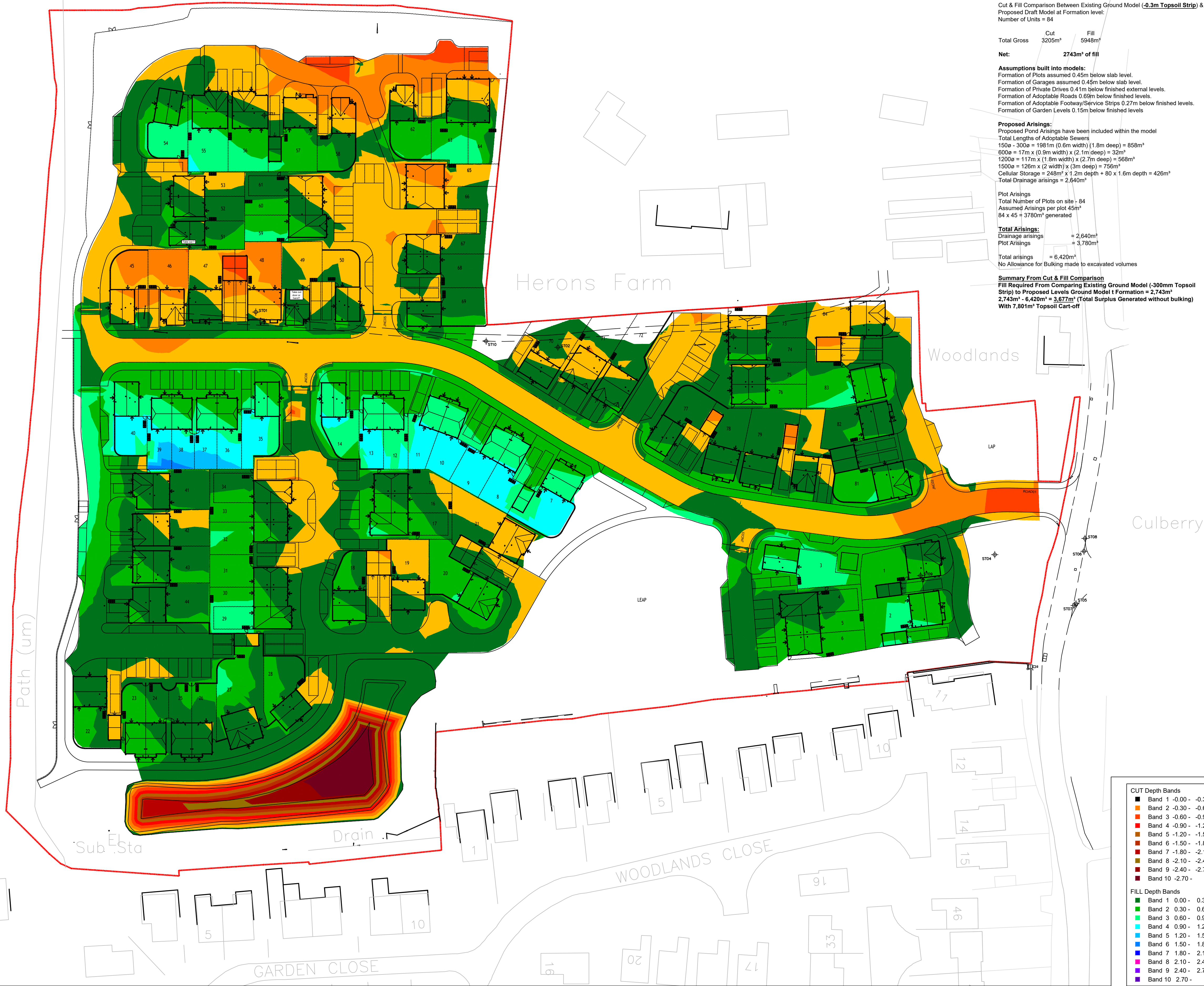
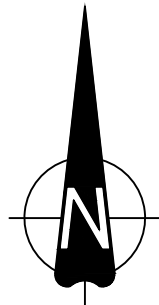




