



LEGEND

- PROPOSED TREE:
- HEDGE PLANTING:
- NATIVE AND ORNAMENTAL SHRUB PLANTING:
- WETLAND MEADOW GRASS MIX: EMORSGATE EG8
- WOODLAND GRASS SHADE MIX: EMORSGATE EG9
- EXISTING TREE TO REMAIN:
- NATIVE BULB PLANTING:
- NO DIG HOGGIN PATH:
- Crazy Hen (Inground) Colour: Red Product Code: M10170 -12P Supplier: Kompan or similar approved
- Ladybird (Inground 60cm) Product Code: M16801 - 12P Supplier: Kompan or similar approved
- Kompan portal swing 2m high C/W 2 flat seats (Inground 90cm) Product Code: KSW 920002 0910 Supplier: Kompan or similar approved

SOFT LANDSCAPE PALETTE:

Ornamental Planting:
Planting generally to be 5L-10L specimens planted at average density of 4 plants per sq.m. 15L-25L specimen shrubs planted in groups of 1-3.

Residential Landscaping (typical examples of shrubs to be used - exact species to be confirmed in detail design stage with Local Authority):

- Abelia grandiflora
- Amelanchier lamarckii
- Aucuba japonica 'Variegata'
- Berberis species
- Brachyglottis 'Sunshine'
- Caryopteris 'Heavenly Blue'
- Ceanothus thrysoflorus 'Repens'
- Cistus species
- Choisya species
- Cornus species
- Euonymus fortunei 'Emerald 'n Gold'
- Elaeagnus x ebbingei
- Hebe species
- Hypericum species
- Kerria japonica
- Lavandula 'Hidcote' & 'Munstead'
- Lonicera species
- Mahonia species
- Osmanthus species
- Phormium species
- Pittosporum species
- Potentilla 'Abbotswood'
- Rosmarinus species
- Sarcococca confusa
- Spiraea japonica species
- Viburnum species
- Weigela florida 'Variegata'

Typical Hedging (selected from the following):
Planting generally to be 5-15L shrubs or rootballed stock planted in single or double staggered rows at 350-500mm c/c. Exact species to be confirmed in detail design stage with Local Authority.

| Species | Size |
|-----------------------------|-----------|
| Elaeagnus x ebbingei | 10L |
| Escallonia species | 10L |
| Euonymus 'Green Rocket' | 3-10L |
| Ligustrum species | 5-10L |
| Native Hedge | BR / 3-5L |
| Osmanthus x burkwoodii | 10L |
| Photinia 'Red Robin' | 10L |
| Photinia 'Little Red Robin' | 10L |
| Prunus lusitanica | 3-10L |

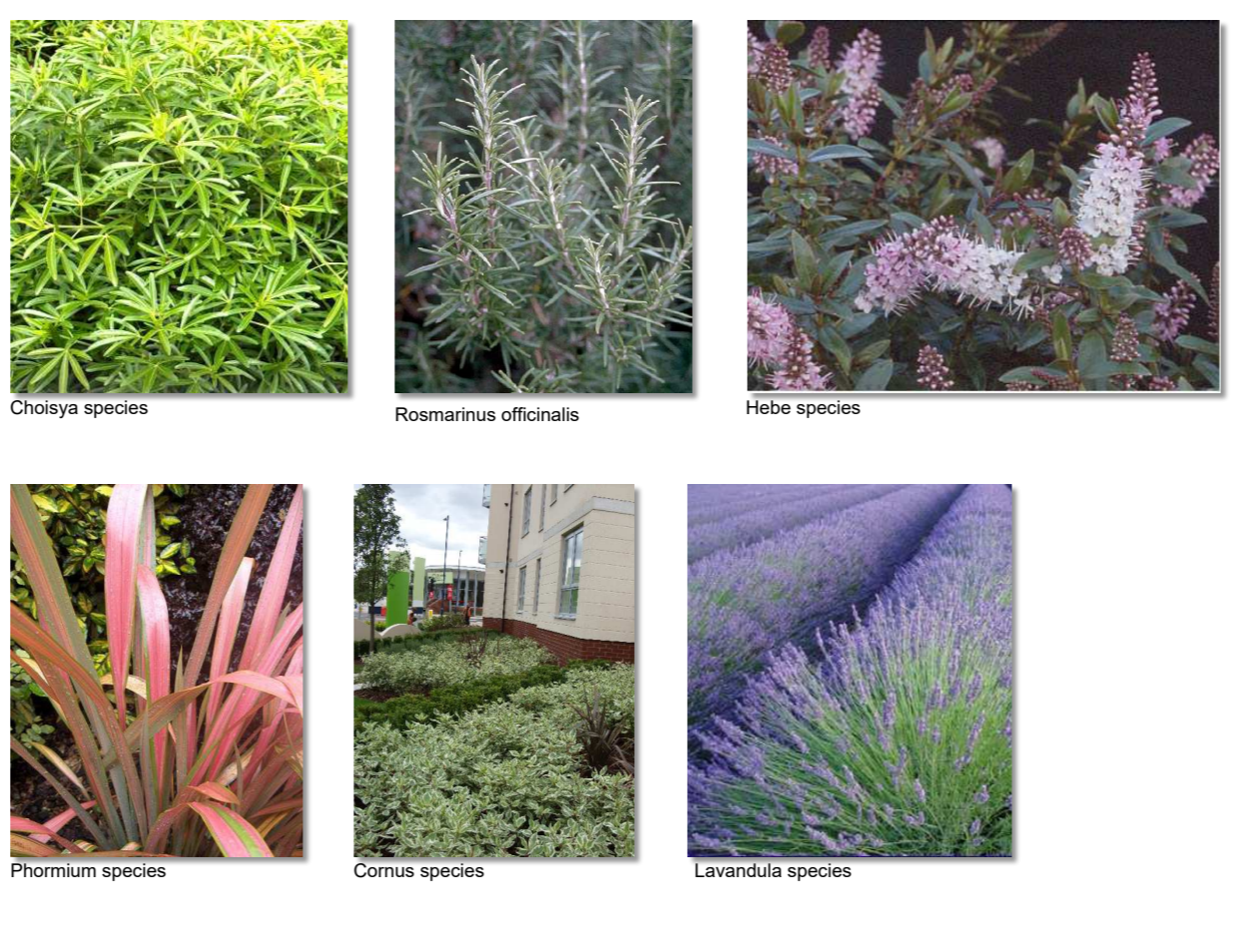
Typical Proposed Trees:
Trees selected from the following species : (Girth range from 14-16cm to 25-30cm)

