

Appendix A – Topographical Survey Plan – Woods

NOTES

- THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CB66), SOURCED FROM LINZ DATABASE. - 802876.480mN 405586.952mE
- THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415 SO 53199" (GD CODE CB66), RL = 14.83m, SOURCED FROM LINZ DATABASE.
- CONTOURS ARE SHOWN AT 0.25m INTERVALS.
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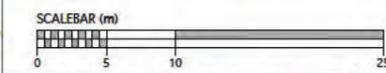
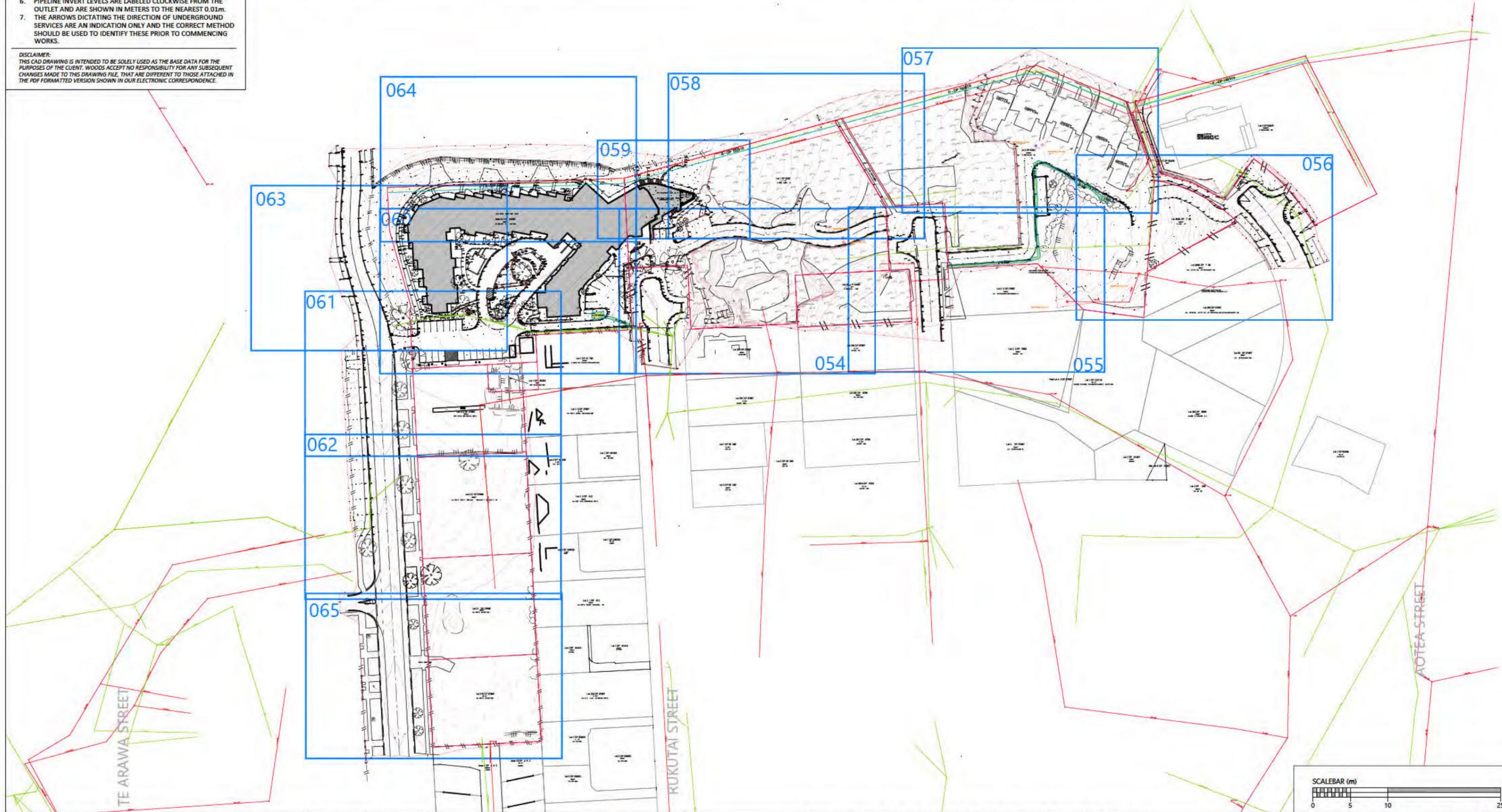
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LEGEND

- SPOT HEIGHT
- MAJOR CONTOURS
- POWER BOX
- BALCONY
- GATE
- FENCE
- TOP OF BANK
- TOP OF WALL
- KERB/CHANNEL
- SICN
- WASTEWATER MH
- STORMWATER MH
- DECK
- XML BOUNDARY
- MINOR CONTOURS
- UNKNOWN MANHOLE
- LIGHT POST
- CESSPIT
- EDGE OF CONCRETE
- BOTTOM OF BANK
- BOTTOM OF WALL
- EDGE OF BUSH
- BOLLARD
- FIRE HYDRANT

SCHEDULE OF EXISTING EASEMENTS (IN GROSS)

| PURPOSE | SHOWN AS | SERVIENT TENEMENT | GRANTEE | CREATED BY | AFFECTED TITLE |
|---------------------------------------|-----------------|-------------------|-------------------------|------------|----------------|
| GAS RIGHT | A DP 162515 | SEC 3 SO 63269 | UNITED NETWORKS LIMITED | D320989.1 | 557119 |
| RIGHT TO TRANSMIT AN ELECTRIC CURRENT | A & B DP 206587 | SEC 3 DO 63269 | VECTOR LIMITED | D597272.1 | 557119 |
| GAS RIGHT | B DP 162515 | LOT 1 DP 92924 | UNITED NETWORKS LIMITED | D320989.1 | NA99C/193 |
| ELECTRICITY SUPPLY | A DP 344206 | LOT 2 DP 92924 | VECTOR LIMITED | T7170273.1 | 51399 |
| CABLE ACCESS | B DP 344206 | LOT 2 DP 92924 | VECTOR LIMITED | T7170273.1 | 51399 |
| GAS RIGHT | D DP 162515 | LOT 2 DP 92924 | UNITED NETWORKS LIMITED | D320989.1 | NA99C/194 |
| GAS RIGHT | F DP 162515 | LOT 3 DP 92925 | UNITED NETWORKS LIMITED | D320989.1 | NA99C/195 |



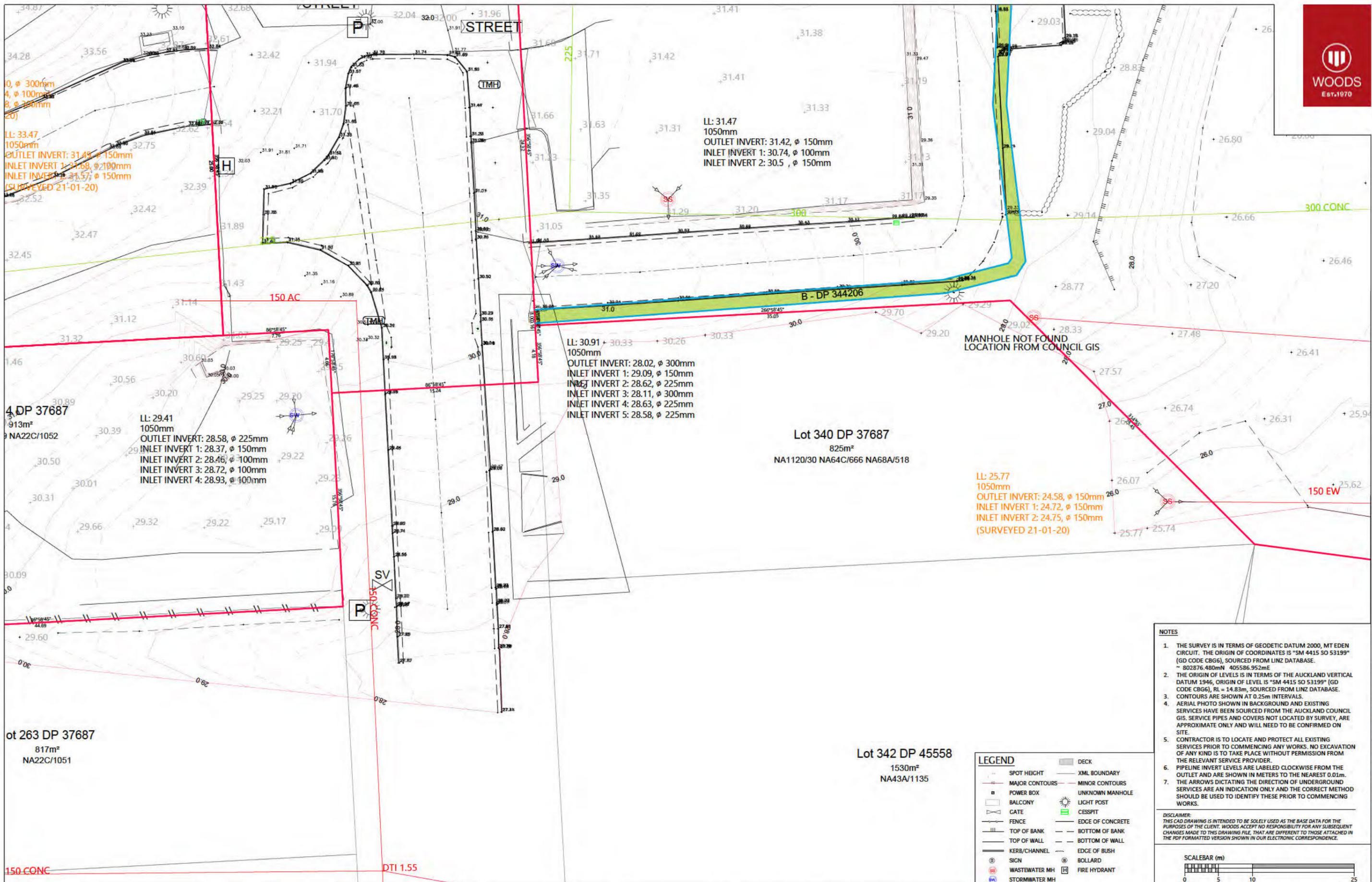
| REVISION DETAILS | INT | DATE | SURVEYED | CJ | |
|-------------------------------------|-----|------------|----------|-----|---------------------------------------|
| 1 ISSUED FOR INFORMATION | CJ | 22/02/2018 | DESIGNED | N/A | 217 KUPE STREET ORAKEI AUCKLAND, 1071 |
| 2 ADDITIONAL TOPO INFORMATION ADDED | CJ | 09/08/2018 | DRAWN | CJ | |
| 6 ADDITIONAL TOPO INFORMATION ADDED | CJ | 15/03/2019 | CHECKED | WC | |
| 7 ADDITIONAL TOPO INFORMATION ADDED | SK | 22/01/2020 | APPROVED | WC | WOODS.CO.NZ |



EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



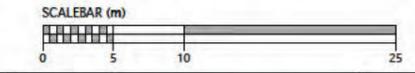
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|---------|------------------------|-----|
| SCALE | 1:750 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-053-SU | |



- NOTES**
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LEGEND

| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | UNKNOWN MANHOLE |
| POWER BOX | LIGHT POST |
| BALCONY | CESSPIT |
| GATE | EDGE OF CONCRETE |
| FENCE | BOTTOM OF BANK |
| TOP OF BANK | TOP OF WALL |
| KERB/CHANNEL | BOTTOM OF WALL |
| SIGN | EDGE OF BUSH |
| WASTEWATER MH | BOLLARD |
| STORMWATER MH | FIRE HYDRANT |



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217 KUPE STREET
ORAKEI
AUCKLAND, 1071



EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



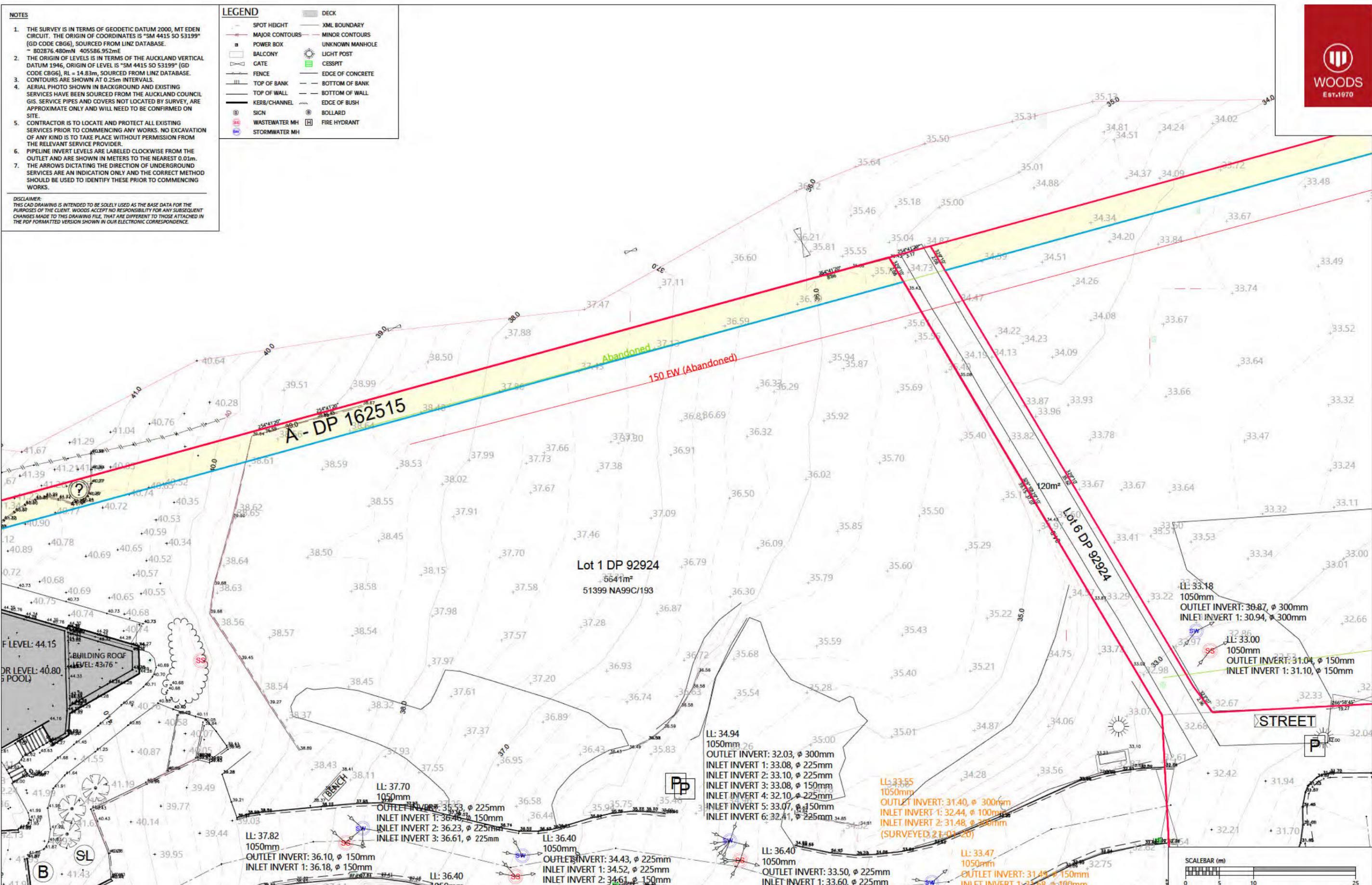
| STATUS | ISSUED FOR INFORMATION | REV |
|---------|------------------------|-----|
| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-055-SU | |

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LEGEND

| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | UNKNOWN MANHOLE |
| POWER BOX | LIGHT POST |
| BALCONY | CESSPIT |
| GATE | EDGE OF CONCRETE |
| FENCE | BOTTOM OF BANK |
| TOP OF BANK | BOTTOM OF WALL |
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| KERB/CHANNEL | BOLLARD |
| SIGN | FIRE HYDRANT |
| WASTEWATER MH | |
| STORMWATER MH | |

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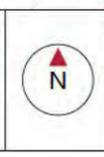


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LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



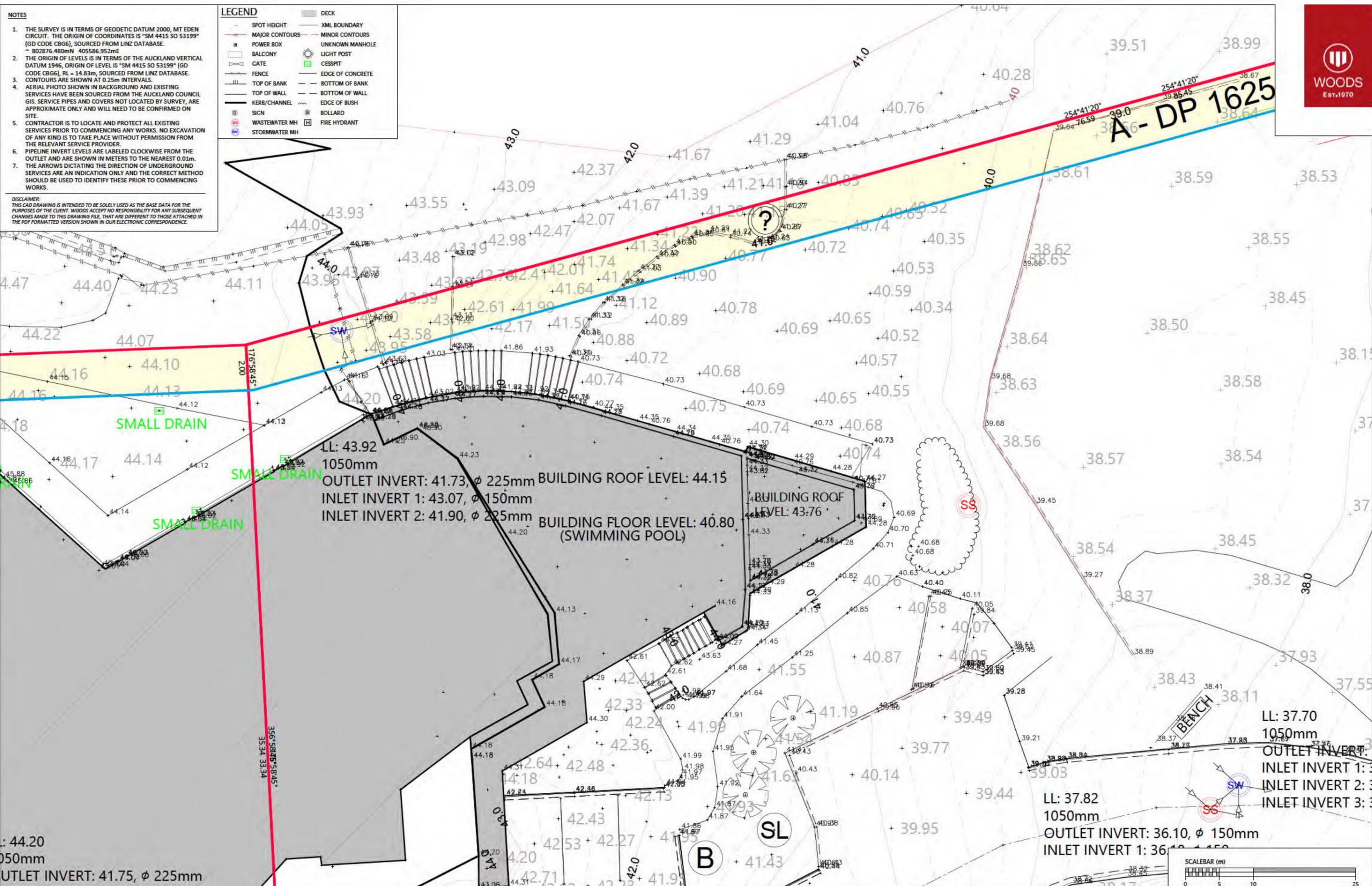
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| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-058-SU | |

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LL: 44.20
1050mm
OUTLET INVERT: 41.75, ϕ 225mm
INLET INVERT 1: 43.07, ϕ 150mm
INLET INVERT 2: 41.90, ϕ 225mm

LL: 43.92
1050mm
OUTLET INVERT: 41.73, ϕ 225mm
BUILDING ROOF LEVEL: 44.15
INLET INVERT 1: 43.07, ϕ 150mm
INLET INVERT 2: 41.90, ϕ 225mm
BUILDING FLOOR LEVEL: 40.80
(SWIMMING POOL)

LL: 37.70
1050mm
OUTLET INVERT:
INLET INVERT 1:
INLET INVERT 2:
INLET INVERT 3:

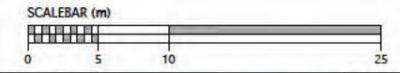
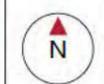
LL: 37.82
1050mm
OUTLET INVERT: 36.10, ϕ 150mm
INLET INVERT 1: 36.10, ϕ 150mm

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217 KUPE STREET
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AUCKLAND, 1071



EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



| STATUS | ISSUED FOR INFORMATION | REV |
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NOTES

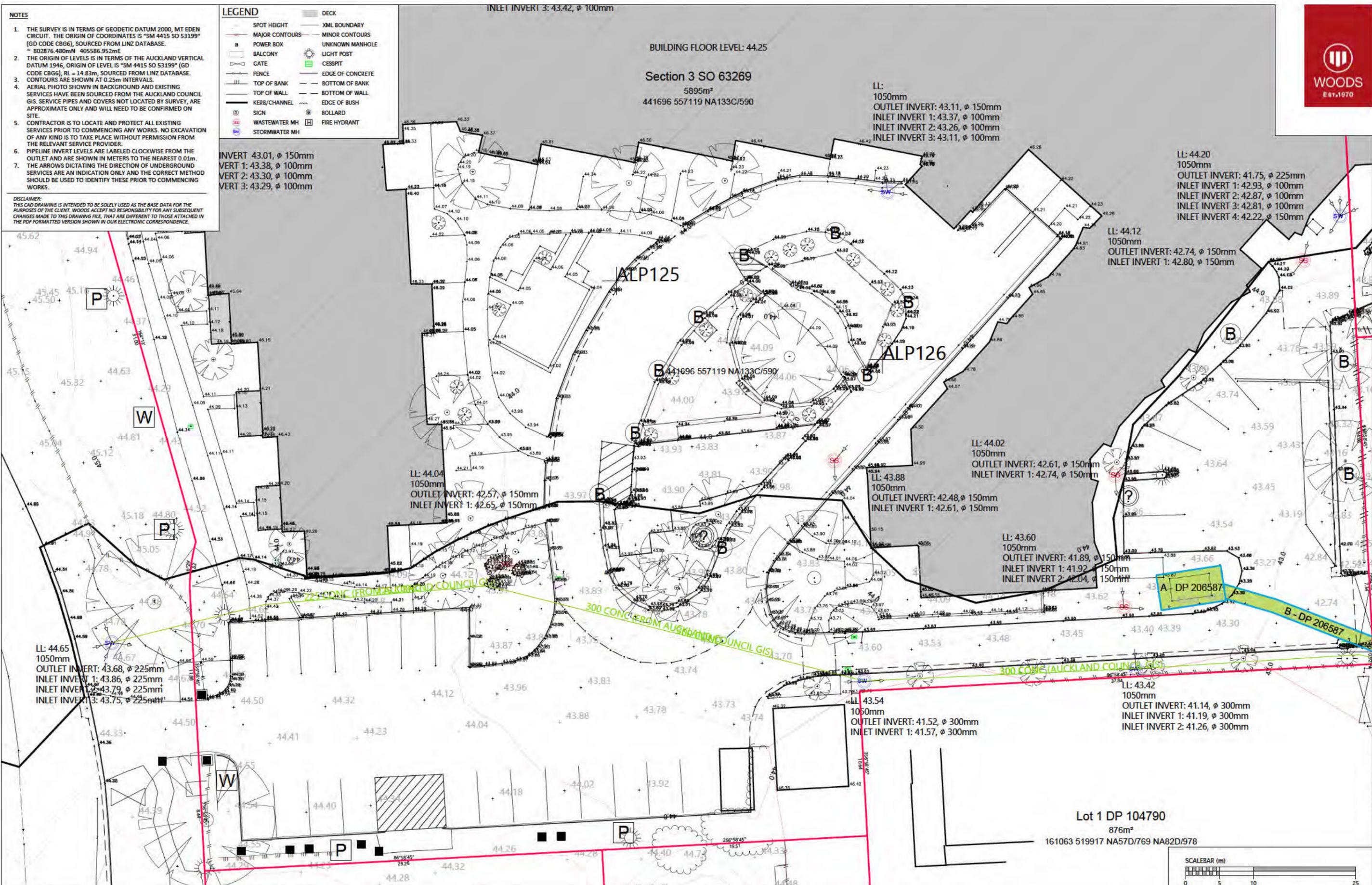
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INVERT 43.01, ϕ 150mm
VERT 1: 43.38, ϕ 100mm
VERT 2: 43.30, ϕ 100mm
VERT 3: 43.29, ϕ 100mm

