

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING REFERENCES: 25027-L-E-ZZ-DR-D-005

SECTION 104
3000 - SECTION 104 - BITE LOCATION PLAN
3001 - SECTION 104 - DRAINAGE PLAN - SHEET 1
3002 - SECTION 104 - DRAINAGE PLAN - SHEET 2
3003 - SECTION 104 - CHAMBER SCHEDULE - SHEET 1
3004 - SECTION 104 - TYPICAL DETAILS
3005 - SECTION 104 - HEADWALL DETAILS
3006 - SECTION 104 - FLOW CONTROL DETAILS
3007 - SECTION 104 - CATCHMENT AREAS - SHEET 1
3008 - SECTION 104 - CATCHMENT AREAS - SHEET 2

SECTION 38
0015 - SECTION 38 - HIGHWAY AND DRAINAGE LONGSECTIONS - SHEET 1
0016 - SECTION 38 - HIGHWAY AND DRAINAGE LONGSECTIONS - SHEET 2

THIS DRAWING IS BASED ON THE FOLLOWING DRAWINGS & DOCUMENTATION:
1. LANDSCAPE LAYOUT - STEN ARCHITECTURE, REF 2081-01-M
2. TOPOGRAPHICAL SURVEY - TO THE SERVICE REF 056402
3. ALTHON DRAWING NO. SFA10B
4. ALTHON DRAWING NO. SFA10B

HEALTH & SAFETY RISKS

ANOMALOUS CONSTRUCTION RISKS

ANOMALOUS OPERATION & MAINTENANCE RISKS

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN THE CON REGULATIONS 2015.

IVNL NOTES

1. ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH THE CODES FOR ADOPTING THE RELEVANT BRITISH/BREITAN AND IRLAND STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION (M&E) AND THE ELECTRICAL SPECIFICATION (E&S).

2. MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D40 TO BE IN WITH 100mm DEEP FRAMES IN CHANNELS.

3. FLEED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF INVL BEFORE ANY SEWER WORKS ARE CARRIED OUT.

4. COVER SLABS MUST CARRY THE BS KITEMARK OR WILL BE REJECTED BY INVL INSPECTOR. UNLESS THE CLEAR OPENING OF THE RETAINMENT PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOAD BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600mm X 600mm FOR THE INVL SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA) TECHNICAL BULLETIN ISSUED AUTUMN 2008 FOR RETAINMENT COVER SLAB OPENING SIZES.

5. SULPHATE RESISTANT CEMENT (C30/D2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRODUCTS ARE NOT NECESSARY.

6. THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.9m FROM KERFS AND SERVICE MARGINS.

7. SEWERS MUST HAVE 3 METRE CLEARANCE FROM TREES AND HEDGES. THE WATER RESISTANT SPECIFICATION TABLE 42.2.

8. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER RESISTANT SPECIFICATION TABLE 42.2.

9. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BEDS.

10. ADAPTABLE PLASTIC SEWER PIPES TO BS 830 KITEMARKED IDENTIFIED TO WAS 4.5-5Y AND BENTHINATL ADAPTABLE PLASTIC SEWER PIPES TO BE LAY IN MAXIMUM 3 METRE LENGTHS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHAMBER SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND INFLUENT PIPES SHOULD BE GLASS REINFORCED CONCRETE BECAUSE THEY FLIGHT AND A SATISFACTORY FRESH CANNOT BE OBTAINED ON THE BEING.

11. WHERE A B'S COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING NETS. SCREEN DOWN COVERS ARE NOT ACCEPTABLE.

12. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE BEDDING FOR BOTH PIPES. APPROX. 300mm IF CROSSOVER IS NEAR THE PRODUCE THEN THE CLEARANCE NEEDED MAY BE INCREASED.

THE INFORMATION ON THIS DRAWING IS FOR APPROVAL PURPOSES ONLY. NO CONSTRUCTION WORKS ARE TO BE UNDERTAKEN UNTIL WRITTEN APPROVAL IS RECEIVED FROM BARNESLEY METROPOLITAN BOROUGH COUNCIL & INDEPENDENT WATER ENGINEERS.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK SET OUT ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

Ref	Description	By	Date	Chk'd	Auth
S4	FOR APPROVAL		21.07.25		RSL
S4	FOR APPROVAL		30.06.25		RSL
S41	Purpose of Issue				
P02	AMENDED NETWORK DUE TO PD	TH	21.07.25	CK	RSL
P01	FIRST ISSUE	TH	30.06.25	CK	RSL

