

1:500)

(All positions are approximate unless otherwise stated)
(All references refer to those stated within General Notes)

(All positions are approximate unless otherwise stated).

- ## KEY TO FORMER FEATURES

- Former watercourse circa. 1891 - 1927
(taken from ref. d, e, f & g)

-  Former watercourse circa. 1867
 (taken from ref. d. e. f. & g)
 Former hedge / ditchline (taken from ref. d. e. f. & g)
 Former pond (taken from ref. d. e. f. & g)
 Former slopes (taken from ref. d. e. f. & g)

KEY TO EXPLORATORY HOLES

- (All positions are approximate unless otherwise stated)
-  Window sample boreholes WS601 - WS605 drilled for ALM between 26 & 27 March 2015 (taken from ref. n)
 -  Cable percussive borehole BH601 - BH606 drilled for ALM between 24 & 30 March 2015 (taken from ref. n)
 -  Trial pits TP601 - TP651 excavated by ALM between 23 & 27 March 2015 (taken from ref. n)
 -  Window sample boreholes drilled for Clancy Consulting between 28 & 29 November 2019 (taken from ref. e)
 -  Trial pits TP01 - TP06 excavated by Clancy Consulting on 2 November 2019 (taken from ref. e)
 -  Window sample boreholes WS01 - WS13 drilled for Clancy Consulting between 3 & 5 December 2019 (taken from ref. o)
 -  Window sample boreholes WS101 - WS171 drilled for bore on 10 - 25 January 2022 (taken from ref. o)
 -  Dynamic cone penetrometer test locations by ESP [2022] (taken from ref. o)
 -  Trial pits (and soakaway locations) TP101 - TP199 & TP110 - TP130 excavated by ESP between 10 - 25 January 2022 (taken from o)

- Note:
- 1) E3P exploratory hole location plan contains two exploratory holes referenced TP1102
 - 2) E3P exploratory hole TP1126 contains text without recording location of the exploratory hole

KEY TO TREE CONTOURS

- (All positions are approximate unless otherwise stated)
- 32**
32
- Surveyed group of trees (taken from ref. m)
- Surveyed individual tree (taken from ref. m)
- Indicates minimum depth of foundation required in areas affected by existing trees/hedges/roofs with a CLAY surface (TREES RETAINED). Not applicable to foundations in a granular subsoil.
Dashed lines indicates tree proposed to be removed. (NHBC Standards Chapter 4.2)
- Denotes 1.5m foundation depth contour of existing tree height - for hedge precautions.
- Dashed lines indicates tree proposed to be removed. (NHBC Standards Chapter 4.2)
- Cast foundations within this zone would require prior agreement with NHBC, subject to site specific assessments of tree influence >2.5m.
- Note:**
- 1) These tree contours and hedge line will require amendment should LAB be utilised as Binding Control.

KEY TO PROPOSED FEATURES

- (All positions are approximate unless otherwise stated)
- | | |
|--|--|
|  | <p>Slab levels (taken from ref. b)</p> <p>Slab split (taken from ref. b)</p> <p>Underbuild (taken from ref. b)</p> <p>Tanking (taken from ref. b)</p> <p>Flag on edge (taken from ref. b)</p> <p>Gravel board (taken from ref. b)</p> <p>Retaining wall (taken from ref. b)</p> <p>Site boundary (taken from ref. b)</p> |
|--|--|

 CDM HIGH RISK ASSESSMENT

FOR ALL RISKS REFER TO DAVID WILSON
HOMES DESIGN RISK ASSESSMENT PACK

Ts TRADITIONAL STRIP FOUNDATION

- | | |
|------------|---|
| Ts | <u>TRADITIONAL STRIP FOUNDATION</u>
Refer to sheet 5 for details. |
| DTs | <u>DEEP STRIP FOUNDATION</u>
Refer to sheet 5 for details. |
| Tf | <u>MASS CONCRETE TRENCHFILL FOUNDATION</u>
Refer to sheet 5 for details. |
| TFH | <u>MASS CONCRETE TRENCHFILL WITH HEAVE PRECAUTIONS</u>
Refer to sheet 5 for details. |
| Rn | <u>NOMINALLY REINFORCED STRIP FOUNDATION</u>
Refer to sheet 5 for details. |
| V | <u>DOUBLY REINFORCED STRIP FOUNDATIONS ON VIBRO STONE COLUMNS</u>
Refer to sheet 5 for details. |

- | | |
|---|---|
| DRN | DEEP NOMINALLY REINFORCED STRIP FOUNDATION
Refer to sheet 5 for details. |
| P | PILED FOUNDATIONS WITH ASSOCIATED
REINFORCED CONCRETE GROUND BEAMS
Refer to sheet 5 for details. |
| PH | PILED FOUNDATIONS WITH ASSOCIATED REINFORCED
CONCRETE GROUND BEAMS WITH HEAVE PRECAUTIONS
Refer to sheet 5 for details. |
|  | FOUNDATION ANOMALIES
Indicates foundations and slabs which may be affected by trial pits / hedges / or former features. The foundation and slab type indicated may have to be amended and appropriate foundations / slabs adopted to suit local ground conditions exposed at the time construction and agreed with NHBC/Local Authority inspectors. |

