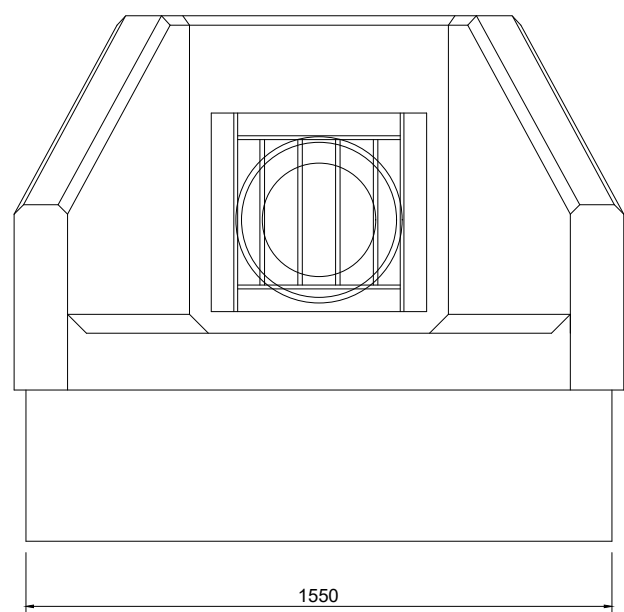
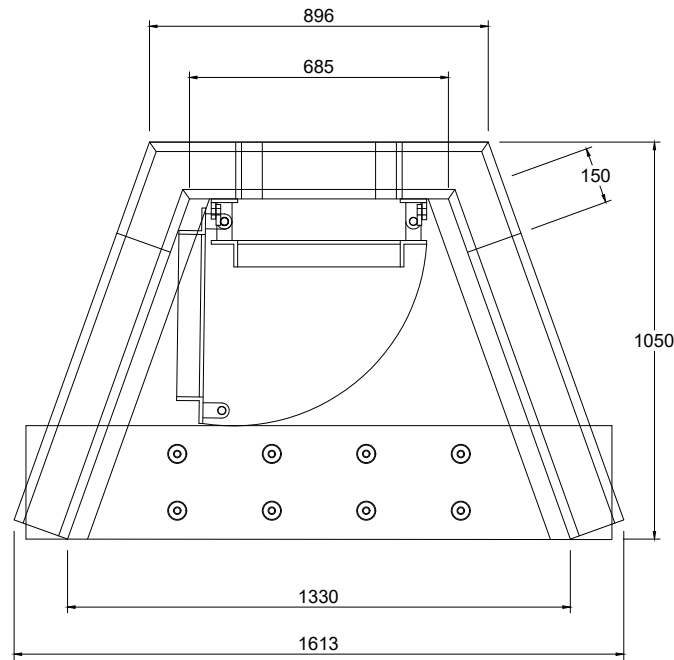
