

Barrington Road, Durrington

SURFACE WATER DRAINAGE CONFIRMATION REPORT

On behalf of **Bellway Homes**

Document Control Sheet

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1 Introduction

1.1 Introduction

- 1.1.1 ATCN Consulting was appointed by Bellway Homes to prepare a Completion Report confirming the construction and implementation of Surface Water Drainage Systems at the residential development site in Barrington Road, Durrington. This report aims to review as-built evidence provided by site teams to verify that the drainage features have been installed in accordance with the approved design and relevant standards.
- 1.1.2 The development proposals are for 287 residential dwellings at Barrington Road, Goring-on-Sea, Worthing, West Sussex. The development comprises mostly housing but also includes 4 apartment blocks. The proposals are for the majority of the development's roads to be put forward for adoption by West Sussex County Council (WSCC) who are the Highway Authority. The main surface and foul water sewers are to be put forward for adoption by Independent Water Networks LTD (IWNL).
- 1.1.3 The production of a Confirmation Report for drainage features is a Pre-occupation requirement of Planning Reserved Matters Conditions for the development, which states the following:
“Immediately following implementation of the approved surface water drainage system and prior to occupation of a phase of the development, the developer/applicant shall provide the Local Planning Authority with as-built drawings of the implemented drainage scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.
Reason: To ensure adequate foul and surface water drainage, including sustainable drainage and to ensure that drainage is adequate for the design lifetime and does not increase flood risk elsewhere, in accordance with policy 12 & 15 of the Worthing Core Strategy 2011.”
- 1.1.4 This Confirmation Report has been undertaken in accordance with the guidance provided within Section 31.7 – SuDS Construction Inspections; Part E of CIRIA C753-SuDS Manual, as well as CIRIA C768 Guidance on the construction of SuDS.
- 1.1.5 A technical note on Drainage Management and Maintenance Plan (Ref: K43058-ATCN-92-XX-RP-C-0001-P02) has already been submitted and accepted as part of planning, which outlines maintenance items and responsibilities.
- 1.1.6 ATCN Consulting did not supervise the construction and installation of the drainage features and have been reliant on information supplied by the contractor and client to complete this report. Responsibility to ensure that the drainage features have been installed in line with ATCN Consulting design and details, and suppliers' guidelines remain with the contractor.

2 The Development's Surface Water Drainage

2.1 Surface Water Drainage

- 2.1.1 The surface water runoff from the development is split as follows, Phase 1 is the attenuation basin/large swale within the play park area in the centre of the site and the remainder of the site is Phase 2 which will be covered in a later addendum.
- 2.1.2 The surface water that feeds into the basin (Phase 1) is captured by gullies and permeable paving (all within Phase 2), the surface water from the permeable paving is then treated through the various layers within the permeable pavement and attenuated by cellular storage beneath the flat parking courts. The surface water captured by gullies through the general northern half

- of the site flows via a gravity system via manholes and pipes into the basin. The basin is fed from the north and discharges to the south towards the remainder of the drainage network of the site. The surface water is discharged into the Storm Sewer Network via MH8952 SW.
- 2.1.3 The entirety of the surface water system is designed for up to the 1in100 year +40% CC event and 10% urban creep during all stages of development.
- 2.1.4 The parking courts and some roads within the site are constructed with permeable paving, which provide surface water treatment and storage. Due to the poor infiltration potential of the local strata, the permeable paving sub-base is lined and positively drained.
- 2.1.5 In summary the main surface water drainage features that require confirmation are listed below:
- Cellular Storage Tanks
 - Attenuation Basin
 - Permeable Paving
 - Manholes and pipes
- 2.1.6 This surface water drainage confirmation report is the first such report and does not seek to cover all the above, this report seeks to cover the attenuation basin as this was installed at the time of making the site visits and writing this report, the remainder of the works were under varying stages of completion, however there will be future additions and addendums to this report which cover these aspects.
- 2.1.7 Drainage Design Plans, Calculations and Construction Detail Drawings can be found in **Appendix A**.

