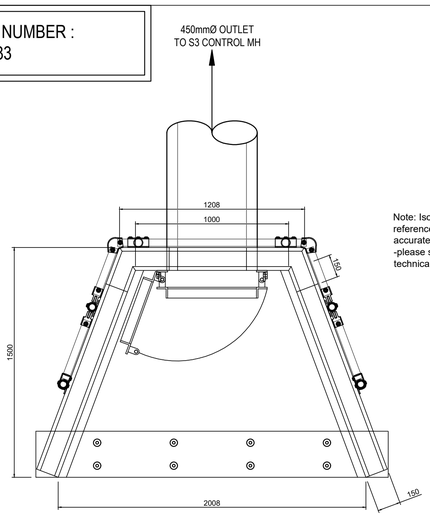
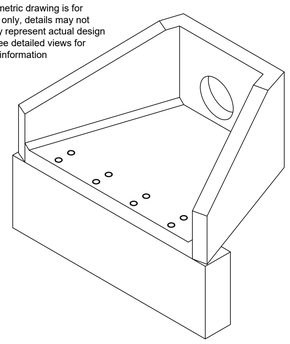
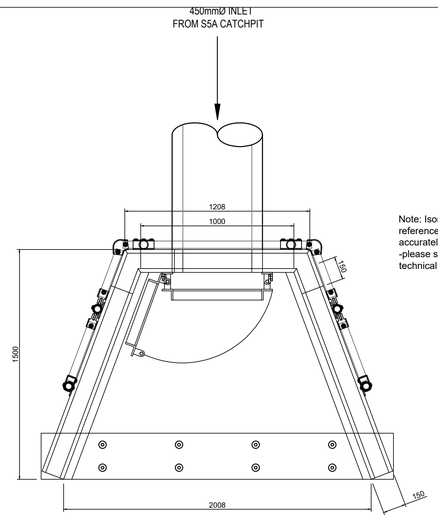
S104 REFERENCE NUMBER :
H-3-264-783



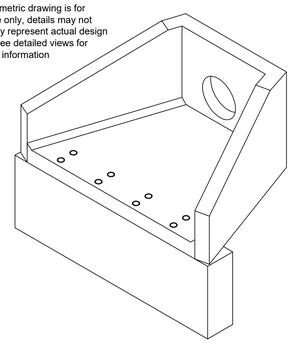
Note: Isometric drawing is for reference only, details may not accurately represent actual design -please see detailed views for technical information



HEADWALL S4 PLAN VIEW

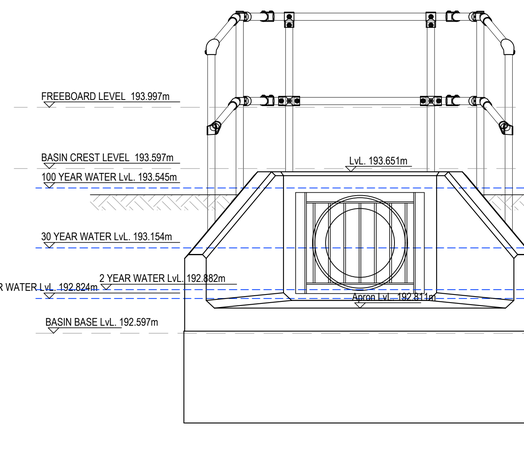


Note: Isometric drawing is for reference only, details may not accurately represent actual design -please see detailed views for technical information

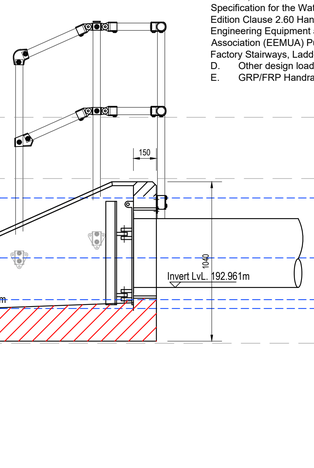


HEADWALL S5 PLAN VIEW

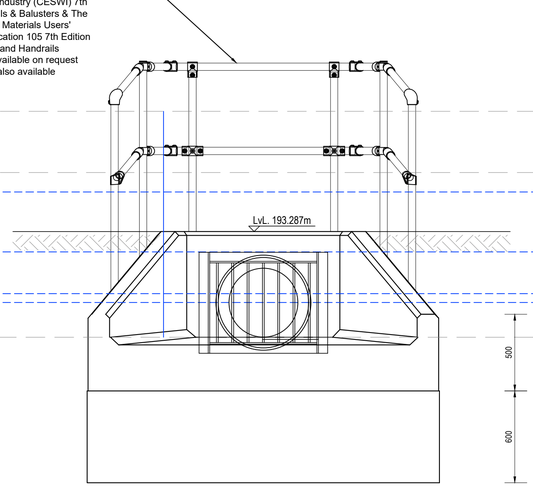
Handrail Specification
A. Kee Klamp® Galvanised Size 8 Fittings
B. Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
D. Other design loads available on request
E. GRP/FRP Handrails also available