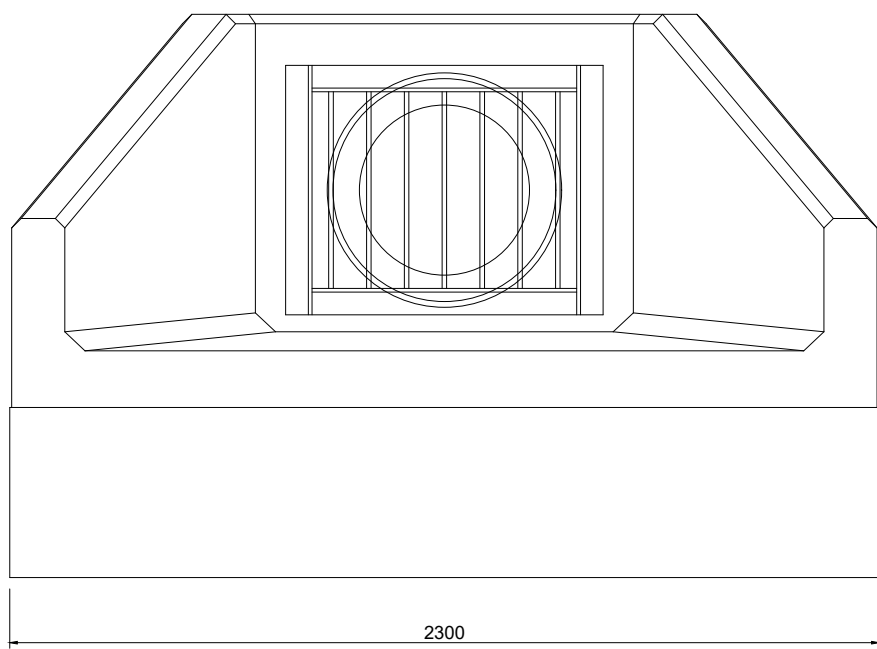
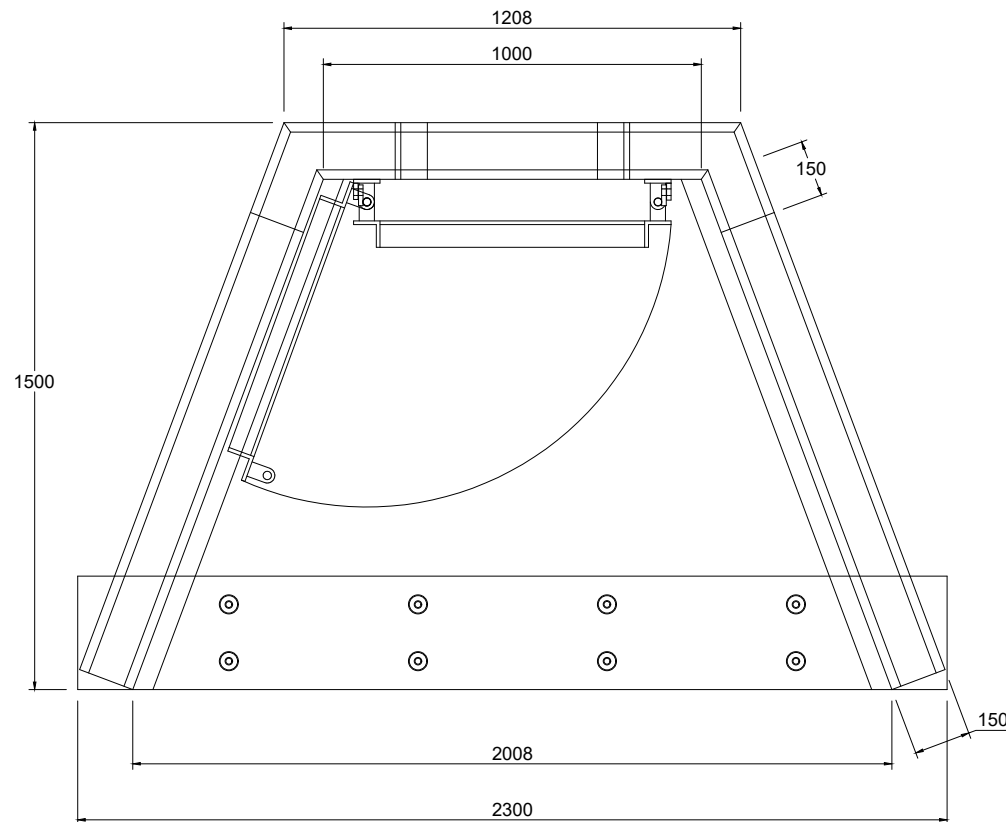


