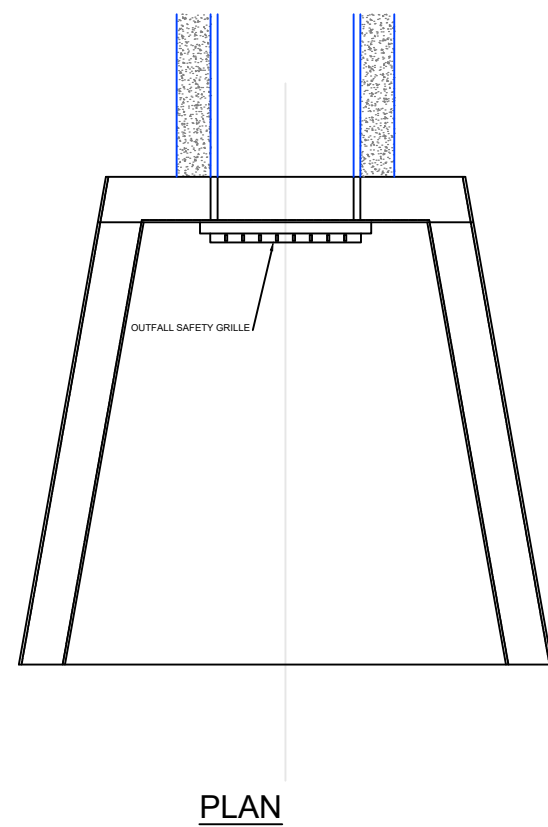
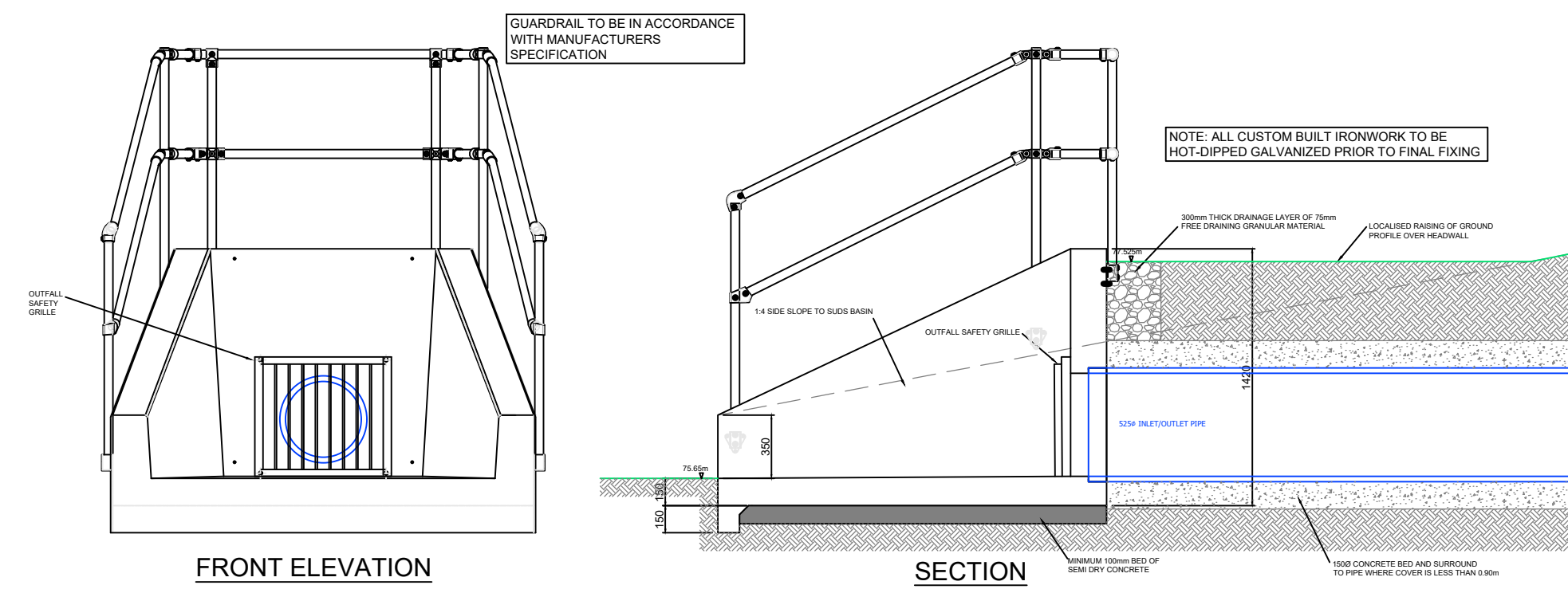