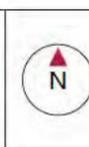


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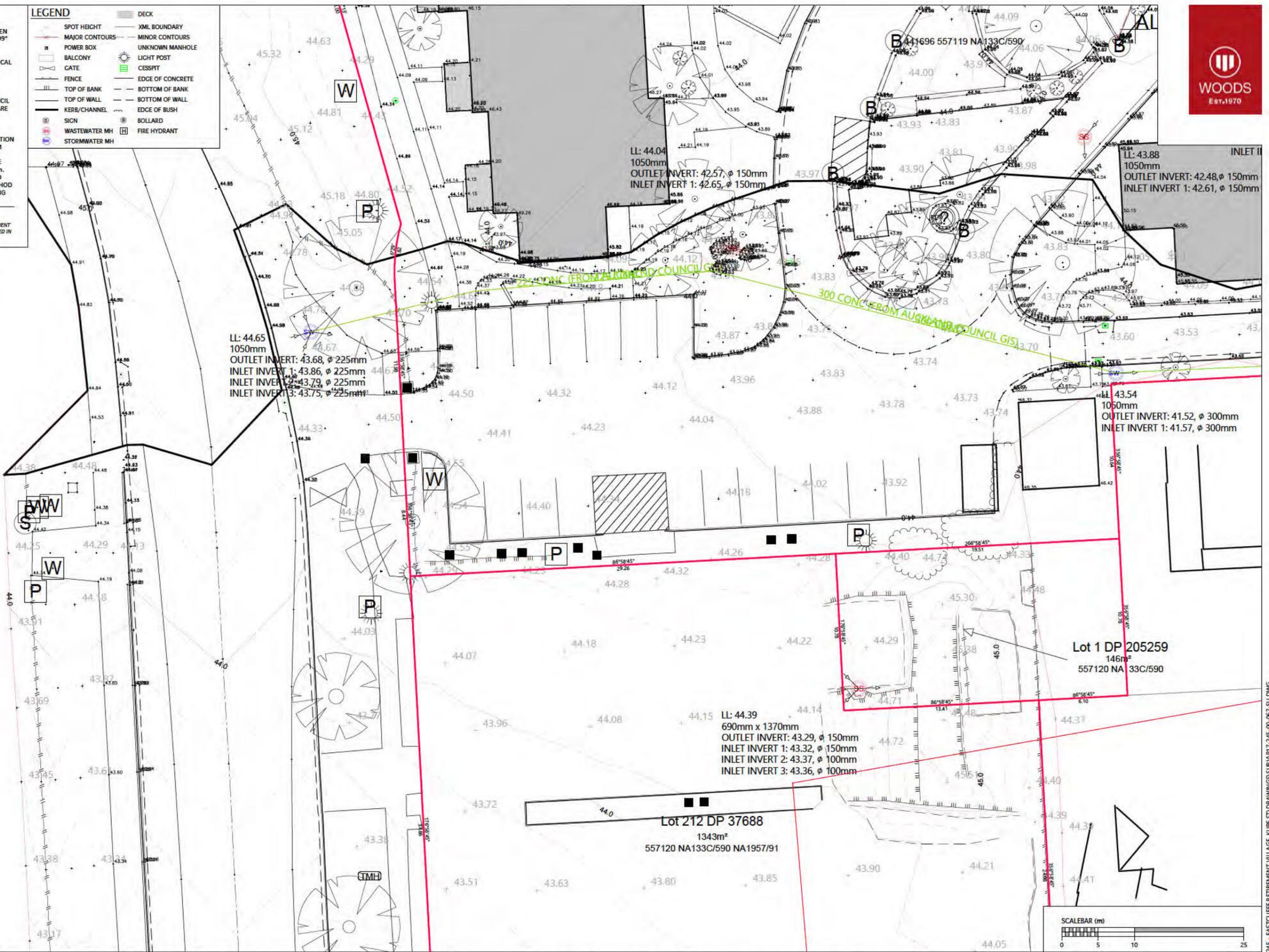
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LEGEND

| | |
|----------------|------------------|
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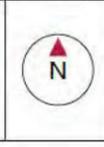


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LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



| | | |
|---------|------------------------|-----|
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| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-061-SU | |



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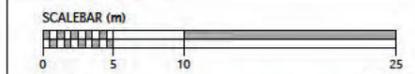
| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | UNKNOWN MANHOLE |
| POWER BOX | LIGHT POST |
| BALCONY | CESSPIT |
| GATE | EDGE OF CONCRETE |
| FENCE | BOTTOM OF BANK |
| TOP OF BANK | TOP OF WALL |
| TOP OF WALL | BOTTOM OF WALL |
| KERB/CHANNEL | EDGE OF BUSH |
| SIGN | BOLLARD |
| WASTEWATER MH | FIRE HYDRANT |
| STORMWATER MH | |

| REVISION DETAILS | INT | DATE | SURVEYED | CJ |
|-------------------------------------|-----|------------|----------|-----|
| 1 ISSUED FOR INFORMATION | CJ | 22/02/2018 | DESIGNED | N/A |
| 2 ADDITIONAL TOPO INFORMATION ADDED | CJ | 09/03/2018 | DRAWN | CJ |
| 6 ADDITIONAL TOPO INFORMATION ADDED | CJ | 15/03/2019 | CHECKED | WC |
| 7 ADDITIONAL TOPO INFORMATION ADDED | SK | 22/01/2020 | APPROVED | WC |

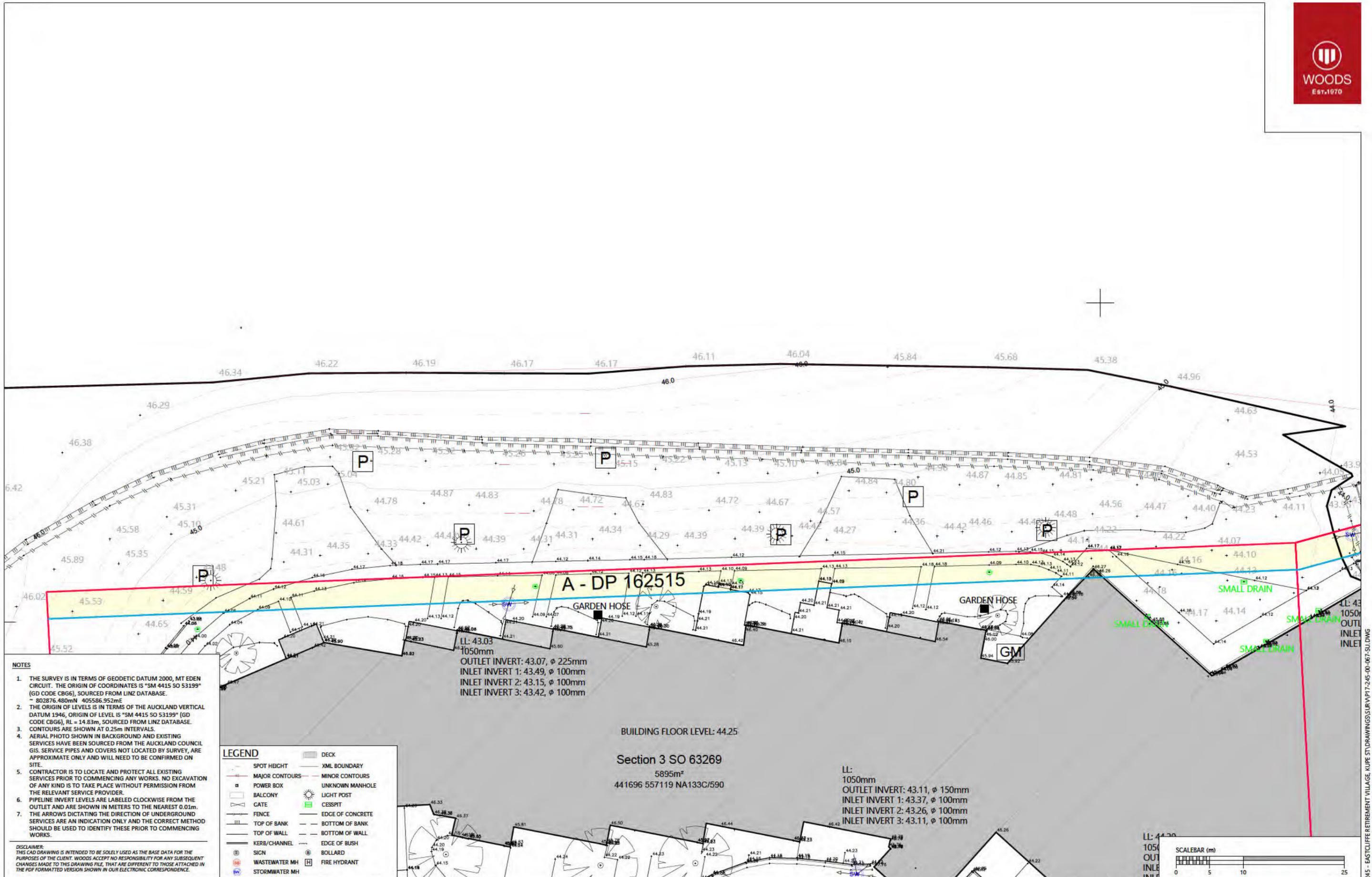
217 KUPE STREET
ORAKEI
AUCKLAND, 1071



EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



| STATUS | ISSUED FOR INFORMATION | REV |
|---------|------------------------|-----|
| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-062-SU | |



- NOTES**
1. THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE.
~ 802876.480mN 405586.952mE
 2. THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415 SO 53199" (GD CODE CBG6), RL = 14.83m, SOURCED FROM LINZ DATABASE.
 3. CONTOURS ARE SHOWN AT 0.25m INTERVALS.
 4. AERIAL PHOTO SHOWN IN BACKGROUND AND EXISTING SERVICES HAVE BEEN SOURCED FROM THE AUCKLAND COUNCIL GIS. SERVICE PIPES AND COVERS NOT LOCATED BY SURVEY, ARE APPROXIMATE ONLY AND WILL NEED TO BE CONFIRMED ON SITE.
 5. CONTRACTOR IS TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO COMMENCING ANY WORKS. NO EXCAVATION OF ANY KIND IS TO TAKE PLACE WITHOUT PERMISSION FROM THE RELEVANT SERVICE PROVIDER.
 6. PIPELINE INVERT LEVELS ARE LABELED CLOCKWISE FROM THE OUTLET AND ARE SHOWN IN METERS TO THE NEAREST 0.01m.
 7. THE ARROWS DICTATING THE DIRECTION OF UNDERGROUND SERVICES ARE AN INDICATION ONLY AND THE CORRECT METHOD SHOULD BE USED TO IDENTIFY THESE PRIOR TO COMMENCING WORKS.

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LEGEND

| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | UNKNOWN MANHOLE |
| POWER BOX | LIGHT POST |
| BALCONY | CESSPIT |
| GATE | EDGE OF CONCRETE |
| FENCE | TOP OF BANK |
| TOP OF BANK | BOTTOM OF BANK |
| TOP OF WALL | BOTTOM OF WALL |
| KERB/CHANNEL | EDGE OF BUSH |
| SIGN | BOLLARD |
| WASTEWATER MH | FIRE HYDRANT |
| STORMWATER MH | |

LL: 43.03
1050mm
OUTLET INVERT: 43.07, ϕ 225mm
INLET INVERT 1: 43.49, ϕ 100mm
INLET INVERT 2: 43.15, ϕ 100mm
INLET INVERT 3: 43.42, ϕ 100mm

BUILDING FLOOR LEVEL: 44.25

Section 3 SO 63269
5895m²
441696 557119 NA133C/590

LL: 43.20
1050mm
OUTLET INVERT: 43.11, ϕ 150mm
INLET INVERT 1: 43.37, ϕ 100mm
INLET INVERT 2: 43.26, ϕ 100mm
INLET INVERT 3: 43.11, ϕ 100mm

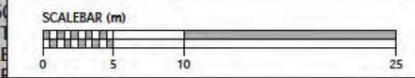
| REVISION DETAILS | INT | DATE | SURVEYED | CJ |
|-------------------------------------|-----|------------|----------|-----|
| 1 ISSUED FOR INFORMATION | CJ | 22/02/2018 | DESIGNED | N/A |
| 2 ADDITIONAL TOPO INFORMATION ADDED | CJ | 09/03/2018 | DRAWN | CJ |
| 6 ADDITIONAL TOPO INFORMATION ADDED | CJ | 15/03/2019 | CHECKED | WC |
| 7 ADDITIONAL TOPO INFORMATION ADDED | SK | 22/01/2020 | APPROVED | WC |

217 KUPE STREET
ORAKEI
AUCKLAND, 1071

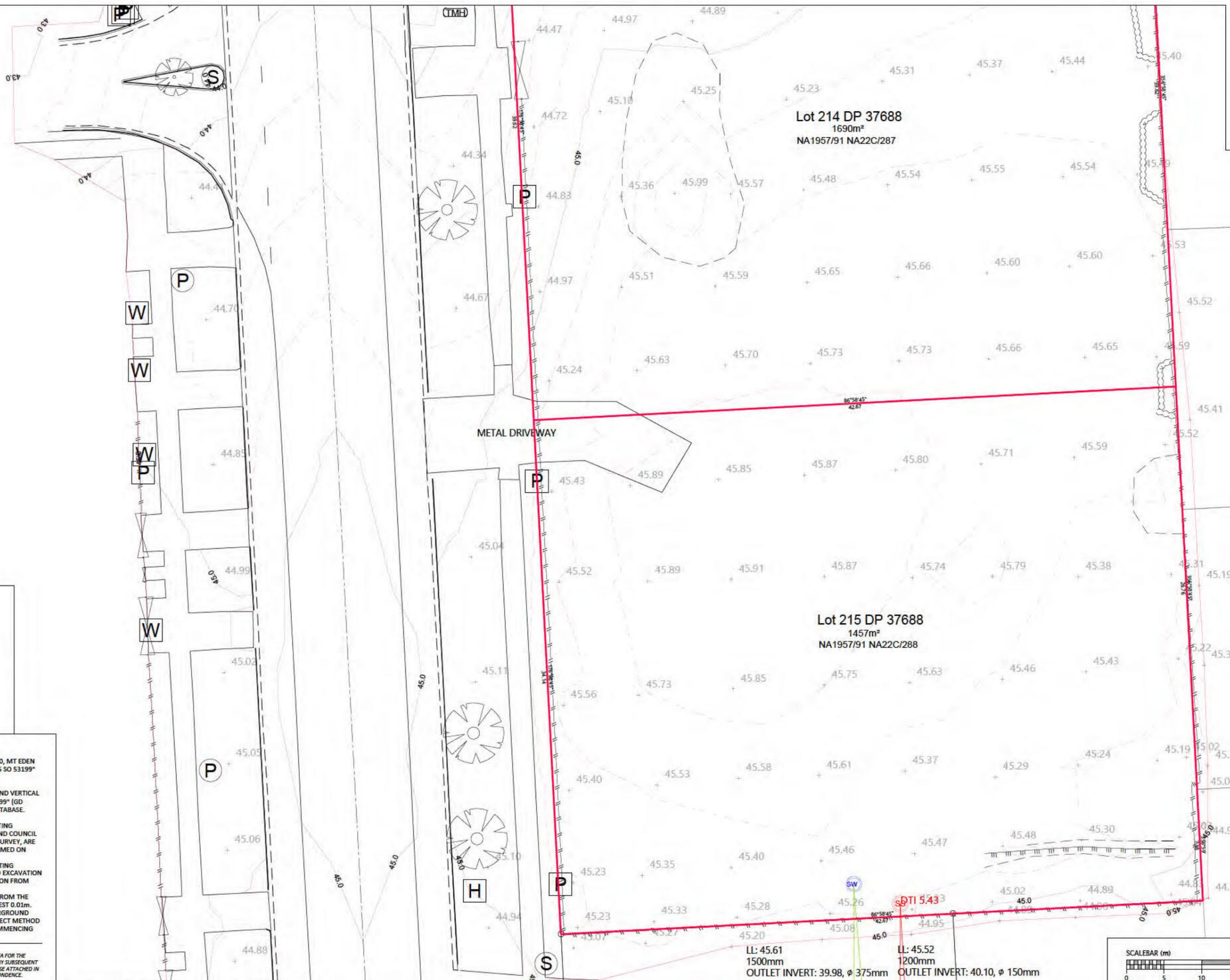


EASTCLIFFE RETIREMENT VILLAGE, ORAKEI

LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



| STATUS | ISSUED FOR INFORMATION | REV |
|---------|------------------------|-----|
| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-064-SU | |



LEGEND

| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | UNKNOWN MANHOLE |
| POWER BOX | LIGHT POST |
| BALCONY | CESSPIT |
| GATE | EDGE OF CONCRETE |
| FENCE | EDGE OF BANK |
| TOP OF BANK | BOTTOM OF BANK |
| TOP OF WALL | BOTTOM OF WALL |
| KERB/CHANNEL | EDGE OF BUSH |
| SIGN | BOLLARD |
| WASTEWATER MH | FIRE HYDRANT |
| STORMWATER MH | |

NOTES

1. THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDMUND CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE. ~ 802876.480mN 405586.952mE
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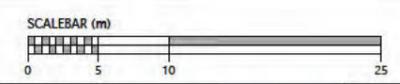
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| REVISION DETAILS | INT | DATE | SURVEYED | CJ | |
|-------------------------------------|-----|------------|----------|-----|---|
| 1 ISSUED FOR INFORMATION | CJ | 22/02/2018 | DESIGNED | N/A | 217 KUPE STREET ORAKEI AUCKLAND, 1071 |
| 2 ADDITIONAL TOPO INFORMATION ADDED | CJ | 09/08/2018 | DRAWN | CJ | |
| 6 ADDITIONAL TOPO INFORMATION ADDED | CJ | 15/03/2019 | CHECKED | WC | |
| 7 ADDITIONAL TOPO INFORMATION ADDED | SK | 22/01/2020 | APPROVED | WC | |



EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
 LOTS 1 & 2 DP 92924
 TOPOGRAPHICAL SURVEY PLAN

| | | |
|---------|------------------------|-----|
| STATUS | ISSUED FOR INFORMATION | REV |
| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-065-SU | |

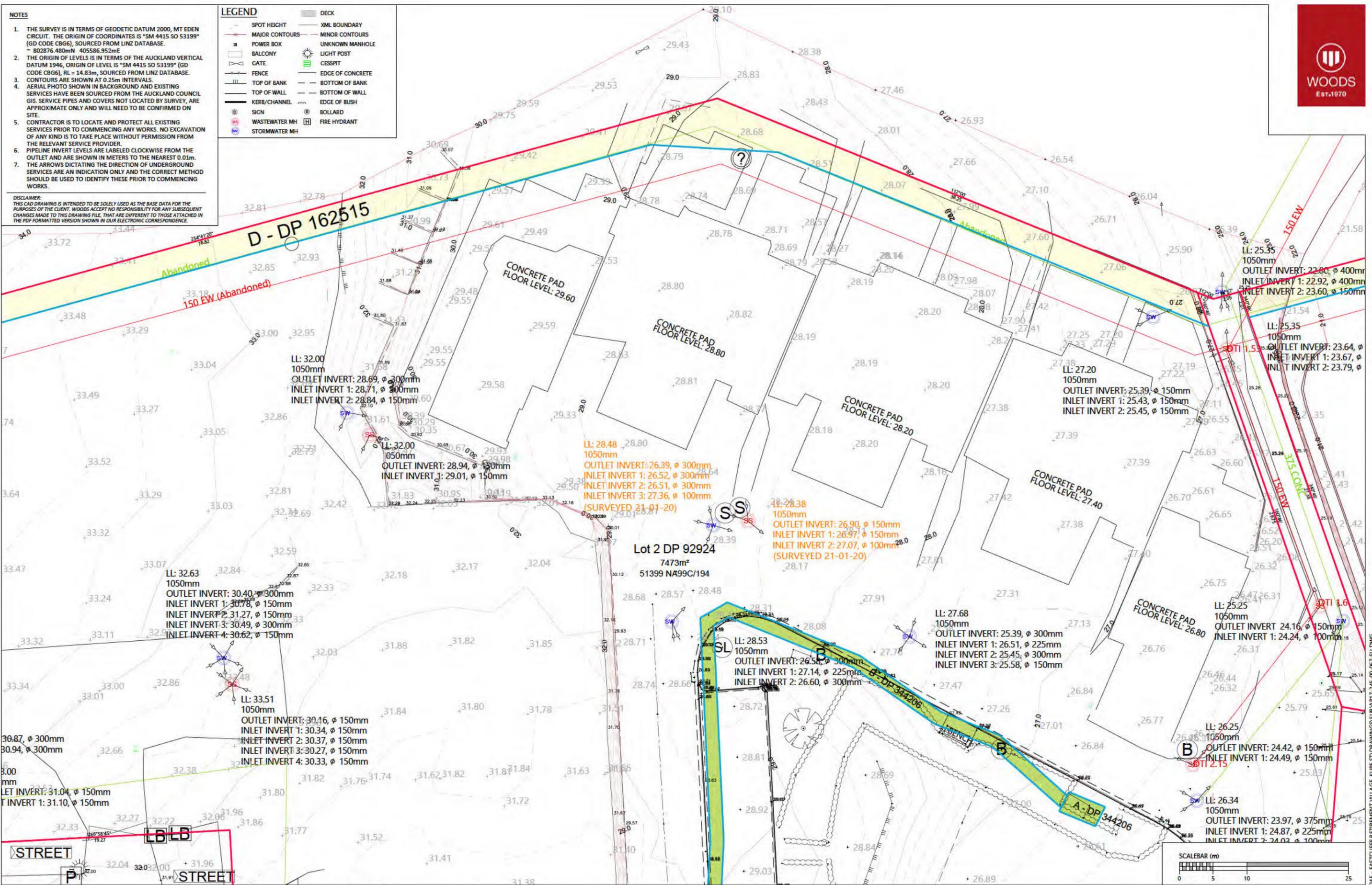


- NOTES**
1. THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBGG), SOURCED FROM LINZ DATABASE. ~ 802876.480mN 405586.952mE
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LEGEND

| | |
|----------------|------------------|
| SPOT HEIGHT | DECK |
| MAJOR CONTOURS | XML BOUNDARY |
| MINOR CONTOURS | MINOR CONTOURS |
| POWER BOX | UNKNOWN MANHOLE |
| BALCONY | LIGHT POST |
| GATE | CESSPIT |
| FENCE | EDGE OF CONCRETE |
| TOP OF BANK | BOTTOM OF BANK |
| TOP OF WALL | BOTTOM OF WALL |
| KERB/CHANNEL | EDGE OF BUSH |
| SIGN | BOLLARD |
| WASTEWATER MH | FIRE HYDRANT |
| STORMWATER MH | |

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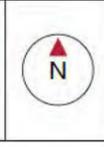


| REVISION DETAILS | INT | DATE | SURVEYED | CJ |
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| 1 ISSUED FOR INFORMATION | CJ | 22/02/2018 | DESIGNED | N/A |
| 2 ADDITIONAL TOPO INFORMATION ADDED | CJ | 09/08/2018 | DRAWN | CJ |
| 6 ADDITIONAL TOPO INFORMATION ADDED | CJ | 15/03/2019 | CHECKED | WC |
| 7 ADDITIONAL TOPO INFORMATION ADDED | SK | 22/01/2020 | APPROVED | WC |