| Species | Girth | Clear Stem |
|--|----------|------------|
| Acer campestre 'Elsrijk' (Field Maple) | as above | >2.00m |
| Betula pendula | as above | >2.00m |
| Corylus colurna | as above | >2.00m |
| Prunus 'Sunset Boulevard' | as above | >2.00m |
| Amelanchier arborea 'Robin Hill' | as above | >2.00m |
| Carpinus betulus 'Frans Fontaine' | as above | >2.00m |
| Prunus x schmidtii | as above | >2.00m |
| Pyrus calleryana 'Chanticleer' | as above | >2.00m |
| Sorbus auc. species | as above | >2.00m |

Typical Tree Planting:



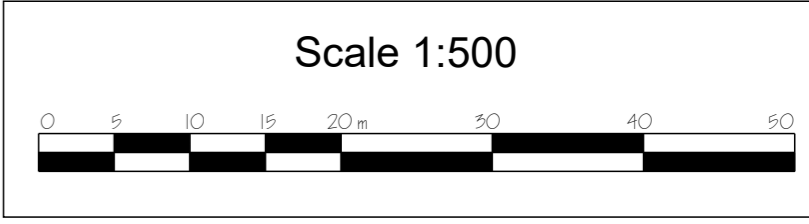
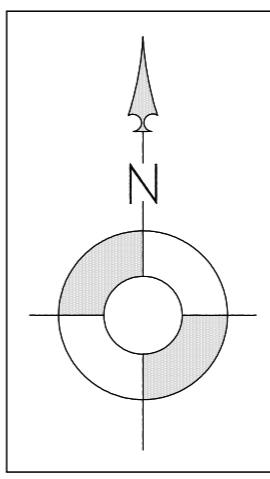
Typical Shrub Planting:



Typical Hedge Planting:



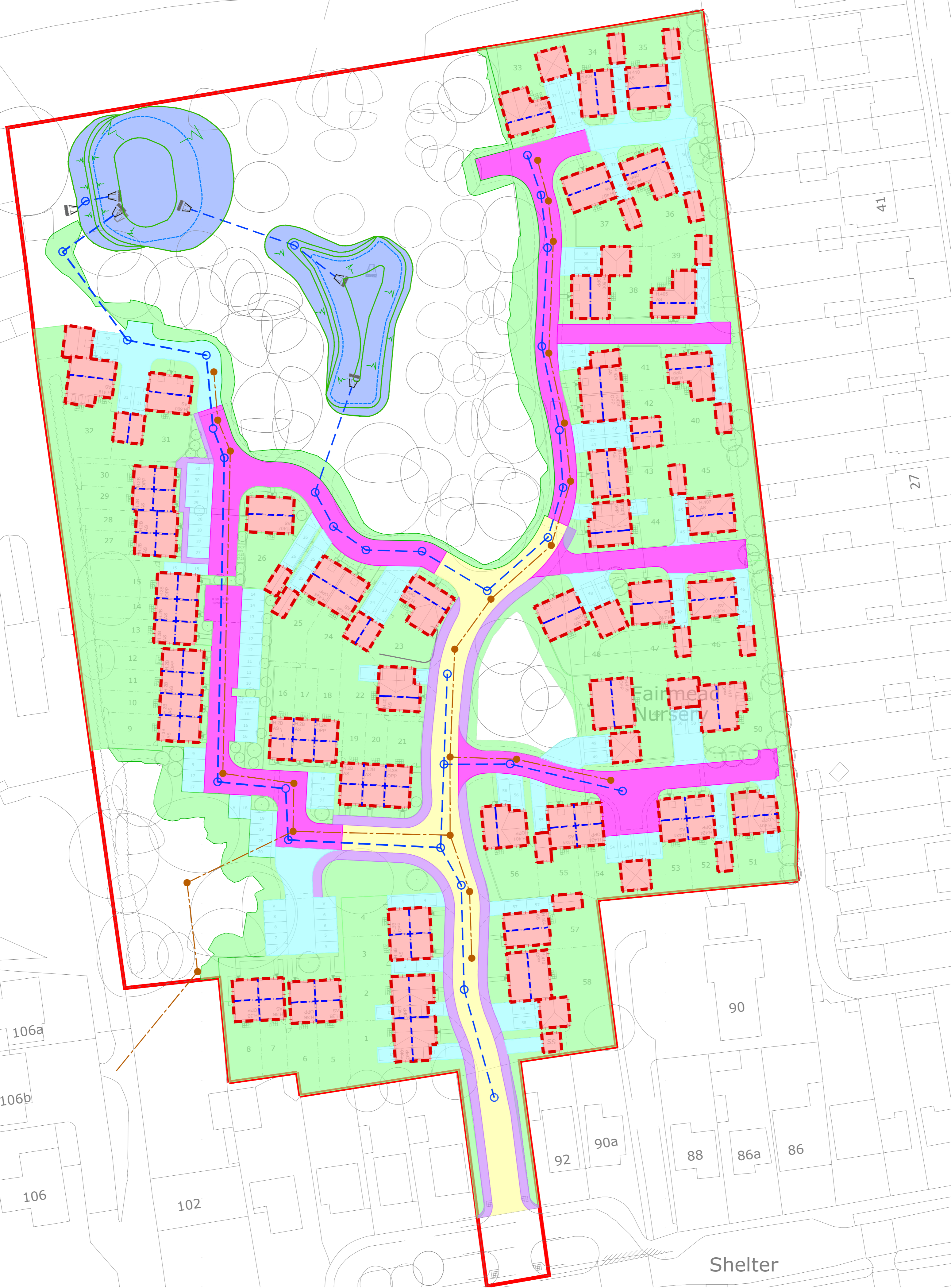
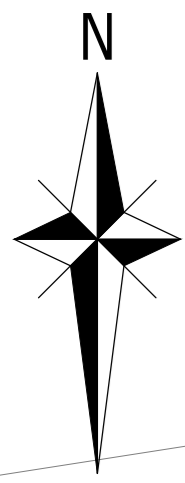
Native Hedge:



| Rev | Date | By | Description | CHK'd |
|-----|----------|-----|--|-------|
| PL9 | 13.08.21 | TH | Tree added to front of plot 6 | |
| PL8 | 12.08.21 | TH | Updated to current Site Layout | |
| PL7 | 25.06.21 | TH | Updated to current Site Layout | |
| PL6 | 21.05.21 | MJR | Issued to Ben Hunt. Eastern buffer strip included. | |
| PL5 | 12.11.19 | MJR | Updated to current Site Layout. Drawing number amended to C00185_CSP_EL_XX_DR_L_001. | |
| PL4 | 13.12.18 | MJR | Updated to current Site Layout. | |
| PL3 | 24.10.18 | MJR | Updated to current Site Layout. | |
| PL2 | 25.09.18 | MJR | Planning issue. Updated to current Site Layout. | |
| P1 | 11.09.18 | MJR | Preliminary issue. | |

| | | |
|---------------------------------------|------------------|------------------------------------|
| | date: Sept 2018 | project: Cuffley Hill Goffs Oak |
| | scale: @A1 1:500 | |
| | drawn by: MJR | drawing: Landscape Strategy Layout |
| | checked: MJR | |
| | PL Planning | PL |
| | T Tender | |
| | C Construction | |
| | P Preliminary | |
| drawing no: C00185_CSP_EL_XX_DR_L_001 | | sheet no: PL9 |

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 - ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
 - DRAWING HAS BEEN BASED UPON TOPOGRAPHICAL SURVEY 2329 REV C PRODUCED BY COUNTRYSIDE PROPERTIES DATED FEBRUARY 2021.
- EARTHWORKS NOTES:**
- WHERE NECESSARY ALL EXCAVATED MATERIAL THAT IS NOT REUSED SHALL BE DISPOSED OF AT AN APPROVED TIP OFF-SITE.
 - ALL VOLUMES INDICATED ARE A SOLID MEASURE AND NO BULKING FACTOR HAS BEEN ALLOWED FOR.
 - ALL EARTHWORKS VOLUMES AND LEVELS SHOWN ARE FOR GUIDANCE ONLY AND SHOULD BE INDEPENDENTLY VERIFIED BY THE CONTRACTOR.
 - ALL WORKS TO BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE APPROVED EARTHWORKS SPECIFICATION PRODUCED BY THE CONTRACTOR OR GEOTECHNICAL CONSULTANT.
 - NO ALLOWANCES HAVE BEEN MADE FOR CONTAMINATED SOIL. CONTAMINATION LEVELS ARE TO BE CONFIRMED FOLLOWING GEOTECHNICAL INVESTIGATION.
 - FORMATION DEPTHS, GROUNDWORKS VOLUMES AND PROPOSED LEVELS ARE ESTIMATED ONLY AND ARE SUBJECT TO GROUNDWORKER APPROVAL OR DEMONSTRATION OF DIFFERENCE.
- CDM NOTES:**
- THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT:
 - WORKS IN THE VICINITY OF LIVE SERVICES WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
 - WORKS WITHIN AND ABUTTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE.
 - HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURER'S ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
 - THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

- LEGEND:**
- BASIN AREA
 - WOODLAND AREA
 - 600mm WIDE PILED FOUNDATIONS
 - 450mm WIDE PILED FOUNDATIONS
 - PROPOSED SURFACE WATER SEWER
 - PROPOSED FOUL WATER SEWER

FOR CUT AND FILL LONGSECTIONS AND ISOPACHYTE REFER TO DRAWINGS: C00185-ACE-XX-DR-C-006-008,010

1. GENERAL CUT AND FILL CALCULATIONS

TOTAL DEVELOPMENT AREA: 2.36ha

BULK EARTHWORKS VOLUME (ESTABLISHED BY COMPARING THE FINISHED DEVELOPMENT LEVELS TO THE TOPSOIL STRIP)
5,747m³ (FILL/IMPORT)

| FORMATION DEPTH/VOLUME TABLE | | | | |
|------------------------------|-------------------------------------|----------------------|-----------|---|
| HATCH | AREA NAME | FORMATION DEPTH (mm) | AREA (ha) | VOLUME TO FORMATION DEPTH (m ³) |
| | BUILDINGS | 675 | 0.45 | 3038 |
| | FLEXIBLE HIGHWAYS | 540 | 0.11 | 594 |
| | SHARED SURFACES | 440 | 0.24 | 1056 |
| | PRIVATE DRIVES / PARKING BAYS | 440 | 0.27 | 1188 |
| | REAR GARDENS / VERGES / LANDSCAPING | 150 | 1.06 | 1590 |
| | BASINS | 150 | 0.16 | 240 |
| | PATHS / FOOTWAYS | 450 | 0.07 | 315 |
| | DEVELOPMENT PARCEL AREA: 2.36ha | | | FORMATION DEPTH VOLUME: 8021m³ (CUT/EXPORT) |

GROSS EARTHWORKS VOLUMES
GROSS EARTHWORKS VOLUME = TOTAL BULK EARTHWORKS VOLUME - FORMATION DEPTH VOLUME
5,747m³ - 8,021m³ = -2,274m³
GROSS EARTHWORKS VOLUME = -2,274m³ (CUT/EXPORT)