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GENERAL NOTES

- A Survey Eng Ltd. Cherrifield Drive, Kirby, Topographical Land Survey, ref. 7778/08/01, rev. B, dated 07 August 2020.
- B Cooper, The Old Rectory, Cherriffield Drive, Kirby Layout, ref. DDDN15C4, rev. F, dated 01 April 2026; 7778/08/02-05, rev. C, dated 28 April 2025; 7778/08/05, rev. D, dated 27 April 2026; 7778/08/06, rev. E, dated 29 March 2025, ref. 7778/08/07, dated 01 April 2026
- C Mercatopol Borough of Knowlesy, Assets Service, Land at Cherriffield Drive, Kirby, ref. AS/08AD/2020, dated 02 December 2020.
- D Clancy Consulting, Geo-Environmental Appraisal Report for Kirby Community Co., Cherriffield Drive, Kirby, ref. 10/15/13/001, dated December 2020.
- E Clancy Consulting, Preliminary Geoenvironmental Appraisal Report for Plan at Cherriffield Drive, Knowlesey, ref. 10/15/13/001, dated May 2020.
- F Clancy Consulting, Preliminary Geoenvironmental Appraisal Report for Plan at Cherriffield Drive, Knowlesey, ref. 10/15/13/002, dated May 2020.
- G REC, Geo-environmental Site Assessment, Site off Cherriffield Drive, ref. 10/15/13/p1/d, dated September 2020.
- H AMLIN Chartered Geotechnical Appraisal, Cherriffield Drive, Kirby, ref. 3009/2011, dated September 2015.
- I Coopers, Site Plan, Bewley Drive, Kirby, ref. 971820/01, Rev. D, dated 07 January 2011.
- J Coopers, The Plan, Bewley Drive, Kirby, ref. 971820/01, Rev. B, dated 02 June 1998.
- K Coopers, Foundation Plan, Bewley Drive, Kirby, N. Liverpool, ref. 12/00/F, rev. B, dated 29 May 2002.
- L Coopers, Geotechnical Planning Advice, Kirby, Knowlesy, Community College, Kirby, ref. 971820/AGL, dated 08 November 2000.
- M Seed, Cherriffield Drive, Kirby, Arboricultural Impact Assessment, ref. "S13", dated 12 July 2020, ref. 971820/AGL, dated 08 Nov 2000.
- N DWG File [ESP exploratory hole plan] ref. "CLIENT DWG - EHLP", received by Coopers on 23 August 2024. Conditions exposed on site during the construction work.
- O ESP, Cherriffield Drive, Ground Gas Addendum Report, ref. 15-280-R/31, dated April 2025.
- P ESP, Phase I & II GeoEnvironmental Site Assessment, Cherriffield Drive, Kirby, ref. ref. 15-280-R/31, dated June 2024.
- Q The foundation types indicated are based upon the facts established from observations and field tests during the trial pit investigations. It should be recognised that natural strata may vary considerably from those shown on the ground investigation log due to influences by seasonal or other factors. The foundation types indicated are therefore for "GUIDANCE PURPOSES ONLY" and should be reviewed in the light of any changes in soil conditions exposed on site during the construction work.
- R The tree contours show the minimum depth required for foundations to be installed in clay soils with inferring distances of treeshed/hedge - i.e. trees to be retained and trees to be removed. The ground level shall be determined in accordance with the NHBC Code of Practice 4.2.3.
- S Trees or hedgerows which are to be planted must be considered. No allowance has been made for them on this drawing as it is assumed that existing trees and hedges will remain. Any new planting will affect any proposed dwelling development.
- T The shrinkability of the cohesive soil strata on this site has been determined as MED/UMID in accordance with NHBC Standards Chapter 4.2.
- U Where necessary foundations should be founded in accordance with current NHBC recommendations.
- V This drawing should not be relied upon for house type names /

BASIS OF ASSESSMENT AND GUIDANCE ON FOUNDATION

- CONSTRUCTION:**
- General**
- The foundations are based upon inferring ground conditions from exploratory holes by third parties. In areas where variable ground conditions occur the precise locations of the exploratory holes would be required to allow accurate measurement and interpretation of the data presented.
- No information has been provided to indicate the location of the exploratory holes have been surveyed. Some ESP exploratory hole locations have been based on a CAD file received on 21 August 2004 (ref. 1, p).
- The foundation types have been proposed based upon the developer's commercial preferences for foundation types with depths
- It is acknowledged that trench stability can influence the suitability of foundation construction and that the developer has had discussions with the developer's contractors to appraise the influence, limitations and changes/measures that can be adopted.
- It is acknowledged that trench stability can influence the suitability of foundation construction and that the developer has had discussions with the developer's contractors to appraise the influence, limitations and changes/measures that can be adopted.

Investigation Areas

- Specific features from the historical Ordnance Survey maps have been accurately overlaid to disclose potential abnormal ground conditions. Specific targeting and delineation of these features are required to enable an accurate assessment.
- The remarks section of the foundation schedule details plot specific features likely to be encountered which would be prudent to consider for further investigation prior to construction.
- Where the ground conditions differ from those indicated in this drawing we would advocate the developer contacts Coopers to confirm or recommend procedures for reappraisals prior to casting the foundations, and may require further ground investigation.

External Works

- The foundation schedule includes specific designs to account for the proposed slab levels and underbuild.
- Where retaining walls are proposed in close proximity to plots, the foundations may need to be constructed at the same time as the plot/garage foundations, and specific discussions with Coopers structural engineers are recommended should potential conflicts be considered.
- The assessments make no account of proposed utilities excavations and should deep excavations be proposed the formation depths should be appraised to determine if these need to be set a lower level.

Tree Influence and Formation Depths

- The tree survey (as referenced in General Note 1.m) was current at the time of the original revision of this drawing. The developer should be aware that trees which are ≤ 1 mature height may be subject to substantial changes in growth over time and therefore reappraisals of tree heights and foundation depths at the time of construction/retaining may be required.
- The tree influence depths in clay strata are recorded on the foundation schedule (where applicable) and must be considered as the minimum foundation depths. Outside of these areas shallower foundations may be possible, subject to engineering approvals.

3) GROUND GAS

The latest ground gas assessment (refer to General Notes 1.q)) details parts of the site that are subject to Characteristic Situation 2 protection measures. One area currently classified a Characteristic Situation 4 is stated to be subject to further post remediation monitoring. The report recommends the full ground gas assessment and proposals are agreed with the Local Authority prior to commencing on site.

4) CONTAMINATION

A final contaminated land risk assessment is completed and detailed with General Notes 1.r). The report outlines the build phase remediation requirement of inert cover for all front and rear gardens, public open spaces and landscaping.

5) FOUNDATION ANOMALIES

- Backfilled trial pits, or historical features (such as recorded former walls) may be encountered during foundation excavations as noted on the plot specific remarks on the table. The following procedures should be adopted where such features are encountered:

Rev.	Date	Revision	By	Aspd.
F	13/05/26	Planning layout and external works updated. Sheets 9 - 11 added. Foundation table added. Vibro notes added.	AH	AW
E	28/11/25	Assessment updated to 4-corner. Tree contours updated in line with updated tree survey. Planning layout, topographical survey and external works updated. Sheet 8 added. Foundation table updated accordingly.	AH	AW
D	06/09/24	Latest E3P exploratory holes added. Planning layout and external works updated. Tree contours updated. Foundation table reassessed.	OS/AH	AW
C	12/04/23	Planning layout updated. Converted to one point assessment.	OS	AW
B	21/07/22	F2 table added to plan.	OS	BH
A	14/07/22	Foundation types updated. F2 table removed.	OS	BH

0 5 10 15 20 25 30 35 40 45 50
SCALE BAR (m)

Plots assigned for vibro stone column ground improvement and double reinforced strip foundations were previously assigned as pile foundations and changed to vibro at the request of David Wilson Homes. Feasibility of vibro is subject to the specialist contractor's review of ground conditions and earthworks where needed. Where there is tree influence, cohesive material will require removal to the associated depth of influence as a minimum. Where tree influence exceeds 2.5m depth and cohesive material is present, the feasibility for vibro in these areas should be consulted with the NHBC as the NHBC Standards is limited to 2.5m depth, and piling may be necessary.