217 KUPE STREET
ORAKEI
AUCKLAND, 1071

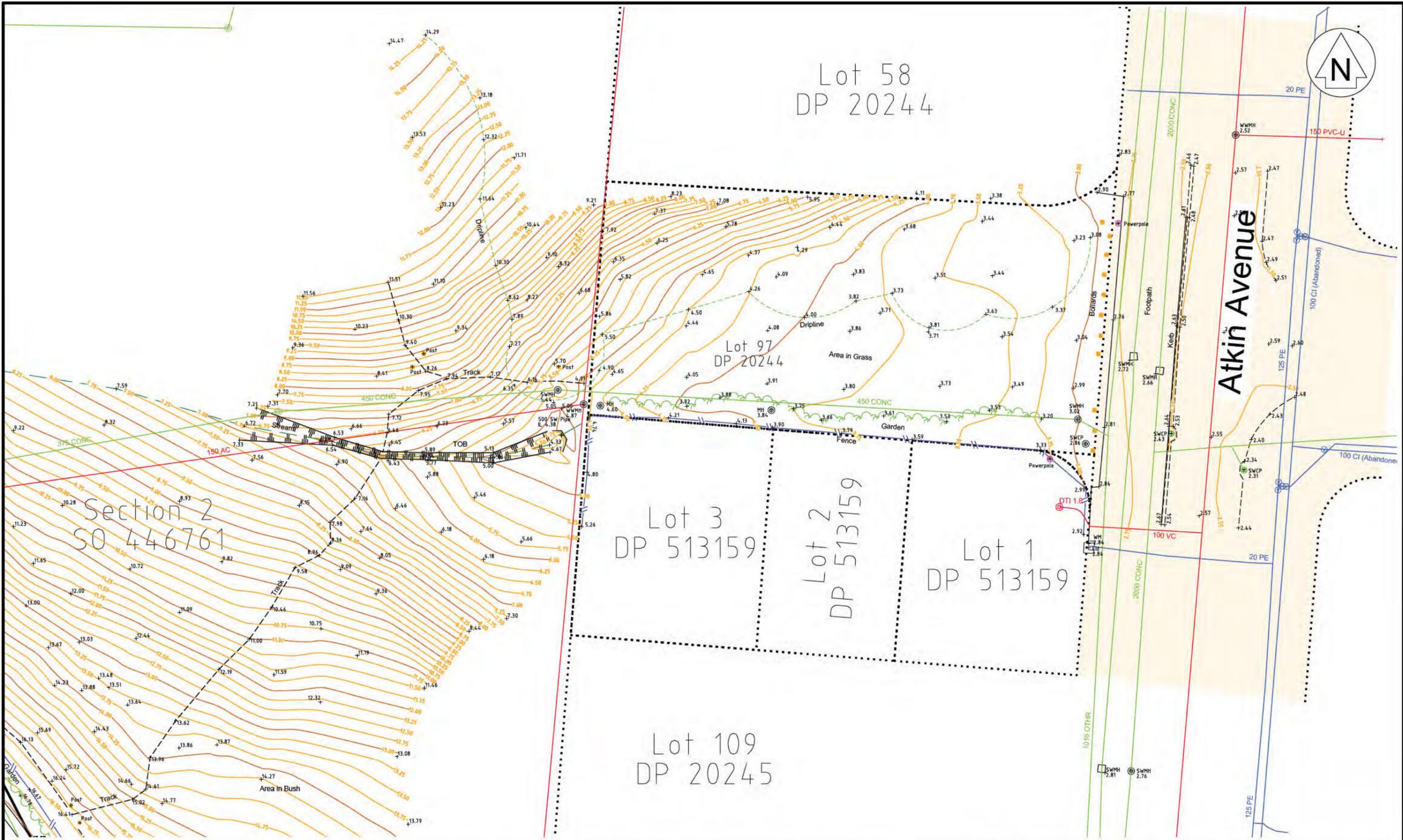


EASTCLIFFE RETIREMENT VILLAGE, ORAKEI
LOTS 1 & 2 DP 92924
TOPOGRAPHICAL SURVEY PLAN



| | | |
|---------|------------------------|-----|
| STATUS | ISSUED FOR INFORMATION | REV |
| SCALE | 1:250 @ A3 | 6 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | P17-245-00-057-SU | |

Appendix B – Topographical Survey Plan – Yeomans



NOTES:

- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
- 2) Bearing and Coordinate Datum: Geodetic 2000, Mt Eden Circuit Coordinates False Origin: 800000mN 400000mE
- 3) Spot Heights are shown thus: ± 44.20
- 4) Drainage information from Council Records
- 5) Abbreviations
 TOW-Top of Wall BOW-Bottom of Wall
 TOB-Top of Bank BOB-Bottom of Bank
 FFL-Finished Floor Level MH-Manhole
 WM-Water Meter

PLAN TITLE: SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE
212 KUPE ST. ORAKEI

Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
 Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP 92925

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Pdestrian Access RT:NA43B/903

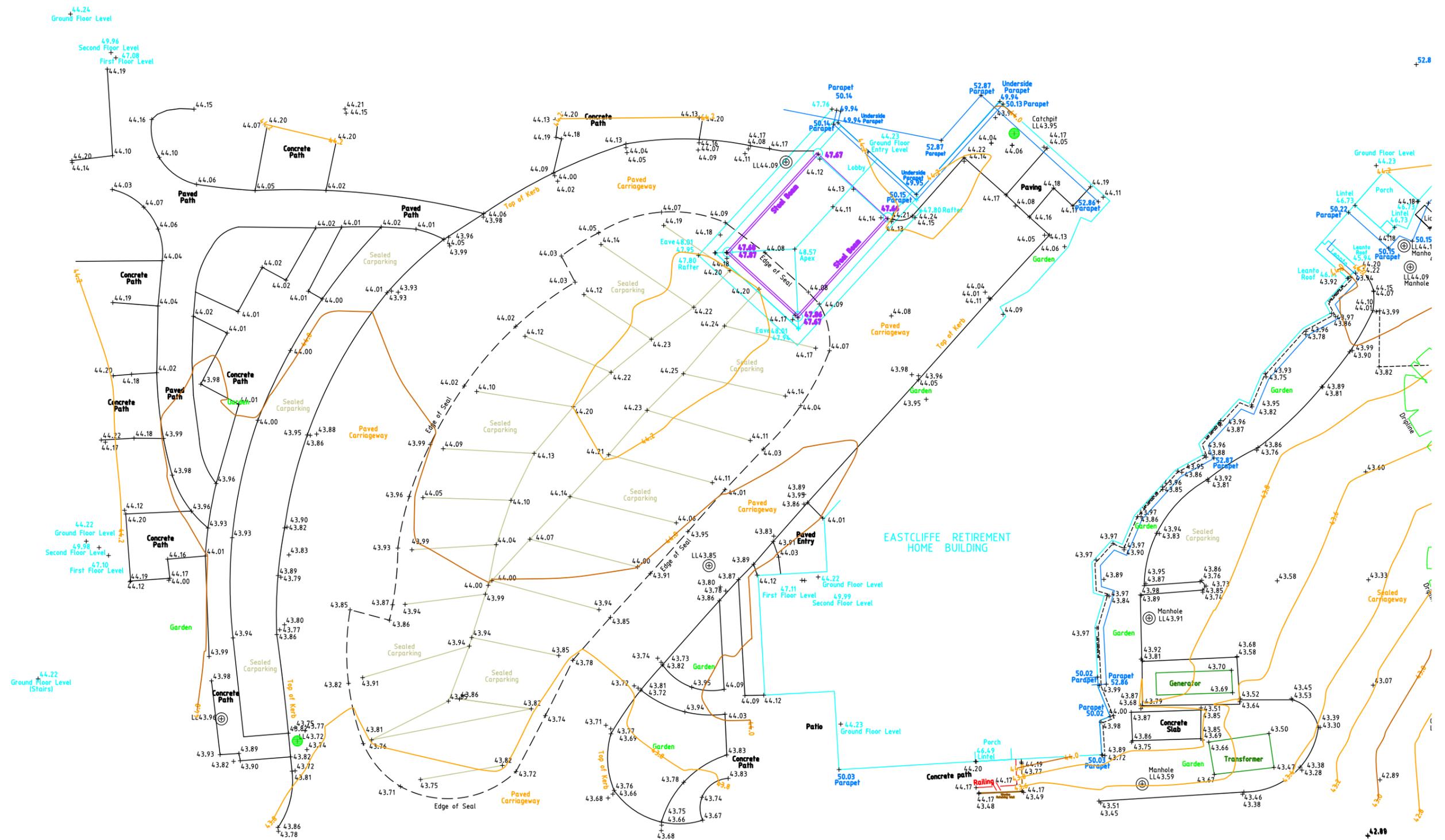
PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

| | |
|----------------------------|-----------------------|
| DATE July 2025 | SURVEYED BN |
| SCALE (A3) 1:300 | DRAWN BN |

YEOMANS
survey solutions

Yeomans Survey Solutions Limited
 Unit 1C Level 1 29 Karaka St Newton
 PO Box 7184 Auckland
 p:(09) 309 0880 f:(09) 369 9210
 e: info@yeomanssurvey.co.nz

| | | |
|------------------------|---------------------|----------------------------|
| FILE 8965/SS | Drawing 6 | Rev. of Drawings |
|------------------------|---------------------|----------------------------|



NOTES:

1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.

2) Bearing and Coordinate Datum: Geodetic 2000, Mt Eden Circuit Coordinates False Origin: 800000mN 400000mE

3) Spot Heights are shown thus: +44.20

PLAN TITLE: SITE SURVEY EASTCLIFFE RETIREMENT VILLAGE
212 KUPE ST, ORAKEI

Being: Eastcliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP 92925

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
Pdestrian Access RT:NA43B/903

PREPARED FOR

Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

DATE
February 2025

SCALE (A3)
1:200

SURVEYED

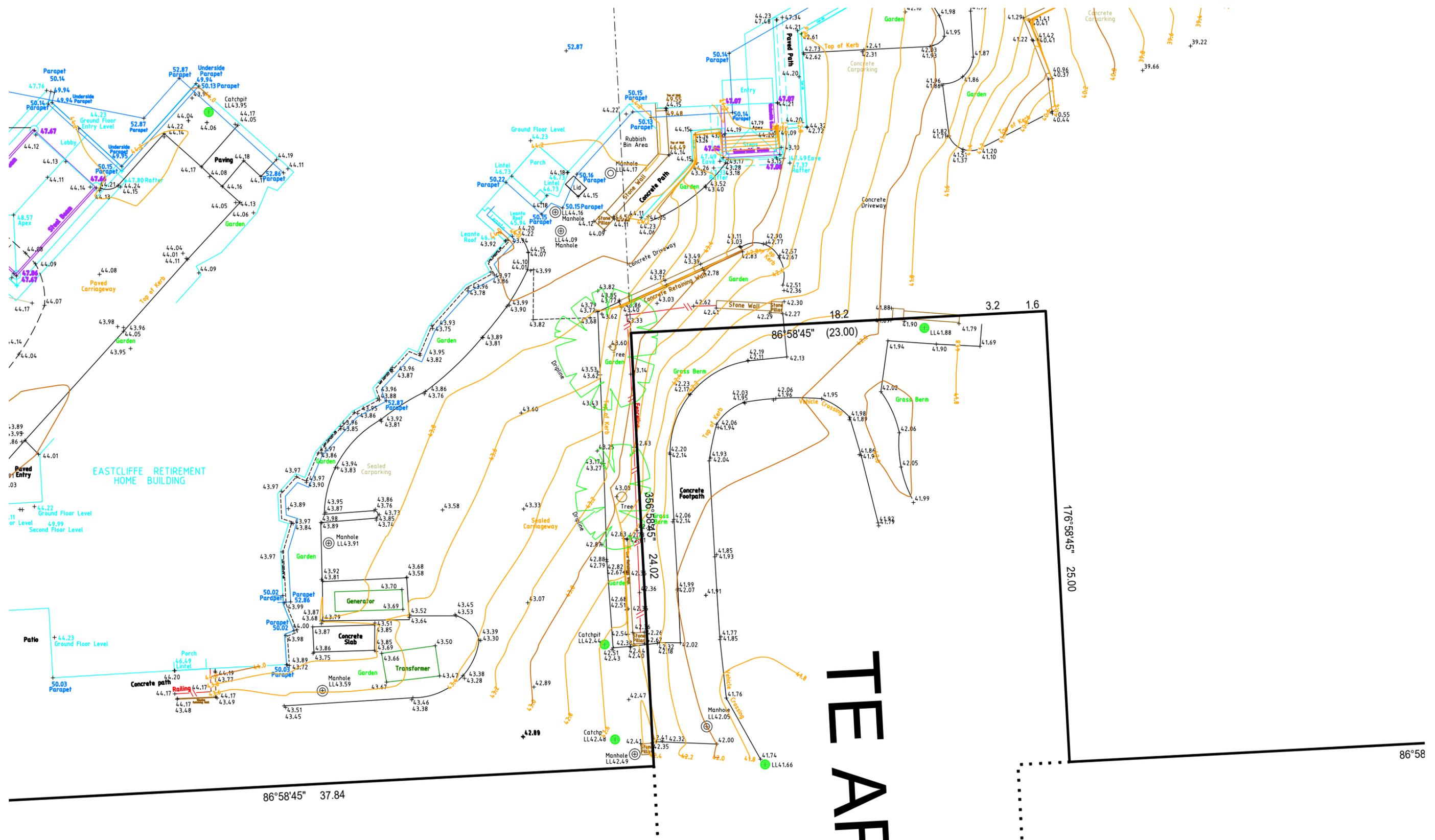
DRAWN
MvK



Yeomans Survey Solutions Limited p:(09) 309 0880 f:(09) 369 9210
Unit 1C Level 1 29 Karaka St Newton e: info@yeomansurvey.co.nz
PO Box 7184 Auckland

FILE
8965/P

Drawing
2
Rev.
of Drawings



NOTES:
 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
 2) Bearing and Coordinate Datum: Geodetic 2000, Mt Eden Circuit Coordinates False Origin: 800000mN 400000mE
 3) Spot Heights are shown thus: +44.20

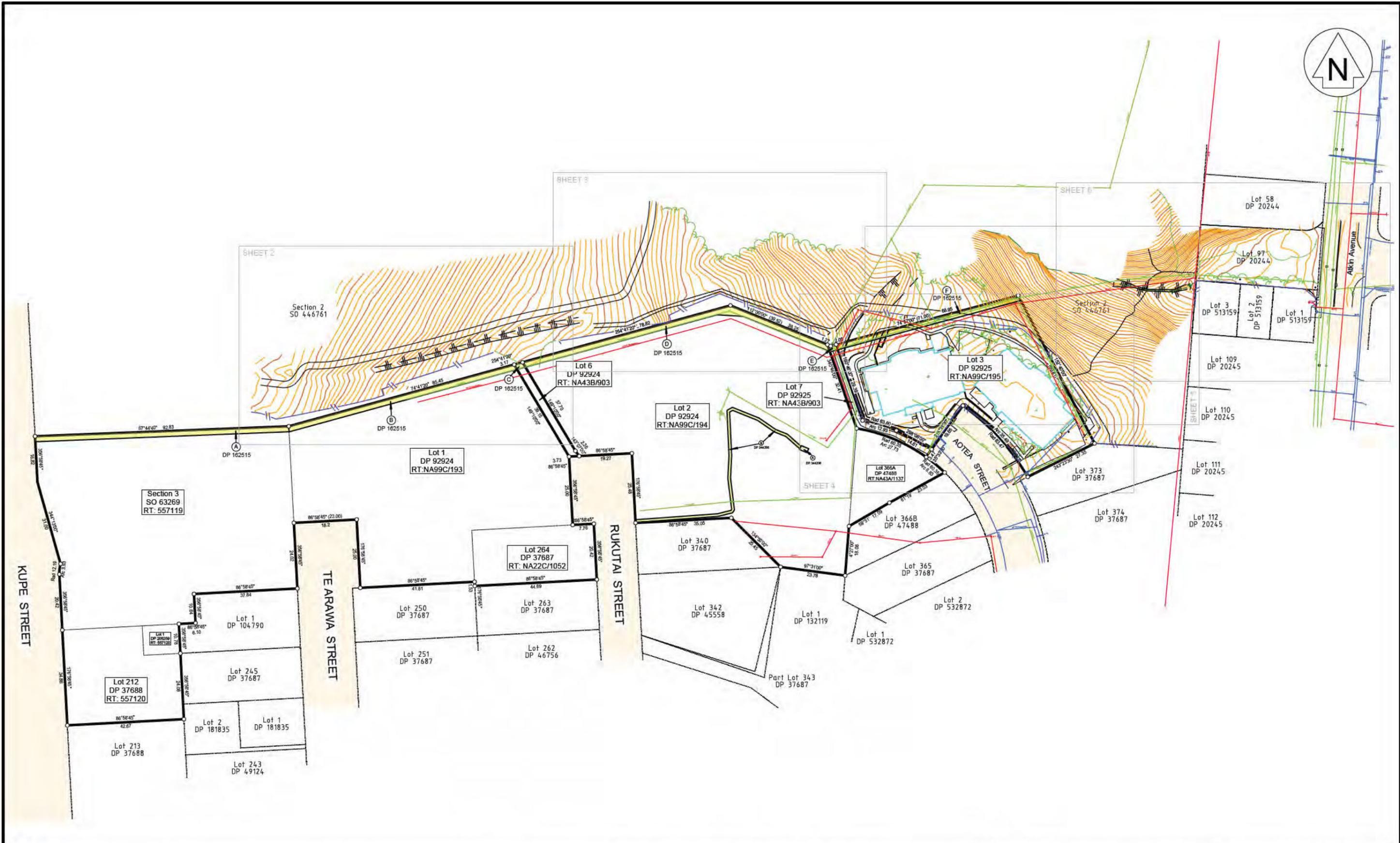
PLAN TITLE: SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE
212 KUPE ST, ORAKEI
 Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP92925
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Pdestrian Access RT:NA43B/903

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited
 DATE
 February 2025
 SCALE (A3)
 1:200
 SURVEYED
 DRAWN
 MvK

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Yeomans Survey Solutions Limited p:(09) 309 0880 f:(09) 369 9210
 Unit 1C Level 1 29 Karaka St Newton e: info@yeomanssurvey.co.nz
 PO Box 7184 Auckland

| | | |
|-----------------------|--------------|----------|
| FILE 8965/P | Drawing 3 | Rev. |
| | of | Drawings |



NOTES:

- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
- 2) Bearing and Coordinate Datum: Geodetic 2000, Mt Eden Circuit Coordinates False Origin: 800000mN 400000mE
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- 5) Abbreviations
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 TOB-Top of Bank BOB-Bottom of Bank
 FFL-Finished Floor Level MH-Manhole
 WM-Water Meter

PLAN TITLE: SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE
212 KUPE ST. ORAKEI

Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP92925

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Pdestrian Access RT:NA43B/903

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

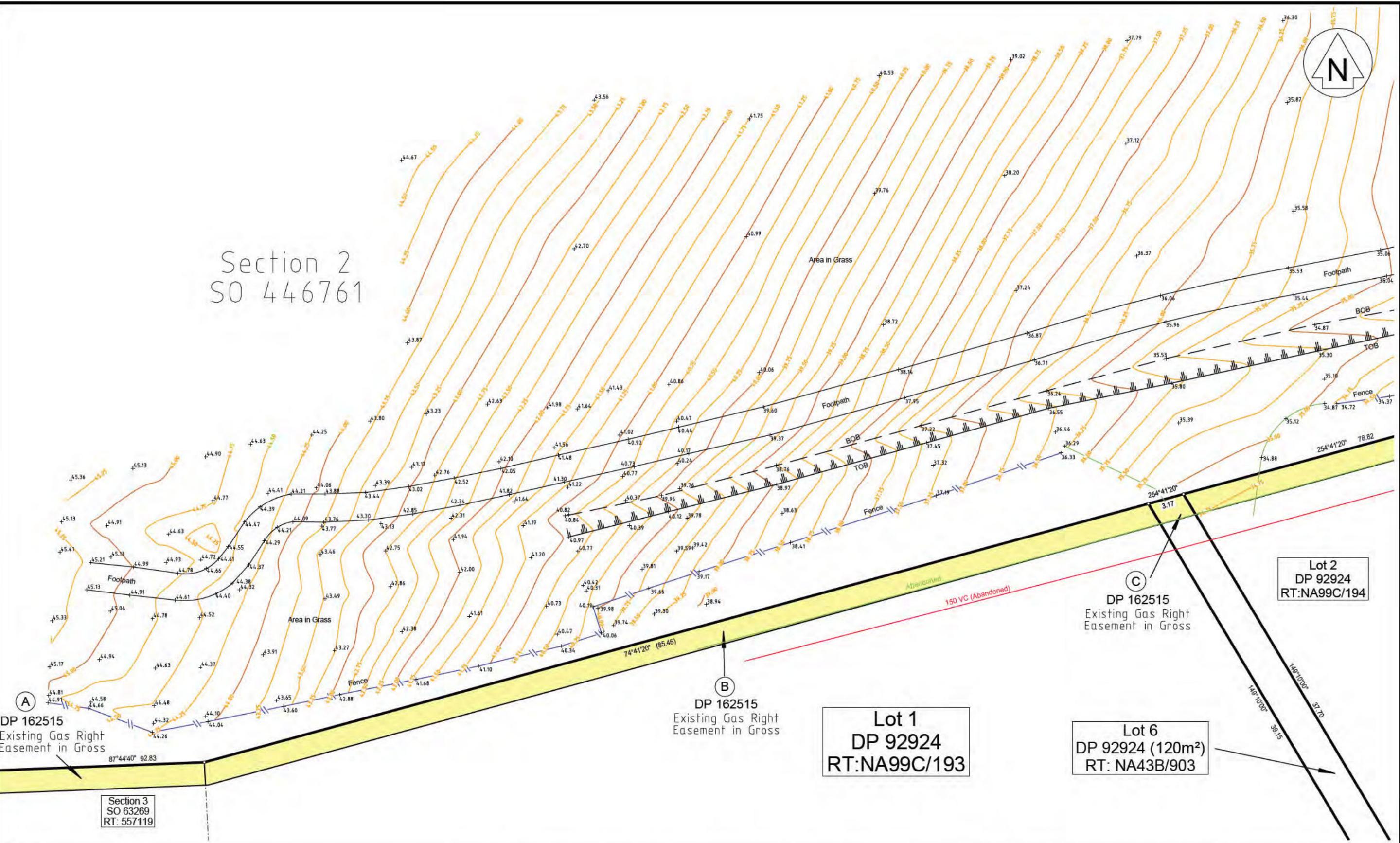
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| DATE July 2025 | SURVEYED BN |
| SCALE (A3) 1:1250 | DRAWN BN |



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 e: info@yeomanssurvey.co.nz

| | | |
|------------------------|--------------|------|
| FILE 8965/SS | Drawing 1 | Rev. |
| | of Drawings | |



NOTES:

- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
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PLAN TITLE: **SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE**
212 KUPE ST. ORAKEI

Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
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Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Pdestrian Access RT:NA43B/903

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

DATE
 July 2025

SCALE (A3)
 1:300

SURVEYED
 BN

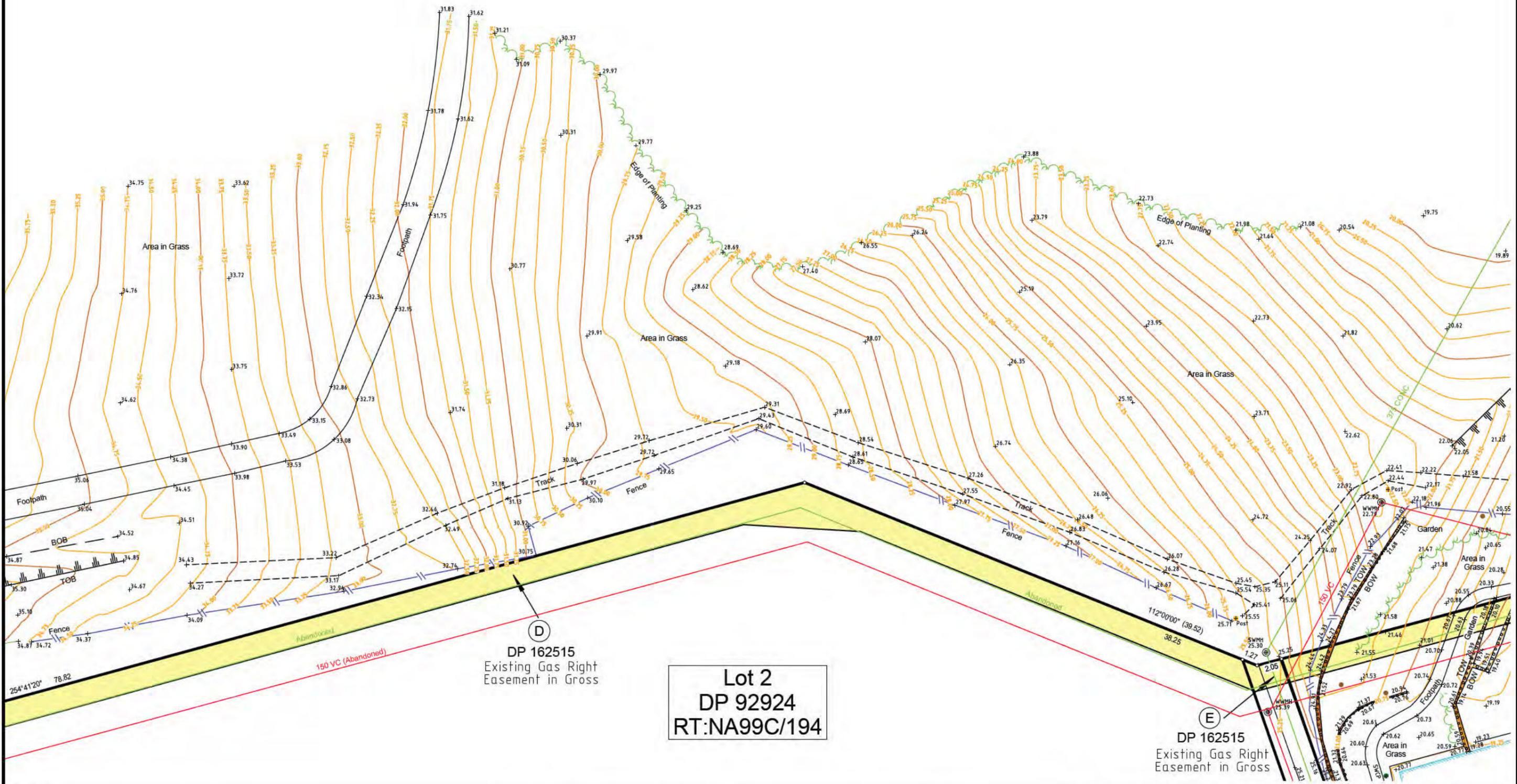
DRAWN
 BN

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 e: info@yeomansurvey.co.nz

| | | |
|-----------------|--------------|---------------------|
| FILE 8965/SS | Drawing 2 | Rev. of Drawings |
|-----------------|--------------|---------------------|