2. OTHER MATERIAL INFORMATION

TOPSOIL
IT HAS BEEN ASSUMED NO TOPSOIL CAN BE RE-USED ON SITE DUE TO CONTAMINATION GARDEN/LANDSCAPE AND BASINS AREA: 12,200m²
TOPSOIL HEIGHT: 0.15m
TOPSOIL REQUIRED FOR DEVELOPMENT: 1830m³

| GROUNDWORKS ARISING - ZONE N | | | |
|-------------------------------------|----------------------|---|---|
| AREA NAME | FORMATION DEPTH (mm) | AREA / TOTAL AMOUNT | VOLUME OF ARISING (m ³) |
| SW DRAINAGE | | - | 1268 |
| FW DRAINAGE ARISING | | - | 1081 |
| ON PLOT SERVICES | | 20m ³ PER DWELLING 50m ³ PER BLOCK | 1160 |
| 600mm WIDE FOUNDATIONS | | - | 657 |
| 450mm WIDE FOUNDATIONS | | - | 137 |
| (A) DEVELOPMENT PARCEL AREA: 2.36ha | | | (F) TOTAL ARISING GENERATED DURING CONSTRUCTION: 4,303m³ (CUT/EXPORT) |

(F) SURFACE WATER CALCS
TOTAL LENGTH = 580m
AVERAGE PIPE SIZE = 0.32m
AVERAGE DEPTH = 2.4m (DEPTH BELOW ROAD CONSTRUCTION 1.86m)
TRENCH WIDTH = 0.94
TOTAL VOLUME (580 x 1.86 x 0.94) = 1014m³
FOR MH/LATERALS/GULLIES = 254m³

(F) FOUL WATER CALCS
TOTAL LENGTH = 437m
AVERAGE PIPE SIZE = 0.13m
AVERAGE DEPTH = 2.74m (DEPTH BELOW ROAD CONSTRUCTION 2.2m)
TRENCH WIDTH = 0.9m
TOTAL VOLUME (437 x 2.2 x 0.9) = 865m³
ALLOWANCES FOR MH/LATERALS = 216m³

(G) ON PLOT SERVICES / PLOT DRAINAGE
58 DWELLINGS @ 20m³ = 1160m³
OVERALL = 1160m³

(I) 600mm WIDE FOUNDATIONS
AVERAGE 1.2m DEPTH (0.525m BELOW VOID)
EXTERNAL FOUNDATIONS TOTAL LENGTH = 2085m
TOTAL VOLUME = 0.525 x 0.6 x 2085 = 657m³

(I) 450mm WIDE FOUNDATIONS
AVERAGE 1.2m DEPTH (0.525m BELOW VOID)
EXTERNAL FOUNDATIONS TOTAL LENGTH = 581m
TOTAL VOLUME = 0.525 x 0.45 x 581 = 137m³

NET EARTHWORKS (IMPORT / EXPORT) VOLUME
NET EARTHWORKS VOLUME = GROSS EARTHWORKS VOLUME + TOTAL ARISING GENERATED DURING CONSTRUCTION
-2,274m³ (CUT/EXPORT) - 4,303m³ (CUT/EXPORT) = -6,577m³ (CUT/EXPORT)
CUT / FILL BALANCE : -6,577m³ OF CUT/EXPORT OF MATERIAL (SUBSOIL/MADE GROUND)

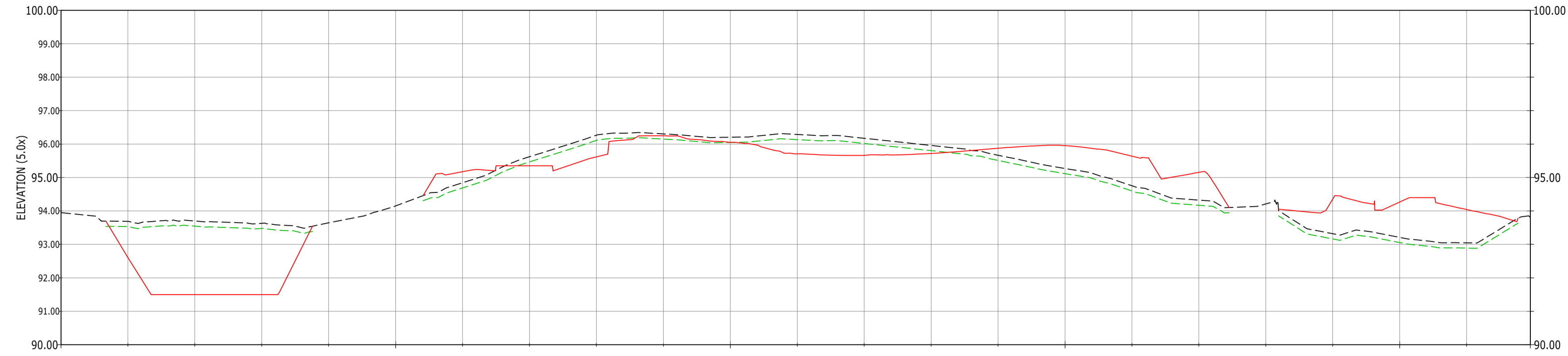
CONTAMINATED TOPSOIL TO BE EXPORTED = 23600m² x 0.155m = 3,658m³
SUBSOIL TO BE EXPORTED = 6,577m³
TOPSOIL TO BE IMPORTED = 1,830m³

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| Rev | Description | Drn | Chk | App | Date |
|---|-------------|------------|-------------|-----|------|
| <p>ARDENT CONSULTING ENGINEERS</p> <p>Third Floor The Hallmark Building 52-56 Leadenhall Street London EC3M 5JE</p> <p>Tel: 020 7680 4088 Web: www.ardent-ce.co.uk E-mail: enquiries@ardent-ce.co.uk</p> <p>Client: COUNTRYSIDE PROPERTIES (UK) Ltd</p> <p>Project Title: CUFFLEY HILL, GOFFS OAK</p> <p>Drawing Title: CUT AND FILL APPRAISAL</p> | | | | | |
| A1 | Scale | Date | Designed by | | |
| | 1:500 | JULY 2021 | DSR | | |
| | Drawn by | Checked by | Approved by | | |
| | UN | DSR | BB | | |
| Drawing Number | | | Rev | | |
| C00185-ACE-IG-XX-DR-C-PO05 | | | P1 | | |