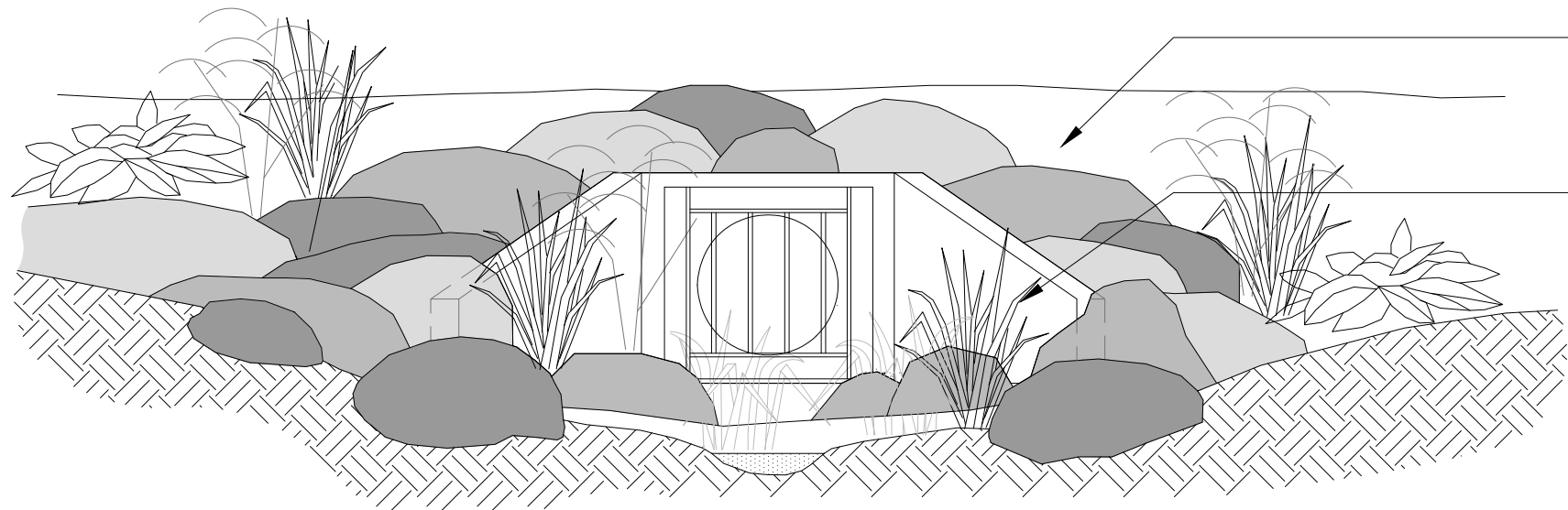
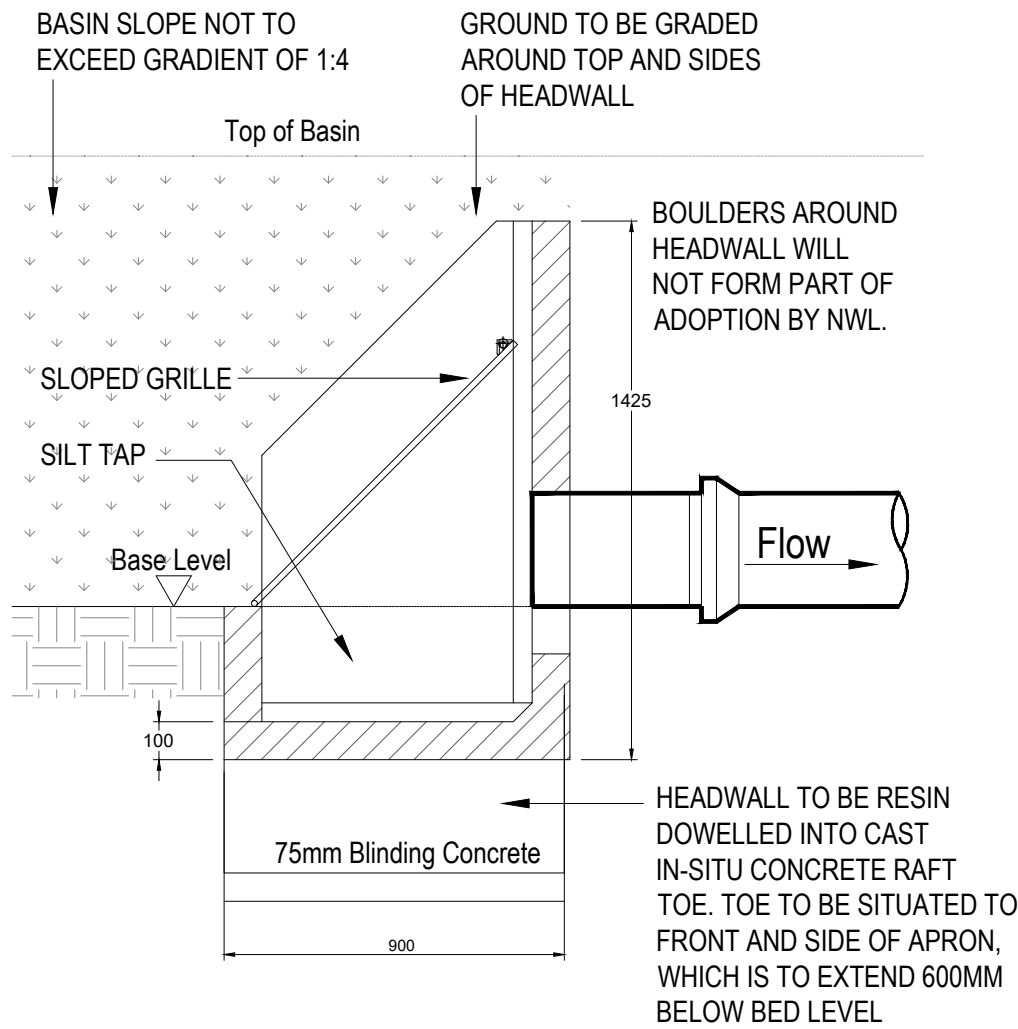