ASSESSMENT IS PRELIMINARY &
SUBJECT TO ADDITIONAL SITE
INVESTIGATION POST
REMEDICATION AND SITE STRIP

DO NOT SCALE

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1) SITE PLAN
(Scale 1:500)

LEGEND
(All positions are approximate unless otherwise stated)
(All references refer to those stated within General Notes)

Surveyed buildings (taken from ref. a)

Surveyed slopes (taken from ref. a)

Surveyed trees (taken from ref. a)

Surveyed hedges (taken from ref. a)

Surveyed fence-lines (taken from ref. a)

Conjectured extent of landfill 205 (taken from ref. i)

KEY TO FORMER FEATURES
(All positions are approximate unless otherwise stated)

Former buildings (taken from ref. d, e, f & g)

Former dense vegetation (taken from ref. d, e, f & g)

Former path (taken from ref. d, e, f & g)

Former sports pitches (taken from ref. d, e, f & g)

Former electricity pylons / electric line (taken from ref. d, e, f & g)

Former gravel pit circa 1867 (taken from ref. d, e, f & g)

Former watercourse circa 1891 - 1927 (taken from ref. d, e, f & g)

Former watercourse circa 1867 (taken from ref. d, e, f & g)

Former hedge / ditch-line (taken from ref. d, e, f & g)

Former slopes (taken from ref. d, e, f & g)

KEY TO EXPLORATORY HOLES
(All positions are approximate unless otherwise stated)

Trial pits excavated by Coopers
Nos. 1 to 14 excavated on 22 May 1997,
Nos. 15 to 32 excavated between 18 July & 27
December 2001 (taken from ref. k)

Boreholes drilled by Exploration Associates on 6 & 7
January 1998 (taken from ref. k)

Approximate position of holes for spike survey by Coopers
on 05 May 1998 (taken from ref. k)

Window sample boreholes WS601 - WS605 drilled for ALM
between 26 & 27 March 2015 (taken from ref. h)

Cable percussive borehole BH601 - BH606 drilled for ALM
between 24 & 30 March 2015 (taken from ref. h)

Trial pits TP601 - TP651 excavated by ALM between 23 &
27 March 2015 (taken from ref. h)

Window sample boreholes drilled for Clancy Consulting
between 28 & 29 November 2019 (taken from ref. e)

Window sample boreholes WS101 - WS171 drilled for between
10 - 25 January 2022 (taken from ref. o)

Dynamic cone penetrometer test locations by E3P [2022]
(taken from ref. o)

Trial pits (and soakaway locations) TP101 - TP199 & TP1100 -
TP1130 excavated by E3P between 10 - 25 January 2022
(taken from ref. o)

Note:

1) E3P exploratory hole location plan contains two exploratory holes
referenced TP1102

2) E3P exploratory hole TP1126 contains text without recording location
of the exploratory hole

KEY TO TREE CONTOURS
(All positions are approximate unless otherwise stated)

Surveyed group of trees (taken from ref. m)

Surveyed individual tree (taken from ref. m)

Indicates minimum depth of foundation required in
areas affected by existing trees/hedges with a CLAY
subsoil (TREES RETAINED). Not applicable to
foundations in a granular subsoil.

Dashed lines indicates tree proposed to be removed.
(NHB Standards Chapter 2)

Denotes 1.5m foundation depth contour of existing tree
height - for heave precautions.

Dashed lines indicates tree proposed to be removed.
(NHB Standards Chapter 2)

Cast foundations within this zone would require prior
agreement with NHBIC, subject to site specific
assessments of tree influence >2.5m.

Note:

1) These tree contours and heave line will require amendment should
LABC be utilised as Proposed Construction.

KEY TO UTILISED FEATURES
(All positions are approximate unless otherwise stated)

Slab levels (taken from ref. b)

Underfoot (taken from ref. b)

Tanking (taken from ref. b)

Flag on edge (taken from ref. b)

Gravel board (taken from ref. b)

Retaining wall (taken from ref. n)

Site boundary (taken from ref. n)

REVISION BOX

Rev.	Date	Revision	By	Appl.
F	13.05.26	Planning layout and external works updated. Sheets 9 - 11 added. Foundation table updated. Vibro notes added.	AH	AW
E	28.11.25	Assessment updated to 4-corner. Tree contours updated in line with updated tree survey. Planning layout, topographical survey and external works updated. Sheet 6 added. Foundation table updated accordingly.	AH	AW
D	16.09.26	Latest E3P exploratory holes added. Planning layout and external works updated. Tree contours updated. Foundation types reassessed.	OS/AH	AW
C	12.10.23	Planning layout updated. Converted to one point assessments.	OS	AW
B	21.07.22	Fd table added to plan.	OS	BH
A	14.07.22	Foundation types updated. Fd table removed.	OS	BH

THIS DRAWING SHOULD ONLY
BE PRINTED IN COLOUR

CDM HIGH RISK ASSESSMENT

FOR ALL RISKS REFER TO DAVID WILSON
HOMES DESIGN RISK ASSESSMENT PACKAGE

FOR GUIDANCE
PURPOSES ONLY

Plots assigned for vibro stone column ground improvement and double reinforced strip foundations were previously assigned as pile foundations and changed to vibro at the request of David Wilson Homes. Feasibility of vibro is subject to the specialist contractor's review of ground conditions and earthworks where needed. Where there is tree influence, cohesive material will require removal to the associated depth of influence as a minimum. Where tree influence exceeds 2.5m depth and cohesive material is present, the feasibility for vibro in these areas should be consulted with the NHBIC as the NHBIC Standards is limited to 2.5m depth, and piling may be necessary.

