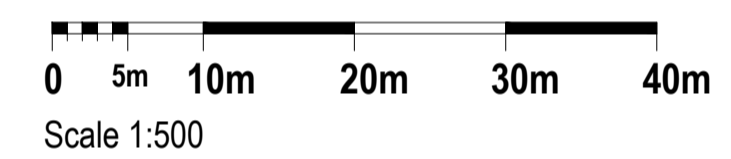


PHASE 2A DEVELOPMENT

- ### Adoptable Drainage Legend
- Site Boundary
 - Existing Adoptable Foul Water Sewer (S104)
 - Existing Adoptable Surface Water Sewer (S104)
 - Proposed Adoptable Foul Water Sewer (S104)
 - Proposed Adoptable Surface Water Sewer (S104)
 - Proposed stub connection
 - Existing Adoptable Pond (S104)
 - Proposed sewer easement - Phase 2B
 - Proposed Highway Drain
 - Proposed Highway trapped gully with 150mm connection
 - Proposed Highway Culvert

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- ### Notes
1. The Contractor is responsible for all times for carrying out his work strictly in accordance with the Health and Safety at Work Act 1974 and the CDM Regulations 2015. The Contractor shall be deemed to have allowed for full compliance with the same within their price.
 2. The Contractor is responsible for checking all tie-in work with existing for line and level before commencing work. Any discrepancies or errors shall be reported to the Engineer in writing immediately.
 3. All accommodation works necessary to establish a satisfactory link between existing and new work will have been allowed for in the Contractors price.
 4. It is the responsibility of the Contractor to locate any service apparatus in the vicinity of the works and he will be deemed to have allowed for all hand digging and locating of service apparatus in his price. The Developer will accept no claims whatsoever in respect of any loss or damage caused in respect of such apparatus, however caused.
 5. Prior to commencement of the drainage works, the Contractor shall check the invert level of existing sewers. If there are any discrepancies with the invert levels shown, the Engineer shall be informed as soon as possible.
 6. The Contractor will be responsible for providing all necessary dewatering and trench support to execute the works in a satisfactory manner and will be deemed to have included for the same within his price.
 7. All adoptable drainage work shall be constructed in accordance with the WRC publication 'Sewers for Adoption 6th Edition' and the Water Authority's guidance. This drawing is intended for guidance only and must be read in conjunction with the above documents which will supersede this drawing in the event of conflict.
 8. All sewer connections to be made soffit to soffit unless noted otherwise.
 9. All materials for use in the contract are to be BSI kitemarked, where relevant.
 10. Existing drainage to be surveyed, inspected, jetted, and repaired where necessary.
 11. All redundant sewers to be grubbed up or grouted and manholes broken down and the void filled with Type 1 granular material.
 12. All concrete and mortar that is to be buried shall be sulphate resisting unless soil and groundwater tests prove that no sulphates are present.
 13. Imported granular backfill will be required in sewer trenches under carriageways unless otherwise agreed with the Highway Authority.
 15. All adoptable pipework shall be extra strength vitrified clay to BS EN 295 and BS 65 or Class 120 concrete to BS EN 1916 and BS 5911 unless otherwise specified.
 16. The Contractor must ensure that the gradients indicated on the longitudinal sections are checked between the levels shown prior to laying pipes. At no time must the Contractor proceed with pipe laying by dialing the gradient shown into a laser without checking. Any discrepancy in this respect must be reported to the Engineer immediately.
 17. All lateral drains to be connected to main sewers with soffits level unless otherwise stated and shall be 150mm dia. extra strength vitrified clay at a gradient of 1:80 unless otherwise stated.
 18. All tree planting should be in accordance with SFA 6, Clause 2.4.9 - Figure 2.3.
 19. The Contractor is responsible for arranging a meeting with the Water Authority and Highway Authority Clerks of works to ascertain any variations that are relevant to this development prior to work commencing.
 20. The Contractor is responsible for ensuring that all works are to the satisfaction of the Water Authority and Highway Authority Engineers and will have included for any necessary testing in his price.
 21. The Contractor is to allow for reinstating all buried manholes and supplying invert levels to the Engineer.
 22. Prior to commencing works, the Contractor is to review the ground investigation report.
 23. The Contractor is to allow for adjusting all existing ironwork and utility covers to suit proposed levels.
 24. All proposed lateral drains should be capped until brought into use.
 25. The Contractor is to use his best endeavours to prevent the transference of silt generated during construction to the downstream drainage system. This is particularly important for drainage features relying on infiltration.
 26. The Contractor is to liaise with the Water Authority Engineer, affording them reasonable notice to inspect the works during construction.
 27. All road and drive gullies to be trapped.
 28. This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details. Any discrepancies or errors shall be reported to the Engineer in writing immediately.
 29. Do not scale from this drawing, if in doubt ask.



PHASE 3B DEVELOPMENT

TANK 1 (35x30x1.6m)
 Invert Level - 88.262m AOD
 Soffit Level - 89.862m AOD
 Storage Volume - 1,596m³

Interception storage areas, 300mm maximum depth with 1:4 side slopes
 Additional storage - 128m³

OUTFALL 1 - Phase 2a and 2b
 Maximum outflow rate - 11.7 litres/second
 for all storms up to and including 100y +40% CC

OUTFALL 1 - Catchment area 1
 Maximum outflow rate - 11.7 litres/second
 for all storms up to and including 100y +40% CC

OUTFALL 2 - Catchment area 2
 Maximum outflow rate - 5.3 litres/second
 for all storms up to and including 100y +40% CC

POND 1 (dry)
 Bed Level - 89.200m AOD
 Bank Level - 90.850m AOD
 Top Water Level - 90.536m AOD
 Maximum Storage Volume - 1,779m³
 314mm freeboard
 Overall Cut - 6,870.6m³
 Overall Fill - 136.2m³

Rev	Description	Date	Drawn	Checked
A	Adoptable drainage updated	14.06.21	AS	PW

Drawing Approval Status:-
 N/A Section 104 N/A Section 38 N/A Section 278

FOR TENDER

12a - 18a Hitchin Street, Biggleswade, SG18 8AX
 Tel: (01767) 317244 Web: www.wormburp.com Email: engineer@wormburp.com

Project:
Haverhill, Boyton Place - Phase 2b

Drawing Description:
Adoptable Drainage Layout

Client:

Persimmon Homes (Suffolk)
 Persimmon House
 Orion Court, Orion Avenue
 Great Blakenham
 Suffolk IP6 0LW

Drawing Number:
E4062/515/A

Client Reference:

Scale:
 1:500 @ A1
 1:1000 @ A3

Designed By: TJW Date: 11.01.21
 Drawn By: JMW Date: 18.01.21
 Checked By: PMW Date: 21.06.21

Certified by Afnor UK