Street Catchpit

Technical Guide D5.8

The Street Catchpit has been developed with the Auckland Council for improved hydraulic capture of stormwater flow.

Applications

Municipal and residential stormwater drainage

Product Attributes

Standard and extended versions available

Galvanised steel edging makes it robust and durable

Imprinted with "Dump No Waste Flows To Sea" as specified by the Auckland Council

Designed to suit the Hynds 800 x 450 Slam locking Hydro grate.

Street catchpit grates and frames are pedestrian and bicycle safe

Sustainability

Available in Hynds LC® low carbon concrete

Verifiable carbon footprint data available

Customisable for climate-resilient infrastructure

Approvals/Standards

NZS 3109 Concrete Construction

Quality/Environment/Health & Safety

Hynds management systems are certified to ISO 9001:2015, 45001:2015, and 14001:2018 standards

HYNDS PIPE SYSTEMS

The Street Catchpit has been developed with the Auckland Council for improved hydraulic capture of stormwater flow.

The street catchpit consists of:

- Syphon catchpit
- Channel blocks (Type A and Type B)
- Kerb block (Type VS or S)
- Hydro Grate Class D rating 210 kN
- Soft spots are cast into all four sides of the syphon catchpit for easy connection of the outlet pipe

FIG. 1 Street Catchpit with Hydro Grate

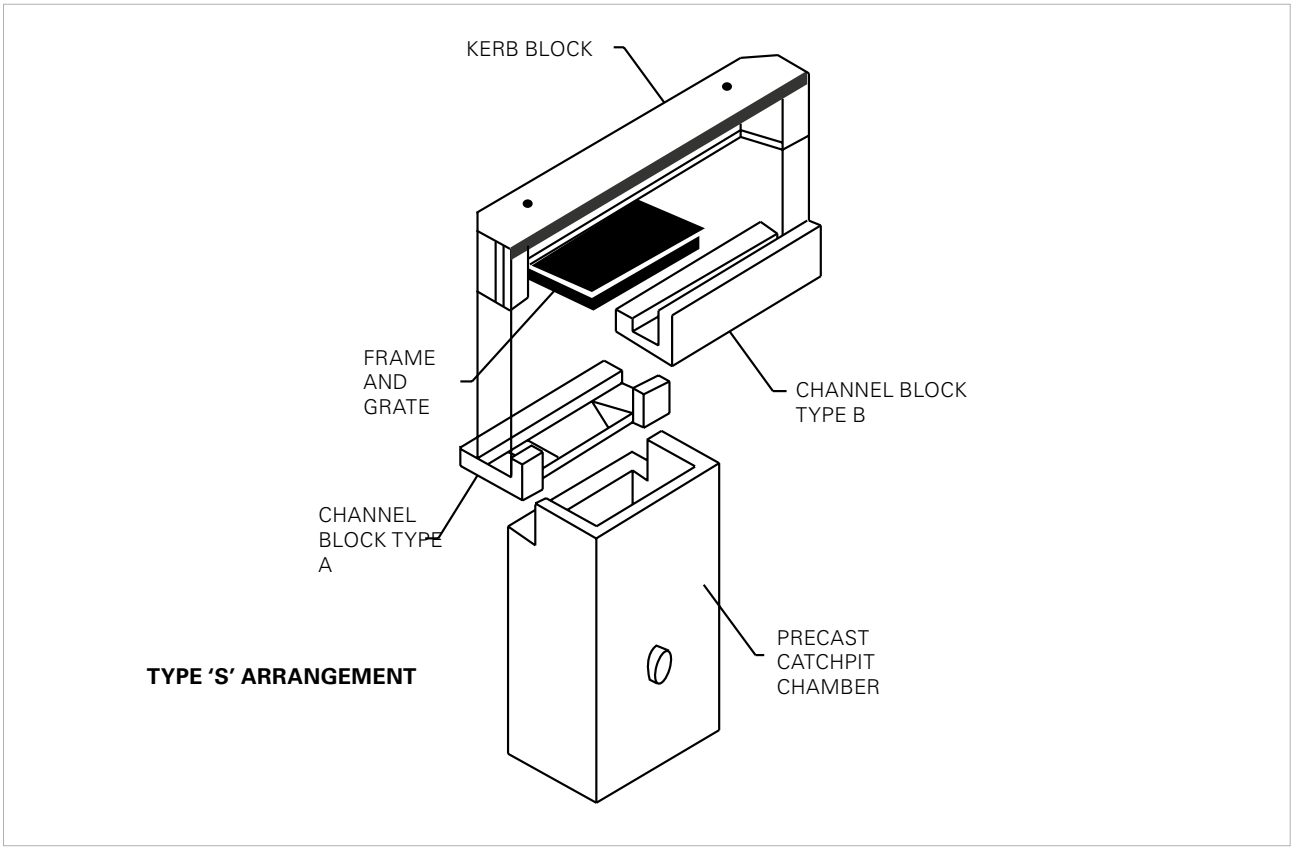


FIG. 2 Type 'S' component layout

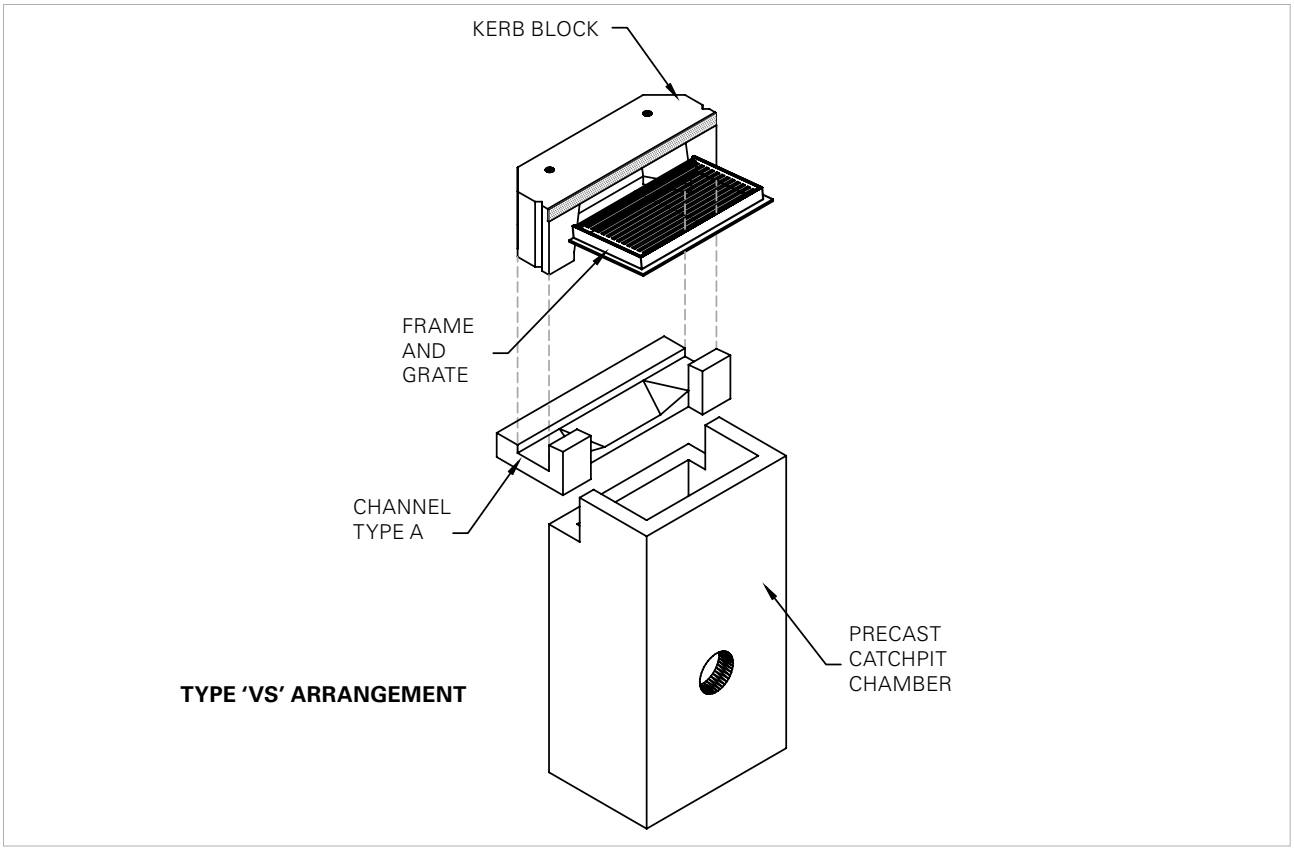


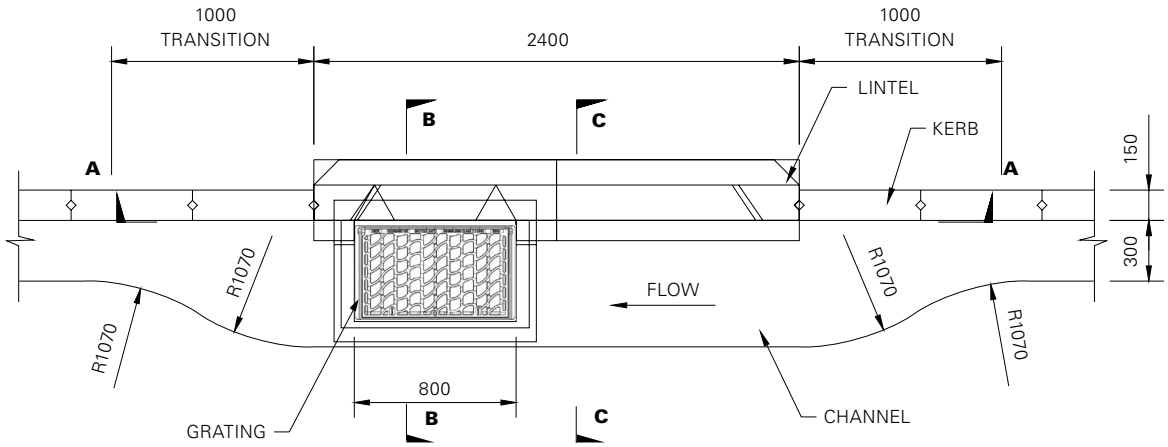
FIG. 3 Type 'VS' component layout

TABLE 1 **Street Catchpit Component Details**

Product Code	Component	Ext. Dimensions L x W x D (mm)	Mass (kg)