ASSESSMENT IS PRELIMINARY &
SUBJECT TO ADDITIONAL SITE
INVESTIGATION POST
REMEDIATION AND SITE STRIP

2) ANTICIPATED FOUNDATION TYPES

- Ts** TRADITIONAL STRIP FOUNDATION
Refer to sheet 5 for details.
- DTs** DEEP STRIP FOUNDATION
Refer to sheet 5 for details.
- TF** MASS CONCRETE TRENCHFILL FOUNDATION
Refer to sheet 5 for details.
- TH** MASS CONCRETE TRENCHFILL WITH HEAVE PRECAUTIONS
Refer to sheet 5 for details.
- Rn** NOMINALLY REINFORCED STRIP FOUNDATION
Refer to sheet 5 for details.
- DRn** DEEP NOMINALLY REINFORCED STRIP FOUNDATION
Refer to sheet 5 for details.
- P** PILED FOUNDATIONS WITH ASSOCIATED REINFORCED CONCRETE GROUND BEAMS
Refer to sheet 5 for details.
- PH** PILED FOUNDATIONS WITH ASSOCIATED REINFORCED CONCRETE GROUND BEAMS WITH HEAVE PRECAUTIONS
Refer to sheet 5 for details.
- V** DOUBLY REINFORCED STRIP FOUNDATIONS ON VIBRO STONE COLUMNS
Refer to sheet 5 for details.
- Δ** FOUNDATION ANOMALIES
Indicates foundations and slabs which may be affected by trial pits, trees / hedges or former features. The foundation and slab type indicated may have to be amended and appropriate foundations and slabs adopted to suit local ground conditions exposed at the time of construction and agreed with NHBIC/Local Authority Inspectors.

3) GROUND GAS

The latest ground gas assessment (refer to General Notes 1.a.i) details parts of the site that are subject to Characteristic Situation 2 protection measures. One area currently classified a Characteristic Situation 4 is stated to be subject to further post remediation monitoring. The report recommends the full ground gas assessment and proposals are agreed with the Local Authority prior to commencing on site.

4) CONTAMINATION

A final contaminated land risk assessment is completed and detailed with General Notes 1.r). The report outlines the build phase remediation requirement of inert cover for all front and rear gardens, public open spaces and landscaping.

5) FOUNDATION ANOMALIES

Backfilled trial pits, or historical features (such as recorded former walls) may be encountered during foundation excavations as noted on the plot specific remarks on the table. The following procedures should be adopted where such features are encountered:

- Start foundation excavations in areas of potential anomaly to locate any features present.
- When likely foundation anomaly is identified halt the foundation excavation - DO NOT attempt to dig out areas where fills may be deep.
- Record the location of the feature relative to the proposed footprint and contact Coopers for engineering design. This may include a beam design to span the feature. Therefore it is imperative that the deep fills are not excavated prior to confirmation of engineering designs.
- Do not continue foundation excavations for the plot until directly advised to do so by David Wilson Homes Office or Coopers.

GENERAL NOTES

1. This drawing is to be read in conjunction with the following:-
a) Survey Eng Ltd, Cherryfield Drive, Kirkby, Topographical Land Survey, ref. DW175/04, rev. B, dated 07 August 2025.
b) Coopers, Cherryfield Drive, Kirkby, External Works Layout, ref. 7778/08/01, rev. B, dated 01 April 2026, 7778/08/02-05, rev. C, dated 28 April 2025, 7778/08/05, rev. D, dated 27 April 2026, 7778/08/06, rev. C & 7778/08/07-08, rev. B, dated 01 April 2026.
c) Metropolitan Borough of Knowsley, Assets Service, Land at Cherryfield Drive, Kirkby, ref. AS/08/02/2020, dated 27 April 2020.
d) Clancy Consulting, Geo-Environmental Appraisal Report for Knowsley Community College, Liverpool, ref. 10/1533/001, dated December 2020.
e) Clancy Consulting, Preliminary Geo-Environmental Appraisal Report for Phase 2 Site, Cherryfield Drive, Knowsley, ref. 10/1519/001, dated May 2020.
f) Clancy Consulting, Preliminary Geo-Environmental Appraisal Report for Phase 3 Site, Cherryfield Drive, Knowsley, ref. 10/1519/002, dated May 2020.
g) REC, Geo-Environmental Site Assessment, Site off Cherryfield Drive, ref. 45759/10, dated September 2014.
h) ALM Consult, Geo-Environmental Appraisal, Cherryfield Drive, Kirkby, ref. 309090/11, dated September 2015.
i) Coopers, Site Plan, Bewley Drive, Kirkby, ref. 97/1820/01, Rev. D, dated 07 January 2021.
j) Coopers, Site Plan, Bewley Drive, Kirkby, ref. 97/1820/01, Rev. B, dated 02 June 1998.
k) Coopers, Foundation Plan, Bewley Drive, Kirkby, ref. Liverpool, ref. 97/1820/04, rev. B, dated 29 May 2002.
l) Coopers, Geological Plan, Bewley Drive, Knowsley, Community College, Kirkby, ref. 97/1820/A/GL, dated 08 February 2000.
m) Seed, Cherryfield Drive, Kirkby, Arboricultural Impact Assessment, ref. 1321-AIA-V1-B, dated 14 March 2024 (original tree data from 2021).
n) DWG Planning Layout, ref. 'H4015-DWH-XX-XX-DR-ID-203004-P04', received by Coopers on 03 February 2026.
o) E3P, Phase 1 & 2 Geo-Environmental Site Assessment, Cherryfield Drive, ref. 15-280-R1-4, dated May 2024.
p) DWG File [E3P exploratory hole plan] ref. 'CLIENT DWG - EHLF', received by Coopers on 21 August 2024.
q) E3P, Cherryfield Drive, Ground Gas Addendum Report, ref. 15-280-R3-1, dated April 2025.
r) E3P, Cherryfield Drive, Remediation and Enabling Works Strategy, Report, ref. 15-280-R2-6 dated June 2025.

2. The foundation types indicated are based upon the facts established from observations and field tests during the trial pit investigations. It should be recognised that natural strata may vary considerably from point to point and the groundwater regime may be influenced by seasonal or other factors. The foundation types indicated are therefore for GUIDANCE PURPOSES ONLY and should be constantly reviewed in the light of the actual conditions exposed on site during the construction work.

3. The tree contours show the minimum depth required for foundations below ground level in clay soils within influencing distance of trees/hedges - i.e. trees to be retained and trees to be removed. The 'ground level' shall be determined in accordance with the NHBIC Standards Chapter 4.2 Building Near Trees.