Rev. Description By Date Chk'd Auth

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AVANT homes

GREAT HOUGHTON
BARNESLEY

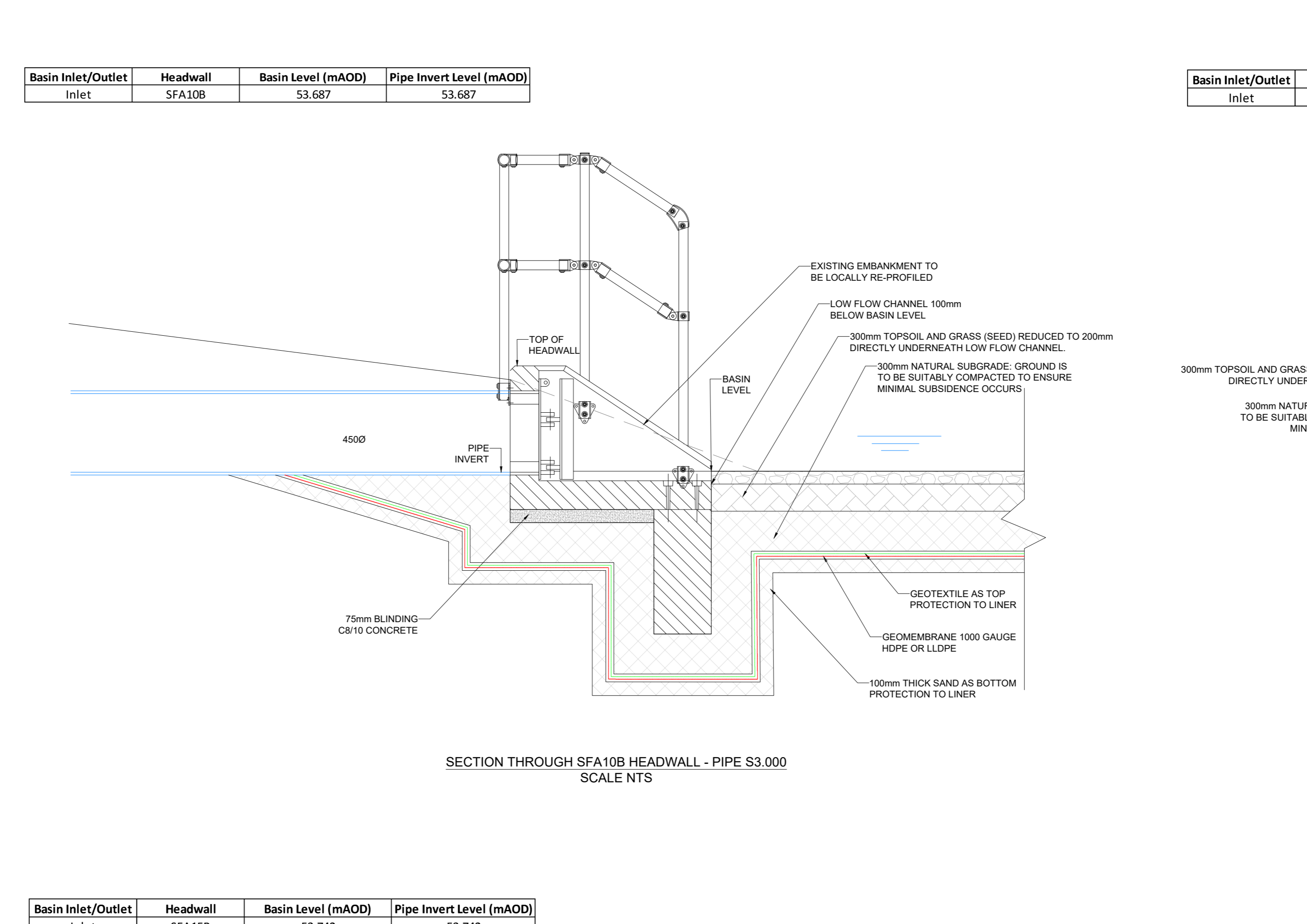
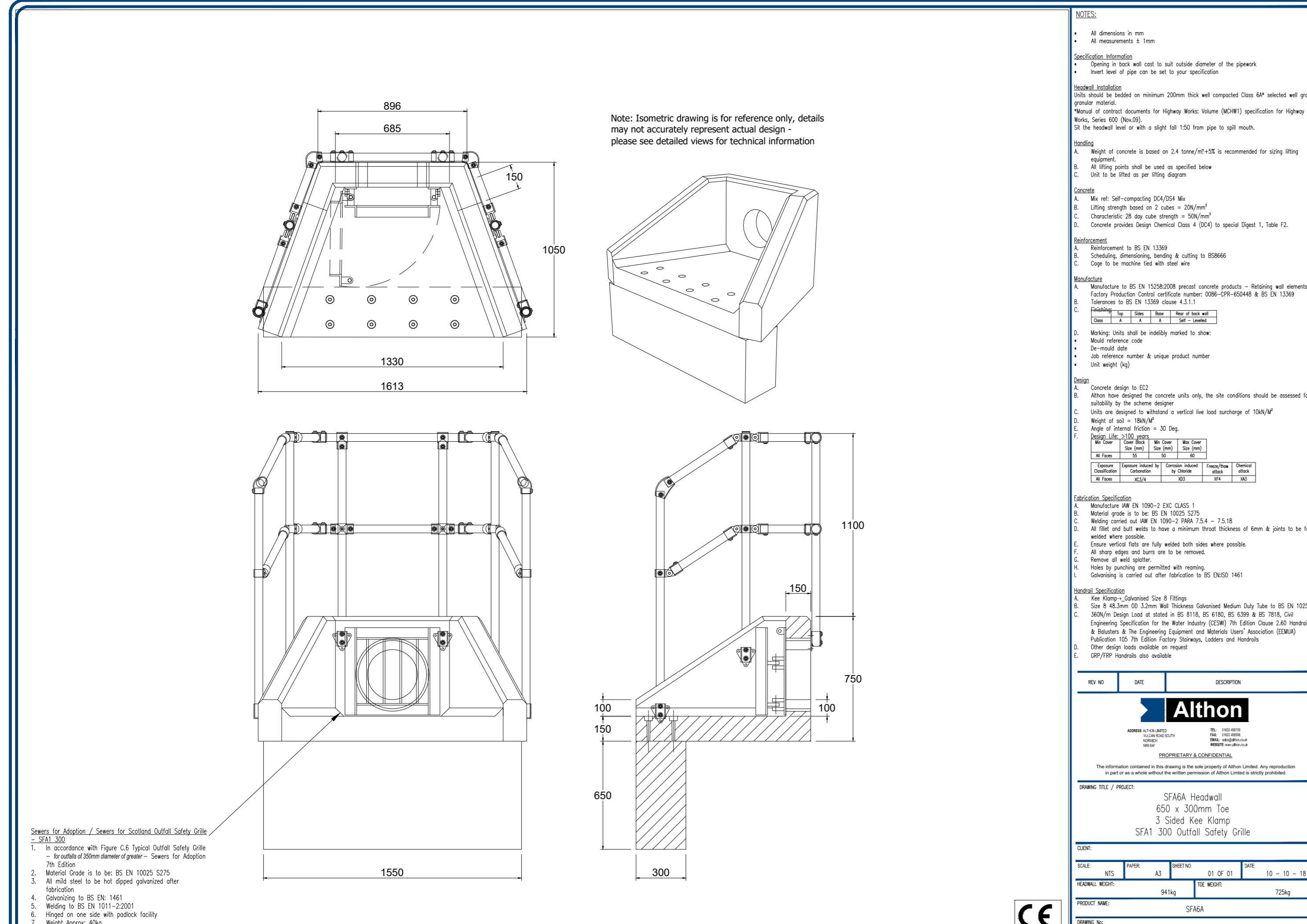
SECTION 104 - HEADWALL DETAILS