CP800500SBE	Syphon Catchpit	900 x 650 x 1875	1325
CP800500CHA	Channel Type A	1200 x 400 x 270/120	164
CP800500CHB	Channel Type B	1200 x 400 x 270/120	219
CP800500KBVS	Kerb Block VS	1200 x 300 x 405	278
CP800500KBS	Kerb Block S	2400 x 300 x 405	478
DIHSTGFD800450	Hydro DI Frame and Grate (Class D)	920 x 520 x 76	73

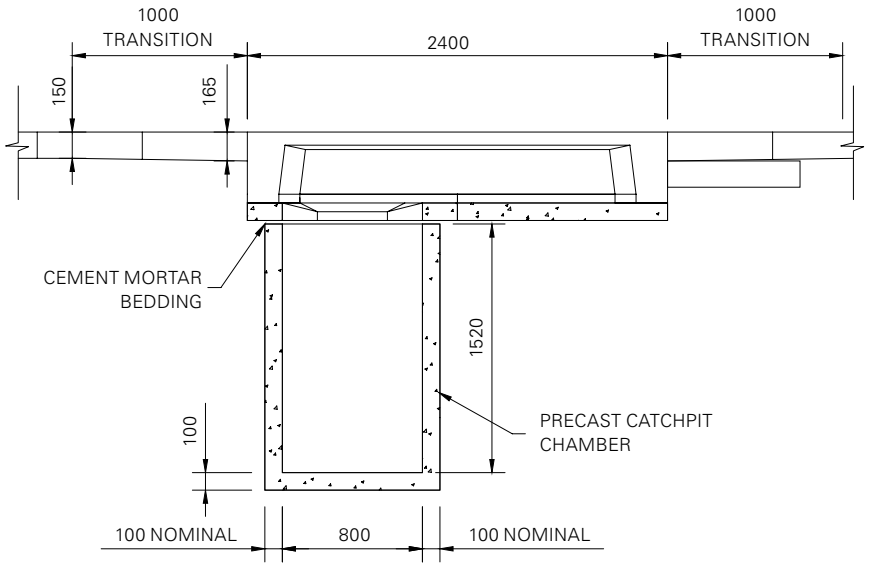
Hynds type 'S' Street Catchpit installation drawing T2586-1A

- Suitable for The Hynds Slam Lock Hydro grate, Class D Grates and Frames 800 x 450 mm opening.
- Auckland Council specifies the Hynds Slam Lock Hydro Grate and Frames.
- Transition – Kerb height changes from 150 to 165 mm.
- Refer to Auckland Transport Drawing RD038 - RD041 or Hynds drawing T2586-1A for the arrangement of the catchpit.
- Refer to Auckland Transport Drawing RD002 - RD003 for design charts.