PROFILE VIEW: SECTION 1
SCALE: H:500, V:100
DATUM: 90.000



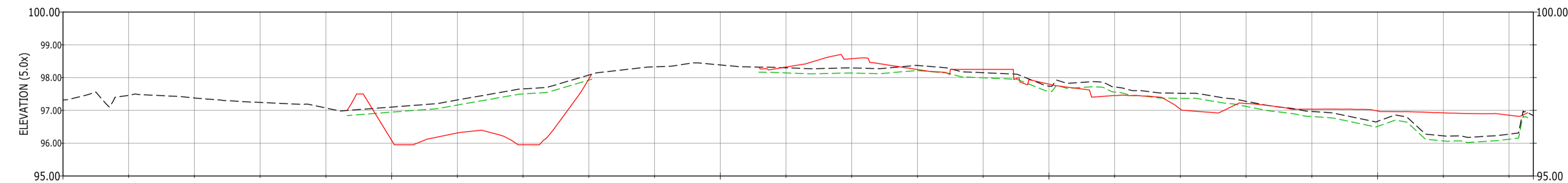
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|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| EXISTING LEVELS | 93.948 | 93.688 | 93.699 | 93.630 | 93.647 | 94.150 | 94.844 | 95.620 | 96.267 | 96.303 | 96.204 | 96.287 | 96.173 | 95.958 | 95.667 | 95.269 | 94.751 | 94.325 | 94.209 | 93.318 | 93.210 | 93.045 | 93.808 |
| FINISHED LEVELS | | 92.609 | 91.500 | 91.500 | | | 95.172 | 95.350 | 95.618 | 96.248 | 96.052 | 95.708 | 95.663 | 95.720 | 95.874 | 95.954 | 95.638 | 95.153 | | 94.355 | 94.267 | 94.045 | |

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LEGEND
 — PROPOSED GROUND
 - - - - - EXISTING GROUND
 - - - - - TOPSOIL STRIP

FOR CUT AND FILL CALCULATIONS
REFER TO DRAWING:
C00185-ACE-IG-XX-DR-C-P005

PROFILE VIEW: SECTION 2
SCALE: H:500, V:100
DATUM: 95.000

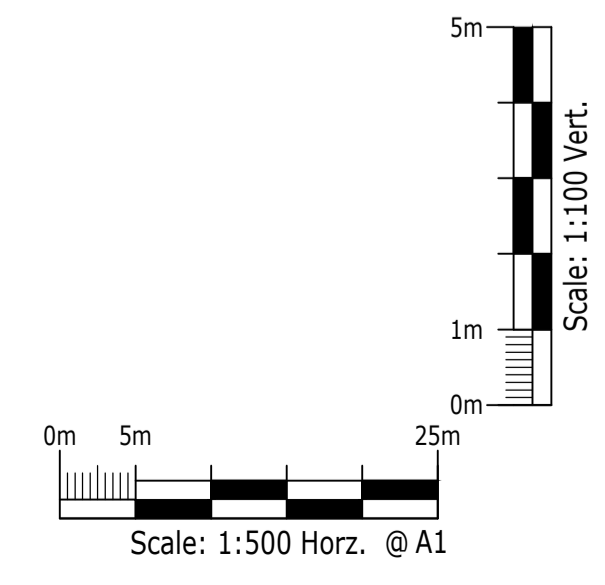


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|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| EXISTING LEVELS | 97.317 | 97.460 | 97.378 | 97.242 | 97.074 | 97.102 | 97.318 | 97.656 | 98.078 | 98.328 | 98.387 | 98.299 | 98.295 | 98.370 | 98.150 | 97.729 | 97.715 | 97.522 | 97.278 | 96.967 | 96.667 | 96.225 | 96.276 | 96.841 |
| FINISHED LEVELS | | | | | | 96.089 | 96.312 | 95.950 | 97.953 | | | 98.323 | 98.578 | 98.247 | 98.250 | 97.801 | 97.453 | 97.038 | 97.213 | 97.039 | 96.981 | 96.925 | 96.854 | |

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|---|-------------|-------------|-----|-----|----------|
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| Client COUNTRYSIDE PROPERTIES (UK) Ltd | | | | | |
| Project Title CUFFLEY HILL, GOFFS OAK | | | | | |
| Drawing Title CUT AND FILL CALCS LONGSECTIONS (SHEET 1 OF 3) | | | | | |
| A1 Scale | Date | Designed by | | | |
| AS SHOWN | JULY 2021 | DSR | | | |
| Drawn by | Checked by | Approved by | | | |
| DSR | AW | BB | | | |
| Drawing Number C00185-ACE-IG-XX-DR-C-P006 | | | | | Rev - |