4. Trees or hedgerows which are to be planted must be considered. No allowance has been made for trees or hedgerows as it is assumed that any proposed trees and/or hedgerows will be sited to avoid affecting any proposed dwelling foundation.

5. The shrinkability of the cohesive soil strata on this site has been determined as MEDIUM in accordance with NHBIC Standards Chapter 4.2.

6. Where necessary foundations should be stepped in accordance with current NHBIC recommendations.

7. This drawing should not be relied upon for house/yard names / references.

BASIS OF ASSESSMENT AND GUIDANCE ON FOUNDATION CONSTRUCTION:

General

The foundations are based upon inferred ground conditions from exploratory holes by third parties. In areas where variable ground conditions occur the precise locations of the exploratory holes were required to allow accurate assessments of the ground conditions for plot specific assessments. No information has been provided to indicate the location of the exploratory holes have been surveyed. Some E3P exploratory hole locations have been based on CAD file received on 21 August 2024 (ref. 1.p). The foundation types have been proposed upon the developer's commercial preferences for foundation types with depths. It is acknowledged that trench stability can influence the suitability of foundation construction and was adopted to suit local ground conditions exposed at the time of construction and agreed with NHBIC/Local Authority Inspectors.

Investigation Areas

Specific features from the historical Ordnance Survey maps have been accurately overlaid to disclose potential abnormal ground conditions. Specific targeting and delineation of these features are required to enable an accurate assessment. The remarks section of the foundation schedule details plot specific features likely to be encountered which would be prudent to consider for further investigation prior to construction. Where the ground conditions differ from those indicated in this drawing we would advocate the developer contact Coopers to confirm or recommend procedures for responsibilities prior to casting the foundations, and may require further ground investigation.

External Works

The foundation schedule includes specific designs to account for the proposed slab levels and underbuild. Where retaining walls are proposed in close proximity to plots, the foundations may need to be constructed at the same time as the plot/paragage foundations, with specific discussions with Coopers structural engineers are recommended should potential conflicts be considered. The assessments make no account of proposed utilities excavations and should deep excavations be proposed the formation depths should be appraised to determine if these need to be set a lower level.

Tree Influence and Formation Depths

The tree survey (as referenced in General Note 1.m) was current at the time of the original revision of this drawing. The developer should be aware that trees which are <3 mature height may be subject to substantial changes in growth over time and therefore reassessments of tree heights and foundation depths at the time of construction may be required. The tree influence depths in clay strata are recorded on the foundation schedule (where applicable) and must be considered as the minimum foundation depths. Outside of these areas shallower foundations may be possible, subject to engineering approvals. The foundations have set minimum formation levels from proposed ground levels in accordance with NHBIC Guidance. These do not include formation depths that account for potential seasonal variations in the shallow ground conditions. Subject to the time of year of the construction, foundation depths may be increased, subject to inspection by Building Control Inspectors. The foundations have not included designs to account for planted/hedge trees planting. We would advocate the arboricultural consultants are advised to be sympathetic to the potential shrink-swell behaviour of clays (where present) and should avoid planting any trees close to buildings, and avoid all tall and/or higher water demand species, where possible. Should the tree planting be considered likely to change the formation depths then this should be reassessed prior to casting foundations or planting of trees. Currently the NHBIC have a cut off for the maximum depth of trench/fill foundation for plots which are impacted by existing trees of 2.50m. Where tree contours take foundations deeper than this depth, piled foundations should be adopted unless agreed otherwise with the NHBIC. The areas referenced as founding on weathered bedrock are anticipated to be recovered as a redrown sand. The formation levels do not have to be continued to refusal with formation on consistent strata. Foundations formed on weathered bedrock should not step into glacial till (sands and clays) due to differential settlement that occurs as a result of variations in bearing capacity. Some trees surveyed originally in 2021 are no longer shown on the revised survey on 2024. As it is unknown if the trees were felled or cleared, and as tree influence is anticipated to remain for some years after removal, these original trees have been left in the assessment and ground model, with consideration of growth since 2021 (see below), as a precautionary measure. With the original tree survey dated November 2021, 4 No. growing seasons have occurred by the time of this assessment and are subject to 4 years growth. As per Dave Travis (NHBIC) email to Coopers dated 27 November 2019, a consideration of 1m growth per year has been applied to trees which were on the original survey but no longer on the updated survey, to account for this assessment.

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Web: http://coopers.co.uk

Client

DAVID WILSON HOMES

WHERE QUALITY LIVES

Project

Cherryfield Drive, Kirkby.

Title

FOUNDATION PLAN
SHEET 3 OF 11

DRAWING NUMBER

7887 / Fd / 03

SCALE AT A0

1:500

DATE

08.07.22

DRAWN

AH/OS

CHECKED

BH

REVISION

F

DO NOT SCALE

1) SITE PLAN
(Scale 1:500)

LEGEND

(All positions are approximate unless otherwise stated)

(All references refer to those stated within General Notes)

KEY TO EXISTING FEATURES

(All positions are approximate unless otherwise stated)

KEY TO FORMER FEATURES

(All positions are approximate unless otherwise stated)

KEY TO EXPLORATORY HOLES

(All positions are approximate unless otherwise stated)

KEY TO TREE CONTOURS

(All positions are approximate unless otherwise stated)

KEY TO PROPOSED FEATURES

(All positions are approximate unless otherwise stated)

3) GROUND GAS

The latest ground gas assessment (refer to General Notes 1.4) details parts of the site that are subject to Characteristic Situation 2 protection measures. One area currently classified a Characteristic Situation 4 is stated to be subject to further post remediation monitoring. The report recommends the full ground gas assessment and proposals are agreed with the Local Authority prior to commencing on site.

4) CONTAMINATION

A final contaminated land risk assessment is completed and detailed with General Notes 1.1. The report outlines the bulk phase remediation requirement of inert cover for all front and rear gardens, public open spaces and landscaping.

5) FOUNDATION ANOMALIES

Backfilled trial pits, or historical features (such as recorded former walls) may be encountered during foundation excavations as noted on the plot specific remarks on the table. The following procedures should be adopted where these features are encountered:

1) Start foundation excavations in areas of potential anomaly to locate any features present.

2) When likely foundation anomaly is identified halt the foundation excavation - DO NOT attempt to dig out areas where fills may be deep.

