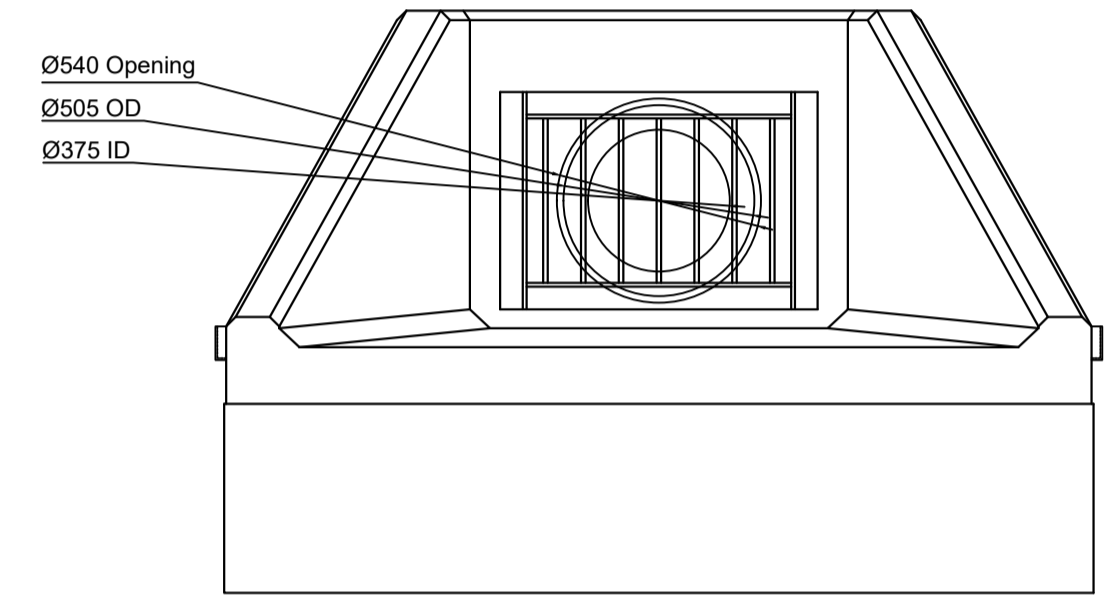
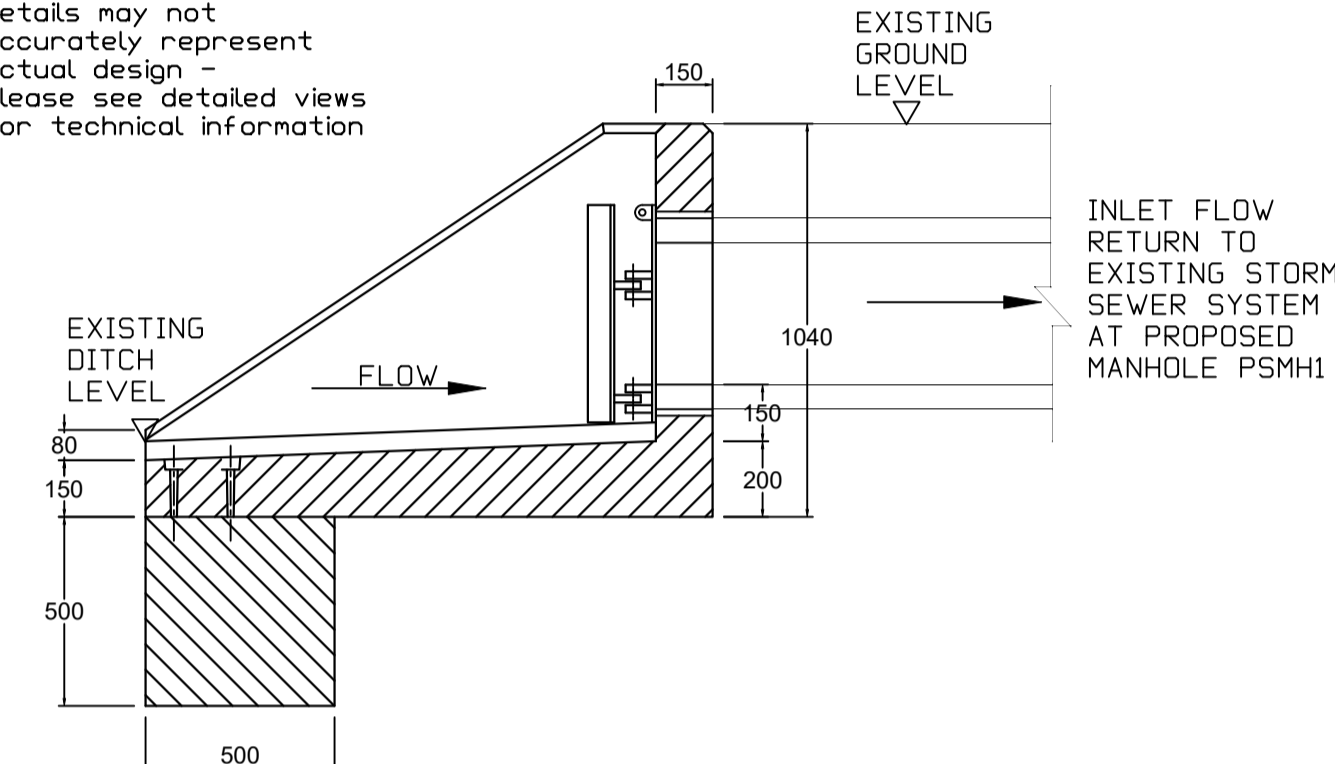


Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- All dimensions in mm
- All measurements ± 1mm

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 mouth.