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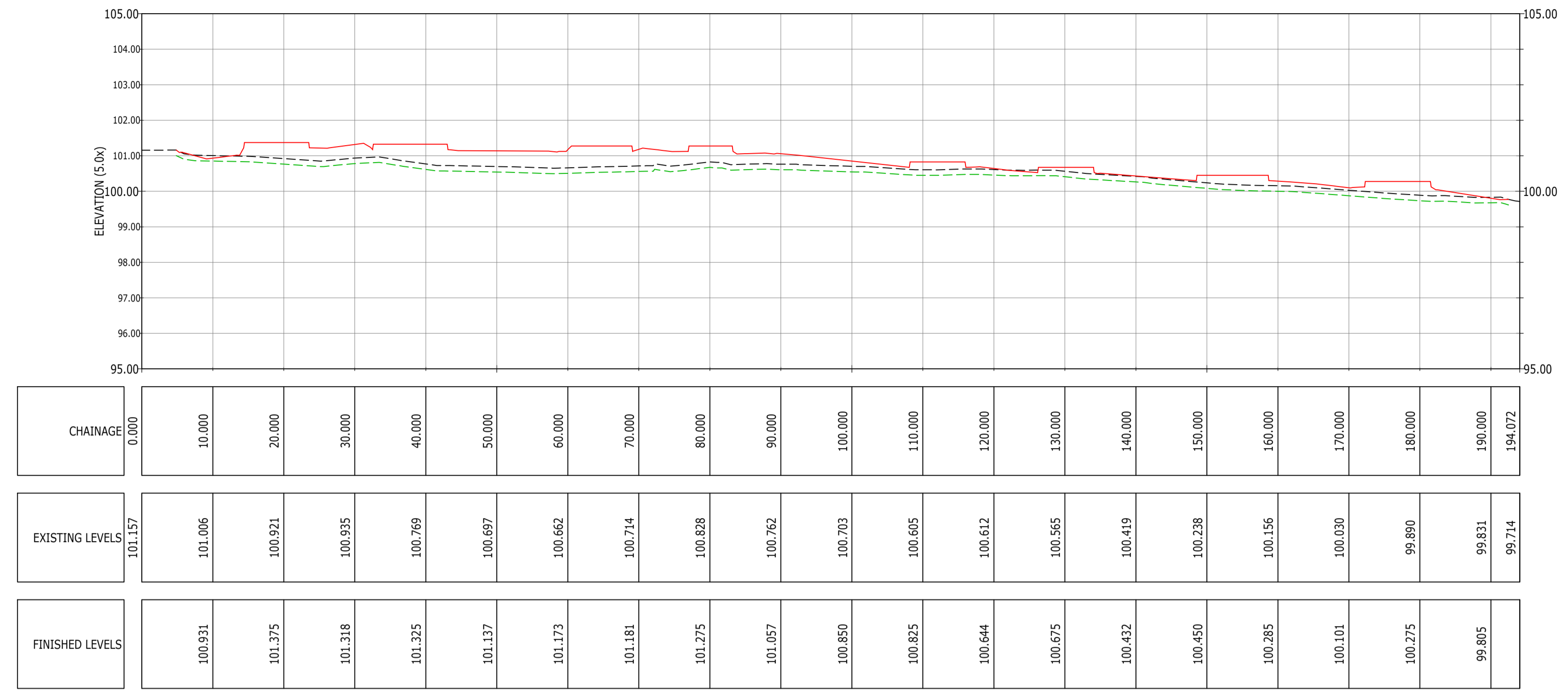
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LEGEND

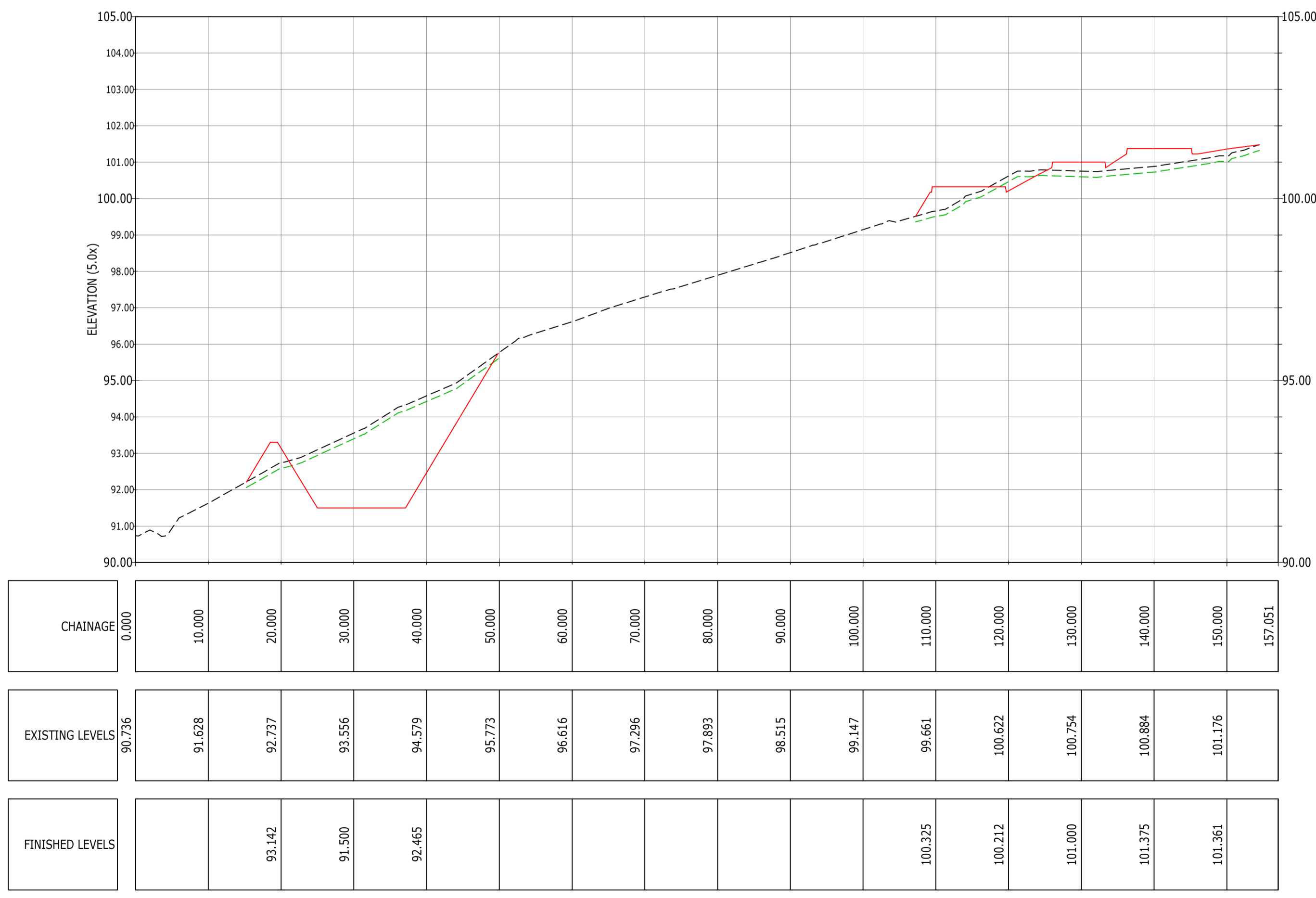
- PROPOSED GROUND
- EXISTING GROUND
- TOPSOIL STRIP