3) Record the location of the feature relative to the proposed footprint and contact Coopers for engineering design. This may include a beam design to span the feature. Therefore it is imperative that the deep fills are not excavated prior to confirmation of engineering designs.

4) Do not continue foundation excavations for the plot until directly advised to do so by David Wilson Homes Office or Coopers.

2) ANTICIPATED FOUNDATION TYPES

Ts

TRADITIONAL STRIP FOUNDATION

Refer to sheet 5 for details.

DTs

DEEP STRIP FOUNDATION

Refer to sheet 5 for details.

TF

MASS CONCRETE TRENCHFILL FOUNDATION

Refer to sheet 5 for details.

TFH

MASS CONCRETE TRENCHFILL WITH HEAVE PRECAUTIONS

Refer to sheet 5 for details.

Rn

NOMINALLY REINFORCED STRIP FOUNDATION

Refer to sheet 5 for details.

V

DOUBLY REINFORCED STRIP FOUNDATIONS ON VIBRO STONE COLUMNS

Refer to sheet 5 for details.

DRn

DEEP NOMINALLY REINFORCED STRIP FOUNDATION

Refer to sheet 5 for details.

P

PILED FOUNDATIONS WITH ASSOCIATED REINFORCED CONCRETE GROUND BEAMS

Refer to sheet 5 for details.

PH

PILED FOUNDATIONS WITH ASSOCIATED REINFORCED CONCRETE GROUND BEAMS WITH HEAVE PRECAUTIONS

Refer to sheet 5 for details.

Δ

FOUNDATION ANOMALIES

Indicates foundations and slabs which may be affected by trial pits, trees / hedges or former features. The foundation and slab type indicated may have to be amended and appropriate foundations and slabs adopted to suit local ground conditions exposed at the time of construction and agreed with NHBC Local Authority Inspectors.

Plots assigned for vibro stone column ground improvement and double reinforced strip foundations were previously assigned as pile foundations and changed to vibro at the request of David Wilson Homes. Feasibility of vibro is subject to the specialist contractor's review of ground conditions and earthworks where needed. Where there is tree influence, cohesive material will require removal to the associated depth of influence as a minimum. Where tree influence exceeds 2.5m depth and cohesive material is present, the feasibility for vibro in these areas should be consulted with the NHBC as the NHBC Standards is limited to 2.5m depth, and piling may be necessary.

ASSESSMENT IS PRELIMINARY & SUBJECT TO ADDITIONAL SITE INVESTIGATION POST REMEDIATION AND SITE STRIP

GENERAL NOTES

1. This drawing is to be read in conjunction with the following:-
a) Survey Eng Ltd, Cherryfield Drive, Kirkby, Topographical Land Survey, ref. DWH/15/04, rev. F, dated 07 August 2025.
b) Coopers, Cherryfield Drive, Kirkby, External Works Layout, ref. 7778/08/01, rev. B, dated 01 April 2026, 7778/08/02-05, rev. C, dated 28 April 2025, 7778/08/05, rev. D, dated 27 April 2026, 7778/08/06, rev. C & 7778/08/07-08, rev. B, dated 01 April 2026.
c) Merropolitan Borough of Knowsley, Assets Service, Land at Cherryfield Drive, Kirkby, ref. AS/04/2020, dated 02 December 2020.
d) Clancy Consulting, Geo-Environmental Appraisal Report for Knowsley Community College, Liverpool, ref. 10/1533/001, dated December 2020.
e) Clancy Consulting, Preliminary Geoenvironmental Appraisal Report for Phase 2 Site, Cherryfield Drive, Knowsley, ref. 10/1519/001, dated May 2020.
f) Clancy Consulting, Preliminary Geoenvironmental Appraisal Report for Phase 3 Site, Cherryfield Drive, Knowsley, ref. 10/1519/002, dated May 2020.
g) REC, Geo-environmental Site Assessment, Site off Cherryfield Drive, ref. 45759/P10, dated September 2011.
h) ALM Consult, Geoenvironmental Appraisal, Cherryfield Drive, Kirkby, ref. 30909/11, dated September 2015.
i) Coopers, Site Plan, Bewley Drive, Kirkby, ref. 971820/01, Rev. D, dated 07 January 2021.
j) Coopers, Site Plan, Bewley Drive, Kirkby, ref. 971820/01, Rev. B, dated 02 June 1998.
k) Coopers, Foundation Plan, Bewley Drive, Kirkby, ref. Liverpool, ref. 971820/F4, rev. B, dated 28 May 2002.
l) Coopers, Geological Plan, Bewley Drive, Knowsley, Community College, Kirkby, ref. 971820/A/GL, dated 08 February 2000.
m) Seed, Cherryfield Drive, Kirkby, Arboricultural Impact Assessment, ref. 1321-A1A-V1-B, dated 14 March 2024 (original tree data from 2021).
n) DWG Planning Layout, ref. 'H4015-DWH-XX-XX-DR-UD-203004-P04', received by Coopers on 03 February 2026.
o) E3P, Phase 1 & II Geo-Environmental Site Assessment, Cherryfield Drive, ref. 15-280-R1-4, dated May 2024.
p) DWG File [E3P exploratory hole plan] ref. 'CLIENT DWG - EHLF', received by Coopers on 21 August 2024.
q) E3P, Cherryfield Drive, Ground Gas Addendum Report, ref. 15-280-R3-1, dated April 2025.
r) E3P, Cherryfield Drive, Remediation and Enabling Works Strategy, Report, ref. 15-280-R2-6 dated June 2025.

2. The foundation types indicated are based upon the facts established from observations and field tests during the trial pit investigations. It should be recognised that natural strata may vary considerably from point to point and the groundwater regime may be influenced by seasonal or other factors. The foundation types indicated are therefore for GUIDANCE PURPOSES ONLY and should be constantly reviewed in the light of the actual conditions exposed on site during the construction work.

3. The tree contours show the minimum depth required for foundations below ground level in clay soils within influencing distance of trees/hedges/rows of trees to be retained and trees to be removed. The 'ground level' shall be determined in accordance with the NHBC Standards Chapter 4.2 'Building Near Trees'.

4. Trees or hedges which are to be planted must be considered. No allowance has been made for them to be retained and trees to be removed. Any proposed trees and/or hedges will be sited to avoid affecting any proposed dwelling foundation.

5. The shrinkability of the cohesive soil strata on this site has been determined as MEDIUM in accordance with NHBC Standards Chapter 4.2.