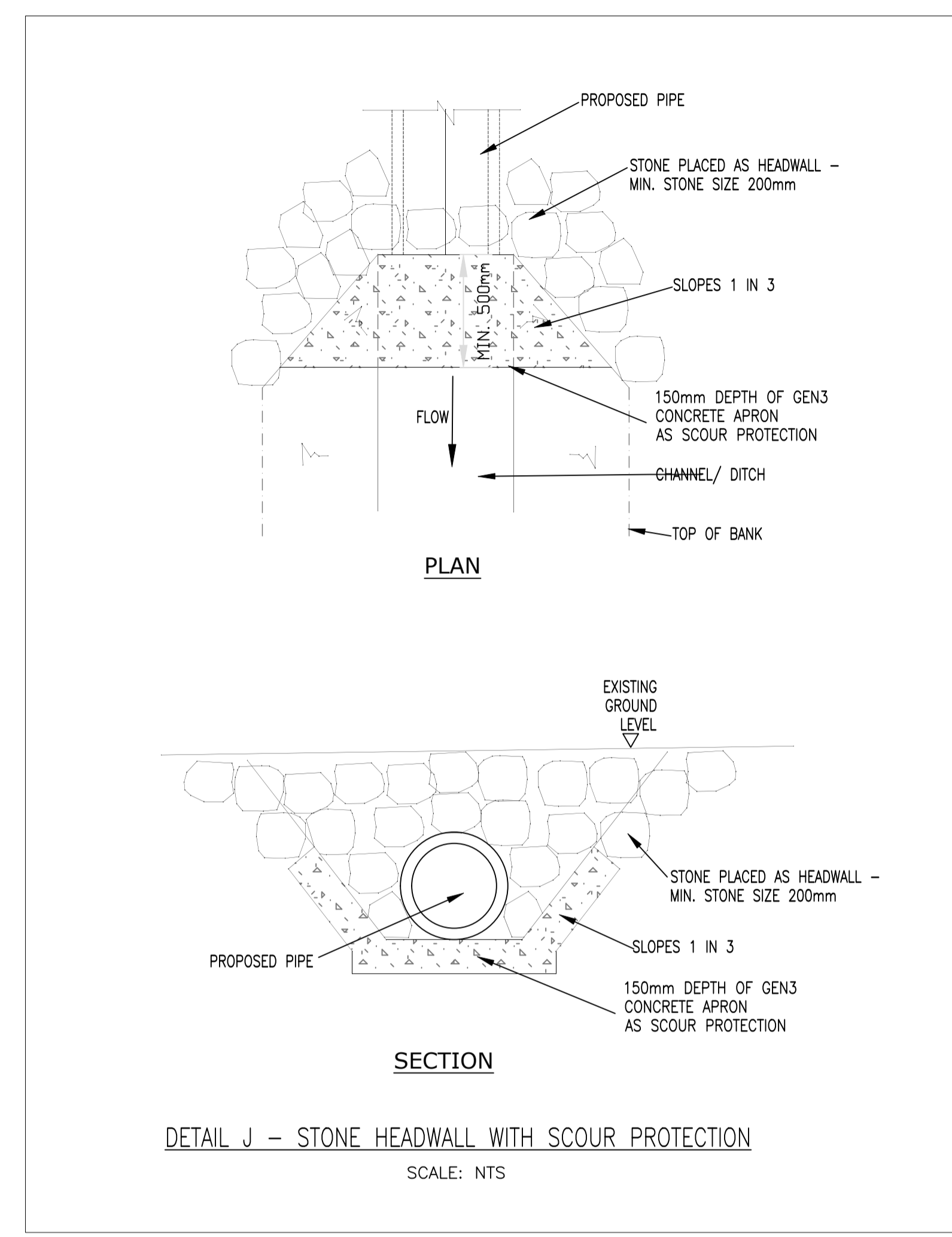
Handling
A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
B. All lifting points shall be used as specified below
C. Unit to be lifted as per lifting diagram

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

Reinforcement
A. Reinforcement to BS EN 13369
B. Scheduling, dimensioning, bending & cutting to BS8666
C. Cage to be machine tied with steel wire

- Manufacture**
- 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:
- 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 10kN/m²
 - D. Weight of soil = 18kN/m³
 - E. Angle of internal friction = 30 Deg.
 - F. Design Life: >120 years
- Fabrication Specification**
- A. Manufacture IAW EN 1090-2 EXC CLASS 1
 - B. Material grade is to be: BS EN 10025 S275
 - C. 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.
 - E. Ensure vertical flats are fully welded both sides where possible.
 - F. All sharp edges and burrs are to be removed.
 - G. Remove all weld splatter.
 - H. Holes by punching are permitted with reaming.
 - I. Galvanising is carried out after fabrication to BS EN:ISO 1461

ATHLON SFA10X OR EQUAL & APPROVED
DETAIL I: INLET HEADWALL WITH GRATING
SCALE 1:20



1	DMC	PDD	03/02/2021	DETAILED DESIGN
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ISSUE	DRN	APP	DATE	NOTES / DESCRIPTION
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STATUS: DETAILED DESIGN

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PROJECT: QUEENSWOOD NATURAL FLOOD MANAGEMENT

CLIENT: LONDON BOROUGH OF HARINGEY

DRAWING TITLE: PROPOSED CONSTRUCTION DETAILS 3 OF 3

SCALE: AS SHOWN	ORIGINAL SIZE: A1
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DRAWN: DMC	CHECKED: PDD	DATE: 03/02/2021
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PROJECT NO: M01600-12	DRAWING NO: DWG_202	ISSUE NO: 1
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