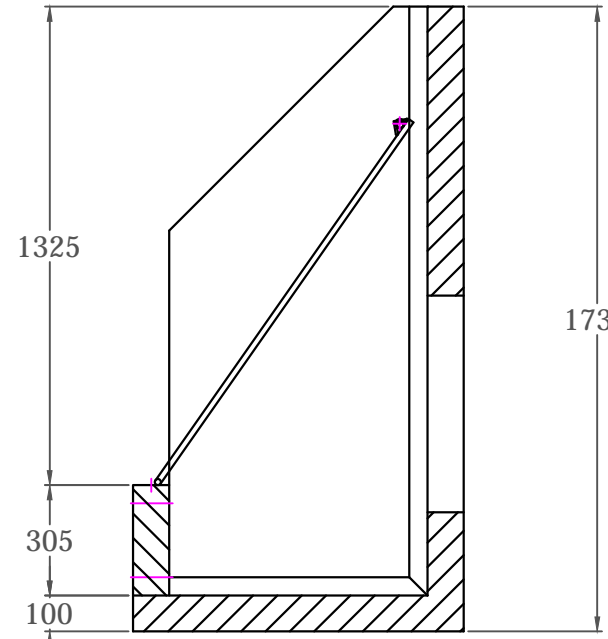
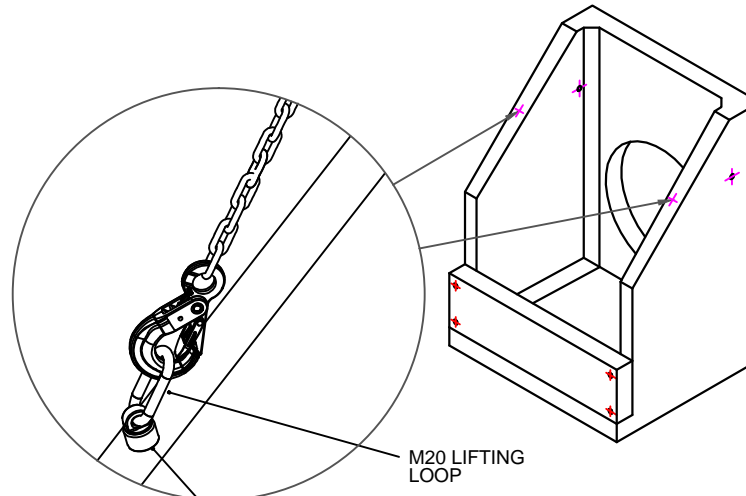
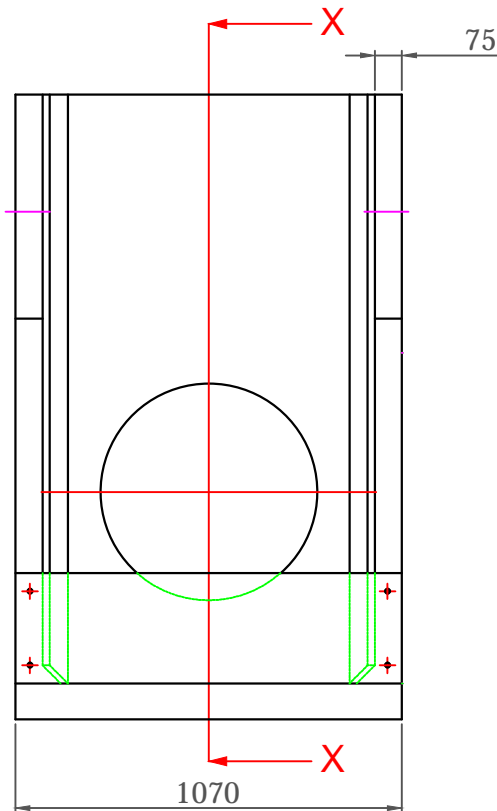
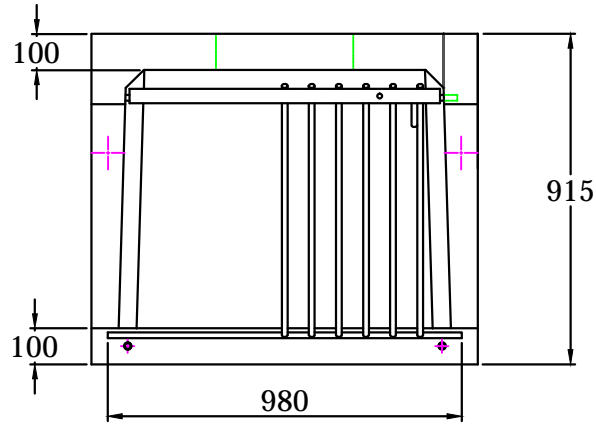


Opening in back wall cast to suit the outside diameter of the pipe at invert height required.

Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



Section XX

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm U.O.S
- All measurements ± 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipework.
- Invert level of pipe can be set to your specification.

Headwall Installation

Units should be bedded on minimum 100mm thick well compacted Class 6A selected well graded granular material.
 *Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
 Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below.
- Unit to be lifted as per lifting diagram.

Concrete

- Mix ref: Self-Compacting DC4/DS4 Mix
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369.
- Scheduling, dimensioning, bending & cutting to BS8666.
- Cage to be machine tied with steel wire.

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control Certificate number: 0086-CPR-650448 & BS EN 13369.
- Tolerances to BS EN 13369 clause 4.3.1.1

Finishing

	Top	Sides	Rear	Rear of back wall
Class	A	A	A	Self-Levelled
D. Marking: Units shall be indelibly marked to show:				
+ Mould Reference code.				
+ De-mould date.				
+ Job reference number & unique product number.				
+ Unit weight (kg)				

Design

- Concrete design to EC2.
- JKH have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer.
- Units are designed to withstand a vertical live load surcharge of 10kN/M².
- Weight of soil = 18kN/M².
- Angle of internal friction = 30°.
- Design Life: >50 years

Min Cover	Cover Block	Min Cover	Max Cover
Classification	by Carbonation	by Chloride	by Chloride
All Faces	33	28	38
	32/31	32/31	32/31

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted without reaming.
- Galvanising is carried out after fabrication to BS EN: ISO 1461.

Handrail Specification

- Kea Klamp Galvanised Size 8 Fittings.
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255.
- 360N/m Design Load as stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI).
- Other design loads available on request
- GRP/FRP Handrails also available.

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WEBSITE: www.jkhhd.co.uk

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DRAWING TITLE / PROJECT:

**Type X Silt Trap
1730mm Tall**

CLIENT:	Client
SCALE:	NTS
DRAWING DATE:	17/07/2019
TOTAL WEIGHT:	14750kg
DRAWN BY:	LC
CHECKED BY:	-
DRAWING No:	

TYPE X SILT TRAP 1730

