by HDC.

SECTION I - MISCELLANEOUS

6.0 CONNECTION TO THE EXISTING WATERMAIN

Connections to existing watermain are to be carried out by council approved personnel only, unless otherwise agreed by the Manager Engineering Services, HDC.

SECTION J – WORKS COMPLETION AND CLEARANCE

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