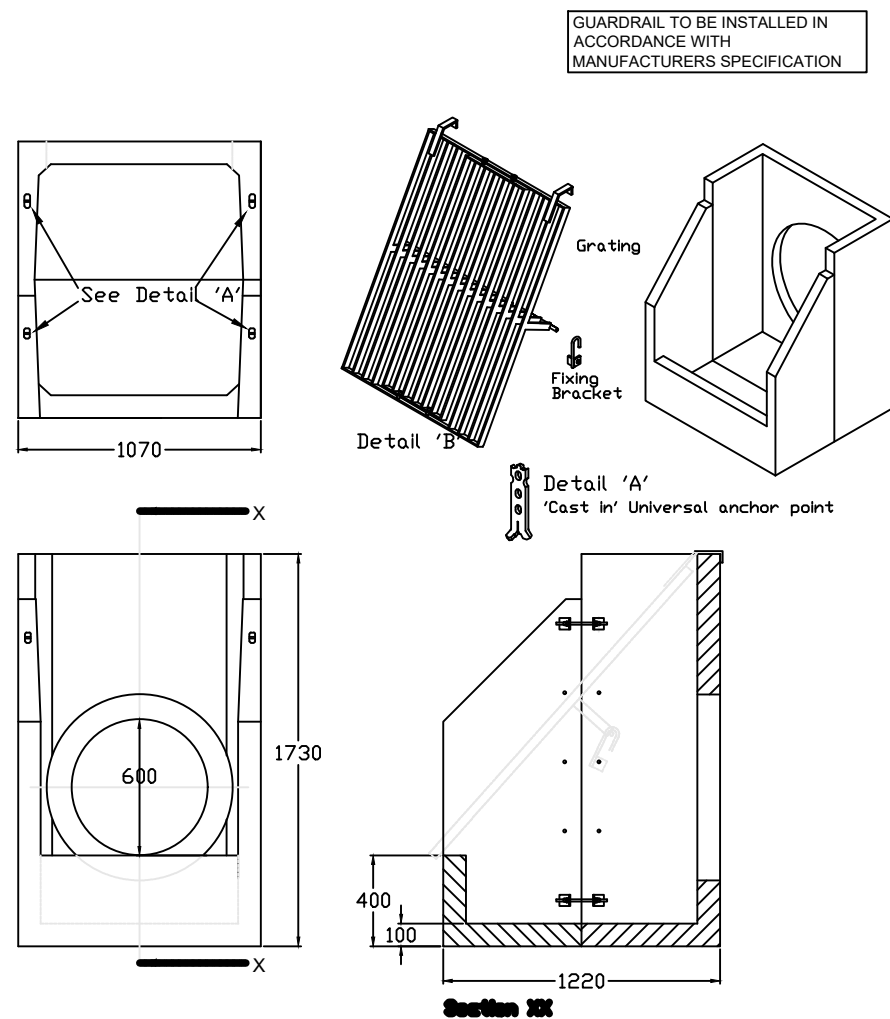


1. Handling				
a) Unit Volume / Weight:				
Part	Vol (m³)	Weight (T)	Wt + 5% (T)	
100 MMW	0.74	1.92	2.02	
Weight is based on 2.8 T/m³				
+ 5% is recommended for sizing lifting equipment.				
b) All lifting points shall be used as specified below:				
System	Total Qty	Reference	Capacity	
Throughed Studs and Loops	3	RD 24	2T	
c) Lifting Loops can be bought from FP McCann				
d) Unit to be lifted as per lifting diagram				
2. Concrete				
a) Mix ref: Wet Cast Mix				
b) Lifting strength based on 2 cubes = 15N/mm²				
c) Characteristic 28 day cube strength = 50 N/mm²				
d) Concrete provides Design Chemical Class 4 (DCA) to Special Digest 1, Table F2.				
3. Reinforcement				
a) Reinforcement to BS4449.				
b) Scheduling, dimensioning, bending and cutting to BS8666.				
c) Cage to be tack welded and or tied with 17 gauge annealed tying wire.				
4. Manufacture				
a) Manufactured to BS EN 13369: 2013				
b) Tolerances to BS EN 13369: 2013, Clause 4.3.1.1				
c) Finishing:				
Class	Underside	Soffit	Sides	
	Wood Finish	A	A	
d) Marking: Units shall be indelibly marked to show:				
• unit reference				
• cast date				
• contract number or name				
• unit weight				
5. Design				
a) Concrete design to EC2				
b) Design Loading: Soil density = 20kN/m³; Surcharge of 10kPa & 4k = 0.72				
c) P P McCann have designed the concrete units only, the stability of the support conditions should be checked by the overall scheme designer.				
d) Design Life: >100years.				
Min cover	Cover block	Min cover	Max cover	
All faces	size (mm)	(mm)	(mm)	
	35	30	40	
Exposure				
All faces	XC-S4	XD1	XF4	

TYPICAL INSTALLATION WITH GUARD RAIL



ALTHON 2PHDST A SILT TRAP



NOTES:

2PHDST Specification Information

- Opening in back wall cast to suit outside diameter of the pipework
- 2PHDST A suitable for pipework up to 600mm ID Twinwall or Concrete

