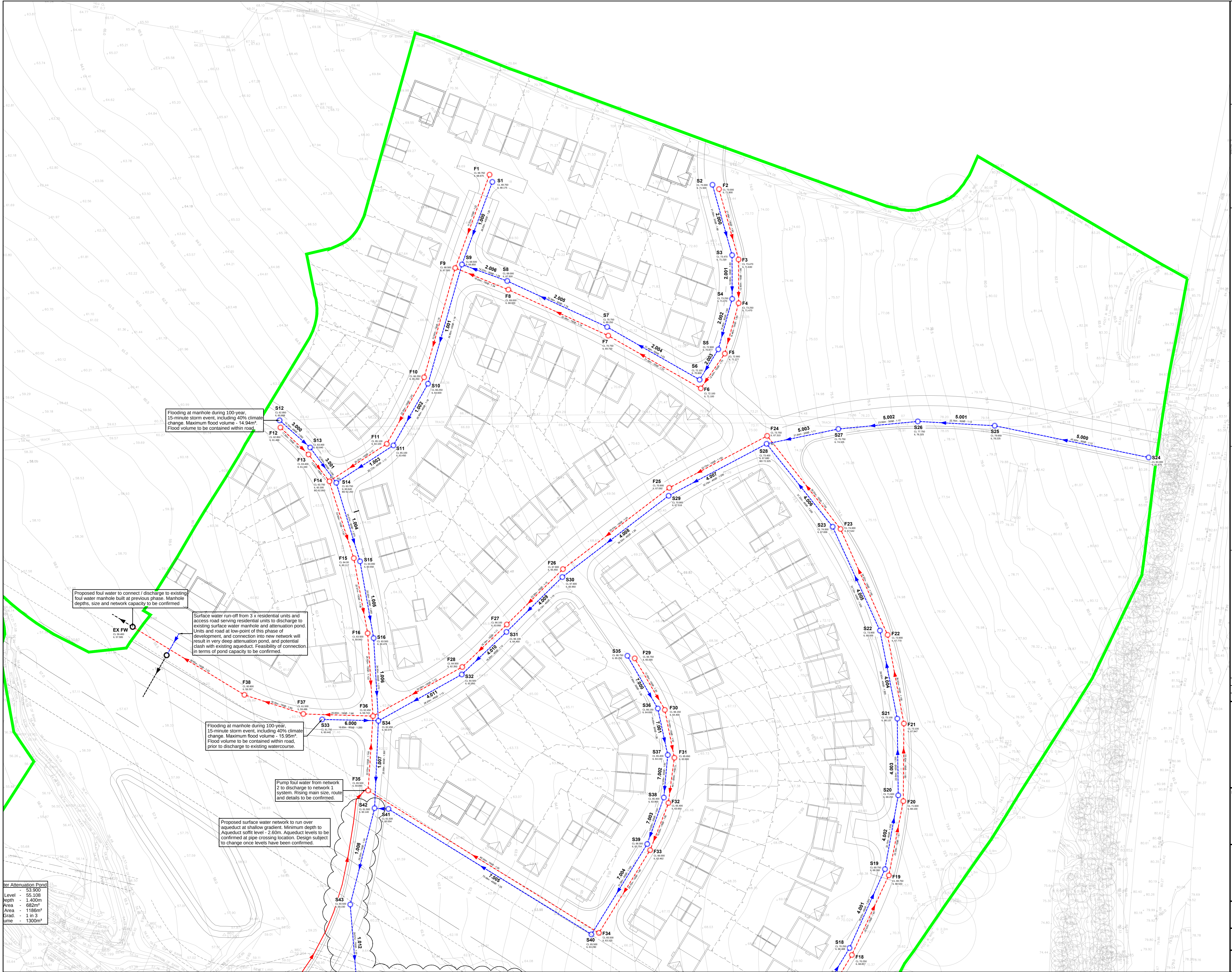




ter Attenuation Pond
Level - 53.900
Depth - 1.400m
Area - 680m²
Area - 1186m²
Grad. - 1 in 3
ume - 1300m³

Flooding at manhole during 100-year, 15-minute storm event, including 40% climate change. Maximum flood volume - 14.94m³. Flood volume to be contained within road.

Proposed foul water to connect / discharge to existing foul water manhole built at previous phase. Manhole depths, size and network capacity to be confirmed.

Surface water run-off from 3 x residential units and access road serving residential units to discharge to existing surface water manhole and attenuation pond. Units and road at low-point of this phase of development, and connection into new network will result in very deep attenuation pond, and potential clash with existing aqueduct. Feasibility of connection in terms of pond capacity to be confirmed.

Flooding at manhole during 100-year, 15-minute storm event, including 40% climate change. Maximum flood volume - 15.95m³. Flood volume to be contained within road, prior to discharge to existing watercourse.

Pump foul water from network 2 to discharge to network 1 system. Rising main size, route and details to be confirmed.

Proposed surface water network to run over aqueduct at shallow gradient. Minimum depth to Aqueduct soffit level - 2.60m. Aqueduct levels to be confirmed at pipe crossing location. Design subject to change once levels have been confirmed.

Standard Notes

1. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification.

2. This drawing should not be scaled.

3. All dimensions are to be verified by the contractor on site.

4. All discrepancies should be reported to the C.A. prior to the commencement of the works.

© CIVIC ENGINEERS

Location Plan

Notes and Keys

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH CIVIC ENGINEERS STANDARD SPECIFICATION & ALL RELEVANT BRITISH & EUROPEAN STANDARDS.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M & E CONSULTANTS AND CIVIC ENGINEERS DRAWINGS.

3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO COMMENCEMENT OF WORKS.

DRAINAGE NOTES

1. MAIN DRAINAGE NETWORK SHOWN ONLY. PLOT DRAINAGE DETAILS TO BE CONFIRMED AT DETAILED DESIGN STAGE.

2. SURFACE WATER NETWORK DESIGNED WITH 40% CLIMATE CHANGE, AND DESIGNED FOR NO FLOODING DURING 1 IN 30-YEAR EVENTS, AND MINOR CONTROLLED / CONTAINED FLOODING DURING 1 IN 100-YEAR EVENT.

3. DISCHARGE TO EXISTING POND AND WATERCOURSE TO BE AGREED WITH LOCAL AUTHORITY

Proposed SW Drainage

Proposed FW Drainage

Existing SW Drainage

Existing FW Drainage

FW Rising Main

25.09.18	P2	Amended to Suit Revised Site Layout	MDS	PM	
30.08.18	P1	Draft Stage 3 Issue	MDS	PM	
Date	Rev	Description	Drawn	Chkd	

Civic Engineers

MANCHESTER

LONDON

LEEDS

Carver's Warehouse, 77 Dale Street, Manchester, M1 2HG. Tel: 0161 228 6757
Lloyds Wharf, 3 Mill Street, London SE1 2BD. Tel: 020 7253 2977
Tower Works, Unit 02-01, Globe Road, Leeds, LS11 5QG. Tel: 0113 2025 130

www.civicengineers.com

Project

Residential Housing
Whalley, Lancashire

Title

Below Ground Drainage Layout
Sheet 1

Status

STAGE 3 ISSUE

Scale @ A1
1:500

Date Created
Aug-18

Drawn
MDS

Checked
PM

Project Number
1040-01

Originator
CE

Discipline
D

Drawing Number
D0101

Revision
P2