

NOTES:

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

Specification Information

Opening in back wall cast to sult outside diameter of the plpework.
Invert level of pipe can be set to your specification.

Headwall Installation
Units should be bedded on minimum 100mm thick well compacted Class
for Selected well graded granular material.

\*Manual of contract documents for Highway Works: Volume (MCHW1)
specification for Highway Works, Series 800 (Nov 99).

Sit the headwall level or with a slight fell 1:50 from pipe to spill mouth.

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.

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.

A. Reinforcement to BS EN 13369.

Scheduling, dimensioning, bending & cutting to BS8666.
Cage to be machine tied with steel wire.

A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control Certificate number: 0086-CPR-650448 & BS EN 13360

Tolerances to BS EN 13369 clause 4.3.1.1 Finishing:

De-mould date.

Job reference number & unique product number.

Unit weight (kg)

Concrete design to EC2.

Mould Reference code.

JKH have designed the concrete units only, the site conditions should be assessed for sultability 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

	Size (mm)	Size (mm)	Size (mm)	
All Faces	33	28	38	]
Expanse	Exposure Induced	Conceton Induced	Freeze/thiny	Chemical
Classification	by Carbonation	by Chloride	attack	92ack

Fabrication Specification
A. Manufacture IAW EN 1090-2 EXC CLASS 1
B. Material grade is to be: BS EN 10025 \$275
C. Welding carried out IAW EN 1090-2 PARA 7.5.4-7.5.18
D. All fillet and but welds to have a misminum throat thickness of 6 mm 8. joints to be fully welded where possible.
E. Ensure vertical filds are tully welded both sides where

Ensure Vertical hats are fully webset boon shees where possible.

All sharp edges and burns 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.

Handrall Specification
A. Kee Klamp Galvanised Size 8 Fittings.
B. Size 6 48.3mm OD 3.2mm Wall Thickness Galvanised
Medium Duty Tube to BS EN 10255.
C. 360N/m Design Load as stated in BS 6118, BS 6160, BS
6399 & BS 7818, Civil Engineering Specification for the

Water Industry (CESWI).
Other design loads available on request
GRP/FRP Handralls also available.



ADDRESS: JKH LIMITED SUKH LIMITED HAMPSTEAD AVENUE MILDENHALL IP28 7AS

TEL: 01638 713795 FAX: 01638 582507 EMA L: Info@jknlid.co.uk WEBSITE: www.jkhlid.co.

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DRAWING TITLE / PROJECT:

## 2000-1650 + close coupled grating

(	Client	
NTS	DRAWING DATE:	26/02/2019
	GRATING WEIGHT:	
3200kg		155kg
3		
DH	CHECKED BY:	JP
	NTS 3200kg 3	3200kg GRATING WEIGHT:

2000-1650 Headwall