6. Where necessary foundations should be stepped in accordance with the above.

7. This drawing should not be relied upon for house/tye names / references.

BASIS OF ASSESSMENT AND GUIDANCE ON FOUNDATION CONSTRUCTION:

General

The foundations are based upon inferring ground conditions from exploratory holes by third parties. In areas where variable ground conditions occur the precise locations of the exploratory holes would be required to allow accurate assessments of the ground conditions for plot specific assessments. No information has been provided to indicate the location of the exploratory holes have been surveyed. Some exploratory hole locations have been based on a CAD file received on 21 August 2024 (ref. 1.0). The foundation types have been proposed based upon the developer's commercial preferences for foundation types with depths. It is acknowledged that trench stability can influence the suitability of foundation construction and we would advocate trial excavations with the developer and contractors to appraise the influence, limitations and changes/measures that can be adopted. It is acknowledged that trench stability can influence the suitability of foundation construction and we would advocate trial excavations with the developer and contractors to appraise the influence, limitations and changes/measures that can be adopted.

Investigation Areas

Specific features from the historical Ordnance Survey maps have been accurately overlaid to disclose potential abnormal ground conditions. Specific targeting and delineation of these features are required to enable an accurate assessment. The remarks section of the foundation schedule details plot specific features likely to be encountered which would be prudent to consider for further investigation prior to construction. Where the ground conditions differ from those indicated in this drawing we would advocate the developer contact Coopers to confirm or recommend procedures for respondents prior to casting the foundations, and may require further ground investigation.

External Works

The foundation schedule includes specific designs to account for the proposed slab levels and underbuild. Where retaining walls are proposed in close proximity to plots, the foundations may need to be constructed at the same time as the plot/paragage foundations, and specific discussions with Coopers and structural engineers are recommended should potential conflicts be considered. The assessments make no account of proposed utilities excavations and should deep excavation be proposed the formation depths should be appraised to determine if these need to be set a lower level.

Tree Influence and Formation Depths

The tree survey (as referenced in General Note 1.m) was current at the time of the original revision of this drawing. The developer should be aware that trees which are <3 mature height may be subject to substantial changes in growth over time and therefore reappraisals of tree heights and foundation depths at the time of construction/filling may be required. The tree influence depths in clay strata are recorded on the foundation schedule (where applicable) and must be considered as the minimum foundation depths. Outside of these areas shallower foundations may be possible, subject to engineering approvals. The foundations have set minimum formation levels from proposed ground levels in accordance with NHBC Guidance. These do not include formation depths that account for potential seasonal variations in the shallow ground conditions. Subject to the time of year of the construction, foundation depths may be increased, subject to inspection by Building Control/Insurers. The foundations have not included designs to account for plant/hedge/tree planting. We would advocate the arboricultural consultants are advised to be sympathetic to the potential shrink-swell behaviour of clays (where present) and should avoid planting any trees close to buildings, and avoid all tall and/or higher water demand species, where possible. Should the tree planting be considered likely to change the formation depths then this should be reappraised prior to casting foundations or planting of trees. Currently the NHBC have a cut off for the maximum depth of trench/fill foundation for plots which are impacted by existing trees of 2.5m. Where tree contours take foundations deeper than this depth, piled foundations should be adopted unless agreed otherwise with the NHBC. The areas referenced as founding on weathered bedrock are anticipated to be recovered as a red-brown sand. The formation levels do not have to be continued to refusal with formation on consistent strata. Foundations formed on weathered bedrock should not step into glacial till (sands and clays) due to differential settlement that occurs as a result of variations in bearing capacity. Some trees surveyed originally in 2021 are no longer shown on the revised survey on 2024. As it is unknown if the trees were felled or cleared, and as tree influence is anticipated to remain for some years after removal, these original trees have been left in the assessment and ground model, with consideration of growth since 2021 (see below), as a precautionary measure. With the original tree survey dated November 2021, 4 No. growing seasons have occurred by the time of this assessment and are subject to 4 years growth. As per Dave Travis (NHBC) email to Coopers dated 27 November 2015, a consideration of 1m growth per year has been applied to trees which were on the original survey but no longer on the updated survey, to account for this assessment.

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Client

Project

Title

DRAWING NUMBER

8787 / Fd / 04

SCALE at A0

1:500

DATE

08.07.22

REVISION

F

Checked

BH

DAVID WILSON HOMES

WHERE QUALITY LIVES

Cherryfield Drive, Kirkby.