FOR CUT AND FILL CALCULATIONS
REFER TO DRAWING:
C00185-ACE-IG-XX-DR-C-P005

PROFILE VIEW: SECTION 3
SCALE: H:500, V:100
DATUM: 95.000



PROFILE VIEW: SECTION 4
SCALE: H:500, V:100
DATUM: 90.000



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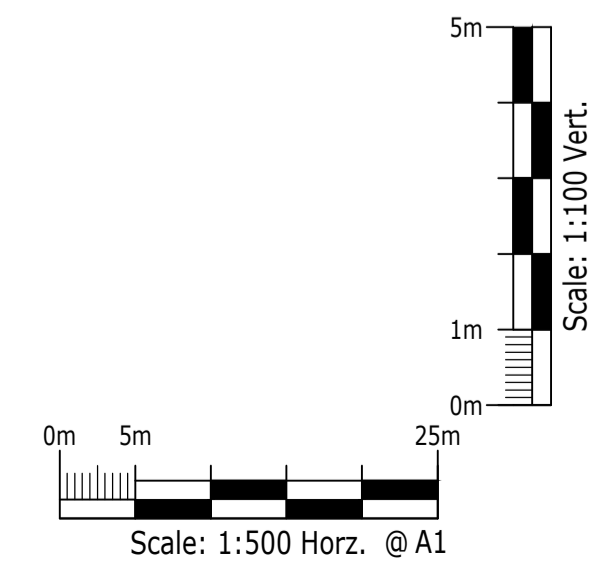
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worksafe consultant
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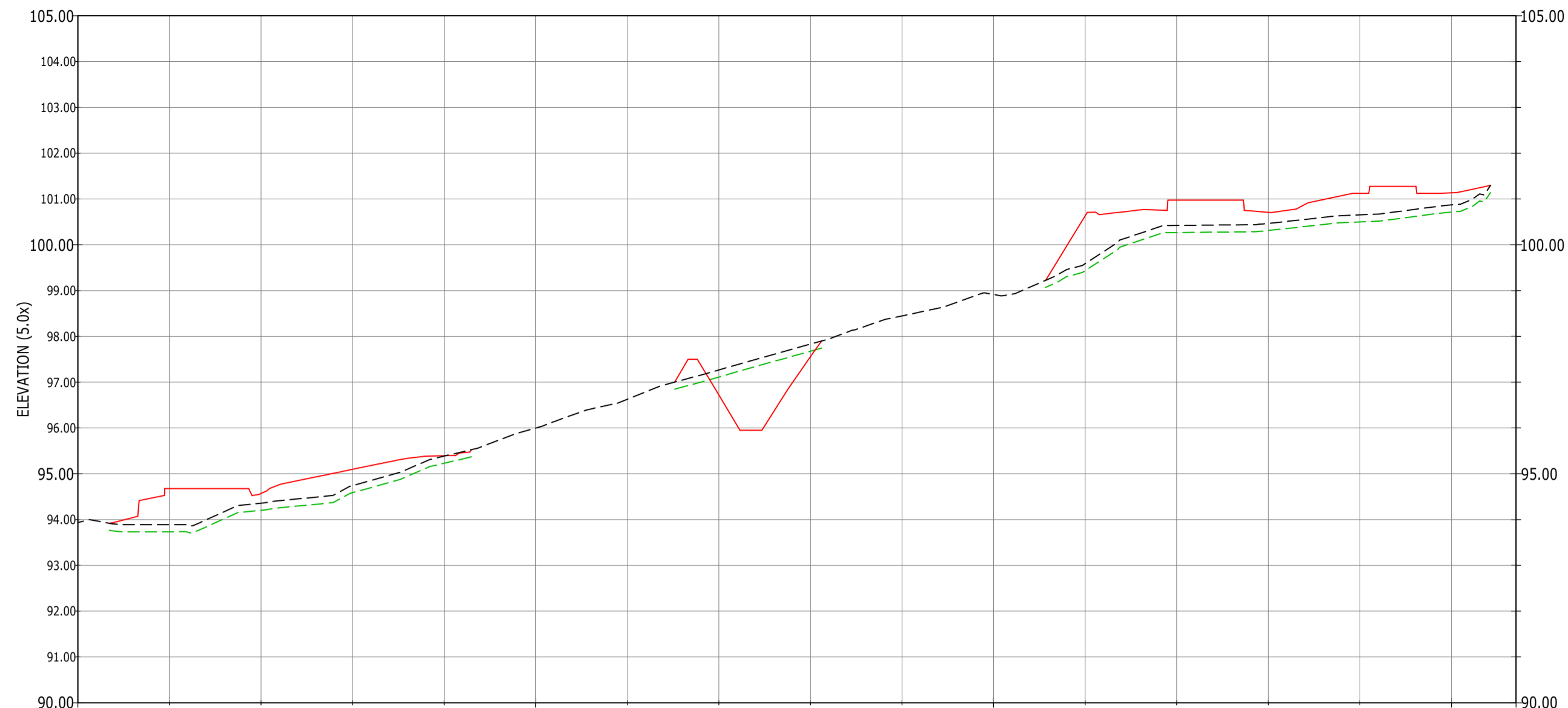
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SAFETY PROMOTION BY PROFESSIONAL

| | | | |
|----------------------------|------------|---|--|
| Client | | COUNTRYSIDE PROPERTIES (UK) Ltd | |
| Project Title: | | CUFFLEY HILL, GOFFS OAK | |
| Drawing Title: | | CUT AND FILL CALCS LONGSECTIONS (SHEET 2 OF 3) | |
| A1 Scale | Date | Designed by | |
| AS SHOWN | JULY 2021 | DSR | |
| Drawn by | Checked by | Approved by | |
| DSR | AW | BB | |
| Drawing Number | | Rev | |
| C00185-ACE-IG-XX-DR-C-P007 | | - | |