3 Inspection & Confirmation of Site Surface Water Drainage

All up to date drainage drawings and construction details were provided to the construction team. Liaison with the Site Manager was undertaken to ensure that site inspections would be coordinated at regular/key periods of the construction process. Photos were taken at different phases of the construction process by the Site Manager, the Site Engineer and by the independent ATCN Drainage Engineer. These photos are referred to in the subsequent sections of this report.

3.1 Attenuation Basin

- 3.1.1 The attenuation basin of the scheme is illustrated in K43058-ATCN-92-ZZ-DR-C-2102, K43058-ATCN-92-ZZ-DR-C-2103 and K43058-ATCN-92-ZZ-DR-C-2105, Drainage Design Plan Sheet 2, 3 and 4 respectively.
- 3.1.2 Photos during the installation of basin are provided in the subsequent pages of this report with further photos provided in **Appendix E**.
- 3.1.3 An as built survey of the attenuation basin of the tank was carried out which is included in **Appendix B**. The dimensions in the model show a variance from the design but when compared to the proposed design the volume in the constructed attenuation basin is approx. 10% greater than the designed basin.
- 3.1.4 Following construction, the basin has been landscaped and vegetated to stabilise the soil surface and integrate the feature within the surrounding open space. Vegetation establishment also assists with erosion control and improves the overall appearance of the drainage feature. While the review engineer is not provided with the levels of the basin so cannot make a full assessment in this regard, based on site inspections and available construction evidence, the attenuation basin has been installed in accordance with the approved drainage design philosophy and forms part of the operational drainage infrastructure serving the development.



Figure 1 - Basin during construction – grading, water standing within basin



Figure 2 - Basin during construction – lining being installed

Figure 1 and Figure 2 (above), show the under construction basin, as it was being installed in accordance with the construction details and drainage design plans provided by ATCN Consulting.

4 Inspection of SuDS Features Post Construction

- 4.1.1 The drainage system adheres to the principle and design of the drainage strategy drawing ARDENT Drainage Strategy 2103241-001 Rev C that was approved at planning (**Appendix C**).
- 4.1.2 Following partial completion of the surface water drainage system, site walkovers were undertaken on the following dates: 17th of Nov 2024, 7th of April 2025, 16th of April 2025.
- 4.1.3 ATCN received the as-built data in an e-mail dated 14th of July 2026 that shows the constructed attenuation basin is very close to the designed solution. The as-built drawings can be found in **Appendix B**.

Please note as mentioned previously in this report, this drainage confirmation report only covers the attenuation basin in the centre of the site. There will be further addendums(s) to cover Permeable Paving, Cellular Storage Tanks, and Manholes and pipes.

5 Conclusion

- 5.1.1 The development comprised a surface water drainage system that incorporates the following drainage features: -
 - Cellular Storage Tanks
 - Attenuation Basin
 - Permeable Paving
 - Manholes and pipes
- 5.1.2 Site inspections were undertaken during the construction phases of the drainage features used for this development.
- 5.1.3 From what was visible during the site inspections, what was provided to ATCN of as-built information, and following confirmation from the contractor, it is confirmed that the above-mentioned attenuation basin feature of the drainage network was constructed in accordance with the detailed drainage design drawings. As such, the surface water drainage system serving the scheme (in this respect) adheres to what was approved under planning.
- 5.1.4 The contractor will ensure that the drainage is fully surveyed by CCTV and any remediation works are carried out (if identified) to ensure that the drainage system is in full working order prior to the handover.
- 5.1.5 Bellway Homes, will appoint a management and maintenance company that will then be responsible post-handover for maintaining the surface water drainage system as per the K43058-ATCN-92-XX-RP-C-0001-P02- Drainage Management and Maintenance Plan (can be found in **Appendix D**).
- 5.1.6 ATCN Consulting did not supervise the entire construction and installation of the drainage features and have been reliant on information supplied by the contractor and client to complete this report. Responsibility to ensure that the drainage and other drainage features have been installed in line with ATCN's design and details, and suppliers' guidelines remains with the contractor.

Appendix A Drainage Plans, Construction Details & Calcs