Sheet No	Original Scale	Design/Draw	Checked	Authorised
A0	NTS	TH	CK	RSL

Date	By	Date	Date
30.06.25	TH	30.06.25	30.06.25

Status Drawing Number Rev

S4 25027-L-E-ZZ-DR-D-3005 P02



SECTION THROUGH SFA108 HEADWALL - PIPE S3.000 SCALE NTS

SECTION THROUGH SFA109 HEADWALL - PIPE S1.014 SCALE NTS

SECTION THROUGH SFA158 HEADWALL - PIPE S1.015 SCALE NTS

SECTION THROUGH SFA159 HEADWALL - PIPE S1.013 SCALE NTS

150mm OF BACKWALL EXPOSED. LOCAL RE-PROFILING OF EMBANKMENT REQUIRED.

EXISTING EMBANKMENT TO BE LOCALLY RE-PROFILED

LOW FLOW CHANNEL 100mm BELOW BASIN LEVEL

300mm TOPSOIL AND GRASS (SEED) REDUCED TO 200mm DIRECTLY UNDERNEATH LOW FLOW CHANNEL

300mm NATURAL SUBGRADE GROUND IS TO BE SUITABLY COMPACTED TO ENSURE MINIMAL SUBSIDENCE OCCURS

75mm BLINDING C8/10 CONCRETE

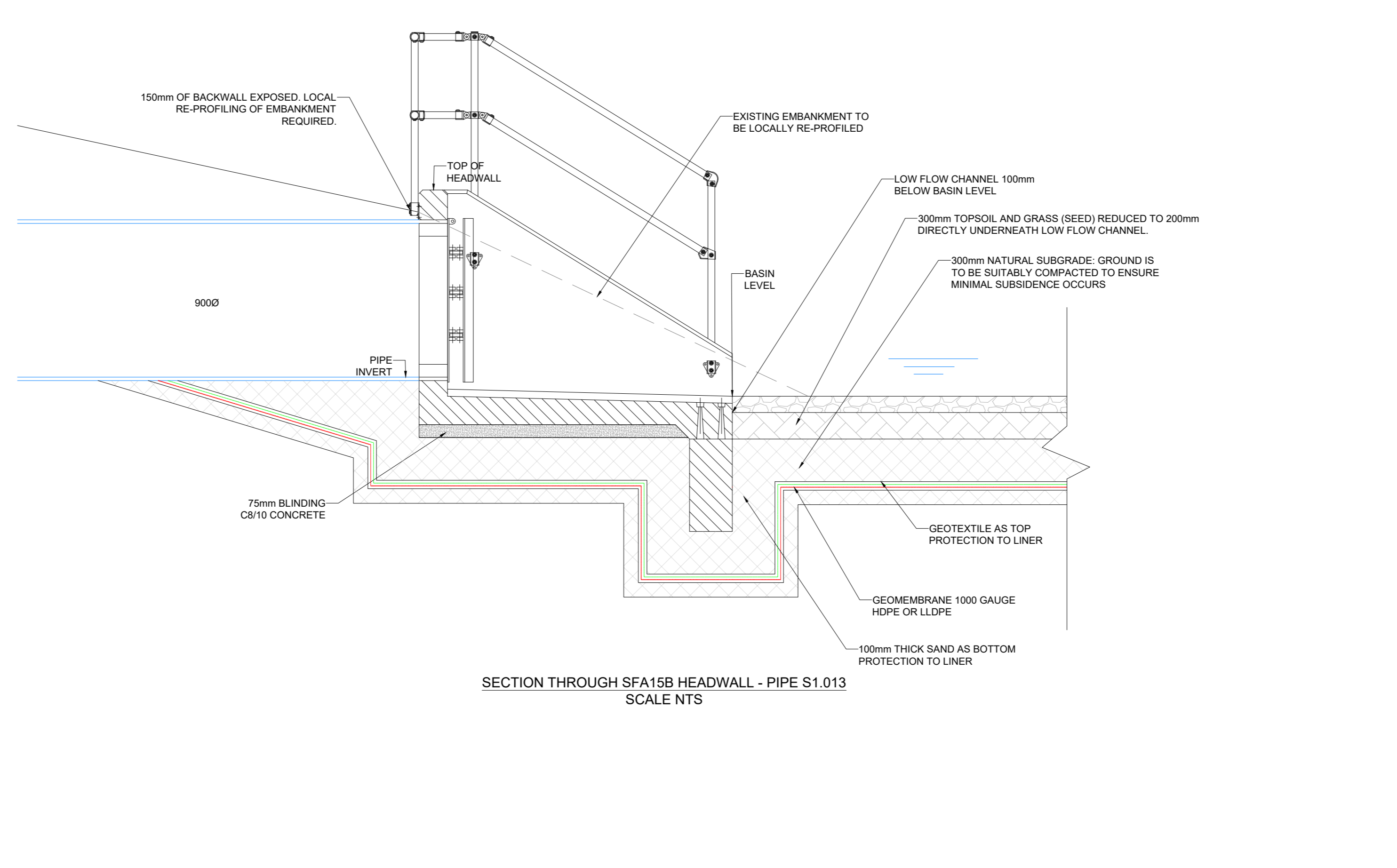
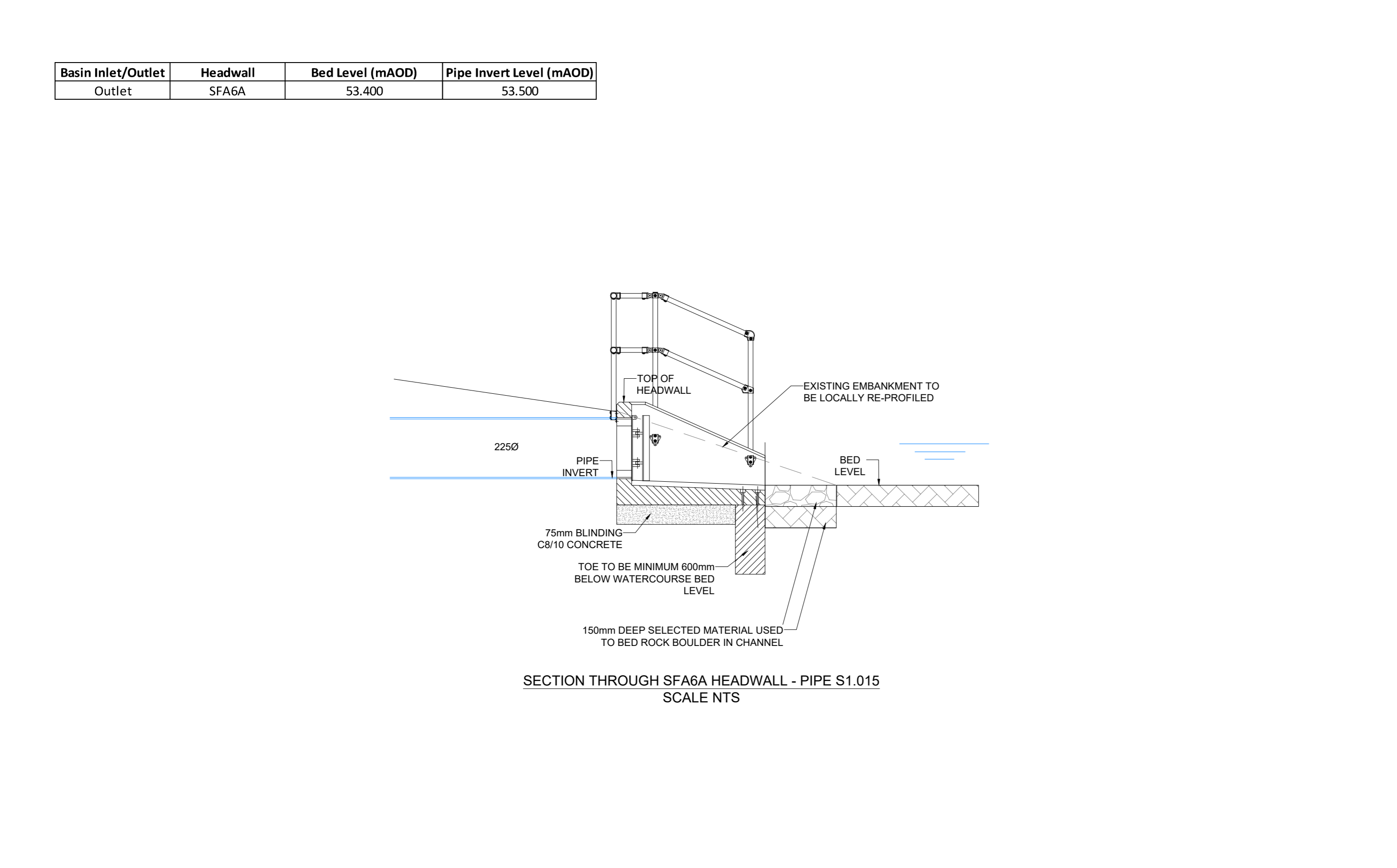
TOE TO BE MINIMUM 600mm BELOW WATERCOURSE BED LEVEL

150mm DEEP SELECTED MATERIAL USED TO BED ROCK BOLLARD IN CHANNEL

GEOTEXTILE AS TOP PROTECTION TO LINER

GEOMEMBRANE 1000 GAUGE HDPE OR LLDPE

100mm THICK SAND AS BOTTOM PROTECTION TO LINER



SECTION THROUGH SFA158 HEADWALL - PIPE S1.015 SCALE NTS

SECTION THROUGH SFA159 HEADWALL - PIPE S1.013 SCALE NTS

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