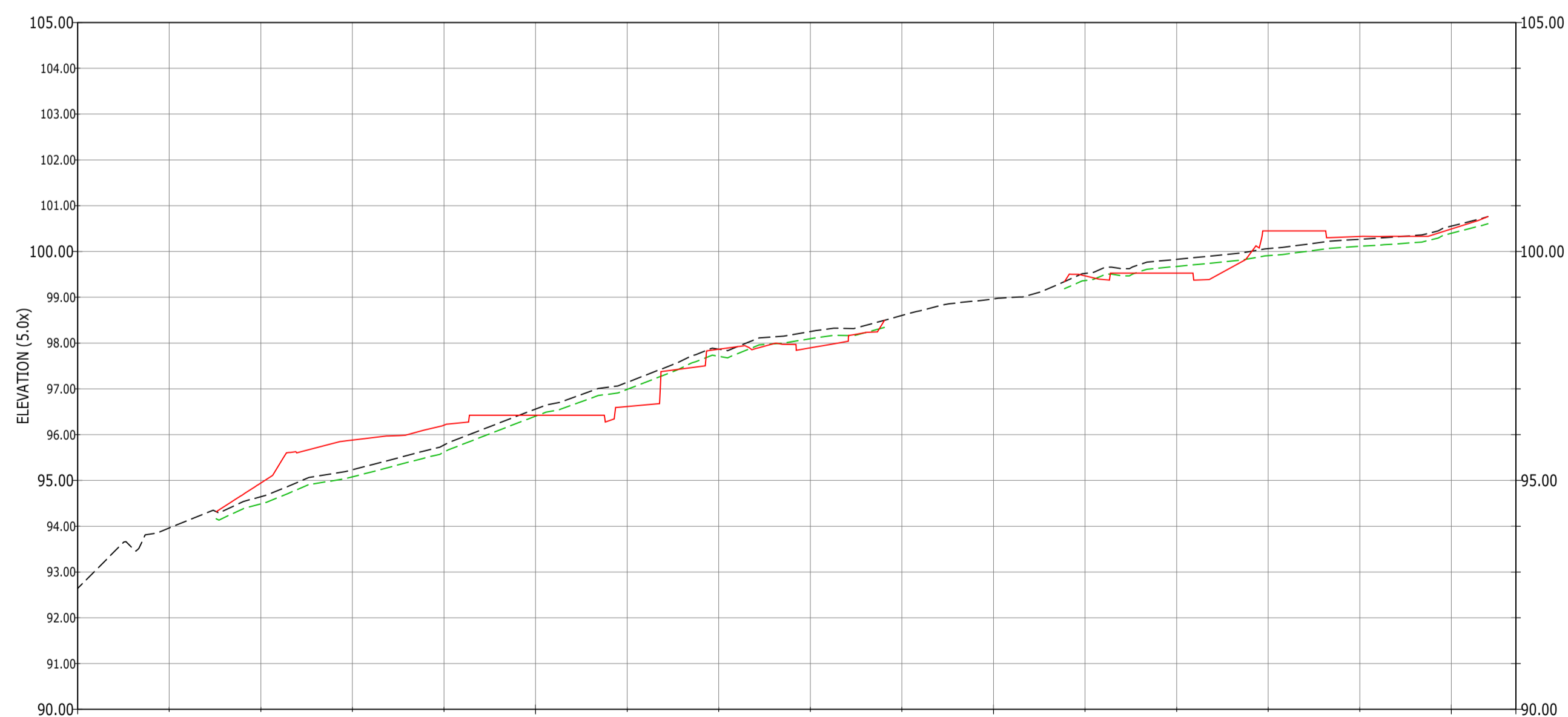
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PROFILE VIEW: SECTION 5
SCALE: H:500, V:100
DATUM: 90.000



| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 | 60.000 | 70.000 | 80.000 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 157.051 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| EXISTING LEVELS | 93.933 | 93.889 | 94.357 | 94.742 | 95.385 | 95.999 | 96.628 | 97.267 | 97.831 | 98.447 | 98.915 | 99.589 | 100.422 | 100.467 | 100.653 | 100.870 | |
| FINISHED LEVELS | 93.933 | 93.889 | 94.357 | 94.742 | 95.385 | 95.999 | 96.628 | 97.267 | 97.831 | 98.447 | 98.915 | 99.589 | 100.422 | 100.467 | 100.653 | 100.870 | |

PROFILE VIEW: SECTION 6
SCALE: H:500, V:100
DATUM: 90.000



| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 | 60.000 | 70.000 | 80.000 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 157.051 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| EXISTING LEVELS | 92.642 | 93.962 | 94.644 | 95.223 | 95.773 | 96.559 | 97.143 | 97.866 | 98.251 | 98.602 | 98.964 | 99.520 | 99.829 | 100.063 | 100.267 | 100.553 | |
| FINISHED LEVELS | | | 94.945 | 95.882 | 96.207 | 96.425 | 96.615 | 97.865 | 97.896 | | | 99.467 | 99.525 | 100.450 | 100.327 | 100.492 | |

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LEGEND

- PROPOSED GROUND
- EXISTING GROUND
- TOPSOIL STRIP

FOR CUT AND FILL CALCULATIONS
REFER TO DRAWING:
C00185-ACE-IG-XX-DR-C-P005

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|----------------|---|-------------|-----|
| Client | COUNTRYSIDE PROPERTIES (UK) Ltd | | |
| Project Title: | CUFFLEY HILL, GOFFS OAK | | |
| Drawing Title: | CUT AND FILL CALCS LONGSECTIONS (SHEET 3 OF 3) | | |
| A1 Scale | Date | Designed by | |
| AS SHOWN | JULY 2021 | DSR | |
| Drawn by | Checked by | Approved by | |
| DSR | AW | BB | |
| Drawing Number | C00185-ACE-IG-XX-DR-C-P008 | | Rev |
| | | | - |