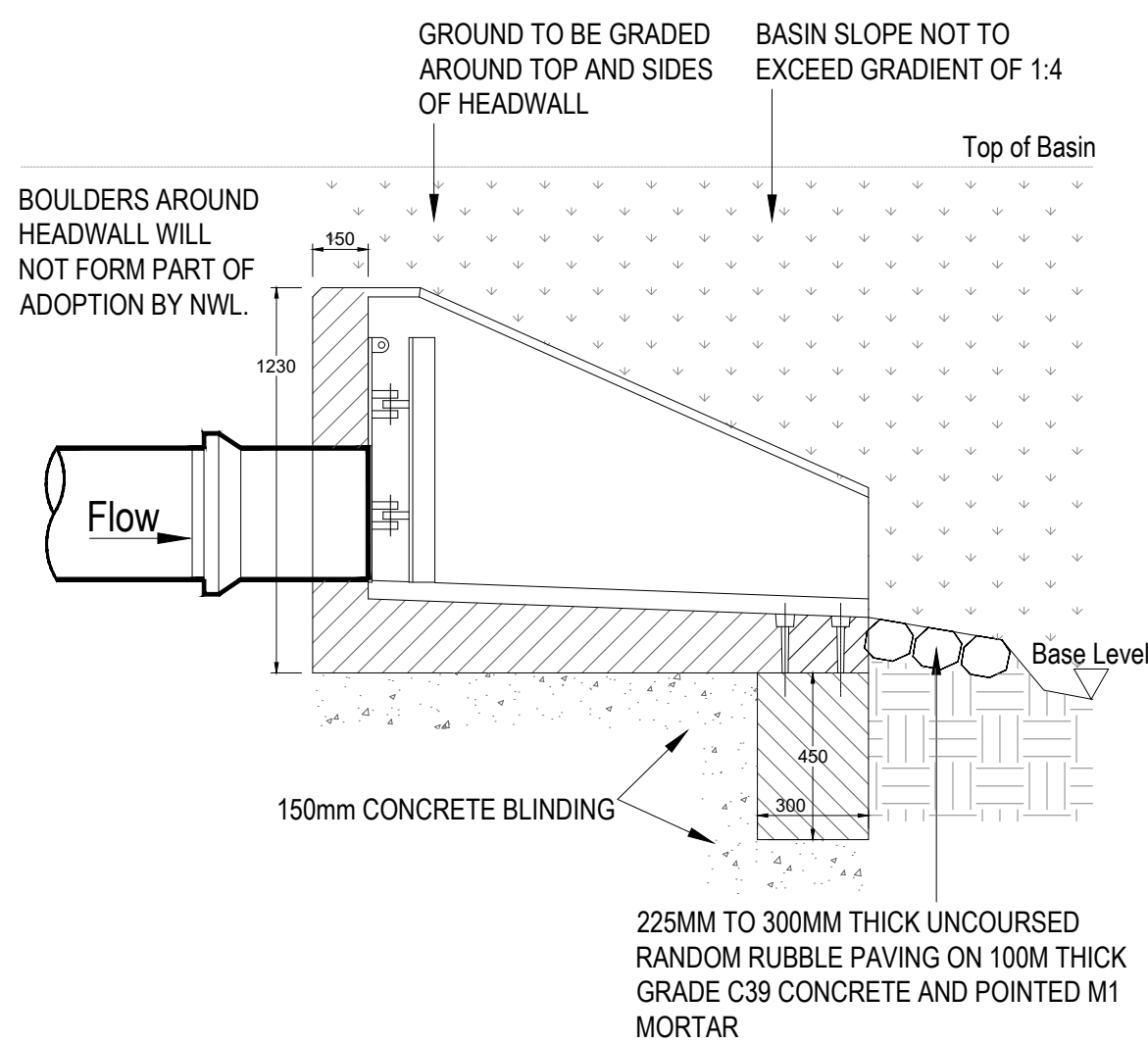
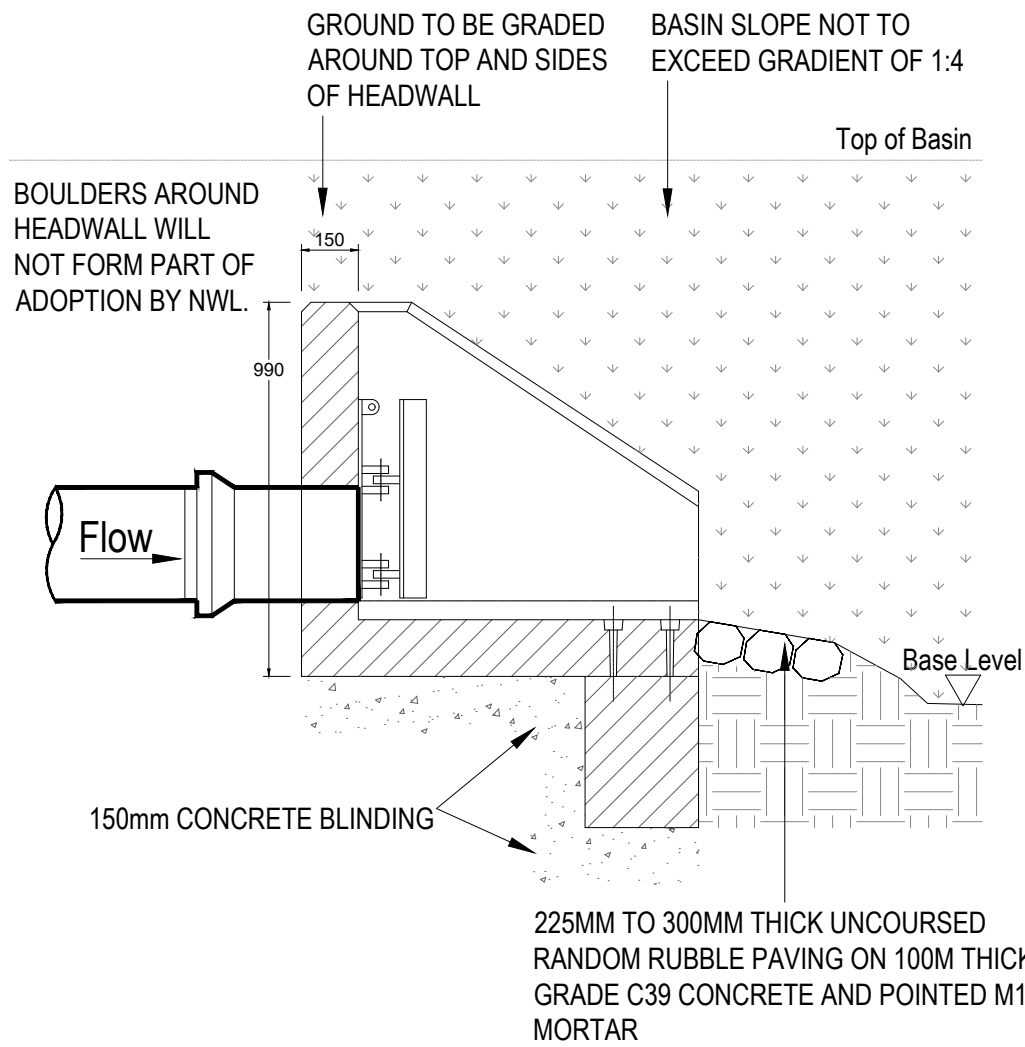