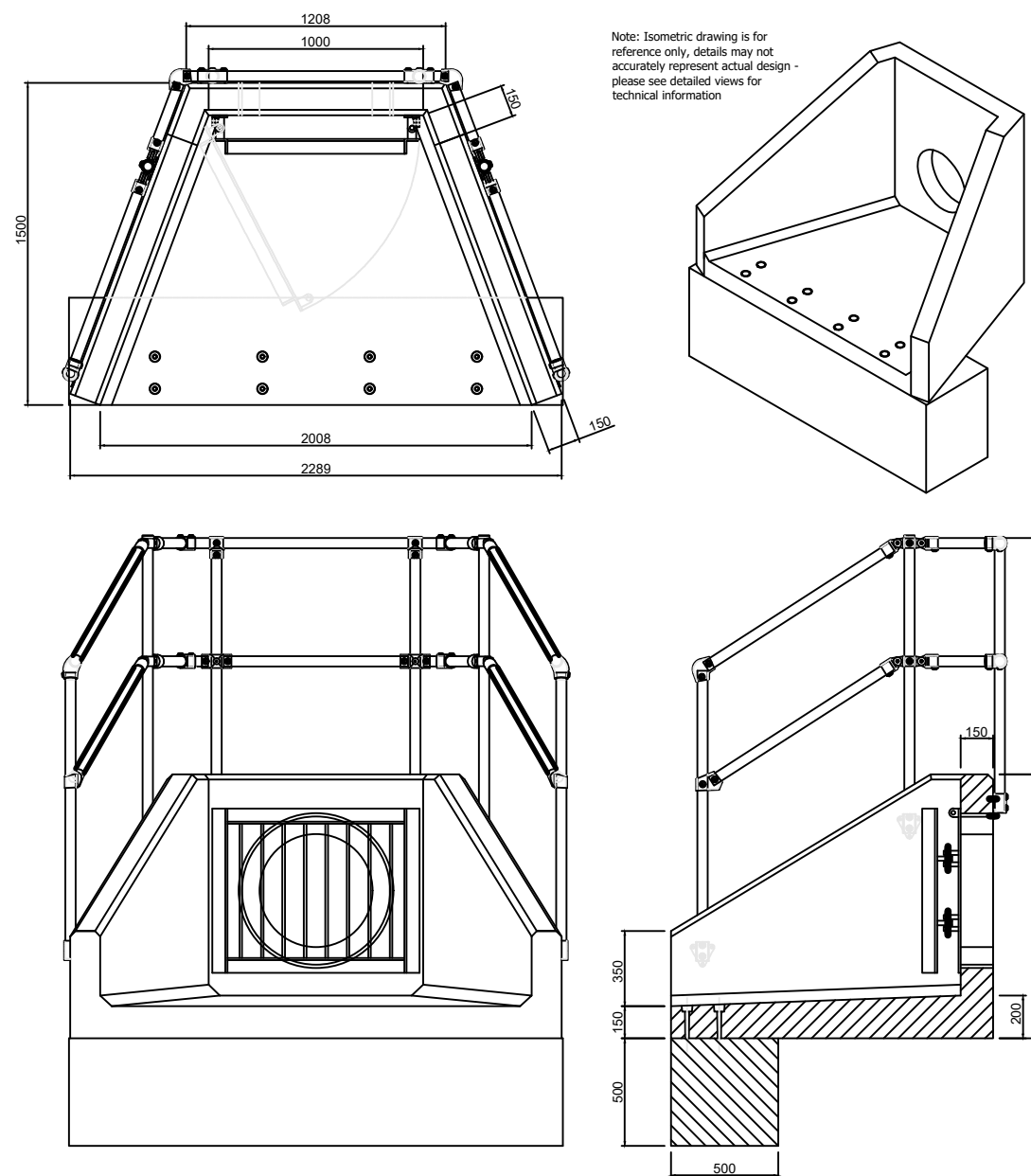
Althon 2PHDST Silt Trap Installation

Units should be bedded on minimum 100mm of semi-dry concrete. Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.
Material: Reinforced Concrete
Weight approximately 1350kg
All dimensions in mm

HEADWALL S35



ALTHON SFA 10C HEADWALL 500x500 TOE WITH 525 OUTFALL SAFETY GRILLE AND 3 SIDED KEE KLAMP



NOTES:

- All dimensions in mm
- All measurements ± 1mm
- Specification Information
- Opening in back wall cast to suit outside diameter of the pipework
- Advert 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.
- Material of contract documents for Highway Works: Volume (H01) specification for Highway Works, Series 600 (Nov 05).
- Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.
- Handling
- A Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- B All lifting points shall be used as specified below
- C Unit to be lifted as per lifting diagram
- Concrete
- Mix ref: Self compacting DCA/D54 Mix
- B Lifting strength based on 2 cubes = 20N/mm²
- C Characteristic 28 day cube strength = 50N/mm²
- D Concrete provides Design Chemical Class 4 (DCA) to special Digest 1, Table F2.
- Reinforcement
- A Reinforcement to BS EN 13369
- B Scheduling, dimensioning, bending & cutting to BS8666
- C Cage to be machine tied with steel wire
- Manufacture
- A Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0948-CR-45946 & BS EN 12369
- B Tolerances to BS EN 13369 clause 4.3.1.1
- C Finishing:
- Class
- Underside
- Soffit
- Sides
- Wood Finish
- A
- A
- D Marking: Units shall be indelibly marked to show:
- mould reference code
- cast date
- job reference number & unique product number
- unit weight (kg)
- Design
- A Concrete design to EC2
- B Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- C Units are designed to withstand a vertical live load surcharge of 10kN/m²
- D Weight of soil = 18kN/m³
- E Angle of internal friction = 30 Deg.
- F Design Life: > 100 years
- Min Cover
- Cover block
 Min cover | Max cover || All faces | size (mm) | (mm) | (mm) |
| | 35 | 30 | 40 |
| Exposure | | | |
| All faces | XC-S4 | XD1 | XF4 |

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