Assumed Top Soil Strip On Site = 0.3m
Total Area Of Site to be included within Top Soil Strip = 33,480m²
33,480 x 0.3 = 10,044m³ Top Soil Strip

Re-use Top Soil in gardens of plots -
Assume Garden Area = 7m x 11m = 77m²
77m² x 84 Units = 6,468m³ x 0.15m (Topsoil) = 973m³

Re-use Top Soil in POS Areas -
POS Area 3230m² x 0.3m (Topsoil) = 969m³

Re-use Top Soil in Attenuation Basin -
Basin Area = 1506m² x 0.2m = 301m³
10,044 - (969 + 973 + 301) = 7,801m³ Top Soil Remaining.

Cut & Fill Comparison Between Existing Ground Model (-0.3m Topsoil Strip) & Proposed Draft Model at Formation level:
Number of Units = 84

Total Gross	Cut 3205m ³	Fill 5948m ³
Net:	2743m ³ of fill	

Assumptions built into models:
Formation of Plots assumed 0.45m below slab level.
Formation of Garages assumed 0.45m below slab level.
Formation of Private Drives 0.41m below finished external levels.
Formation of Adoptable Roads 0.69m below finished levels.
Formation of Adoptable Footway/Service Strips 0.27m below finished levels.
Formation of Garden Levels 0.15m below finished levels

Proposed Arisings:
Proposed Pond Arisings have been included within the model
Total Lengths of Adoptable Sewers
150ø = 300ø = 1981m (0.6m width) (1.8m deep) = 858m³
600ø = 17m x (0.9m width) x (2.1m deep) = 32m³
1200ø = 117m x (1.8m width) x (2.7m deep) = 568m³
1500ø = 126m x (2 width) x (3m deep) = 756m³
Cellular Storage = 248m³ x 1.2m depth + 80 x 1.6m depth = 426m³
Total Drainage arisings = 2,640m³

Plot Arisings
Total Number of Plots on site = 84
Assumed Arisings per plot 45m³
84 x 45 = 3780m³ generated

Total Arisings:
Drainage arisings = 2,640m³
Plot Arisings = 3,780m³

Total arisings = 6,420m³
No Allowance for Bulking made to excavated volumes

Summary From Cut & Fill Comparison
Fill Required From Comparing Existing Ground Model (-300mm Topsoil Strip) to Proposed Levels Ground Model (Formation = 2,743m³
2,743m³ + 6,420m³ = 9,163m³ (Total Surplus Generated without bulking)
With 7,801m³ Topsoil Cart-off

- CUT Depth Bands**
- Band 1 -0.00 - -0.30
 - Band 2 -0.30 - -0.60
 - Band 3 -0.60 - -0.90
 - Band 4 -0.90 - -1.20
 - Band 5 -1.20 - -1.50
 - Band 6 -1.50 - -1.80
 - Band 7 -1.80 - -2.10
 - Band 8 -2.10 - -2.40
 - Band 9 -2.40 - -2.70
 - Band 10 -2.70 -
- FILL Depth Bands**
- Band 1 0.00 - 0.30
 - Band 2 0.30 - 0.60
 - Band 3 0.60 - 0.90
 - Band 4 0.90 - 1.20
 - Band 5 1.20 - 1.50
 - Band 6 1.50 - 1.80
 - Band 7 1.80 - 2.10
 - Band 8 2.10 - 2.40
 - Band 9 2.40 - 2.70
 - Band 10 2.70 -

The Contractor is to check and verify in conjunction with the Architects details all setting out points, building and site dimensions, levels and sewer invert levels at connection points and ensure that they are fully compliant with the contents and requirements of the site investigation report before work starts. The Contractor is to comply in all respects with current building legislation, British Standard Specifications, Building Regulations etc, whether or not specifically stated in this drawing.

