

DO NOT SCALE DRAWING

2.

4

NOTES:

All dimensions in mm 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 200mm thick well compacted Class 6A* selected

Units should be bedded on minimum zuommi unice wen compared class on solucional 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

Α.	Weight of concrete is based on 2.4 tonne/m3+5% is recommended for sizing lifting				
	equipment.				
D	All lifting points abolt he used as excelled below				

B. All lifting points shall be used as specific.Unit to be lifted as per lifting diagram

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

- Reinforcement A. Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending & cutting to BS8666 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: 0086-CPR-650448 & BS
 EN 13369 Tolerances to BS EN 13369 clause 4.3.1.1
- Finishing:
- Top Sides Base 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

 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 Units are designed to withstand a vertical live load surcharge of 10kN/M² Weight of soil = 18kN/M²
- Angle of internal friction = 30 Deg. Design Life: >100 years

1	Min Cover	Cover Block Size (mm)	r Block Min ((mm) Size		Max Cover Size (mm)	
	All Faces	55		50	60	
	Exposure Classification			Corrosion induced by Chloride		ez att
	All Faces	XC3/4		XD3		Х

Fabrication Specification A. 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

attack

- All sharp edges and burrs are to be removed. Remove all weld splatter.
- G
- Holes by punching are permitted with reaming. Galvanising is carried out after fabrication to BS EN:ISO 1461

CE

- Handrail Specification

 A.
 Kee Klamp@Galvanised Size 8 Fittings

 B.
 Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS
- sourvm Lesign Load at stated in BS 8118, BS 6180, 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

E.	GRP/FRP	Handrails	also	available	

REV NO	REV NO DATE DESCRIPTION					
Althon						
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DRAWING TITL	E / PROJECT:					
SFA20C Headwall 400 x 300mm Toe SFA1 1200 Outfall Safety Grille						
CLIENT:						
SCALE:	PAPER:	SHEET N		DATE:		
NTS	A3		01 OF 01	04 - 10 - 18		
HEADWALL WEI		30kg	TOE WEIGHT:	1095kg		
PRODUCT NAME	PRODUCT NAME: SFA20C					
DRAWING No:	DRAWING No:					