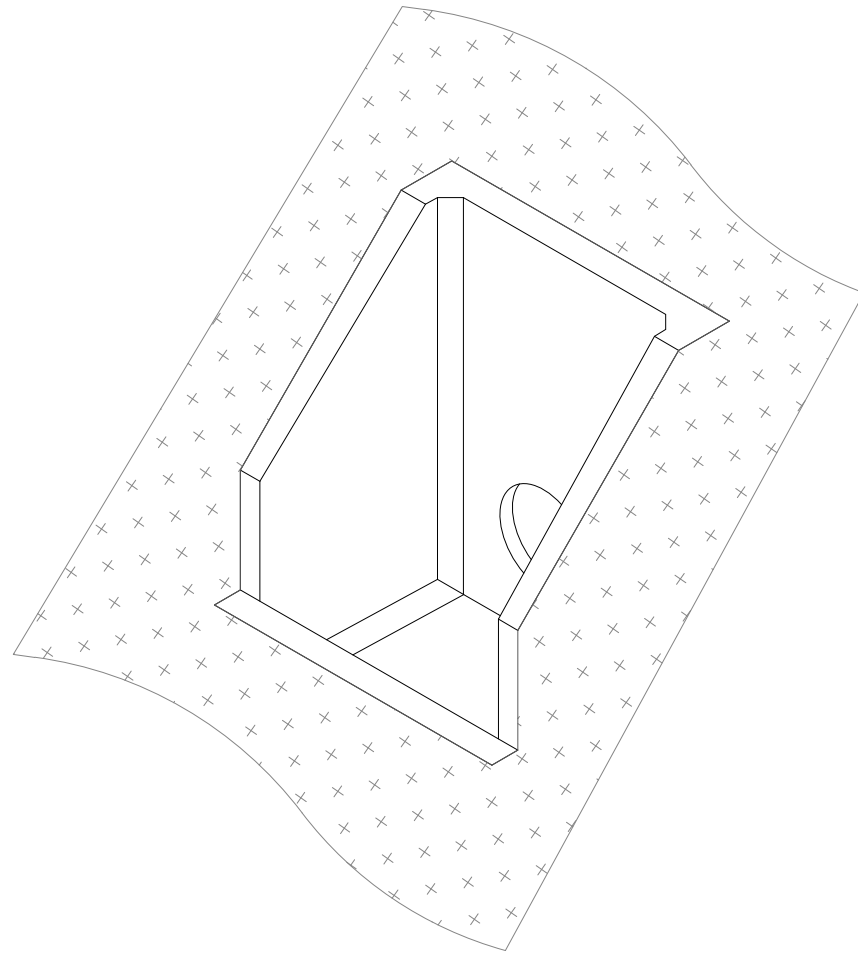
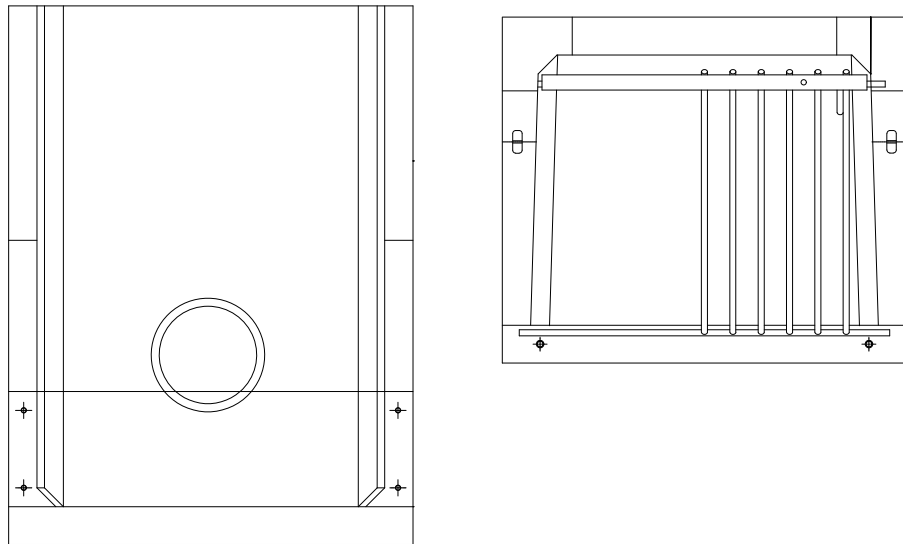
REF: TYPE 1
LOCATION: BASIN
PIPE DIA: 300Ø (FLOWS ENTERING BASIN)
SPEC: ALTHON SFA6A HEADWALL WITH 400x300 TOE
SFA1 300 OUTFALL SAFETY GRILLE