Lot 2
DP 92924
RT:NA99C/194

NOTES:

- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
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212 KUPE ST. ORAKEI

Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP92925

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
Pdestrian Access RT:NA43B/903

PREPARED FOR
Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

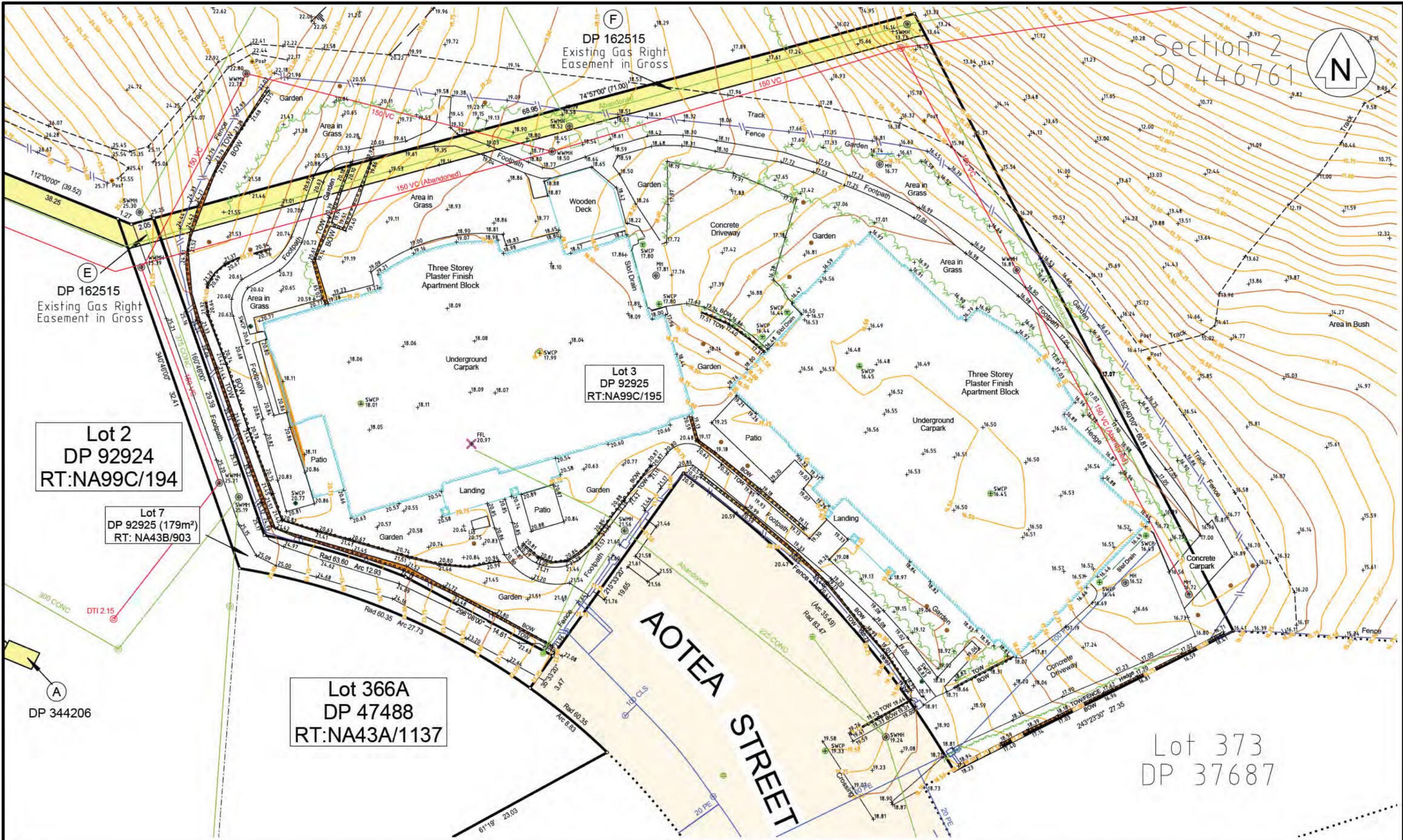
| | |
|----------------------------|-----------------------|
| DATE July 2025 | SURVEYED BN |
| SCALE (A3) 1:300 | DRAWN BN |

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PO Box 7184 Auckland

p:(06) 309 0880 f:(06) 369 9210
e: info@yeomanssurvey.co.nz

| | | |
|------------------------|---------------------|----------------------------|
| FILE 8965/SS | Drawing 3 | Rev. of Drawings |
|------------------------|---------------------|----------------------------|



- NOTES:
- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
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 Pdestrian Access RT:NA43B/903

PREPARED FOR
Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

DATE
 July 2025

SCALE (A3)
 1:300

SURVEYED
 BN

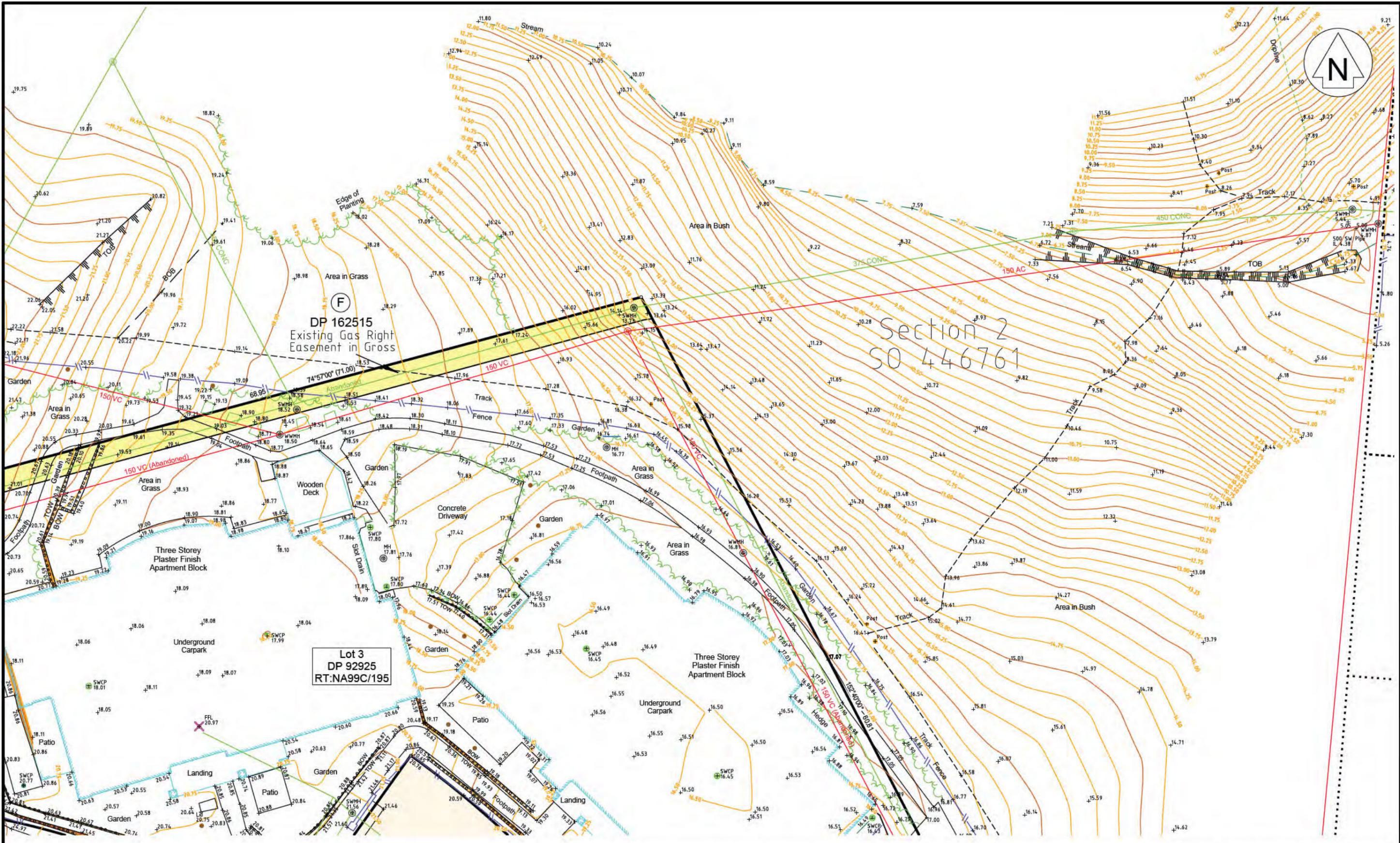
DRAWN
 BN

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 Unit 1C Level 1 29 Karaka St Newton
 PO Box 7184 Auckland

p:(06) 309 0880 f:(06) 369 9210
 e: info@yeomanssurvey.co.nz

| | | |
|---------|---------|----------|
| FILE | Drawing | Rev. |
| 8965/SS | 4 | |
| | of | Drawings |



NOTES:

- 1) Origin of Levels is SM 4415 SO 53199 with a Reduced Level of 14.83meters Auckland Vertical Datum 1946.
- 2) Bearing and Coordinate Datum: Geodetic 2000, Mt Eden Circuit Coordinates False Origin: 800000mN 400000mE
- 3) Spot Heights are shown thus: ± 44.20
- 4) Drainage information from Council Records
- 5) Abbreviations
 TOW-Top of Wall BOW-Bottom of Wall
 TOB-Top of Bank BOB-Bottom of Bank
 FFL-Finished Floor Level MH-Manhole
 WM-Water Meter

PLAN TITLE: SITE SURVEY EASTCLIFFE RETIREMENT VILLAGE
212 KUPE ST. ORAKEI

Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
 Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Pedestrian Access: Lot 6 DP 92924 & Lot 7 DP92925

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Pdestrian Access RT:NA43B/903

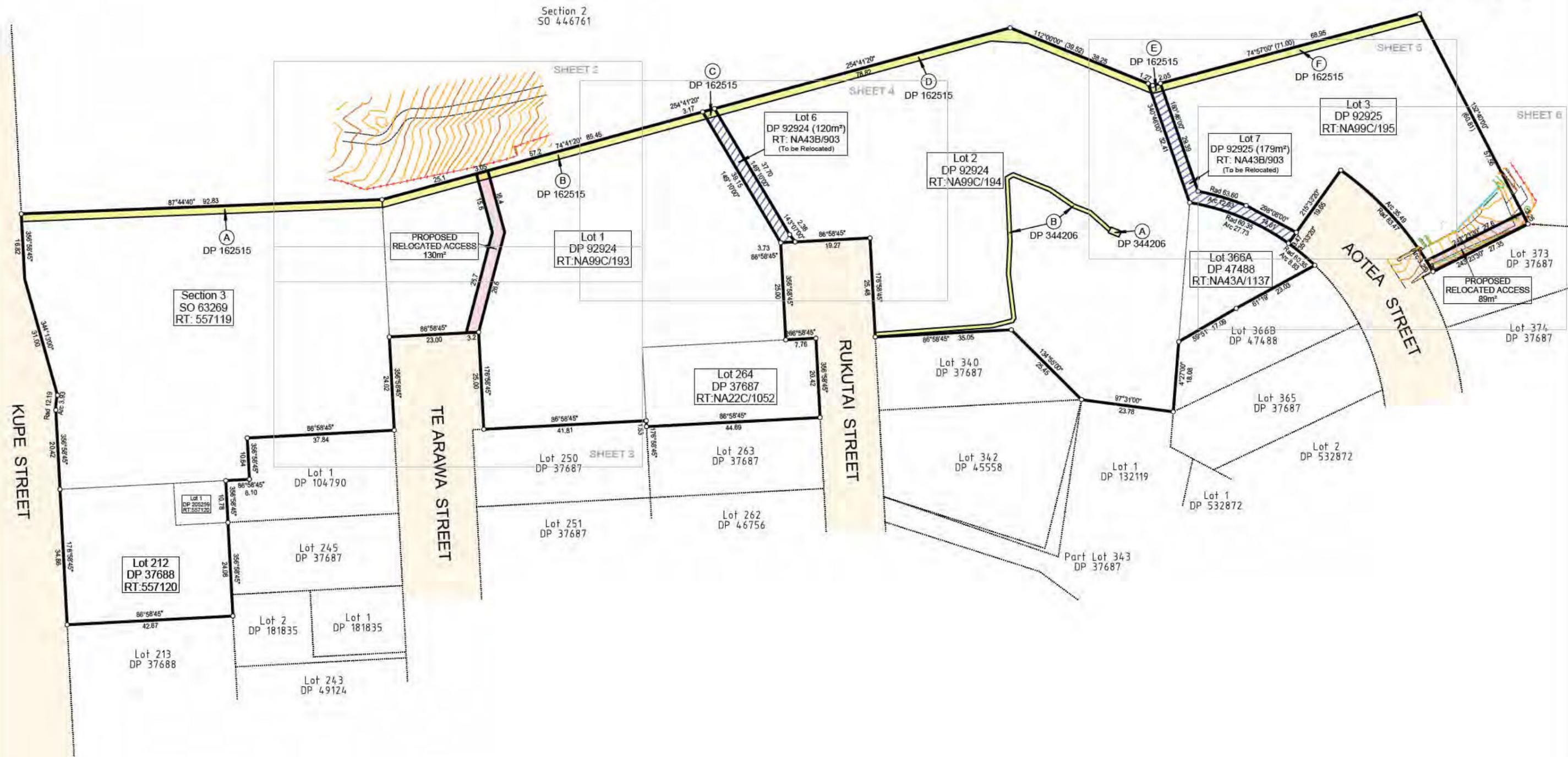
PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

| | |
|----------------------------|-----------------------|
| DATE July 2025 | SURVEYED BN |
| SCALE (A3) 1:300 | DRAWN BN |

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 Unit 1C Level 1 29 Karaka St Newton
 PO Box 7184 Auckland

p:(09) 309 0880 f:(09) 369 9210
 e: info@yeomanssurvey.co.nz

| | | |
|------------------------|---------------------|----------------------------|
| FILE 8965/SS | Drawing 5 | Rev. of Drawings |
|------------------------|---------------------|----------------------------|



NOTES:

- 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.
- 2) Spot Heights are shown thus: \pm 23.58
- 3) All abuttal property appellation info. is from Grip Cadastral Information.
- 4) Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).
- 5) Refer accompanied DWG version of this drawing for more detail.

PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
 Being: Eastcliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Reserve Access: Lot 6 DP 92924 & Lot 7 DP 92925
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Reserve Access RT: NA43B/903

PREPARED FOR
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 Ngati Whatua Orakei Trust Limited

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|------------------------------|---------------------|
| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:1000 | DRAWN MvK |

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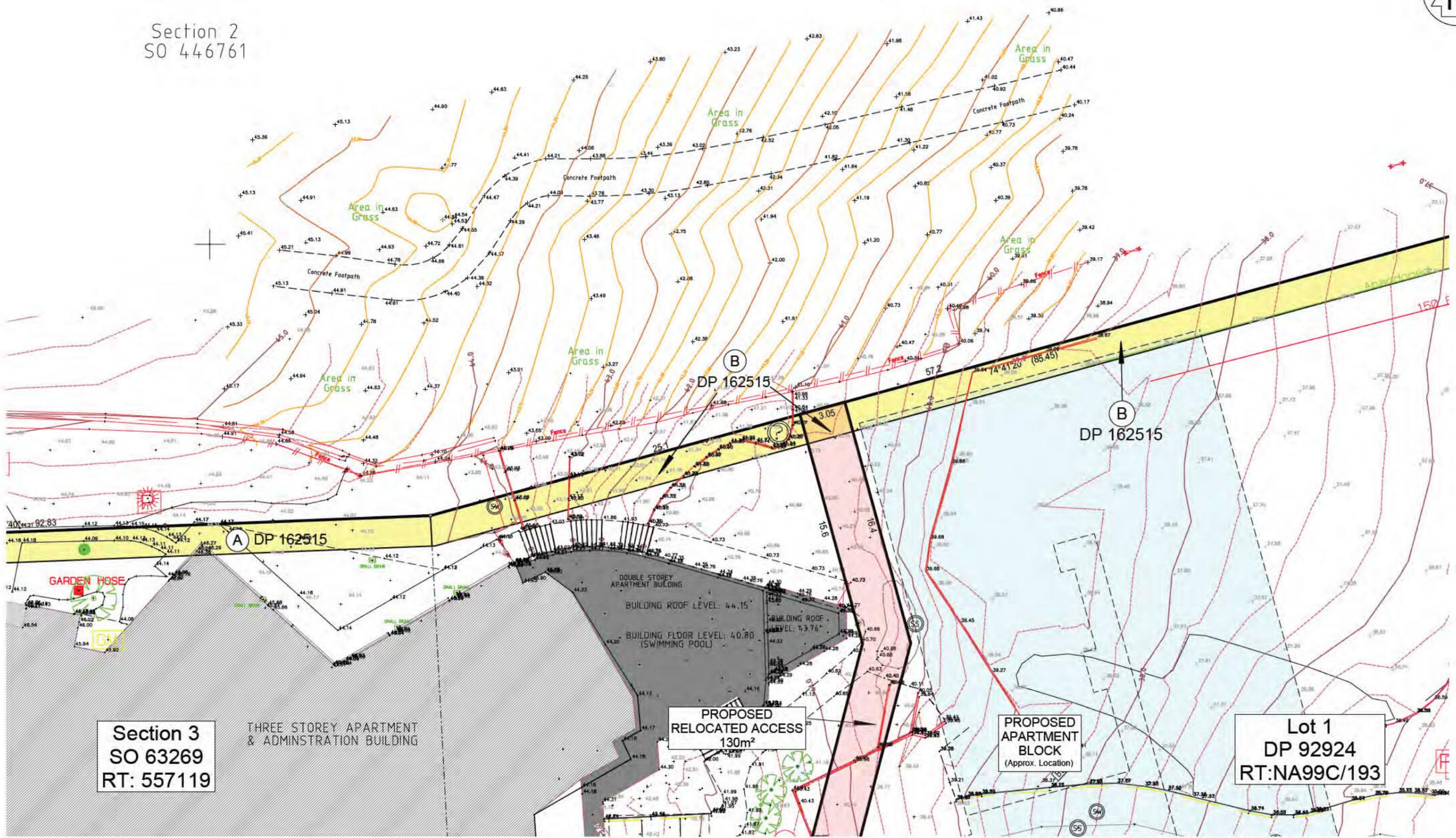
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Unit 1C Level 1 29 Karaka St Newton
PO Box 7184 Auckland

p:(06) 309 0880 f:(06) 369 9210
e: info@yeomanssurvey.co.nz

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| FILE 8965/S | Drawing 1 | Rev. |
| | | of 6 Drawings |



Section 2
SO 446761



Section 3
SO 63269
RT: 557119

THREE STOREY APARTMENT
& ADMINISTRATION BUILDING

PROPOSED
RELOCATED ACCESS
130m²

PROPOSED
APARTMENT
BLOCK
(Approx. Location)

Lot 1
DP 92924
RT:NA99C/193

- NOTES:
- 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.
 - 2) Spot Heights are shown thus: +^{23.58}
 - 3) All abuttal property appellation info. is from Grip Cadastral Information.
 - 4) Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).
 - 5) Refer accompanied DWG version of this drawing for more detail.

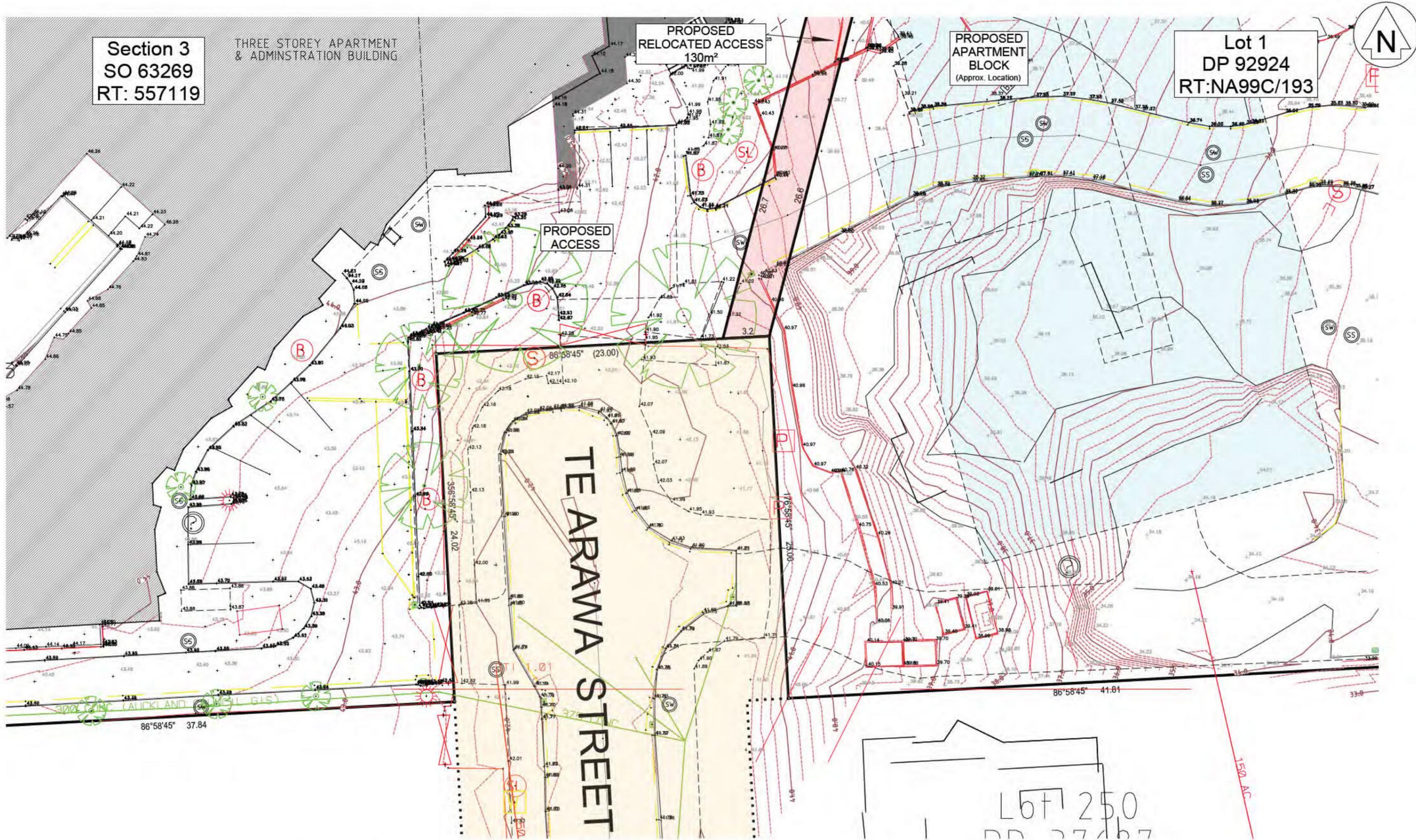
PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
 Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Reserve Access: Lot 6 DP 92924 & Lot 7 DP 92925
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Reserve Access RT:NA43B/903

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Ngati Whatua Orakei Trust Limited

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| DATE November 2024 | SURVEYED |
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p:(09) 309 0880 f:(09) 369 9210
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| FILE 8965/S | Drawing 2 of 6 Drawings | Rev. |
|----------------|-------------------------------|------|



NOTES:

1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

2) Spot Heights are shown thus: ± 23.58

3) All abuttal property appellation info. is from Grip Cadastral Information.

4) Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).

5) Refer accompanied DWG version of this drawing for more detail.

PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
 Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
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 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Reserve Access RT: NA43B/903

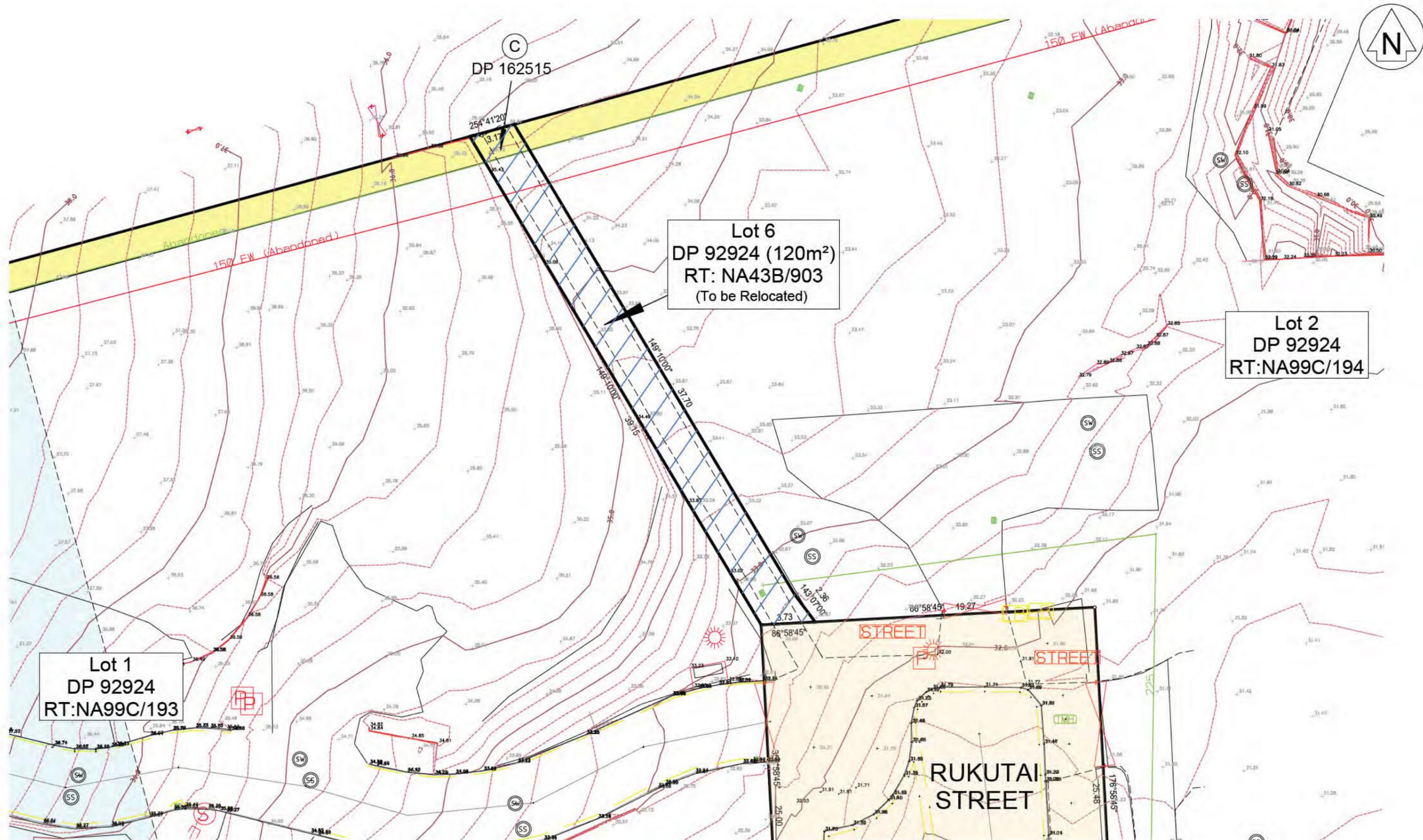
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 Ngati Whatua Orakei Trust Limited

| | |
|------------------------------|---------------------|
| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:250 | DRAWN MvK |

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 PO Box 7184 Auckland
 p:(09) 309 0880 f:(09) 369 9210
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| FILE 8965/S | Drawing 3 | Rev. |
| | of 6 Drawings | |



NOTES:
 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

3) All abuttal property appellation info. is from Grip Cadastral Information.
 4) Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).

2) Spot Heights are shown thus: + 23.58

5) Refer accompanied DWG version of this drawing for more detail.

PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
 Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Reserve Access: Lot 6 DP 92924 & Lot 7 DP 92925
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Reserve Access RT: NA43B/903

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 Ngati Whatua Orakei Trust Limited

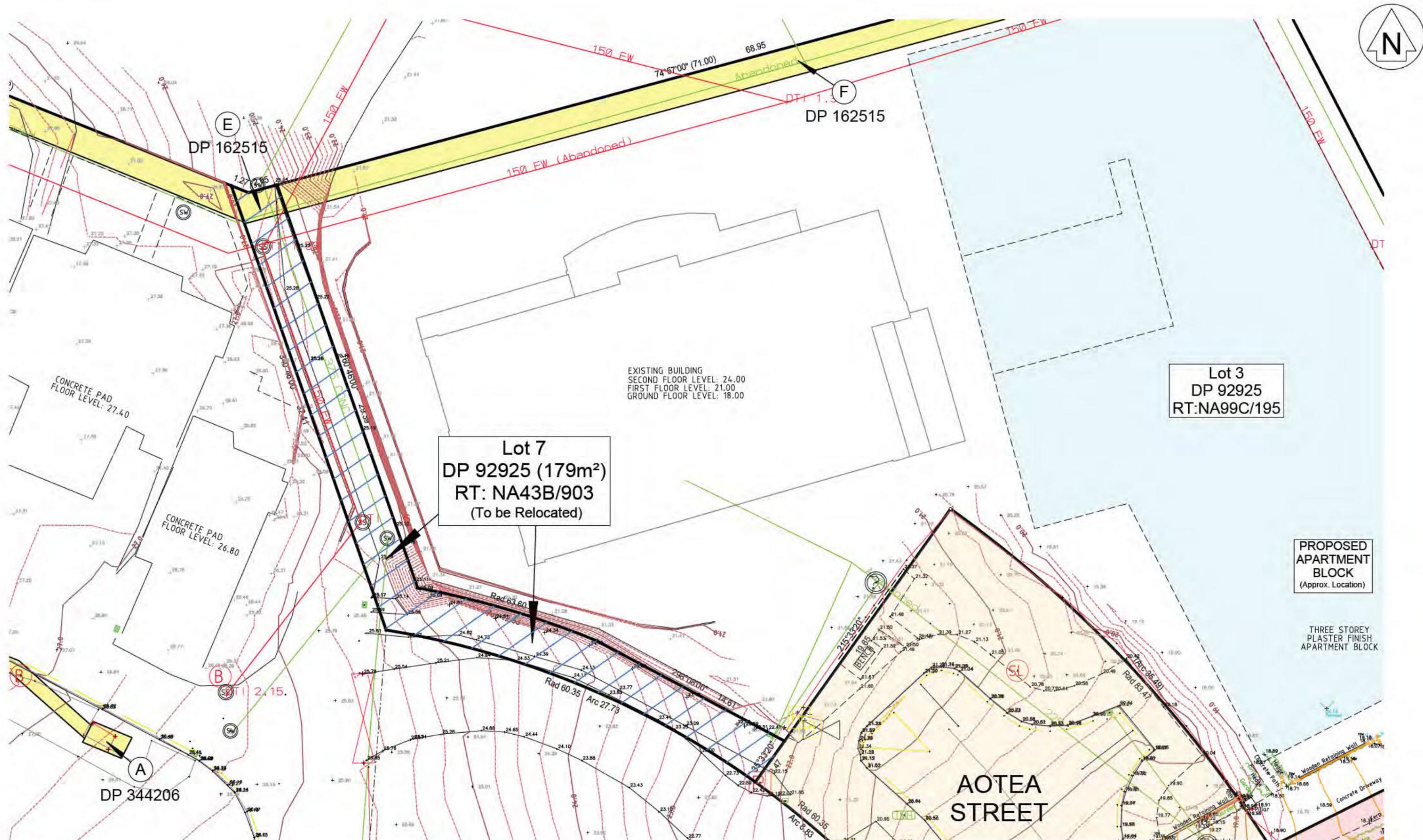
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| DATE November 2024 | SURVEYED |
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 Unit 1C Level 1 29 Karaka St Newton
 PO Box 7184 Auckland

p:(09) 309 0880 f:(09) 369 9210
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| FILE 8965/S | Drawing 4 | Rev. of 6 Drawings |
|----------------|--------------|-----------------------|



NOTES:
 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

3) All abuttal property appellation info. is from Grip Cadastral Information.
 4) Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).

2) Spot Heights are shown thus: + 23.58

5) Refer accompanied DWG version of this drawing for more detail.

PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
 Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Reserve Access: Lot 6 DP 92924 & Lot 7 DP 92925
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
 Reserve Access RT: NA43B/903

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

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|-----------------------|--------------|
| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:250 | DRAWN MvK |

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 Unit 1C Level 1 29 Karaka St Newton
 PO Box 7184 Auckland
 p:(09) 309 0880 f:(09) 369 9210
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|----------------|-------------------------------|------|
| FILE 8965/S | Drawing 5 of 6 Drawings | Rev. |
|----------------|-------------------------------|------|



EXISTING BUILDING
SECOND FLOOR LEVEL: 24.00
FIRST FLOOR LEVEL: 21.00
GROUND FLOOR LEVEL: 18.00

Lot 7
DP 92925 (179m²)
RT: NA43B/903
(To be Relocated)

Lot 3
DP 92925
RT:NA99C/195

Section 2
SO 446761

PROPOSED APARTMENT BLOCK
(Approx. Location)

THREE STOREY PLASTER FINISH APARTMENT BLOCK

Lot 366A
DP 47488
RT:NA43A/1137

PROPOSED RELOCATED ACCESS
89m²

Lot 373
DP 37687

AOTEA STREET

Lot 374
DP 37687

NOTES:
1)Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.
2)Spot Heights are shown thus: +^{23.58}
3)All abuttal property appellation info. is from Grip Cadastral Information.
4)Topographical information shown is from Survey Company Woods dated 22/02/2018 revision 6 (15/03/2019).
5)Refer accompanied DWG version of this drawing for more detail.

PLAN TITLE: PROPOSED RE-ALIGNMENT OF RESERVE ACCESS & SITE SURVEY, EASTCLIFFE RETIREMENT VILLAGE, KUPE ST TE ARAWA ST & AOTEA ST, ORAKEI
Being: Eascliffe Retirement Village: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
Reserve Access: Lot 6 DP 92924 & Lot 7 DP92925
Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120
Reserve Access RT:NA43B/903

PREPARED FOR
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Ngati Whatua Orakei Trust Limited
DATE
November 2024
SCALE (A3)
1:250
SURVEYED
DRAWN
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p:(09) 309 0880 f:(09) 369 9210
e: info@yeomansurvey.co.nz

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| FILE | Drawing | Rev. |
| 8965/S | 6 | |
| | of 6 Drawings | |



NOTES:

1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

2) Spot Heights are shown thus: ± 23.58

3) All abuttal property appellation info. is from Grip Cadastral Information.

4) Aerial photo obtained from Google Earth, for information purposes only.

PLAN TITLE:

**SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE,
KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**

Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR

Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

DATE
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1:1250

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| FILE 8965/S | Drawing 1 | Rev. |
| | of Drawings | |



NOTES:
 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

2) Spot Heights are shown thus: + 23.58

3) All abuttal property appellation info. is from Grip Cadastral Information.
 4) Aerial photo obtained from Google Earth, for information purposes only.

PLAN TITLE:
**SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE,
 KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**
 Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

| | |
|-----------------------|--------------|
| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:600 | DRAWN MvK |

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 Unit 1C Level 1 29 Karaka St Newton
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 p:(09) 309 0880 f:(09) 369 9210
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| FILE 8965/S | Drawing 2 of Drawings | Rev. |
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Section SO 4467



NOTES:
 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

2) Spot Heights are shown thus: + 23.58

3) All abuttal property appellation info. is from Grip Cadastral Information.
 4) Aerial photo obtained from Google Earth, for information purposes only.

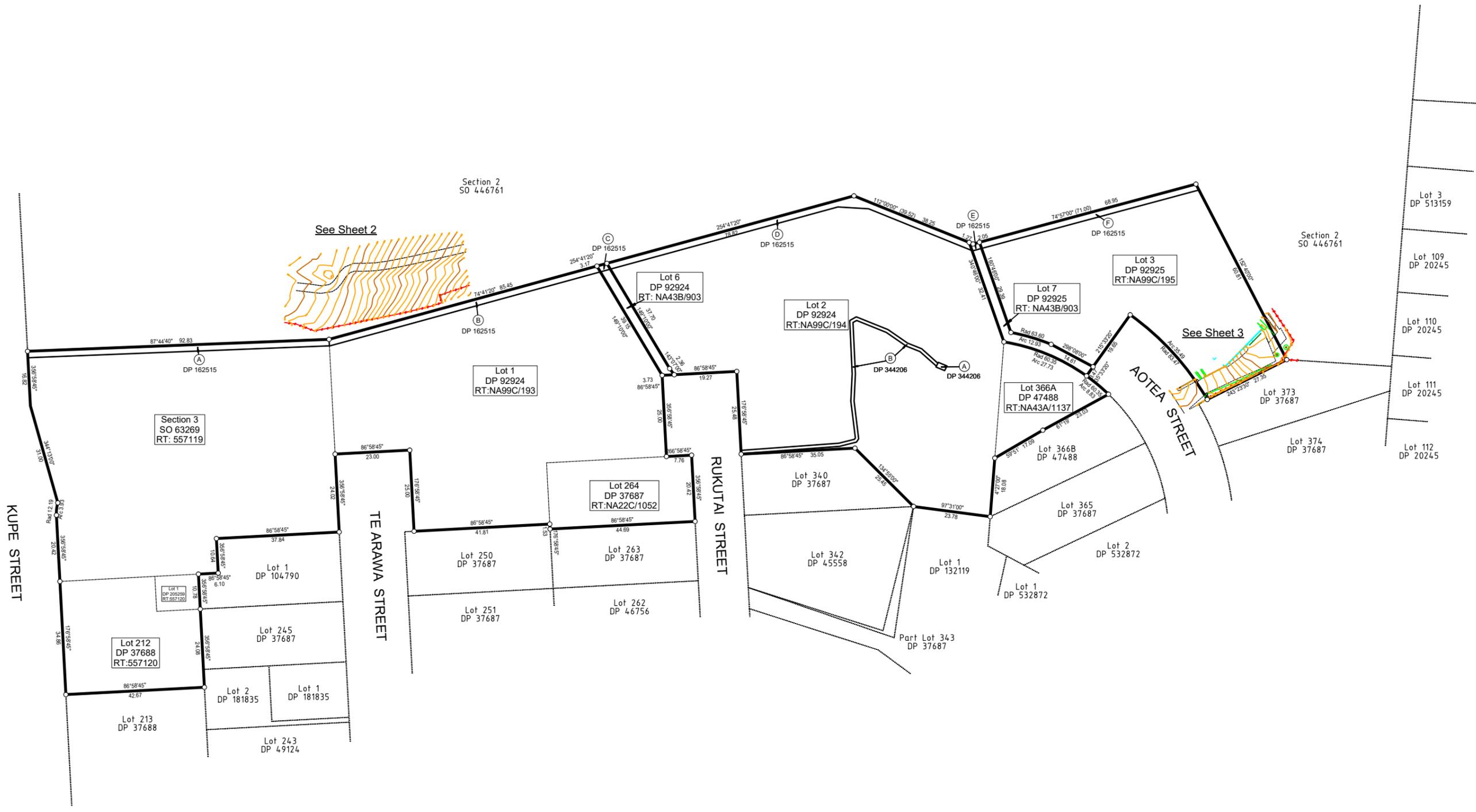
PLAN TITLE:
**SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE,
 KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**
 Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
 Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Comprised in RT's's: NA22C/1052, NA43A/1137, NA99C/193,
 NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

| | |
|-----------------------|--------------|
| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:600 | DRAWN MvK |

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 Unit 1C Level 1 29 Karaka St Newton
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| FILE 8965/S | Drawing 3 | Rev. |
| | of | Drawings |



NOTES:
 1) Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.
 2) Spot Heights are shown thus: + 23.58
 3) All abuttal property appellation info. is from Grip Cadastral Information.

PLAN TITLE:
**SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE,
 KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**
 Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
 Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
 Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193,
 NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR
 Eastcliffe Orakei Retirement Care LP
 Ngati Whatua Orakei Trust Limited

DATE
 November 2024

SCALE (A3)
1:1250

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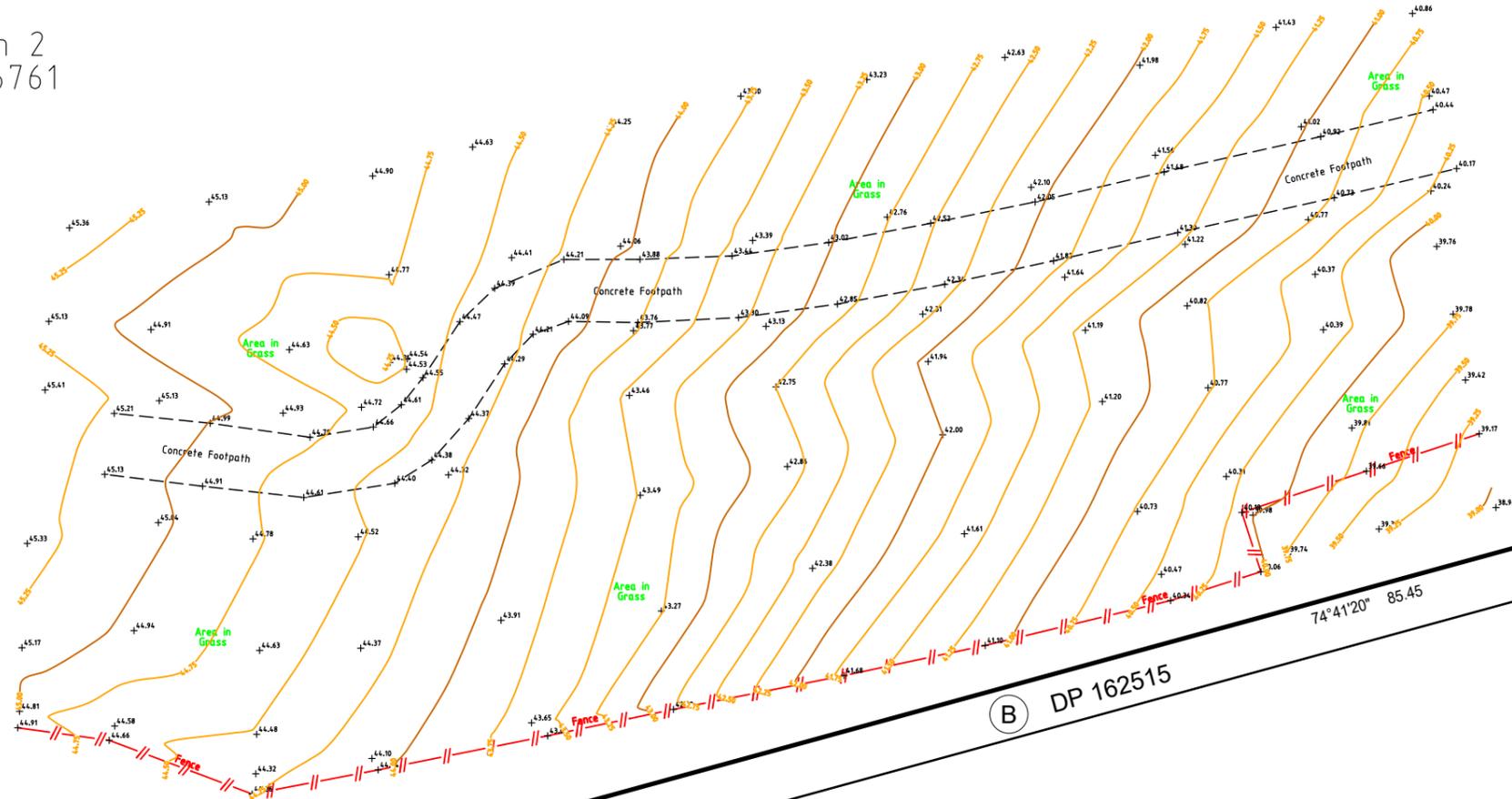
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|-----------------------|--------------|----------|
| FILE 8965/S | Drawing 1 | Rev. |
| | of | Drawings |

Section 2
SO 446761



87°44'40" 92.83

(A) DP 162515

(B) DP 162515

74°41'20" 85.45

Section 3
SO 63269
RT: 557119

Lot 1
DP 92924
RT:NA99C/193

NOTES:

1)Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

2)Spot Heights are shown thus: + 23.58

3)All abuttal property appellation info. is from Grip Cadastral Information.

PLAN TITLE:

**SITE SURVEY EASTCLIFFE RETIRMENT VILLAGE,
KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**

Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488,
Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269

Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193,
NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR

Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

DATE
November 2024

SURVEYED

SCALE (A3)
1:250

DRAWN
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| FILE 8965/S | Drawing 2 | Rev. |
| | of Drawings | |

Lot 3
DP 92925
RT:NA99C/195

Section 2
SO 446761

THREE STOREY
PLASTER FINISH
APARTMENT BLOCK

AOTEA
STREET

Lot 373
DP 37687

NOTES:
1)Origin of Levels is Survey Standard SM 4415 SO 53199 with a Reduced Level of 14.83 metres above mean sea level, Land Information New Zealand, Auckland Vertical Datum 1946.

3)All abuttal property appellation info. is from Grip Cadastral Information.

2)Spot Heights are shown thus: + 23.58

PLAN TITLE:
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KUPE ST, TE ARAWA ST & AOTEA ST, ORAKEI**
Being: Lot 264 DP 37687, Lot 212 DP 37688, Lot 366A DP 47488, Lots 1 & 2 DP 92924, Lot 3 DP 92925 and Section 3 SO 63269
Comprised in RT's: NA22C/1052, NA43A/1137, NA99C/193, NA99C/194, NA99C/195, 557119 & 557120

PREPARED FOR
Eastcliffe Orakei Retirement Care LP
Ngati Whatua Orakei Trust Limited

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| DATE November 2024 | SURVEYED |
| SCALE (A3) 1:200 | DRAWN MvK |



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Unit 1C Level 1 29 Karaka St Newton e: info@yeomanssurvey.co.nz
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| FILE 8965/S | Drawing 3 of Drawings | Rev. |
|----------------|-----------------------------|------|

Appendix C – Calculations and Catchment Plans



| | | | |
|-----------------|-------------------------------|------------------|----|
| Client: | Generus Living | Page No: | |
| Project: | Eastcliffe Retirement Village | | 1 |
| Job No: | 22064 | Designed: | DH |
| Date: | 28-Aug-25 | Checked: | |

Network 1 Revised

| | | |
|---|--------|---------|
| 10 Year Daily rainfall Depth from TP108 | 125.0 | mm |
| 10 Year Daily Rainfall Depth + 17.0% Climate Change | 146.25 | mm |
| 10% AEP Rainfall Intensity | = | 101.498 |
| Permeable Runoff Coefficient | = | 0.3 |
| Impervious Runoff Coefficient | = | 0.9 |

Existing Network 1

| Pipe ID | Pipe Size (mm) | US IL (m) | DS IL (m) | Length (m) | Grad | Capacity (l/s) | Catchment | Permeable Area (m2) | Impervious Area (m2) | Catchment Area (m2) | Peak Flow (ls) | Cumulative Catchment m2 | Cumulative Flows | Stress (%) |
|-------------------------------|----------------|-----------|-----------|------------|-------|----------------|---|---------------------|----------------------|---------------------|----------------|-------------------------|------------------|------------|
| | | | | | | | Impervious | | 13958 | 13958 | 354.2 | | | |
| | | | | | | | Pervious | 4652.5 | 0 | 4653 | 39.4 | | | |
| 1A | | | | | | | Subtract Detention Mitigation Refer HEC HMS Cals | | | 18610 | -32.0 | 18,610 | 361.5 | |
| PR 1/7 to EX 1/6 | 375 | 22.80 | 16.45 | 38.0 | 16.7% | 725 | | | | | | | 361.5 | 49.9% |
| Ex 1/6to EX 1/5 | 450 | 16.45 | 15.71 | 23.0 | 3.2% | 514 | | | | | | | 361.5 | 70.3% |
| Ex 1/5 to 1/4 | 450 | 15.71 | 14.58 | 66.0 | 1.7% | 374 | | | | | | | 361.5 | 96.7% |
| Ex 1/4 to 1/3 | 450 | 14.58 | 13.78 | 50.0 | 1.6% | 363 | | | | | | | 361.5 | 99.6% |
| Ex 1/3 to 1/2 | 450 | 13.78 | 3.40 | 60.0 | 17.3% | 1196 | | | | | | | 361.5 | 30.2% |
| Ex 1/2 to 1/1 (EX SW Channel) | 450 | 3.40 | 2.43 | 11.0 | 8.8% | 853 | | | | | | | 361.5 | 42.4% |



| | | | |
|-----------------|-------------------------------|------------------|-----|
| Client: | Generus Living | Page No: | |
| Project: | Eastcliffe Retirement Village | | 1 |
| Job No: | 22064 | Designed: | DAH |
| Date: | 8-Aug-25 | Checked: | |

Network 2

10 Year Daily rainfall Depth from TP108 = 125.0 mm
 10 Year Daily Rainfall Depth + 17.0% Climate Change = 146.25 mm
 10% AEP Rainfall Intensity = 101.5 mm/hr
 Permeable Runoff Coefficient = 0.3
 Impervious Runoff Coefficient = 0.9

Existing Network 2

| Pipe ID | Pipe Size (mm) | US IL (m) | DS IL (m) | Length (m) | Grade (%) | Capacity (l/s) | Catchment | Permeable Area (m2) | Impervious Area (m2) | Catchment Area (m2) | Peak Flow (ls) | Cumulative Catchment m2 | Cumulative Flows | Stress (%) |
|---------------------|----------------|-----------|-----------|------------|-----------|----------------|--------------------------------|---------------------|----------------------|---------------------|----------------|-------------------------|------------------|------------|
| | | | | | | | Catchment 2A - Building 1 Roof | | 1808 | 1808 | 45.9 | | | |
| PR 2/4 to EX 2/3 | 375 | | | | 15.0% | 688 | | | | 1808 | 45.9 | 1808.0 | 45.9 | 6.7% |
| EX 2/3 to EX 2/2 | 450 | | | | 8.0% | 813 | | | | | | | 45.9 | 5.6% |
| EX 2/2 to EX 2/1 | 450 | | | | 5.0% | 642 | | | | | | | 45.9 | 7.1% |
| Ex 2/1 to EX 1500mm | 600 | | | | 1.0% | 614 | | | | | | | 45.9 | 7.5% |



| | | | |
|-----------------|-------------------------------|------------------|-----|
| Client: | Generus Living | Page No: | |
| Project: | Eastcliffe Retirement Village | | 1 |
| Job No: | 22064 | Designed: | DAH |
| Date: | 8-Aug-25 | Checked: | |