FOUNDATION PLAN

SHEET 4 OF 11

FOR GUIDANCE PURPOSES ONLY

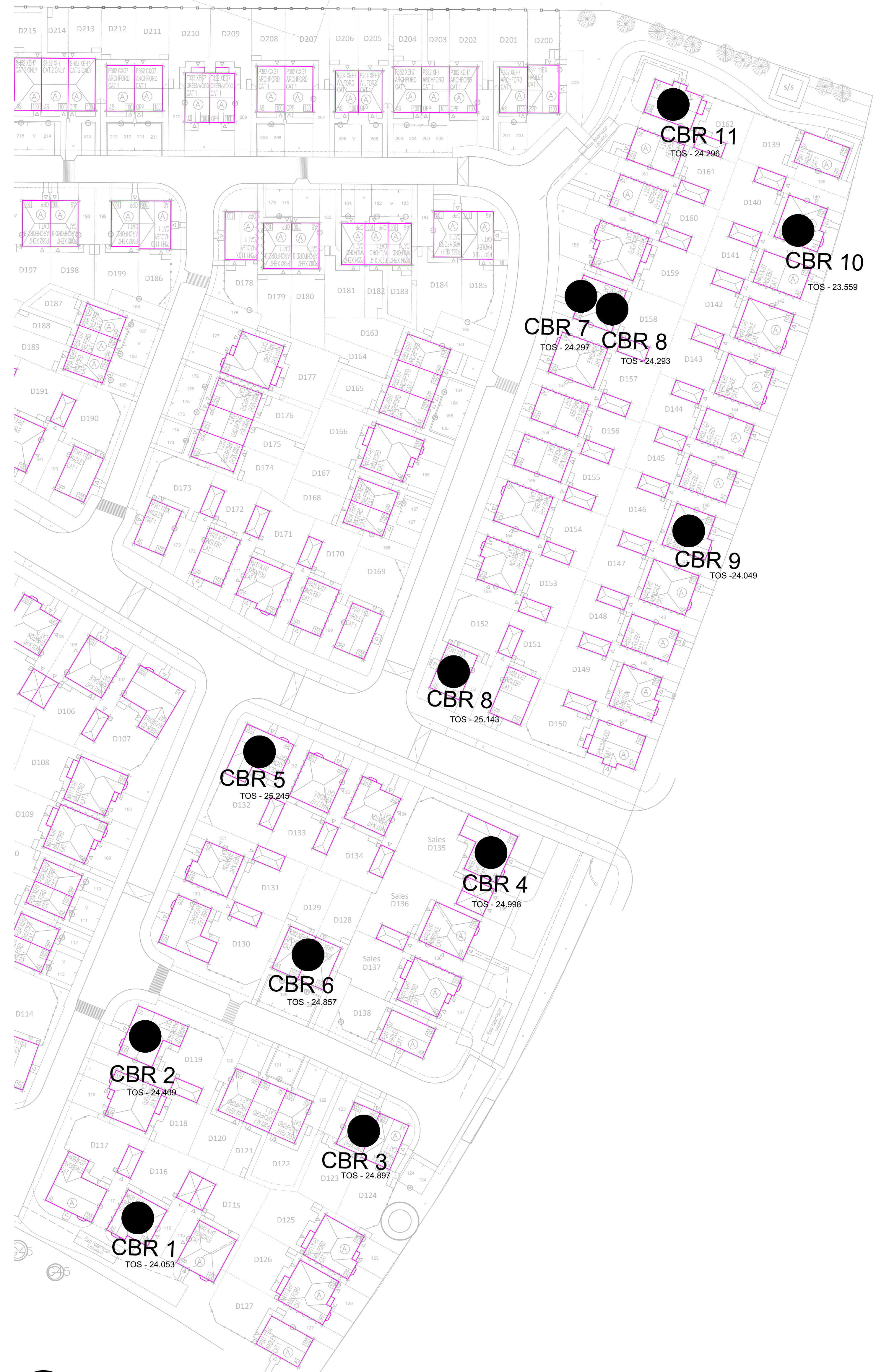
THIS DRAWING SHOULD ONLY BE PRINTED IN COLOUR

CDM HIGH RISK ASSESSMENT

FOR ALL RISKS REFER TO DAVID WILSON HOMES DESIGN RISK ASSESSMENT PACKAGE

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CBR PILE MATS

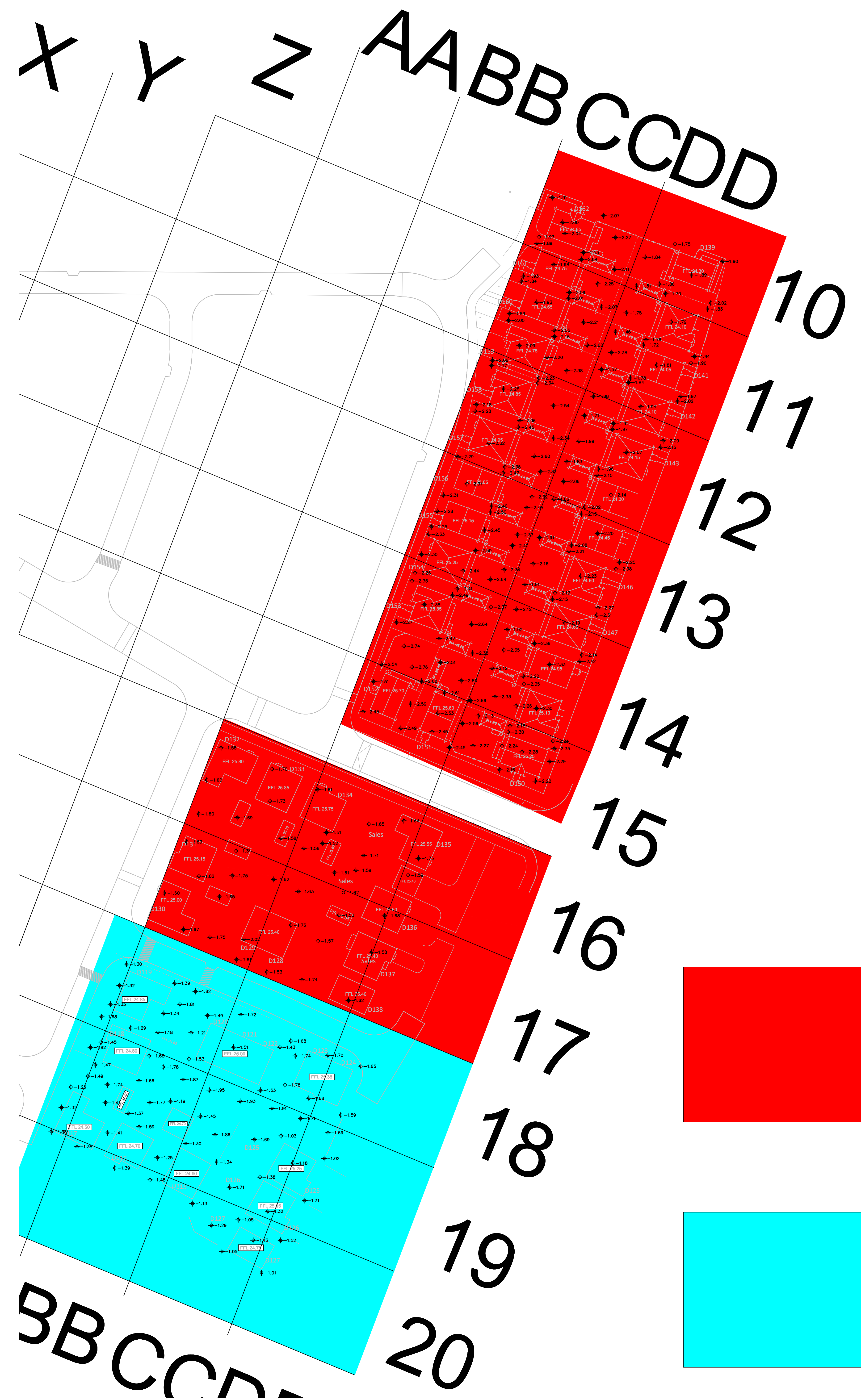


Diagram illustrating a sequence of characters: $x, y, z, A, B, B, C, C, D, D$. Blue lines connect each character to a corresponding box in a sequence below. A red line connects the first box to the last box, indicating a full sequence match.

10

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BB CCDD

X Y Z ^ A B B C C D D

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B B C C D D