This drawing is not intended to show details of ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor any areas of formation for said structures which do not accord with the anticipated conditions as described in the site investigation report are to be immediately notified to the Engineer, where applicable. Any suspect fluid ground or ground contaminants on or within the ground should be further investigated by a suitable expert. Any earthworks shown indicate typical slopes for guidance only and should be investigated further by a suitable geotechnical expert.

Where existing trees are shown to be retained they should be subject to a full Arboricultural inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services, where applicable. A foundation is to be provided to accommodate the proposed tree planting, where applicable.

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GENERAL NOTES

- This drawing is to be read in conjunction with relevant architectural and engineering drawings.
- Levels of the existing road at the point of tie-in with proposed site road must be checked prior to commencement of works.
- Any discrepancies between the details shown and actual site conditions to be reported immediately to the engineer prior to commencement of works.

GENERAL CUT & FILL NOTES

- VOLUMES HAVE BEEN TAKEN FROM THE BANNERSGATE LIMITED DETAILED DESIGN LEVELS AS PRODUCED.
- FORMATION DEPTHS BELOW THE PROPOSED DEVELOPMENT AREA ARE AS NOTED IN CRITERIA/ASSUMPTIONS NOTES.
- ALL VOLUMES NOTED IN THIS ANALYSIS DO NOT INCLUDE A BULKING FACTOR UNLESS SPECIFIED OTHERWISE.
- VOLUMES GIVEN DO NOT TAKE INTO ACCOUNT THE SUITABILITY OF MATERIALS, TO BE RE-USED IN ANY PARTICULAR AREA. CONSIDERATION WILL NEED TO BE GIVEN TO THE ENGINEERING PROPERTIES TO ENSURE SUITABILITY.
- IT HAS BEEN ASSUMED THAT ALL MATERIALS IN THE CUT AND FILL EXERCISE ARE NOT CONTAMINATED AND CAN BE RE-USED AS AND WHERE REQUIRED. ONLY CLEAN ARISINGS SHOULD BE LOCATED IN THE CAPPING LAYER OF LANDSCAPED AREAS. ALL OTHER MATERIAL SHOULD BE LOCATED BELOW CAPPING LAYER.

CRITERIA / ASSUMPTIONS

- VOLUMES HAVE BEEN TAKEN FROM THE BANNERSGATE LIMITED LEVELS AS PRODUCED 08.02.2021 ON SITE DETAILED DESIGN.
- EXISTING SITE LEVELS HAVE BEEN LOWERED BY 300MM TO ACCOMMODATE FOR SITE WIDE STRIP.

PROPOSED MODEL FOR LEVELS @ FORMATION:
GARDENS LEVELS LOWERED 150MM
PLOT SLAB LEVELS LOWERED 450MM
PLOT GARAGE LEVELS LOWERED 450MM
ADOPTABLE HIGHWAY LOWERED 600MM (BASED ON CBR VALUES OF 2.5%-5%)
ADOPTABLE FOOTWAYS LOWERED 270MM
HARD PAVED PLOT DRIVES LOWERED 410MM

Existing Ground Model taken from Survey
Drawing H1027/31777-1

-	First Issue	08.02.2021	LH
Rev.	Description	Date	By

Drawing Status **PRELIMINARY**
Subject to Client approval as part of ongoing consultations and design check, amendments may therefore be requested.

Client **PERSIMMON**
Together, we make a home

Project **Dappers Lane, Angmering, West Sussex**

Title **Volumetrics Assessment**

BANNERS GATE
CIVIL, STRUCTURAL & ARCHITECTURAL DESIGN SERVICES
10-11 Birmingham Street, Halesowen, West Midlands B63 3HN
Tel: 0121 687 1500 Fax: 0121 687 1501
E-mail: mail@bannersgate.com

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