Network 3

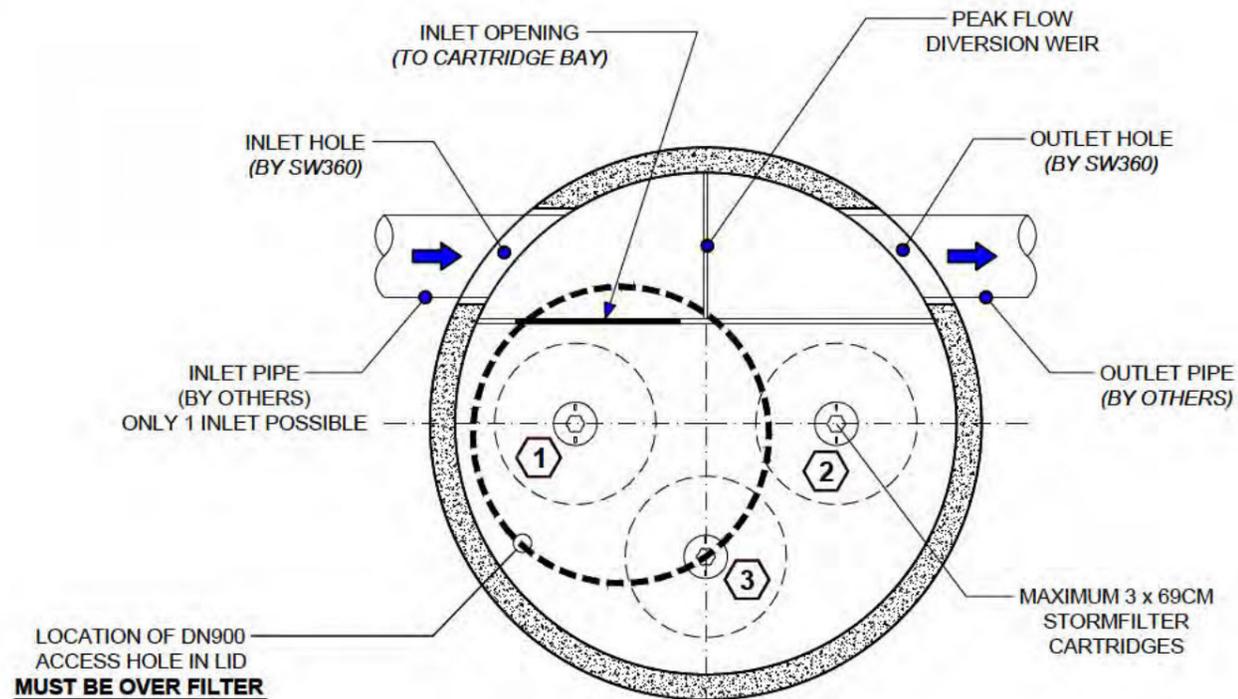
| | | |
|---|--------|-------|
| 10 Year Daily rainfall Depth from TP108 | 125.0 | mm |
| 10 Year Daily Rainfall Depth + 17.0% Climate Change | 146.25 | mm |
| 10% AEP Rainfall Intensity | = 101 | mm/hr |
| Permeable Runoff Coefficient | = 0.3 | |
| Impervious Runoff Coefficient | = 0.9 | |

Refer CLC Drawing 22064 - C918 - Post Development 10% AEP Catchment Plan

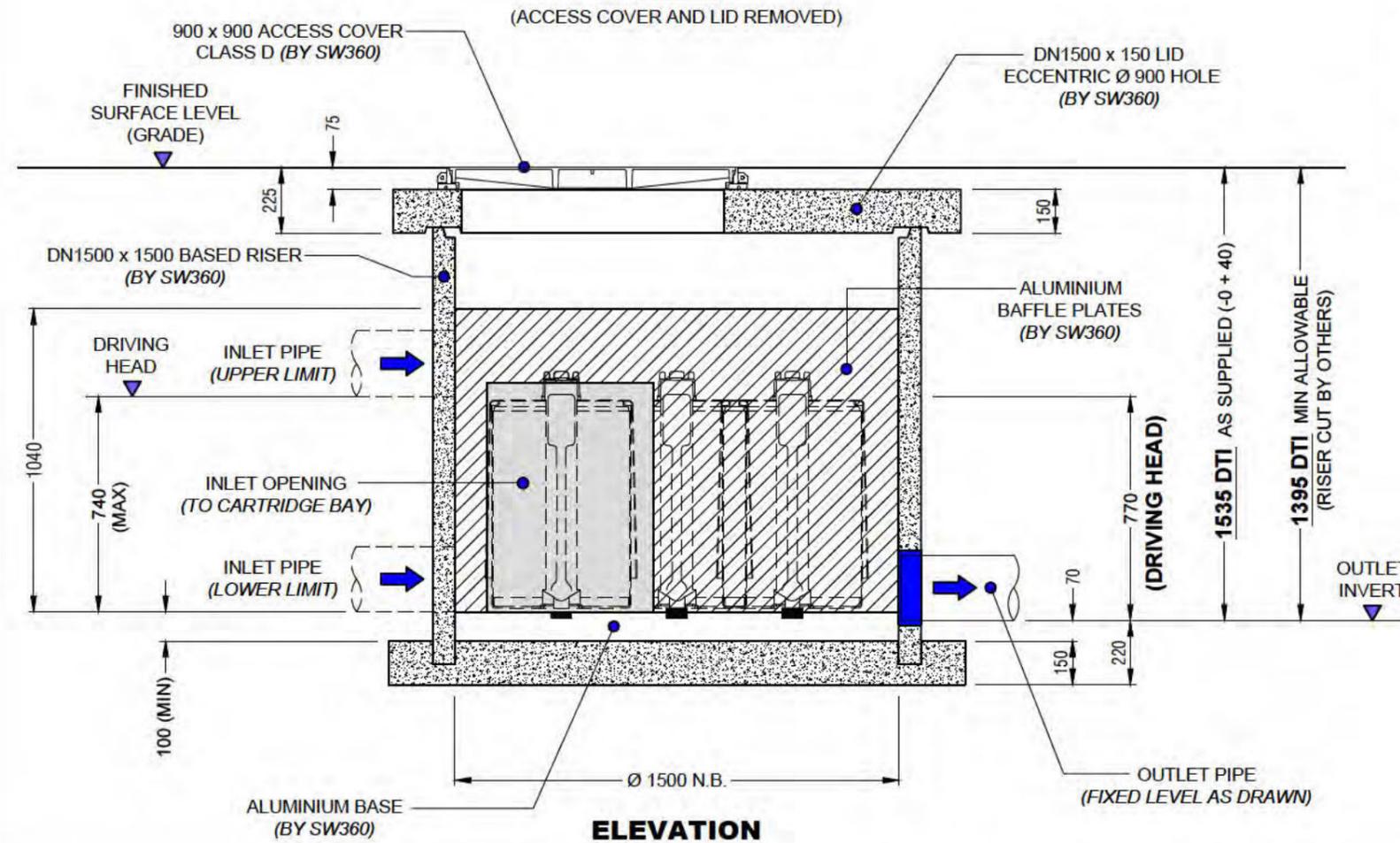
Existing Network 3

| Pipe ID | Pipe Size (mm) | US IL (m) | DS IL (m) | Length (m) | Grade (%) | Capacity (l/s) | Catchment | Permeable Area (m2) | Impervious Area (m2) | Catchment Area (m2) | Peak Flow (ls) | Cumulative Catchment m2 | Cumulative Flows | Stress (%) |
|------------------|----------------|-----------|-----------|------------|-----------|----------------|---|---------------------|----------------------|---------------------|----------------|-------------------------|------------------|------------|
| EX 3/2 to EX 3/1 | 375 | 9.50 | 3.70 | 36.0 | 16.1% | 712 | 3d- Kupe Culdesac Head | | 1372 | 1372 | 34.8 | 45682.0 | 934.3 | 131.2% |
| | | | | | | | 3c- Existing Care Building + Dwellings on Te Arawa St | 2889 | 6741 | 9630 | 195.5 | | | |
| | | | | | | | 3b - Dwellings on Te Arawa St and Rukutai St | 4396 | 10256 | 14652 | 297.4 | | | |
| | | | | | | | 3a - Dwelling on Rukutai St and Aotea St | 6008 | 14020 | 20028 | 406.6 | | | |
| | | | | | | | | | | | | | | |

| Pipe ID | Pipe Size (mm) | US IL (m) | DS IL (m) | Length (m) | Grade (%) | Capacity (l/s) | Catchment | Permeable Area (m2) | Impervious Area (m2) | Catchment Area (m2) | Peak Flow (ls) | Cumulative Catchment m2 | Cumulative Flows | Stress (%) |
|------------------|----------------|-----------|-----------|------------|-----------|----------------|-----------------------------------|---------------------|----------------------|---------------------|----------------|-------------------------|------------------|------------|
| PR 3/4 to EX 3/3 | 225 | | | | 1.00% | 46 | Rukutai Cul-de-sac Head catchpits | | 575 | | 14.6 | 575 | 14.6 | 38.40% |



PLAN



ELEVATION

TO BE COMPLETED BY CUSTOMER / CONTRACTOR

| | | | |
|---|-----------------------------------|--|---------------|
| COMPANY : | | P.O. NUMBER : | |
| SITE ADDRESS : | | | |
| SITE CONTACT & PHONE : | | | |
| PREFERRED DELIVERY DATE (TBC SW360) : | | | |
| STORMFILTER REFERENCE (IF APPLICABLE) : | | | |
| INLET PIPE Ø : DN225 RCRRJ - MAX DN300 PVC - MAX | PIPE MATERIAL : (PVC OR RCRRJ) | CORE DRILL Ø : | INLET (IL) : |
| OUTLET PIPE Ø : DN225 RCRRJ - MAX DN300 PVC - MAX | PIPE MATERIAL : (PVC OR RCRRJ) | CORE DRILL Ø : | OUTLET (IL) : |
| LID LEVEL (RL) : | DTI : | ORIENTATION : 180° (AS DRAWN) / 90° / 135° | |
| COMPLETED BY : | | SIGNED : | DATE : |

TO BE COMPLETED BY SW360

| | | | | |
|-----------------------------|-----------------------------------|---------------------------------|---------------------------|--------------------------|
| SW360 PRODUCT CODE : | | | | |
| MEDIA TYPE (CIRCLE ONE) : | PERLITE | ZPG | OTHER : | |
| CARTRIDGE QTY (STATE) : | | | | PRE-INSTALLATION (Y/N) : |
| SP FLOW RATE (CIRCLE ONE) : | FULL (Ø 27.6 ID) BLACK/MUSTARD | 3 QTR (Ø 24.0 ID) WHITE/OPAL | HALF (Ø 19.7 ID) GREEN | OTHER : |
| ACCESS COVER (CIRCLE ONE) : | 900 x 900 WEB-FORGE / CLASS D | | | OTHER : |
| COMPLETED BY : | SIGNED : | | | DATE : |

NOTES

1. MANHOLE UNIT FITTED WITH 2 SWIFTLIFT ANCHOR POINTS. DO NOT EXCEED 60 DEGREE LIFT ANGLE. CONCRETE LID FITTED WITH 4 SWIFTLIFT ANCHOR POINTS.
2. UNIT SUPPLIED WITH INLET & OUTLET CORE DRILLED.
3. SEALING / GROUTING OF MANHOLE COMPONENTS AND PIPES BY CONTRACTOR. ENSURING LOCAL CODES AND REGULATIONS ARE COMPLIED WITH.
4. ANY RISERS REQUIRED TO INCREASE THE DEPTH TO INVERT (DTI) FROM THAT AS DRAWN TO BE SUPPLIED BY THE CONTRACTOR.
5. FOR A DTI EXCEEDING 5m PLEASE CONTACT **0800STORMWATER**.
6. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.
7. BACKFILL, BEDDING AND BUOYANCY DESIGN BY ENGINEER OF RECORD
8. QTY OF CARTRIDGES BY ENGINEER OF RECORD.
9. CONCRETE MANHOLE RISERS ARE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AS/NZS 4058 : 2007
10. CONCRETE MANHOLE BASES ARE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH NZS 3101 : 2006 & NZS 3109 : 1997
11. CONCRETE LID DESIGNED AND MANUFACTURED TO HN-HO-72
12. FOR REQUIREMENTS OUTSIDE OF DRAWING SPECIFICATIONS PLEASE CONTACT **0800STORMWATER**.

APPROX WEIGHTS

MANHOLE SECTION INCLUDING CARTRIDGES : **2800 Kg**
(AS DELIVERED, BASED ON QTY 3 ZPG CARTS)
LID WEIGHT : **900 Kg**



0800 STORMWATER
sales@stormwater360.co.nz
www.stormwater360.co.nz

CONDITION OF USE
© STORMWATER360 2019
Any unauthorised reproduction of this drawing in part or in full is prohibited

STORMFILTER® PEAK DIVERSION
OFF - LINE CARTRIDGE FILTRATION SYSTEM
69cm CART / DN1500 x 1500 MH - TRAFFICABLE
GENERAL ARRANGEMENT
SCALE : N.T.S. DRG No : SF-MHPD-69-1500-T-20 REV : 0 DATE : 22.05.19

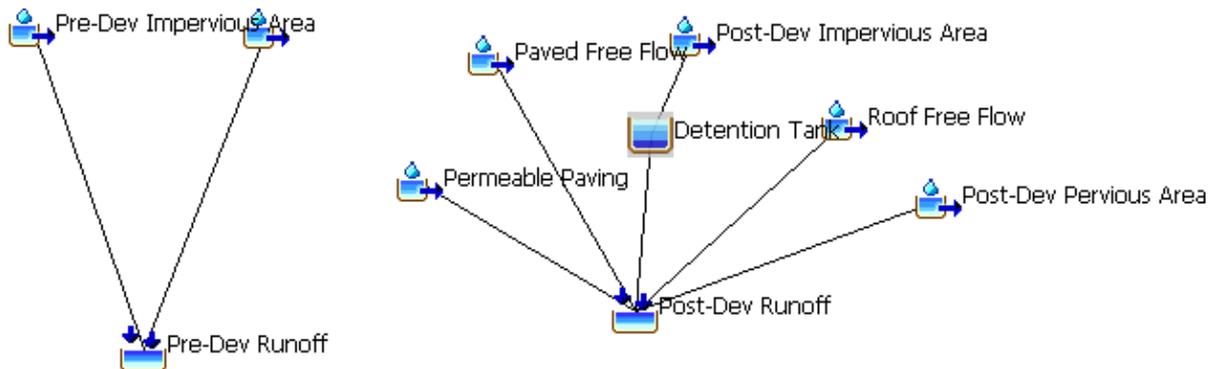
| | | | | |
|-----------|------|-----|-----------------|----------|
| JOB NO : | | REV | REVISION DETAIL | DATE |
| PROJECT : | | A | FOR APPROVAL | 22.05.19 |
| DRN : | R.P. | 0 | APPROVED | 23.05.19 |
| CKD : | G.S. | | | |

THE POINT MISSION BAY

HEC HMS MODELLEING OUTPUT

10% AEP

Pre and Post Development Model



Global Summary Results for Run "10% Post Mitigated"

Project: The Point Mission Bay Rev 2 Simulation Run: 10% Post Mitigated

Start of Run: 01Jan2021, 00:00 Basin Model: Detention
 End of Run: 02Jan2021, 00:00 Meteorologic Model: TP108 - 10% AEP
 Compute Time: DATA CHANGED, RECOMPUTE Control Specifications: Control Specifications

Show Elements: All Elements < Volume Units: MM 1000 M3 Sorting: Watershed Explorer v

| Hydrologic Element | Drainage Area (KM2) | Peak Discharge (M3/S) | Time of Peak | Volume (MM) |
|--------------------------|---------------------|-----------------------|-----------------------|-------------|
| Post-Dev Impervious ... | 0.00928 | 0.24611 | 1 January 2021, 12:07 | 140.92327 |
| Detention Tank | 0.00928 | 0.21393 | 1 January 2021, 12:11 | 139.84230 |
| Post-Dev Pervious Area | 0.00411 | 0.07347 | 1 January 2021, 12:08 | 86.28761 |
| Roof Free Flow | 0.00165 | 0.04378 | 1 January 2021, 12:07 | 140.92327 |
| Permeable Paving | 0.00135 | 0.03054 | 1 January 2021, 12:08 | 108.96008 |
| Paved Free Flow | 0.00113 | 0.02998 | 1 January 2021, 12:07 | 140.92327 |
| Pre-Dev Impervious Ar... | 0.00939 | 0.24917 | 1 January 2021, 12:07 | 140.92327 |
| Pre-Dev Pervious Area | 0.00812 | 0.14519 | 1 January 2021, 12:08 | 86.28761 |
| Pre-Dev Runoff | 0.01751 | 0.39368 | 1 January 2021, 12:07 | 115.58245 |
| Post-Dev Runoff | 0.01751 | 0.38328 | 1 January 2021, 12:09 | 125.06940 |

Output table above shows the following

10% AEP Pre Development flowrate – 0.394 m3/s

10% AEP Post Development flowrate of 0.383m3/s

10% SW Detention Tank Outputs below

54 m3 storage required for 10% Mitigation

10% AEP Tank inflow = 0.246 m3/s

10% AEP Tank outflow = 0.214 m3/s

Summary Results for Reservoir "Detention Tank"

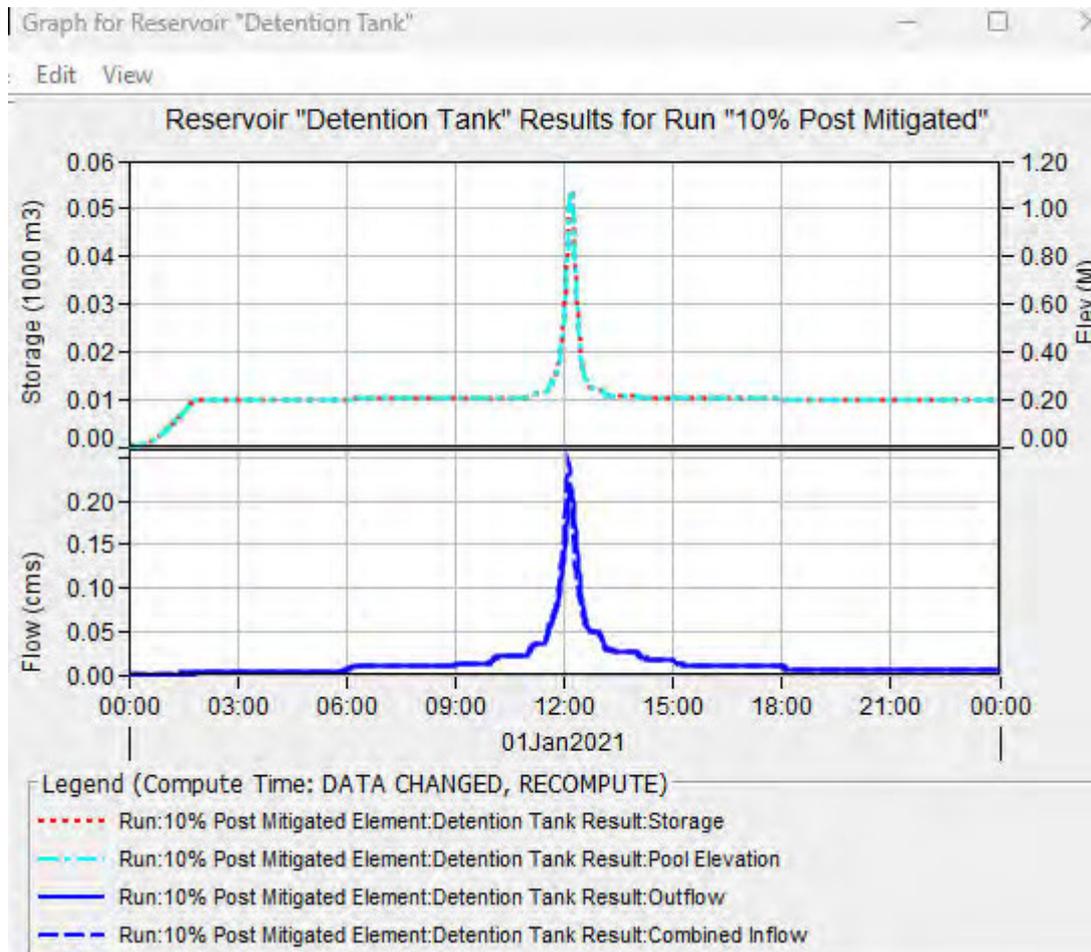
Project: The Point Mission Bay Rev 2 Simulation Run: 10% Post Mitigated
Reservoir: Detention Tank

Start of Run: 01Jan2021, 00:00 Basin Model: Detention
End of Run: 02Jan2021, 00:00 Meteorologic Model: TP108 - 10% AEP
Compute Time: DATA CHANGED, RECOMPUTE Control Specifications: Control Specifications

Volume Units: MM 1000 M3

Computed Results

| | | | |
|-------------------|----------------|------------------------------|-------------------|
| Peak Inflow: | 0.24611 (M3/S) | Date/Time of Peak Inflow: | 01Jan2021, 12:07 |
| Peak Discharge: | 0.21393 (M3/S) | Date/Time of Peak Discharge: | 01Jan2021, 12:11 |
| Inflow Volume: | 140.92327 (MM) | Peak Storage: | 0.05410 (1000 M3) |
| Discharge Volume: | 139.84230 (MM) | Peak Elevation: | 1.08204 (M) |

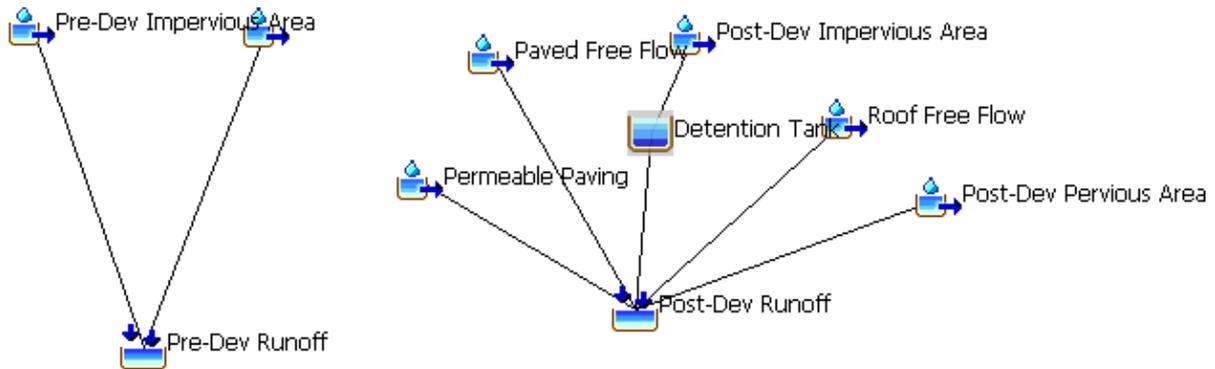


THE POINT MISSION BAY

HEC HMS MODELLING OUTPUT

1% AEP

Pre and Post Development Model



Global Summary Results for Run "1% Mitigated"

Project: The Point Mission Bay Rev 2 Simulation Run: 1% Mitigated

Start of Run: 01Jan2021, 00:00 Basin Model: Detention
 End of Run: 02Jan2021, 00:00 Meteorologic Model: TP108 - 1% AEP
 Compute Time: 07Nov2025, 09:02:15 Control Specifications: Control Specifications

Show Elements: All Elements Volume Units: MM 1000 M3 Sorting: Watershed Explorer

| Hydrologic Element | Drainage Area (KM2) | Peak Discharge (M3/S) | Time of Peak | Volume (MM) |
|-----------------------|---------------------|-----------------------|----------------------|-------------|
| Post-Dev Impervio... | 0.00928 | 0.44571 | 1 January 2021, 1... | 246.40041 |
| Detention Tank | 0.00928 | 0.41918 | 1 January 2021, 1... | 245.36776 |
| Post-Dev Pervious ... | 0.00411 | 0.16068 | 1 January 2021, 1... | 180.95919 |
| Roof Free Flow | 0.00165 | 0.07929 | 1 January 2021, 1... | 246.40041 |
| Permeable Paving | 0.00135 | 0.06034 | 1 January 2021, 1... | 211.07065 |
| Paved Free Flow | 0.00113 | 0.05430 | 1 January 2021, 1... | 246.40041 |
| Pre-Dev Imperviou... | 0.00939 | 0.45124 | 1 January 2021, 1... | 246.40041 |
| Pre-Dev Pervious ... | 0.00812 | 0.31755 | 1 January 2021, 1... | 180.95919 |
| Pre-Dev Runoff | 0.01751 | 0.76820 | 1 January 2021, 1... | 216.04781 |
| Post-Dev Runoff | 0.01751 | 0.76566 | 1 January 2021, 1... | 227.77716 |

