

ALTHON SFA15A HEADWALL AND SFA1 750 OUTFALL SAFETY GRILLE 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 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

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 A. MIX REF: SELF-COMPACTING DC4/DS4 MIX B. LIFTING STRENGTH BASED ON 2 CUBES = 20N/MM²

C. CAGE TO BE MACHINE TIED WITH STEEL WIRE

- . CHARACTERISTIC 28 DAY CUBE STRENGTH = 50N/MM²
- D. CONCRETE PROVIDES DESIGN CHEMICAL CLASS 4 (DC4) TO SPECIAL DIGEST 1,

REINFORCEMENT A. REINFORCEMENT TO BS EN 13369 B. SCHEDULING, DIMENSIONING, BENDING & CUTTING TO BS8666

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
- B. 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
- C. UNITS ARE DESIGNED TO WITHSTAND A VERTICAL LIVE LOAD SURCHARGE OF
- WEIGHT OF SOIL = 18KN/M2 ANGLE OF INTERNAL FRICTION = 30 DEG.
- F. DESIGN LIFE: >100 YEARS

| Hin Cover | Cover Block | Hin Cover | Max Cover | Size (mm) | Size (mm) | Size (mm) | All Faces | 55 | 50 | 60 |

FABRICATION SPECIFICATION

- A. MANUFACTURE IAW EN 1090-2 EXC CLASS 1 B. MATERIAL GRADE IS TO BE: BS EN 10025 S275
- WELDING CARRIED OUT IAW EN 1090-2 PARA 7.5.4 7.5.18
- D. 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.
- H. HOLES BY PUNCHING ARE PERMITTED WITH REAMING. I. GALVANISING IS CARRIED OUT AFTER FABRICATION TO BS EN:ISO 1461
- HANDRAIL SPECIFICATION A. KEE KLAMP®_GALVANISED SIZE 8 FITTINGS
- C. 360N/M DESIGN 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

B. SIZE 8 48.3MM OD 3.2MM WALL THICKNESS GALVANISED MEDIUM DUTY TUBE TO BS

- STAIRWAYS, LADDERS AND HANDRAILS D. OTHER DESIGN LOADS AVAILABLE ON REQUEST E. GRP/FRP HANDRAILS ALSO AVAILABLE
- 2. ALL GULLY GRATINGS SHALL BE END HINGED TOWARDS THE ONCOMING TRAFFIC, HAVE A MINIMUM DEPTH OF FRAME OF 100mm AND A MINIMUM WATERWAY ARE OF 1020cm2. CLAUSE 3.11. AND SHALL

HEADWALL SW8 DETAIL

SECTION 1

SCALE 1:20

CONFORM TO BS 5911 PART 230. DIMENSIONS WILL BE 450mm DIA. X 760mm DEEP. CLAUSE 3:10 (ii) 4. GULLY CONNECTIONS SHALL BE SURROUNDED WITH CONCRETE FOR

1. STUB AND ROCKER PIPES ARE REQUIRED WHERE CONNECTIONS ARE

MADE INTO, AND THROUGH MANHOLES, PIPES AND STRUCTURES.

1. ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES GUIDELINES AND

2. ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE

MUST BE MUST BE REPORTED IMMEDIATELY.
4. PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE

IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE

THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN

6. THE PROPOSED SEWERS WILL BE CLAY PIPE WORK AND SHALL BE

ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.

EXTRA STRENGTH TO BS EN 295:1991 PART 1.

DIAMETER AND LAID TO THE SPECIFIED INVERT.

13. THE CONNECTION TO THE ADOPTABLE SEWER SHALL BE

PERMITTED UNLESS IT IS CLEARLY SPECIFIED.

SIMILAR APPROVED AT EACH PIPE JOINT.

COMPLY WITH (BS) EN 124 CLASS D400.

STANDARD DETAIL STND/05/001.

SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES

ANY PCC PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.

8. ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS

9. SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE BED AND SURROUND AS FOLLOWS: RIGID

PIPE EMBEDMENT SHALL BE CLASS S. SEMI RIGID PIPE EMBEDMENT

SHALL BE CLASS S ALL IN ACCORDANCE WITH UNITED UTILITIES

10. PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM

11. THE INVERT LEVELS SPECIFIED AT THE DRAG OUT CHAMBER ARE

THE CURTILAGE OF THE DWELLING FOR WHICH THEY SERVE.

12. WHEREVER POSSIBLE PRIVATE DRAINAGE RUNS WILL REMAIN WITHIN

MANUFACTURED JUNCTION PIPES A SADDLE CONNECTION IS NOT

14. ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9m TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150mm GEN 3 CONCRETE BED AND SURROUND WITH

FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR

15. CONNECTIONS TO THE EXISTING SEWER WILL BE IN ACCORDANCE WITH

SECTION 104 APPROVAL GRANTED BY UNITED UTILITIES.

24. CONNECTIONS TO THE EXISTING WATERCOURSE WILL BE IN ACCORDANCE WITH APPROVAL GRANTED BY THE EA.

AND/ OR THE HIGHWAYS AUTHORITY. THE CONTRACTOR WILL NOTIFY

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE LINE AND LOCATION OF ANY EXISTING SEWERS, AS WELL AS ANY EXISTING

GROUND AND INVERT LEVELS SHOWN ON THE DRAWING ARE CORRECT PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES

CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE

STANDARD DETAILS.

APPARATUS.

EN 1917:2002

INCOMING LEVELS.

HIGHWAY NOTES:

TOPOGRAPHIC SURVEY.

FULL LENGTH OF THE CONNECTION. 5. PRE-CAST CONCRETE HIGHWAY MANHOLE CHAMBERS AND SHAFTS

ONLY CONCRETE GULLY POTS SHOULD BE USED AND THESE SHOULD

- SHALL BE SURROUNDED WITH 150mm OF STA4 CONCRETE. CLAUSE 3.22 6. MANHOLE COVERS IN CARRIAGEWAYS SHALL HAVE A MINIMUM DEPTH
- 7. JET AND PROVE ALL EXISTING GULLY CONNECTIONS THAT ARE TO BE

P06 21.04.22 Drainage updates P05 15.02.22 Updated to latest pond design information D.A R.A P04 24.08.20 PRELIMINARY - Updated to suit S.104 comments D.A R.A P03 16.04.20 PRELIMINARY - Updated to suit S.104 comments D.A R.A P02 23.03.20 PRELIMINARY - Updated to suit S.104 comments D.A R.A P01 24.01.20 PRELIMINARY - Issued for information D.A R.A By Chk Manchester . UK 12 Blackfriars Street,



Manchester, M3 5BQ, United Kingdom

T: +44 (0) 161 834 1938

Scale @ A1

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HAWTHORNE FARM

CLITHEROE

DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

PERSIMMON HOMES

AS SHOWN

Drawing Title **HEADWALL SW8 DETAILS**

PRELIMINARY
NOT FOR CONSTRUCTION 19310

19310-EDGE-XX-XX-DR-C-C2203 P06