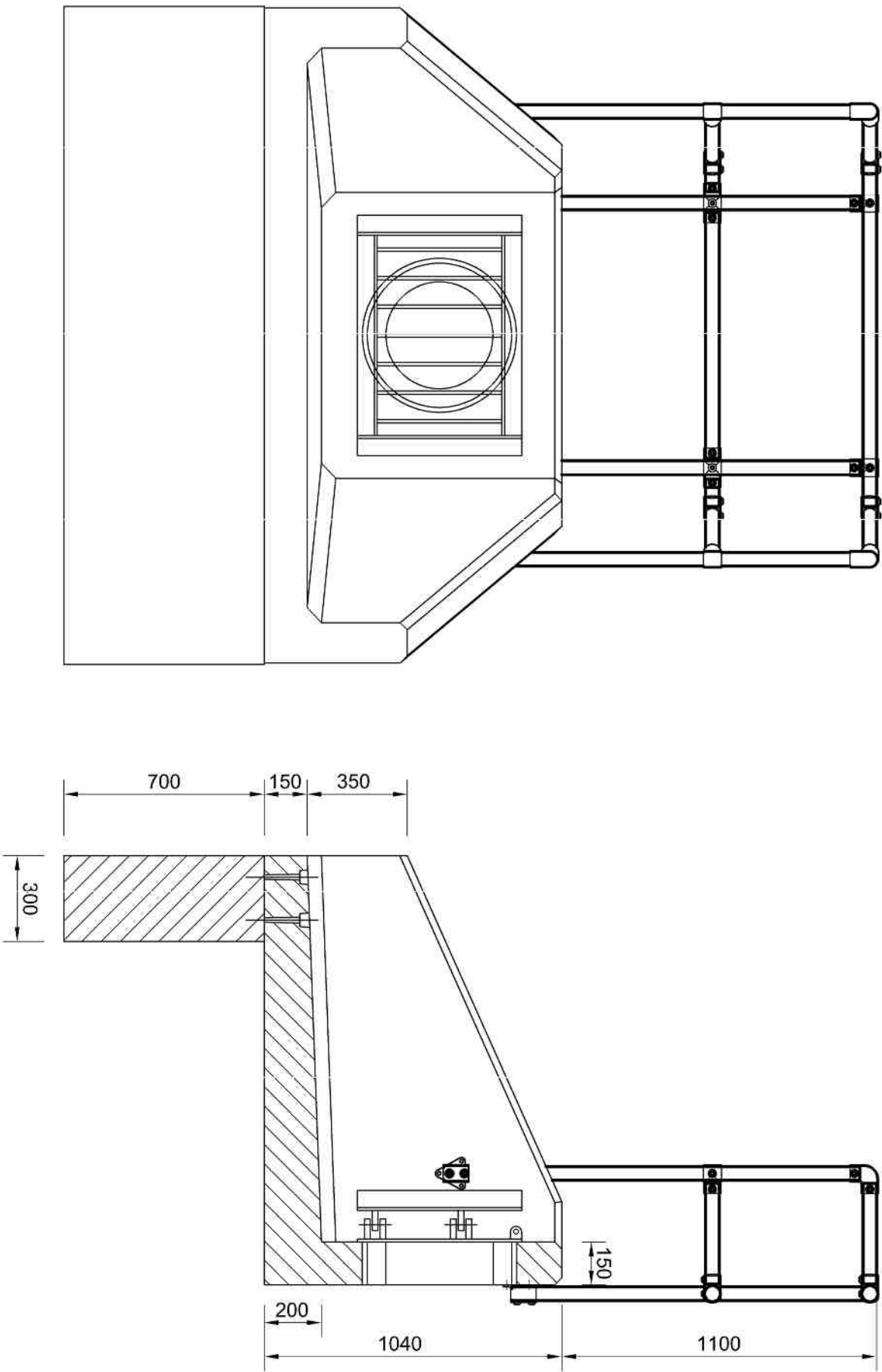
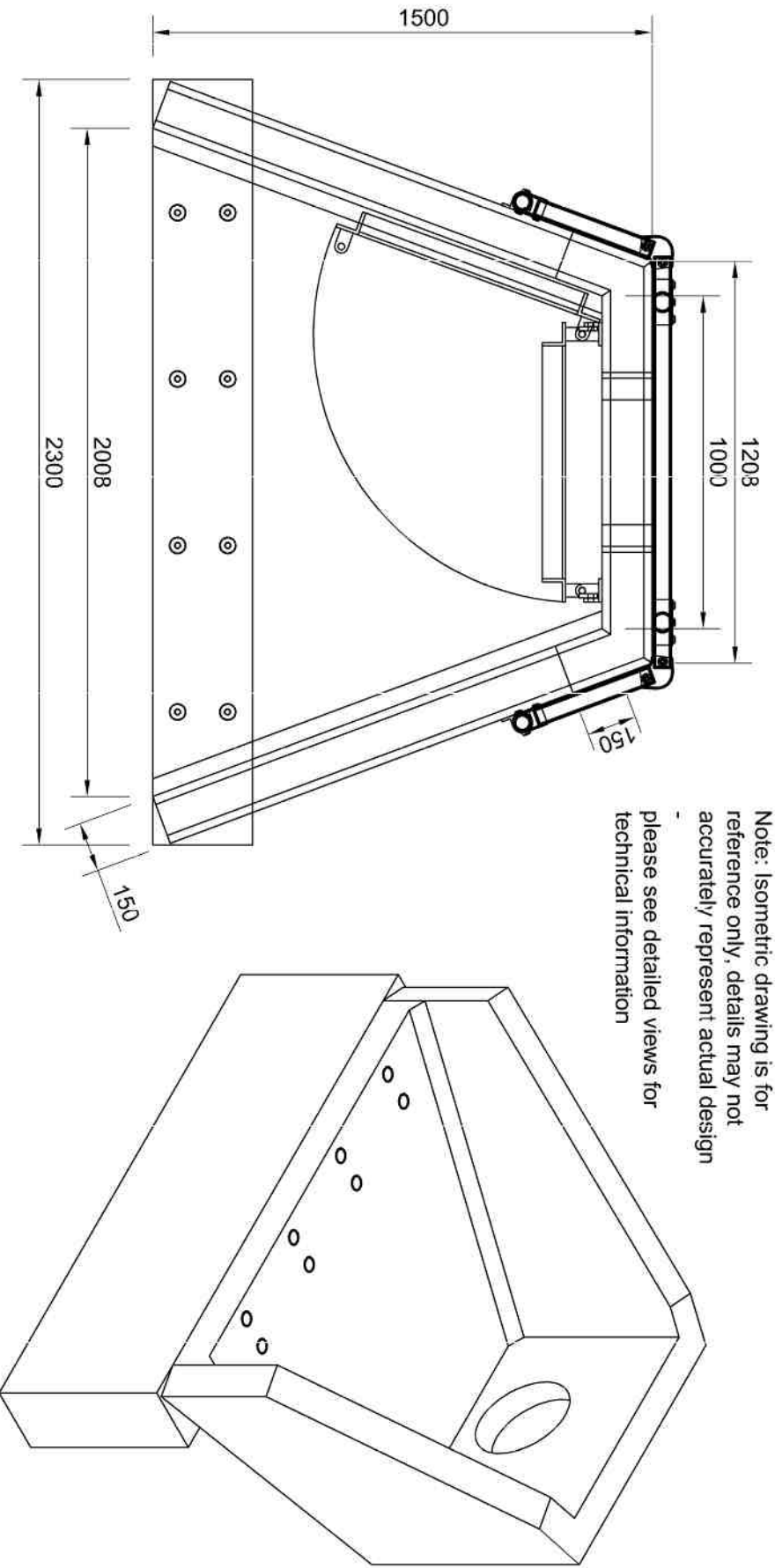