Output table above shows the following

1% AEP Pre Development flowrate – 0.768 m3/s

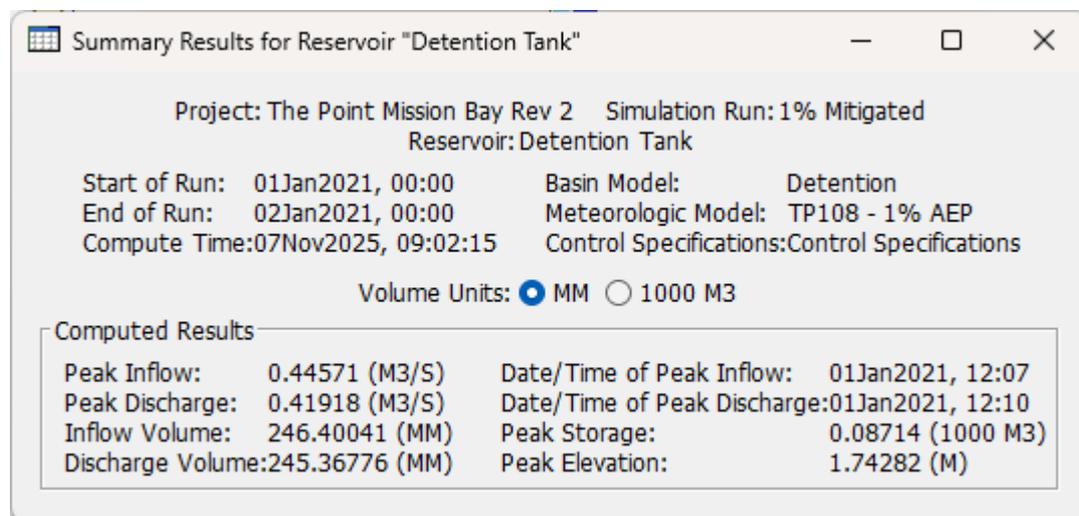
1% AEP Post Development flowrate of 0.766 m3/s

1% SW Detention Tank Outputs below

87 m3 storage required for 1% Mitigation

1% AEP Tank inflow = 0.446 m3/s

1% AEP Tank outflow = 0.419 m3/s



Summary Results for Reservoir "Detention Tank"

Project: The Point Mission Bay Rev 2 Simulation Run: 1% Mitigated
Reservoir: Detention Tank

Start of Run: 01Jan2021, 00:00 Basin Model: Detention
End of Run: 02Jan2021, 00:00 Meteorologic Model: TP108 - 1% AEP
Compute Time: 07Nov2025, 09:02:15 Control Specifications: Control Specifications

Volume Units: MM 1000 M3

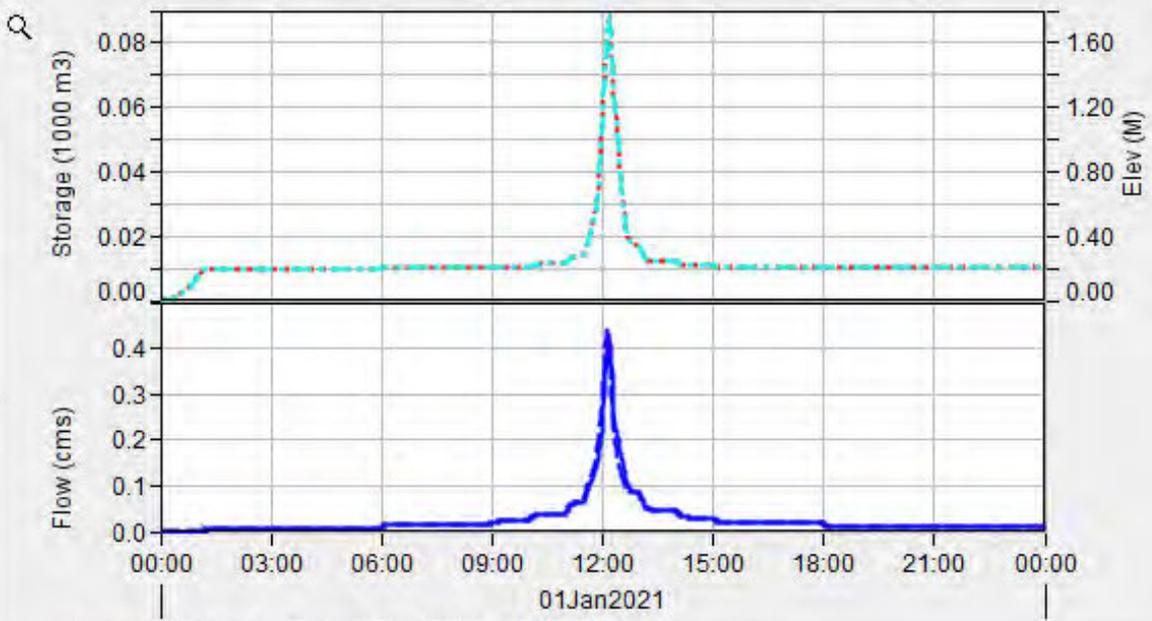
Computed Results

| | | | |
|-------------------|----------------|------------------------------|-------------------|
| Peak Inflow: | 0.44571 (M3/S) | Date/Time of Peak Inflow: | 01Jan2021, 12:07 |
| Peak Discharge: | 0.41918 (M3/S) | Date/Time of Peak Discharge: | 01Jan2021, 12:10 |
| Inflow Volume: | 246.40041 (MM) | Peak Storage: | 0.08714 (1000 M3) |
| Discharge Volume: | 245.36776 (MM) | Peak Elevation: | 1.74282 (M) |

Graph for Reservoir "Detention Tank"

File Edit View

Reservoir "Detention Tank" Results for Run "1% Mitigated"



- Legend (Compute Time: 07Nov2025, 09:02:15)
- Run:1% Mitigated Element:Detention Tank Result:Storage
 - Run:1% Mitigated Element:Detention Tank Result:Pool Elevation
 - Run:1% Mitigated Element:Detention Tank Result:Outflow
 - Run:1% Mitigated Element:Detention Tank Result:Combined Inflow

Appendix D – Hydrant Testing



NOVA FLOWTEC SERVICES LTD
HYDRANT TESTING SPECIALISTS

E: info@novaflowtec.co.nz
T: 09 444 8375
PO Box 241, Albany, Auckland 0752
www.novaflowtec.co.nz

17th April 2025

Osborn Associates
37 Veronica Street
New Lynn
Auckland

RE: Firefighting Water Supply at 217 Kupe Street, Orakei

Attention: Brendon Turner

Dear Brendon

Nova Flowtec Services were engaged to conduct a FW2 hydrant flow test for the proposed development at the above address.

The testing was conducted on Wednesday 16th April 2025 at 8:15am.

The object of the testing was to prove that there is sufficient water for firefighting purposes (1500Lpm, FW2) and (1500Lpm for the sprinkler system) being a total of 3000Lpm.

Requirements:

In order to meet the FW2 minimum requirements of PAS 4509: 2008, 750Lpm is required within 135m and an additional 750Lpm is required within 270m of the development.

This being a total of 1500Lpm at a minimum residual pressure of 100kPa.

Results:

During testing the minimum requirement was exceeded with 3190Lpm at 290kPa being recorded. Please find the results table and the hydrant map on the following page.

Testing proved that 1500Lpm is available for the FW2 and 1690Lpm is available for the sprinkler system.

Please find the flow and pressure curve to assist with the sprinkler system design on page three.

Should you have any questions please do not hesitate to contact me.

Kind Regards



Melanie Keane
Testing Manager

Mains Flow and Pressure Curve

Hydrant locations: Kupe Street, Orakei

Date: 16th April 2025

Time: 8.15am

Flow: Hydrants 1 and 2

Residual pressure: Residual kPa

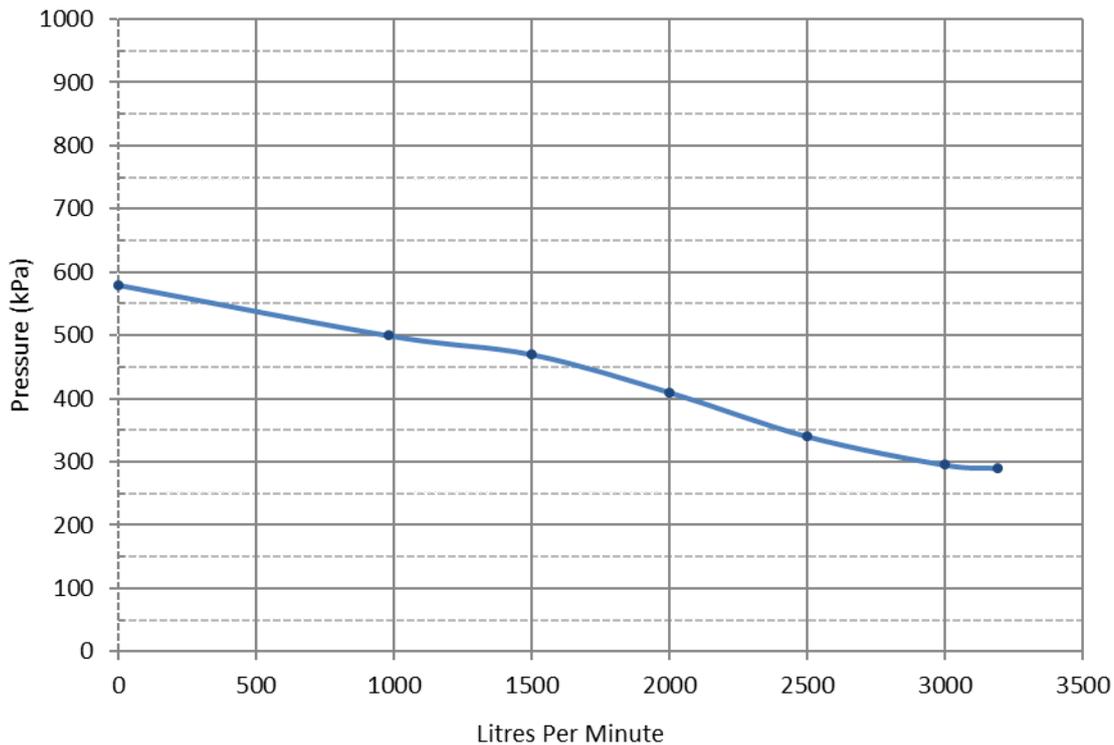
Maximum flow result: 3190Lpm at 290kPa

Test Supervisor: Anthony Blewman

Data:

| Flow (Lpm) | Pressure (kPa) |
|------------|----------------|
| 0 | 580 |
| 980 | 500 |
| 1500 | 470 |
| 2000 | 410 |
| 2500 | 340 |
| 3000 | 295 |
| 3190 | 290 |

Graph:



Notes: The hydrants were flowed to full capacity during testing.

At full flow H1 was 1590Lpm and H2 was 1600Lpm.

Disclaimer: These results indicate the water networks performance on this given date and time.

The networks performance is subject to fluctuations.

Hydrant Map: See page 2

Appendix E – Wastewater and Water calculations



| | |
|---|---------------------|
| Client: Generus Living | Page No: |
| Project: Eastcliffe Retirement Village | 1 |
| Job No: 22064 | Designed: DH |
| Date: 18-Sept-25 | Checked: KA |

WASTE WATER FLOW CALCULATIONS

NON-RESIDENTIAL FLOWS FROM COMMUNAL AREAS

| Proposed Use | Activity Type | Design Flow Allowance | Area | Design Flow | PDWF | PWWF | |
|---------------------------|-------------------------------|---|------|---------------|----------------|----------------|----------------|
| Café / Restaurant | Wet Retail | 15 l/m ² /day | 330 | 4950.0 | 9900.0 | 33165.0 | |
| Reception / Office /Admin | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 50 | 216.7 | 433.3 | 1083.3 | |
| Library / Book Club | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 300 | 1300.0 | 2600.0 | 6500.0 | |
| Executive Meeting Room | Dry Retail | 1 person per 50m ² at 65 l/per/day | 150 | 195.0 | 390.0 | 975.0 | |
| Cinema | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 200 | 866.7 | 1733.3 | 4333.3 | |
| Salon | Dry Retail | 1 person per 50m ² at 65 l/per/day | 35 | 45.5 | 91.0 | 227.5 | |
| Gym / Pool | Medium Water Users | 6.0 l/m ² /day | 480 | 2880 | 14400.0 | 19296.0 | |
| Gymnasium | Medium Water Users | 6.0 l/m ² /day | 100 | 600 | 3000.0 | 4020.0 | |
| Hydrotherapy Area | Medium Water Users | 6.0 l/m ² /day | 150 | 900 | 1800.0 | 6030.0 | |
| Commercial Kitchen | Wet Retail | 15 l/m ² /day | 200 | 1200 | 2400.0 | 8040.0 | |
| | | | | 1995.0 | 13153.8 | 36747.7 | 83670.2 |

RESIDENTIAL FLOWS

| Bedrooms | No. of Units | Design Occupancy | Design Flow Allowance | Design Flow | PDWF | PWWF |
|----------|--------------|------------------|-----------------------|--------------|---------------|---------------|
| 1 | 38 | 1.5 | 180 l/per/day | 10260 | 30780 | 51300 |
| 2 | 158 | 2.0 | 180 l/per/day | 56880 | 170640 | 284400 |
| 3 | 64 | 2.0 | 180 l/per/day | 23040 | 69120 | 115200 |
| | 260 | | | | | |
| | | | | 90180 | 270540 | 450900 |

NON-RESIDENTIAL FLOWS FROM COMMUNAL AREAS

| | | | |
|---------------------|----------------------|---|-----------------|
| Total Design Flow = | 13153.8 l/day | = | 0.15 l/s |
| Total PDWF = | 36747.7 l/day | = | 0.43 l/s |
| Total PWWF = | 83670.2 l/day | = | 0.97 l/s |

RESIDENTIAL FLOWS

| | | | |
|---------------------|-----------------------|---|-----------------|
| Total Design Flow = | 90180.0 l/day | = | 1.04 l/s |
| Total PDWF = | 270540.0 l/day | = | 3.13 l/s |
| Total PWWF = | 450900.0 l/day | = | 5.22 l/s |

COMBINED FLOWS

| | | | |
|---------------------|-----------------------|---|-----------------|
| Total Design Flow = | 103333.8 l/day | = | 1.20 l/s |
| Total PDWF = | 307287.7 l/day | = | 3.56 l/s |
| Total PWWF = | 534570.2 l/day | = | 6.19 l/s |



| | | | |
|-----------------|-----------------------|------------------|----|
| Client: | Generus Living | Page No: | |
| Project: | Eastcliffe Retirement | | 1 |
| Job No: | 22064 | Designed: | DH |
| Date: | 21-Aug-25 | Checked: | KA |

WATER SUPPLY FLOW CALCULATIONS

NON-RESIDENTIAL FLOWS FROM COMMUNAL AREAS

| Proposed Use | Activity Type | Design Flow Allowance | Area | Design Flow | PDDF |
|---------------------------|-------------------------------|---|---------------|----------------|----------------|
| Café / Resturant | Wet Retail | 15 l/m ² /day | 330 | 4950.0 | 9900.0 |
| Reception / Office /Admin | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 50 | 216.7 | 433.3 |
| Library / Book Club | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 300 | 1300.0 | 2600.0 |
| Executive Meeting Room | Dry Retail | 1 person per 50m ² at 65 l/per/day | 150 | 195.0 | 390.0 |
| Cinema | Office Buildings & Dry Retail | 1 person per 15m ² at 65 l/per/day | 200 | 866.7 | 1733.3 |
| Salon | Dry Retail | 1 person per 50m ² at 65 l/per/day | 35 | 45.5 | 91.0 |
| Gym / Pool | Medium Water Users | 6.0 l/m ² /day | 480 | 2880 | 5760.0 |
| Gymnasium | Medium Water Users | 6.0 l/m ² /day | 100 | 600 | 1200.0 |
| Hydrotherapy Area | Medium Water Users | 6.0 l/m ² /day | 150 | 900 | 1800.0 |
| Commercial Kitchen | Wet Retail | 15 l/m ² /day | 200 | 3000 | 6000.0 |
| | | | <u>1995.0</u> | <u>14953.8</u> | <u>29907.7</u> |

RESIDENTIAL FLOWS

| Bedrooms | No. of Units | Design Occupancy | Design Flow Allowance | Design Flow | PDDF |
|----------|--------------|------------------|-----------------------|---------------|---------------|
| 1 | 38 | 1.5 | 200 l/per/day | 11400 | 22800 |
| 2 | 158 | 2.0 | 200 l/per/day | 63200 | 126400 |
| 3 | 64 | 2.0 | 200 l/per/day | 25600 | 51200 |
| | 260 | | | <u>100200</u> | <u>200400</u> |

NON-RESIDENTIAL FLOWS FROM COMMUNAL AREAS

| | | | |
|---------------------|----------------------|---|-----------------|
| Total Design Flow = | 14953.8 l/day | = | 0.17 l/s |
| Total PDDF = | 29907.7 l/day | = | 0.35 l/s |

RESIDENTIAL FLOWS

| | | | |
|---------------------|-----------------------|---|-----------------|
| Total Design Flow = | 100200.0 l/day | = | 1.16 l/s |
| Total PDDF = | 200400.0 l/day | = | 2.32 l/s |

COMBINED FLOWS

| | | | |
|---------------------|-----------------------|---|-----------------|
| Total Design Flow = | 115153.8 l/day | = | 1.33 l/s |
| Total PDDF = | 230307.7 l/day | = | 2.67 l/s |

Development Application Form – Water Supply/Wastewater Planning Assessment

| | | |
|---|--|---|
| Date of Application | 18/09/2025 | |
| Address of Development | 217 Kupe Street, Mission Bay, Auckland 1071 Eastcliffe Retirement Village | |
| Layout Plan of Proposed Development clearly showing: <ul style="list-style-type: none"> • Aerial photograph • Road names • Boundary of development • Preferred point of connection to existing water supply and wastewater asset |  | |
| | Refer Architectural Drawing extract above for proposed layout. Refer CLC Infrastructure Report for further details. | |
| | Description | Comment |
| Current Land Use | Retirement Village | |
| Proposed Land Use | Retirement Village | |
| Total Development Area (Ha.) | <i>Total Site Area 2.247 Ha.</i> | |
| Number of Residential Households (Consent & Ultimate) | 38 x 1 Bedroom Units 158x 2 Bedroom Units 64 x 3 Bedroom Units 260 Total Units | 260 Residential Units plus communal spaces for residents (e.g. café, gym, cinema etc) Refer CLC Infrastructure Report |

Refer to Water and Wastewater Code of Practice for Land Development and Subdivision Section 6 Water Supply

| Water Supply Development Assessment | | |
|---|---|---|
| Average and Peak Residential Demand (L/s) | Average = 1.16 l/s Peak = 2.32 l/s | Refer Infrastructure Report for demand calculations for apartments |
| Average and Peak Non-Residential Demand (L/s) | Average = 0.17 l/s Peak = 0.35 l/s | Refer Infrastructure Report for demand calculations for communal areas. |
| Non Residential Demand Typical Daily Consumption Profile / Trend | Typical commercial trend for service related consumption | <i>Café, Gym, Cinema, Saloon etc</i> |
| Fire- fighting Classification required by the proposed site | FW 2 sprinklered site TBC with Fire Engineer | |
| Hydrant Flow Test Results | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <i>Flow test results attached</i> |

| | | |
|--------------------------------------|---|--|
| Sprinkler System in building? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <i>Sprinkler design should consider Watercare Level of Service: minimum pressure at 200kPa and minimum flow at 25 l/min. The building owner shall conduct periodic review of sprinkler design.</i> |
| Further Water Supply comments | | |

Refer to Water and Wastewater Code of Practice for Land Development and Subdivision Section 5 Wastewater

| Wastewater Development Assessment | | |
|--|--|--|
| Peak DWF and WWF Residential Design Flows (L/s) | Design Flow = 1.04 l/s PDWF = 3.13 l/s PWWF = 5.22 l/s | <i>Refer Infrastructure Report for demand calculations for apartments</i> |
| Peak DWF and WWF Non-Residential Design Flows (L/s) | Design Flow = 0.15l/s PDWF = 0.43 l/s PWWF = 0.97 l/s | <i>Refer Infrastructure Report for demand calculations for communal areas</i> |
| Non-Residential Discharge Profile / Trend (i.e. Operations) | Typical commercial trend for service-related discharge | <i>Café, Gym, Cinema, Saloon etc</i> |
| New Assets Required for Development | | <i>Propose connection to Ex Public WWMH within NE corner of site GIS ID 532457 and COMPKEY ID 1264302</i> |
| Sewer Capacity Check | | <i>Capacity Assessment confirms the existing network has adequate capacity Refer CLC Infrastructure Report</i> |
| Further Wastewater comments | | |

For internal Watercare use only

| | |
|--|--|
| Date Application Received | |
| Application Ref No. | |
| Assigned Connections Engineer | |
| Prior Developer Correspondence with Watercare | |

Raunak Chand

From: Network Capacity <networkcapacity@water.co.nz>
Sent: Monday, 10 February 2025 7:05 pm
To: Roneel Gandhi
Subject: RE: [#CLC22064-Eastcliffe Village, The Point, Mission Bay] Procedure for capacity assessment and quote

Dear Applicant,

Thank you for your inquiry regarding water supply and wastewater network capacity.

Based on our initial assessment, the property referenced in your email, is not located within a capacity constraint area.

The [map](#) focuses on capacity at a town or suburb level. Across Auckland, some individual streets may be constrained due to bottlenecks in local water or wastewater pipes. We encourage you to assess the impact of your proposed development as part of your resource consent process. If a network constraint is identified, you may need to upgrade the local network. See our [Consents](#) page to understand the key steps in the resource consent process.

Should you have any further questions, please do not hesitate to contact us.

Regards,

Network Capacity

Watercare Services Limited
Email address: networkcapacity@water.co.nz
Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand
Website: www.watercare.co.nz

From: Roneel Gandhi [REDACTED]
Sent: Wednesday, 5 February 2025 3:09 pm
To: Network Capacity <networkcapacity@water.co.nz>
Subject: RE: [#CLC22064-Eastcliffe Village, The Point, Mission Bay] Procedure for capacity assessment and quote

Hello there,

Please see the following details:

Full Address, Lot, DP: **SEC 3 SO 63269, LOT 1 DP 92924, LOT 2 DP 92924, LOT 3 DP 92925**



- Development Proposal: **Multi storey retirement village**
- Existing land use: **Residential retirement village**
- Proposed i.e. Residential, Commercial, Industrial, mixed: **Mixed use residential and commercial (facilities for the village e.g restaurants, cinemas, pools, etc.)**
- Additional DUE's proposed: **246 across 5 stages**

Kind Regards,



Expertise You Can Trust



Roneel Gandhi Graduate Civil Engineer

e. [REDACTED]
p. NA
ddi. [REDACTED]
w. clcgroup.co.nz
a. Level 4, Geneva House, 3 Te Kehu Way, Sylvia Park, Auckland 1060

CAUTION: This email message and any attachments contain information that may be confidential and may be LEGALLY PRIVILEGED. If you are not the intended recipient, any use, disclosure or copying of this message or attachments is strictly prohibited. If you have received this email message in error please notify us immediately and erase all copies of the message and attachments.

From: Network Capacity <networkcapacity@water.co.nz>
Sent: Wednesday, 5 February 2025 2:38 PM
To: Roneel Gandhi [REDACTED]
Subject: RE: [#CLC22064-Eastcliffe Village, The Point, Mission Bay] Procedure for capacity assessment and quote

Hi Roneel,

Thank you for your inquiry.

To assist you further, could you please provide the following details:

- Full Address, Lot, DP:
- Development Proposal:
- Existing land use:
- Proposed i.e. Residential, Commercial, Industrial, mixed:
- Additional DUE's proposed:

You can get answer from our website also if you visit - <https://forms.watercare.co.nz/243156950939063>

Looking forward to your response.

Network Capacity

Watercare Services Limited

Email address: networkcapacity@water.co.nz

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

Website: www.watercare.co.nz

Network Capacity

Watercare Services Limited

Email address: networkcapacity@water.co.nz

Physical address: 73 Remuera Road, Remuera, Auckland 1050, New Zealand

Website: www.watercare.co.nz

From: Roneel Gandhi [REDACTED]
Sent: Wednesday, 5 February 2025 12:45 pm
To: Network Capacity <networkcapacity@water.co.nz>
Subject: [#CLC22064-Eastcliffe Village, The Point, Mission Bay] Procedure for capacity assessment and quote

Kia Ora Team,

We would like to ask about the process we would need to undergo to request for a capacity assessment to determine if there any issues associated with a development. We would also like to request for a quote for the assessment.