REF: TYPE 2
LOCATION: BASIN
PIPE DIA: 375 AND 450Ø (FLOWS ENTERING BASIN)
SPEC: ALTHON SFA10B HEADWALL WITH 450x300 TOE
SFA1 375/450 OUTFALL SAFETY GRILLE



REF : TYPE 4
LOCATION: BASIN (FLOWS EXITING BASIN)
PIPE DIA: 450Ø
SPEC: ALTHON SILT TRAP HEADWALL WITH GRATING



NATURAL STONE BOULDERS (WIDE VARIETY OF SIZES AND SHAPES FROM LOCAL SOURCE) POSITIONED INDIVIDUALLY TO CAMOUFLAGE/DISGUISE CONCRETE SURROUND HEADWALL
INDICATIVE NATIVE PLANTING TO HELP CONCEAL HEADWALL OPENING - LANDSCAPE ARCHITECT INPUT REQUIRED

TYPICAL VIEW OF HEADWALL OPENING INTO BASIN

Only PDF DWF Issues of this drawing are controlled. All other formats (eg. DWG AutoCAD FILES) are UN-controlled and are used at your own risk.

General Notes:-

- DO NOT USE THIS DRAWING IN ISOLATION. This drawing has been prepared as part of a set, and must therefore be read in conjunction with all other drawings. Any discrepancies or design queries must be reported to the engineer prior to completion of tender and commencement of works. Following completion of tender it is assumed that developer and contractor are in full agreement with the design drawings (with the exception of pre tender queries only).
- Third party information is used to prepare the engineering design (including architectural layout, ground investigation, existing utilities records, and specialist design items). The engineering design must therefore be read in conjunction with all third party information prior to commencing work. Queensberry Design Ltd are not responsible for any third party information or details.
- Drawing status will remain preliminary until full technical approval is received from local authority and sewerage undertaker. Works commenced prior to technical approval are done so at risk and may be subject to change.
- The contractor is expected to prepare appropriate construction method statements for all aspects of appointed work. This should include any temporary protection / works.
- Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be assessed by the ground worker and landscaper during construction and placement of gardens on an individual plot basis. If land drainage designs are required, they should be appointed prior to plot completion.
- The contractor is expected to cross check all drainage inverts prior to commencing work, this may involve completion of trial holes if invert levels have been interpreted.
- The contractor must monitor the 'as build' progress of each construction stage (roads/sewers/plot works/ etc), to enable the next stages of construction to be checked before installation. For this reason the design of, floor levels, external works, retaining walls, and plot drainage are to be read as guidance only.

Adoptable Drainage

- All adoptable drainage works to be in accordance with the water authorities publication "Sewers For Adoption 6th Edition" as well as the approved drawings.
- Precast concrete manhole rings to comply with the relevant provisions of BS5911: Part 200.
- All brickwork to be Class B engineering complying with the relevant provisions of BS 3921. Concrete bricks may be used if their specification is the same as Class B engineering bricks. Please seek approval from relevant water authority before using.
- Manhole covers and frames shall comply with the relevant provisions of BS EN 124 and be of a non-rocking, non-ventilating design.
- Ladders that are required in Type A manholes are to comply with "Sewers For Adoption 6th Edition".
- Concrete must be either C20 sulphate resistant portland cement with high strength concrete topping to the benching or C35 ordinary portland cement
- 150mm Concrete surround is required around pipes where the depth from finished surface to soffit of pipe is less than 1200mm. This may be reduced to 900mm within open space.
- The location of existing drainage that is within close proximity to the proposed site works, which is not to be diverted, should be confirmed by the contractor and reported to the developer to ensure it corresponds to that shown on the engineering layout and that no proposed works are affected.
- The position, line and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies must be reported to the engineer immediately.
- The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the local sewerage undertaker. The contractor is expected to apply for relevant permits prior to commencing the work.
- Roads and sewers contractor must inform water authority prior to works commencing

Existing Services

Any existing services which may be affected by the proposed works should be located by means of a hand dig in close liaison with the statutory service authorities. The contractor shall inform the developer of any services that may affect the proposed design.

Contractor to notify statutory service authorities prior to commencement of work.

As Constructed Information

Refer to note H above. It is the contractors responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract :-

- Position/co-ordinates of all adoptable manholes.
- Invert and cover levels of all adoptable manholes.
- New gully positions and connections.
- Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, stating size and number of ducts.

TO BE READ IN CONJUNCTION WITH LATEST ENGINEERING LAYOUT FOR HEADWALL SPECIFIC LOCATIONS AND LEVELS

Rev	Date	Revision Details	Drawn	Checked

© This drawing is the property of Queensberry Design Limited and the information can only be reproduced with their prior permission.



QUEENSBERRY DESIGN
CIVIL, STRUCTURAL, ARCHITECTURAL & GEOTECHNICAL CONSULTANTS
NORTH EAST OFFICE:
5 THE STAYTHES, THE WATERMARK,
GATESHEAD, TYNE AND WEAR NE11 9BN
T: 0191 460 9000
NORTH WEST & YORKSHIRE OFFICE:
2A ST MARTINS LANE, YORK, YO1 6LN
T: 01904 500062
www.queensberrydesign.co.uk

Client: Avant Homes

Project: South Tyneside College

Title: Headwall Types

Drawn: FA Checked: - Date: January 2024

Drawing Number: QD2117-08-04

Drawing Status: Preliminary Scale: 1:20 - A1 Rev: -