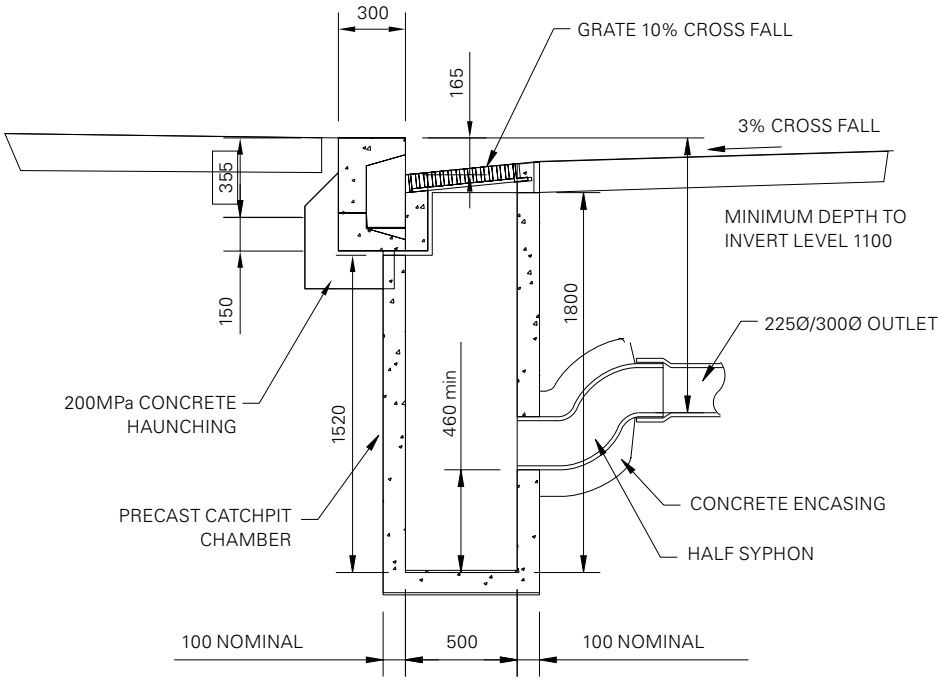
PLAN

Scale: NTS



SECTION A - A

Scale: NTS



Section B–B

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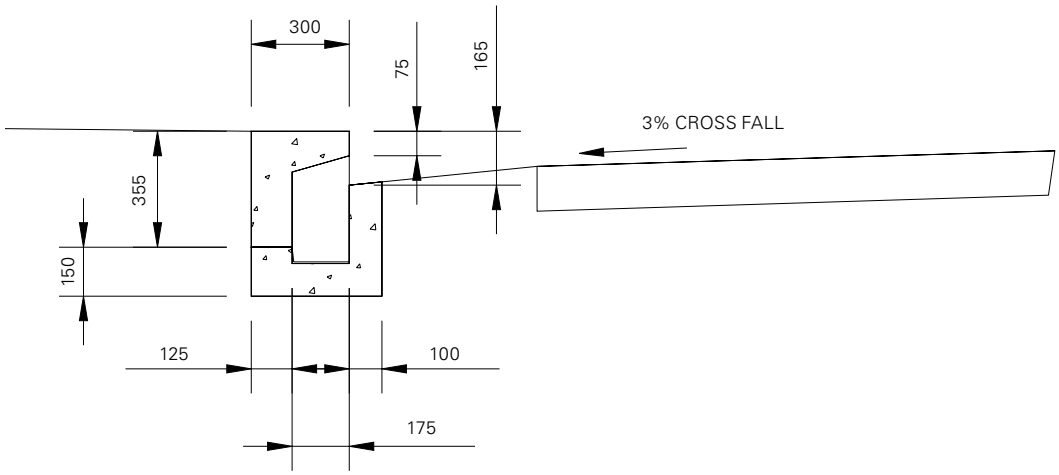

Section C–C

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Lifting and Handling

All Hynds Street Catchpits feature certified concrete lifting anchor systems, designed and tested to guarantee safe and secure handling.

Hynds Pipe Systems has designed and manufactured Hynds Street Catchpits with a minimum dynamic factor of 1.2. This dynamic factor requires that all the following conditions are observed when lifting, moving or placing the catchpits:

1. Lifting with mobile plant *(such as an excavator or similar)* where equipment is specifically exempt from the requirements of the PECPR Regulations 1999, subject to the conditions outlined in the New Zealand Gazette, No. 104, September 2015 and
2. Lifting, travelling and placing over rough or uneven ground where anchor failure is not anticipated to cause harm or injury, by adopting procedures such as:
   a. Transporting the element as close as practical to ground level (300mm recommended)
   b. Establishing and maintaining exclusion zones
   c. Transporting only precast concrete elements that are unlikely to topple if they were to hit the ground
   d. Inspecting lifting anchors both after transportation and before final lifting into place
3. All Hynds concrete lifting anchor systems are engineered in accordance with Haeussler specifications, ensuring full compatibility with Reid, Deha, CLS, and Ancon lifting clutches, as well as recess formers, across corresponding load ranges.

Refer to "Safe work with precast concrete - Handling, transportation and erection of precast concrete elements" published by Worksafe New Zealand (October 2018).

Shock loads resulting from travelling with suspended street catchpits over rough terrain and uneven ground may exceed design, dynamic and safety factors of the lifting systems. It is essential that care is taken during lifting and transporting as additional stresses could result in anchor failure.

Branches Nationwide *Support Office & Technical Services 0800 93 7473*

Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hynds product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hynds unless expressly stated in any sale and purchase agreement entered into between Hynds and the user.