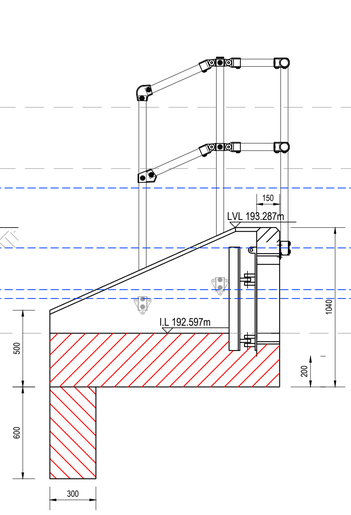
HEADWALL S4 ELEVATION



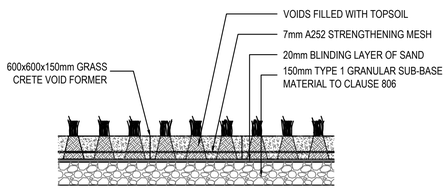
HEADWALL S4 SECTION



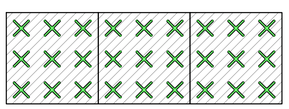
HEADWALL S5 ELEVATION



HEADWALL S5 SECTION



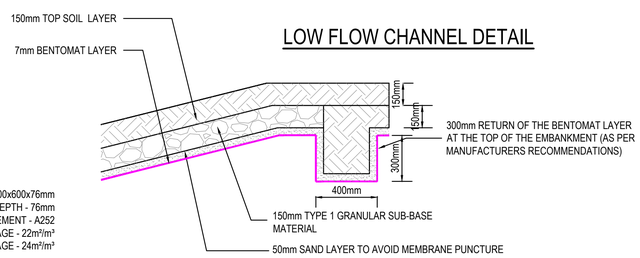
GRASS-CRETE DETAIL
(FOR ACCESS TRACK)
SCALE 1:20



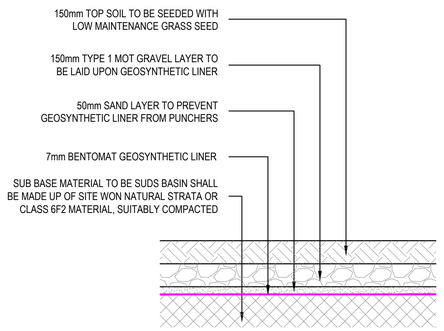
VOID FORMER SIZE - 600x600x76mm
PAVING DEPTH - 76mm
REINFORCEMENT - A252
CONCRETE COVERAGE - 22m²/m²
TOPSOIL COVERAGE - 24m²/m²

GRASS-CRETE PLAN DETAIL
(FOR ACCESS TRACK)
SCALE 1:20

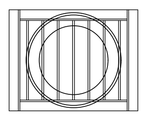
LOW FLOW CHANNEL DETAIL



BASIN LINER ANCHOR
SYSTEM DETAIL
SCALE 1:20



BASIN BUILD-UP DETAIL
SCALE 1:20



DCG Outfall Safety Grille - SFA1 450
1. In accordance with Figure C.6 Typical Outfall Safety Grille - *for outfalls of 350mm diameter of greater* - Sewers for Adoption 7th Edition
2. Material Grade is to be: BS EN 10025 S275
3. All mild steel to be hot dipped galvanized after fabrication
4. Galvanizing to BS EN: 1461
5. Welding to BS EN 1011-2:2001
6. Hinged on one side with padlock facility
7. Weight Approx: 55kg

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN-DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY. LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER DRAINLAND DRAINAGE RUN-OFF
5. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m KERB FACES AND SERVICE MARGINS.
6. SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
7. SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONVEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
8. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2)
9. YORKSHIRE WATER POLICY IS THAT TYPE "C" BRICK MANHOLES AND 1050mm DIAMETER MANHOLE RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE THE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m
10. ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS/EN13476). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAY WARE CHANNEL IN MANHOLES
11. THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS:

100mm DIA - 40kN/m
150mm DIA - 40kN/m
225mm DIA - 45kN/m
300mm DIA - 72kN/m

THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN1916/BS5911-1 2002) PLASTIC PIPES SHOULD CONFORM TO WIS-4-35-01 AND BS EN13476

12. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE
13. THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX 300mm : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED

REV	DATE	DESCRIPTION	BY	CHK	APP
P04	26.05.2022	WL AMENDED TO SUIT REVISED SYSTEM	JCM	JCM	JLS
P03	13.05.2022	UPDATED TO SUIT NEW BASIN	JPR	JCM	JLS
P02	06.04.2022	UPDATED TO SUIT YORKSHIRE WATER COMMENTS	JPR	JCM	JLS

DRAWING STATUS:
PRELIMINARY

CLIENT:
CASEY

ARCHITECT:
TADW

PROJECT:
BROAD OAK
LINTHWAITE

TITLE:
S104 SUDS DETAILS
SHEET 1 OF 2

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	219-174	BRO-	AJP -	ZZ-	00 -	DR -		**C - 1071**	**P04**

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:20	AYM	AYM	JCM	JCM	DEC 2021

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