SFA10B Headwall

SFA1 375 Outfall Safety Grille

3 Sided Kee Klamp

Subject to Anglian Water Approval
(Scale 1:20)

NOTES:

- All dimensions in mm
- All measurements $\pm$ 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 200mm 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 DCA/DS4 Mk
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DCA) 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:

- Marking: Units shall be indelibly marked to show:
- De-mould date
- Job reference number & unique product number
- Unit weight (kg)

Design

- Concrete design to EC2
- Allion 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/m³
- Angle of internal friction = 30 Deg.
- Design Life > 100 years

Min Cover	Cover Back	Min Cover	Max Cover
All Faces	50 (mm)	50	80
Exposure Class	Exposure induced by chlorides from sea water	Common indoor use	Freshwater
Min Cover	50	50	80
All Faces	XCS4	XCS	XFS
Exposure Class	XCS4	XCS	XFS

Fabrication Specification

- Manufacture JAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out JAW 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 flaps are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld spatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN ISO 1461

Handrail Specification

- Kee Klamp® Galvanised Size 8 Fittings
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- 360Nm Design Load as stated in BS 8118, BS 6130, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- Other design loads available on request
- GRP/FRP Handrails also available

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

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The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown herein relating to existing underground drains, man services, cables, etc., and existing structural elements are as obtained by ground survey, observation method, although the designer does not warrant the accuracy of the information made or given for the completeness or accuracy of this information.

Note:

Construction to be in accordance with Sewers for Adoption 6th Edition.

The specification in all respects shall be in accordance with the current Construction publication in force in the county at the time of construction. The minimum longitudinal fall for highways without channel blocks shall be 1 in 150, and with channel blocks 1 in 250.

General deterioration of the existing highway/footway/verges created through construction of the new section. All development will be restricted to the construction of the new section. All development will be restricted to the construction of the new section. All development will be restricted to the construction of the new section.

No private surface water shall discharge onto the adoptable highway. No private structural features shall overhang the adoptable highway. No private structural features shall overhang the adoptable highway. No private structural features shall overhang the adoptable highway.

19/08/2019 11:11
REVISED DATE DRAWN CHECKED



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CLIENT Seagyle Homes Ltd

PROJECT Residential development off Station Road, Surfleet

DRAWING Althion Pre-Cast Headwall

DRAWN S11 PROJECT DESIGNER JG PROJECT DIRECTOR KB

DATE Aug 2019 SCALE 1:20 PAPER SIZE A1

DRAWING NUMBER 428.RS.824

Working in partnership with North Cambridgeshire Association & Sewer Consultants