Kind Regards,



Expertise You Can Trust



Roneel Gandhi Graduate Civil Engineer

e. [REDACTED]
p. NA
ddi. [REDACTED]
w. clcgroup.co.nz
a. Level 4, Geneva House, 3 Te Kehu Way, Sylvia Park, Auckland 1060

Appendix F – Engineering Plans

THE POINT

MISSION BAY

217 KUPE STREET, AUCKLAND



| DRAWING INDEX | | | | |
|---------------|----------|------------|------------------|---|
| DRAWING No. | REVISION | ISSUE DATE | ISSUE | TITLE |
| C900 | E | 13-11-2025 | RESOURCE CONSENT | TITLE PAGE |
| C902 | C | 13-11-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL OVERALL PLAN |
| C903 | C | 13-11-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL PLAN - STAGE 1 |
| C905 | C | 13-11-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL PLAN - STAGE 2 |
| C906 | C | 13-11-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL PLAN - STAGE 4 |
| C910 | B | 13-11-2025 | RESOURCE CONSENT | PRE DEVELOPMENT CATCHMENT / COVERAGE PLAN |
| C917 | A | 11-11-2025 | RESOURCE CONSENT | PRE DEVELOPMENT 10% CATCHMENT PLAN |
| C918 | B | 13-11-2025 | RESOURCE CONSENT | POST DEVELOPMENT 10% CATCHMENT PLAN |
| C920 | DELETE | | | ENABLING WORKS - STAGE 0 |
| C921 | B | 07-11-2025 | RESOURCE CONSENT | EARTHWORKS PLAN - OVERALL |
| C922 | B | 07-11-2025 | RESOURCE CONSENT | EARTHWORKS PLAN - STAGE 1 |
| C923 | B | 07-11-2025 | RESOURCE CONSENT | EARTHWORKS PLAN - STAGE 2 |
| C925 | B | 07-11-2025 | RESOURCE CONSENT | EARTHWORKS PLAN - STAGE 4 |
| C930 | D | 13-11-2025 | RESOURCE CONSENT | DRAINAGE PLAN - OVERALL |
| C931 | D | 13-11-2025 | RESOURCE CONSENT | DRAINAGE PLAN |
| C932 | D | 13-11-2025 | RESOURCE CONSENT | DRAINAGE PLAN |
| C933 | D | 13-11-2025 | RESOURCE CONSENT | DRAINAGE PLAN |
| C934 | D | 13-11-2025 | RESOURCE CONSENT | STORMWATER TREATMENT OVERALL PLAN |
| C935 | D | 13-11-2025 | RESOURCE CONSENT | STORMWATER TREATMENT PLAN - SHEET 2 |
| C936 | B | 11-11-2025 | RESOURCE CONSENT | PROPOSED WATER SUPPLY - SHEET 1 OF 2 |
| C937 | A | 11-11-2025 | RESOURCE CONSENT | PROPOSED WATER SUPPLY - SHEET 2 OF 2 |
| C940 | A | 28-08-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL DETAILS |
| C941 | A | 28-08-2025 | RESOURCE CONSENT | EROSION AND SEDIMENT CONTROL DETAILS |
| C942 | C | 11-11-2025 | RESOURCE CONSENT | SW TREATMENT DETAIL |

TOPOGRAPHICAL NOTES:

1. TOPOGRAPHICAL SURVEY BY WOODS AND YEOMANS SURVEY SOLUTIONS
2. THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE.
~ 802876.480mN 405586.952mE
3. THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415, SO53199" (GD CODE CBG6), RL = 14.83m, SOURCED FROM LINZ DATABASE.



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|--|-------|----------|----------|------------|
| A | FOR RESOURCE CONSENT | VK | DH | KA | 22-08-2025 |
| B | FOR RESOURCE CONSENT - E&S CONTROL ADDED | VK | DH | KA | 28-08-2025 |
| C | RESOURCE CONSENT | VK | DH | KA | 18-09-2025 |
| D | RESOURCE CONSENT | VK | DH | KA | 11-11-2025 |
| E | FOR RESOURCE CONSENT | KH | DH | KA | 13-11-2025 |



Client: **GENERUS LIVING GROUP**

Project: **THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND**

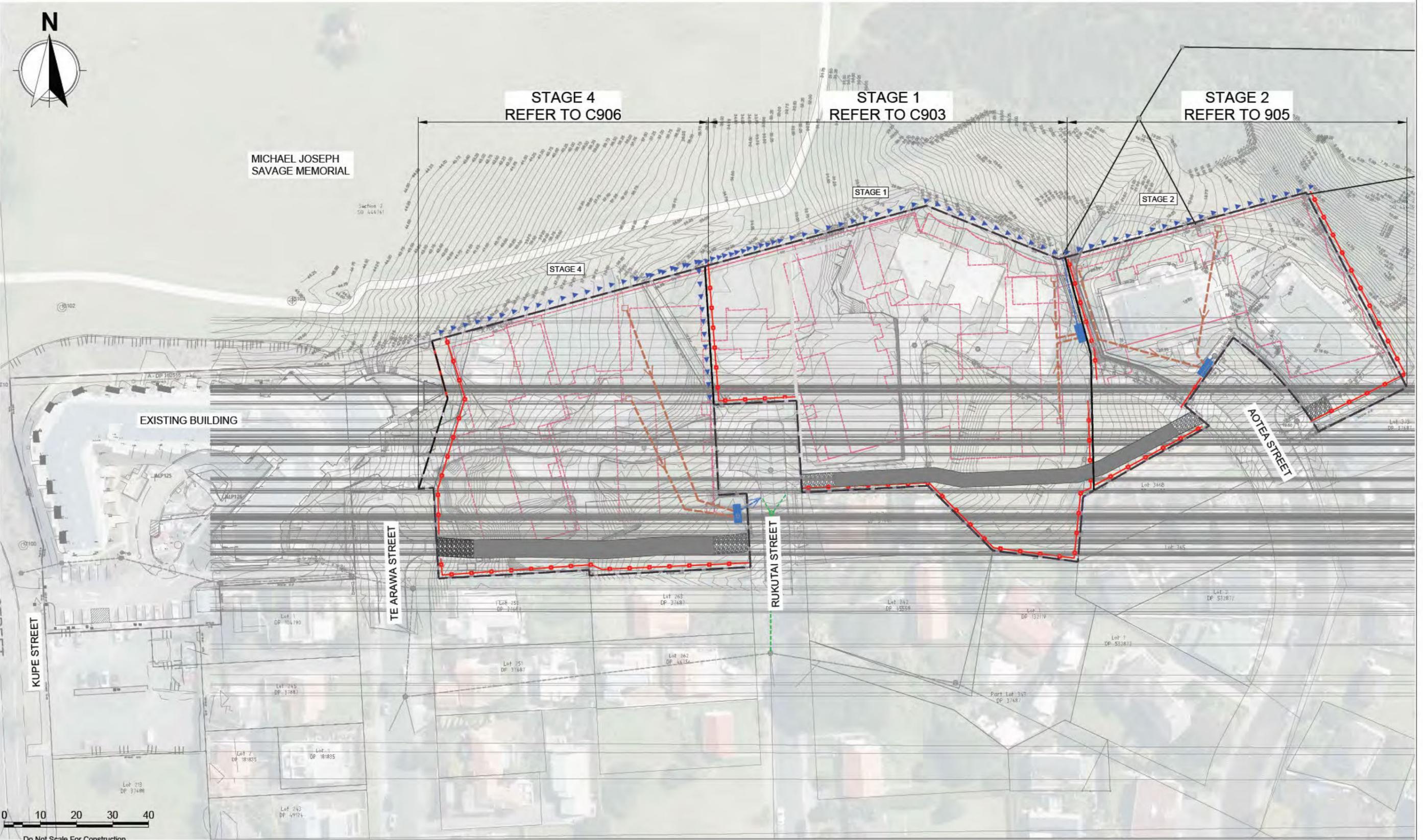
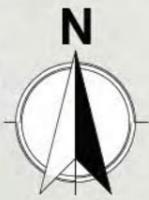
Drawing Title: **TITLE PAGE AND DRAWING REGISTER**

Issue: **RESOURCE CONSENT**

Scale @ A3: **NA**

Dwg No: **22064-C900**

Rev: **E**



0 10 20 30 40
Do Not Scale For Construction



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|------------------|-------|----------|----------|------------|
| A | RESOURCE CONSENT | VK | RC | KA | 28-08-2025 |
| B | RESOURCE CONSENT | VK | RC | KA | 07-11-2025 |
| C | RESOURCE CONSENT | VK | RC | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP LTD

Project:
THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND

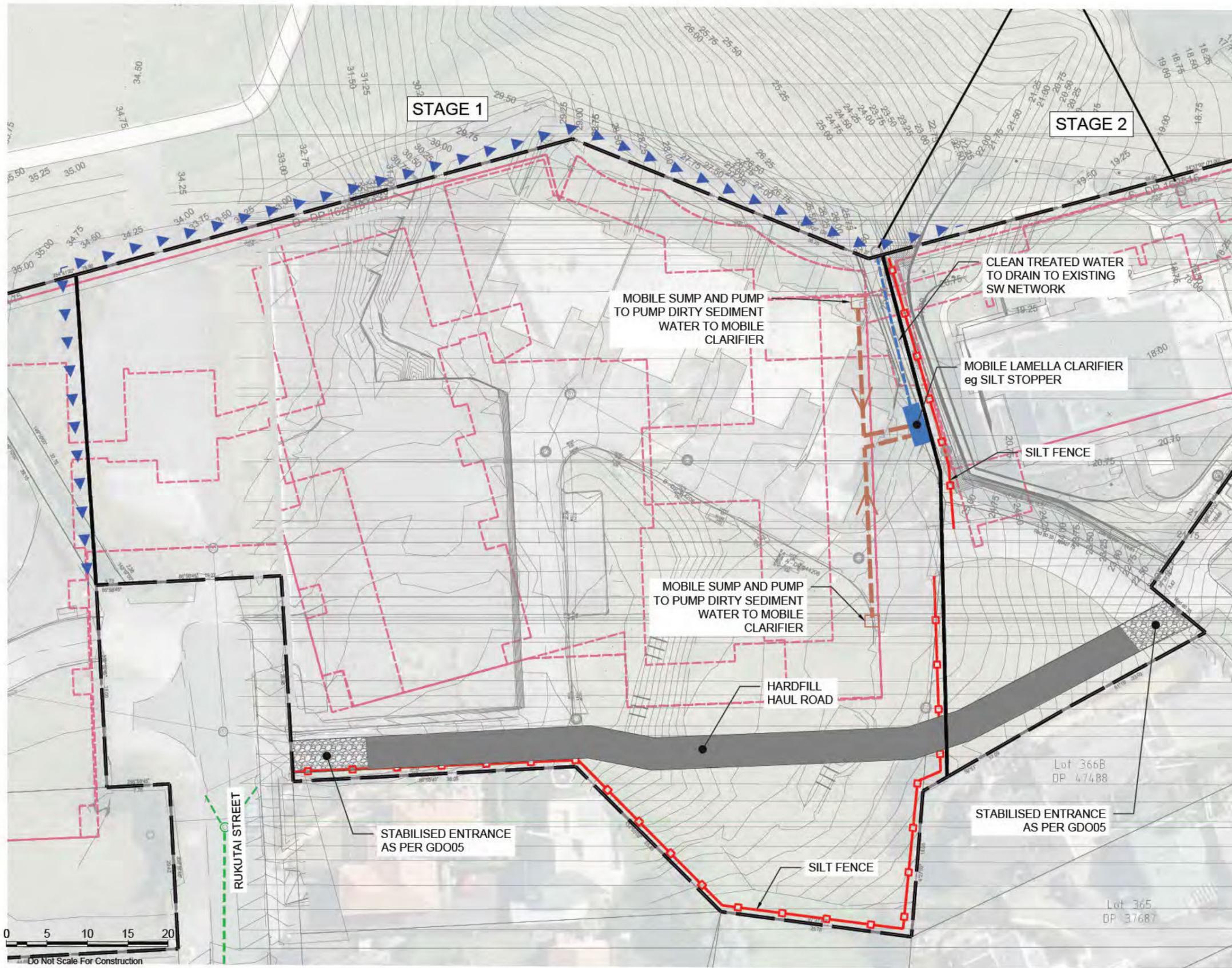
Drawing Title:
EROSION AND SEDIMENT CONTROL PLAN OVERALL

Issue:
RESOURCE CONSENT

Scale @ A3:
1:1000

Dwg No:
22064-C902

Rev:
C



| LEGEND | |
|--|--|
| STAGING AREA | |
| PROPOSED BUILDINGS | |
| PROPOSED PRIVATE SW | |
| PROPOSED PUBLIC SW | |
| PROPOSED SILT FENCE | |
| PROPOSED CLEAN WATER DIVERSION BUND | |
| PROPOSED DIRTY WATER DIVERSION BUND | |
| PROPOSED STABILISED CONSTRUCTION ENTRANCE | |
| MOBILE LAMELLA CLARIFIER EG SILT STOPPER (3.8m LONG x 2.0m WIDE x 2.4m HIGH) | |
| TREATED CLEAN WATER FROM CLARIFIER TO DRAIN TO SW NETWORK | |
| MOBILE SUMP AND PUMP TO PUMP DIRTY SEDIMENT LADEN WATER TO MOBILE CLARIFIER | |



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|------------------|-------|----------|----------|------------|
| A | RESOURCE CONSENT | VK | RC | KA | 28-08-2025 |
| B | RESOURCE CONSENT | VK | RC | KA | 07-11-2025 |
| C | RESOURCE CONSENT | VK | RC | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP LTD

Project:
THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND

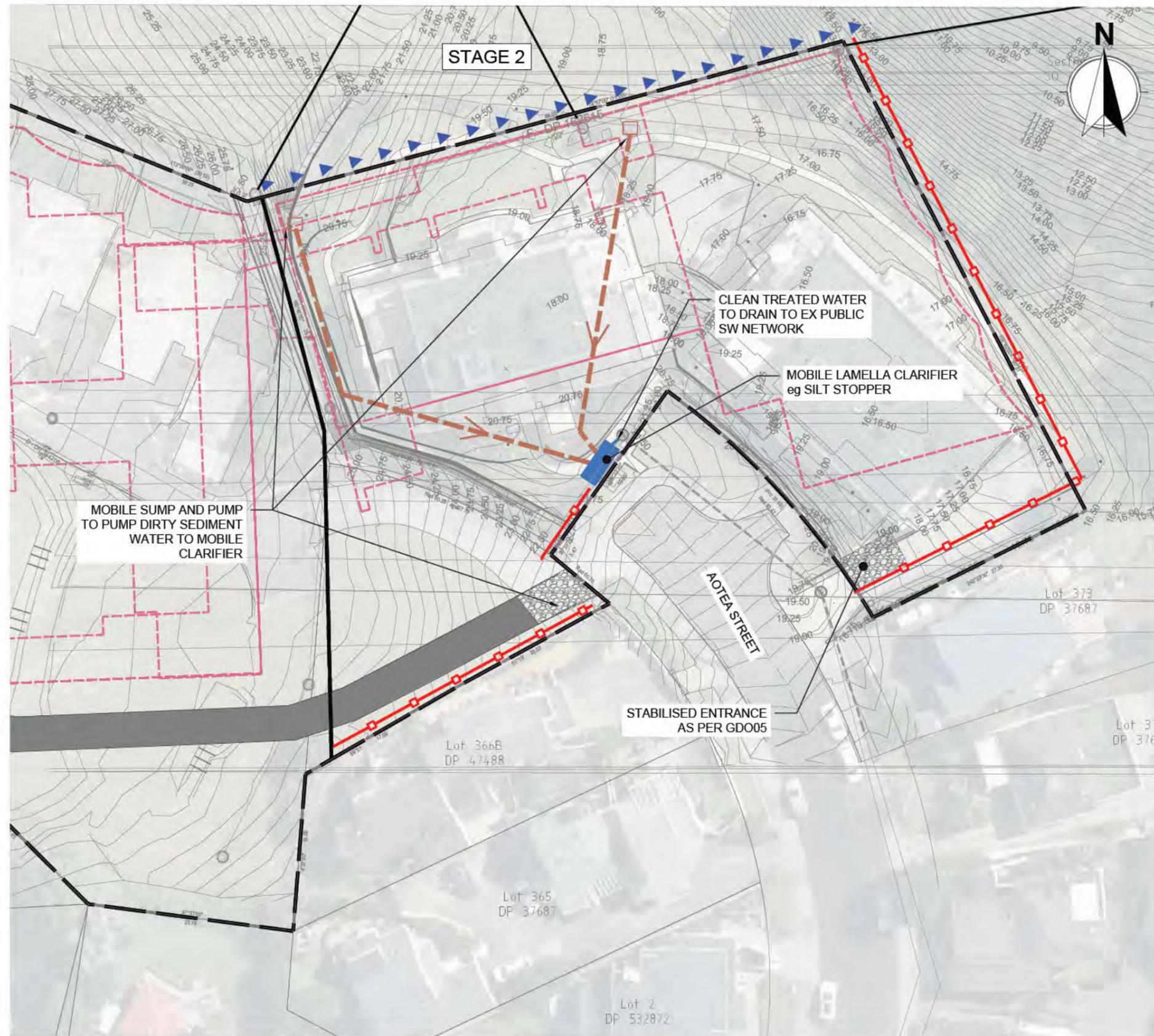
Drawing Title:
EROSION AND SEDIMENT CONTROL PLAN STAGE 1

Issue:
RESOURCE CONSENT

Scale @ A3:
1:500

Dwg No:
22064-C903

Rev:
C



| LEGEND | |
|--|--|
| STAGING AREA | |
| PROPOSED BUILDINGS | |
| PROPOSED PRIVATE SW | |
| PROPOSED PUBLIC SW | |
| PROPOSED SILT FENCE | |
| PROPOSED CLEAN WATER DIVERSION BUND | |
| PROPOSED DIRTY WATER DIVERSION BUND | |
| PROPOSED STABILISED CONSTRUCTION ENTRANCE | |
| MOBILE LAMELLA CLARIFIER EG SILT STOPPER (3.8m LONG x 2.0m WIDE x 2.4m HIGH) | |
| TREATED CLEAN WATER FROM CLARIFIER TO DRAIN TO SW NETWORK | |
| MOBILE SUMP AND PUMP TO PUMP DIRTY SEDIMENT LADEN WATER TO MOBILE CLARIFIER | |

0 5 10 15 20
Do Not Scale For Construction



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|------------------|-------|----------|----------|------------|
| A | RESOURCE CONSENT | YK | RC | KA | 28-08-2025 |
| B | RESOURCE CONSENT | YK | RC | KA | 07-11-2025 |
| C | RESOURCE CONSENT | YK | RC | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP LTD

Project:
THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND

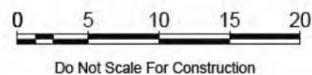
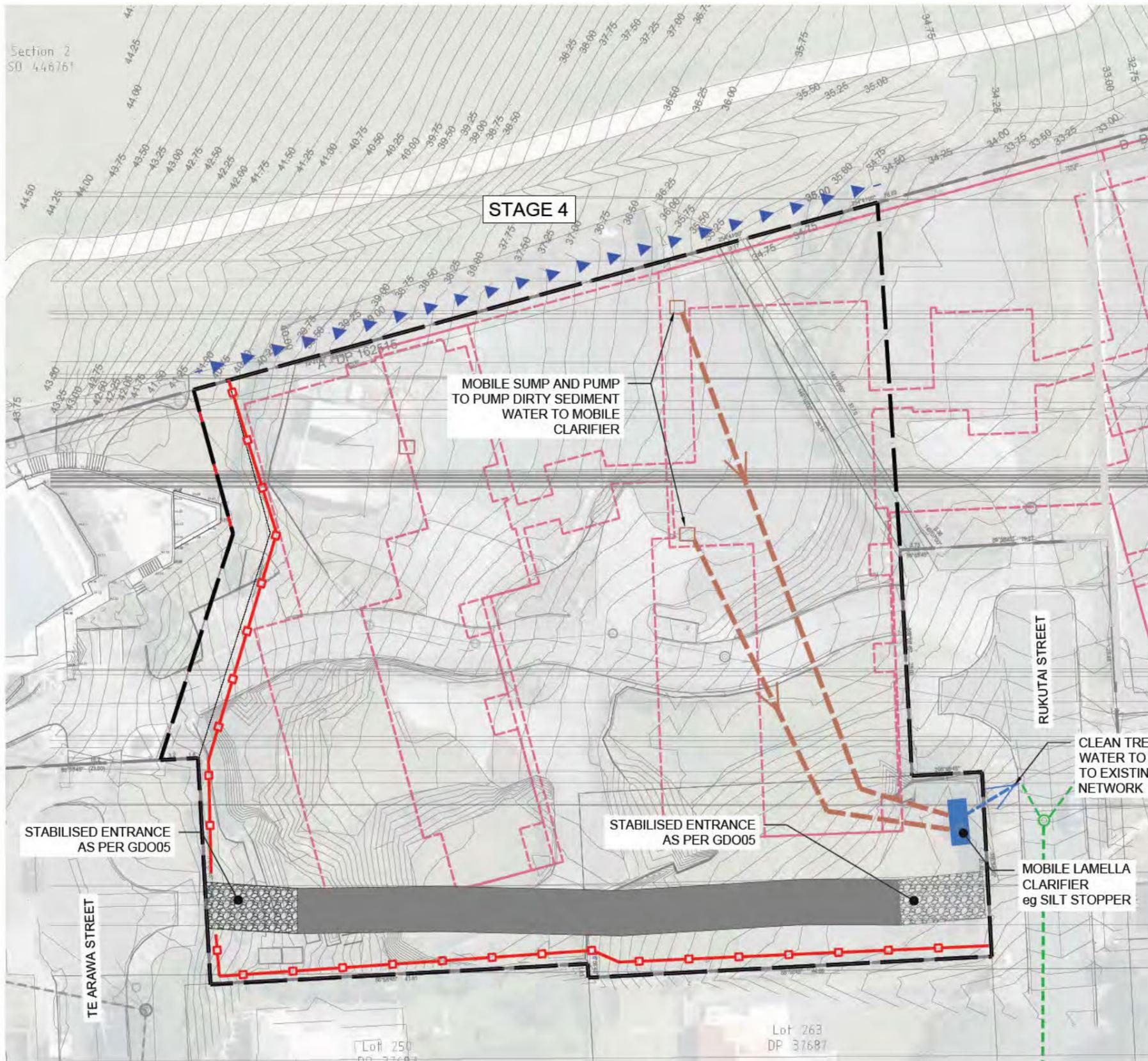
Drawing Title:
EROSION AND SEDIMENT CONTROL PLAN STAGE 2

Issue:
RESOURCE CONSENT

Scale @ A3:
1:500

Dwg No:
22064-C905

Rev:
C



| LEGEND | |
|--|--|
| STAGING AREA | |
| PROPOSED BUILDINGS | |
| PROPOSED PRIVATE SW | |
| PROPOSED PUBLIC SW | |
| PROPOSED SILT FENCE | |
| PROPOSED CLEAN WATER DIVERSION BUND | |
| PROPOSED DIRTY WATER DIVERSION BUND | |
| PROPOSED STABILISED CONSTRUCTION ENTRANCE | |
| MOBILE LAMELLA CLARIFIER EG SILT STOPPER (3.8m LONG x 2.0m WIDE x 2.4m HIGH) | |
| TREATED CLEAN WATER FROM CLARIFIER TO DRAIN TO SW NETWORK | |
| MOBILE SUMP AND PUMP TO PUMP DIRTY SEDIMENT LADEN WATER TO MOBILE CLARIFIER | |



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|------------------|-------|----------|----------|------------|
| A | RESOURCE CONSENT | VK | RC | KA | 28-08-2025 |
| B | RESOURCE CONSENT | VK | RC | KA | 07-11-2025 |
| C | RESOURCE CONSENT | VK | RC | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP LTD

Project:
THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND

Drawing Title:
EROSION AND SEDIMENT CONTROL PLAN STAGE 4

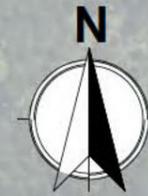
Issue:
RESOURCE CONSENT

Scale @ A3:
1:500

Dwg No:
22064-C906

Rev:
C

TAKAPARAWHAU
MICHAEL JOSEPH SAVAGE MEMORIAL PARK



SITE AREA

COMPACTED
HARDFILL

CONCRETE
PADS

BUILDING

BUILDING

ROADS &
PATHS

AOTEA STREET

RUKUTAI STREET

KUPE STREET

0 10 20 30 40

Do Not Scale For Construction

SITE AREA = 17,513m²
 TOTAL IMPERVIOUS AREA = 9,390m² (54%)
 ROOF = 1,180m²
 PAVED/HARDFILL = 8,210m²
 LANDSCAPE = 8123m² (46%)



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|----------------------|-------|----------|----------|------------|
| A | FOR RESOURCE CONSENT | VK | DH | KA | 22-08-2025 |
| B | FOR RESOURCE CONSENT | VK | DH | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP

Project:
**THE POINT, 217 KUPE STREET
MISSION BAY, AUCKLAND**

Drawing Title:
**PRE-DEVELOPMENT
CATCHMENT / COVERAGE
PLAN**

Issue:
RESOURCE CONSENT

Scale @ A3:
1:1000

Dwg No:
22064-C910

Rev:
B

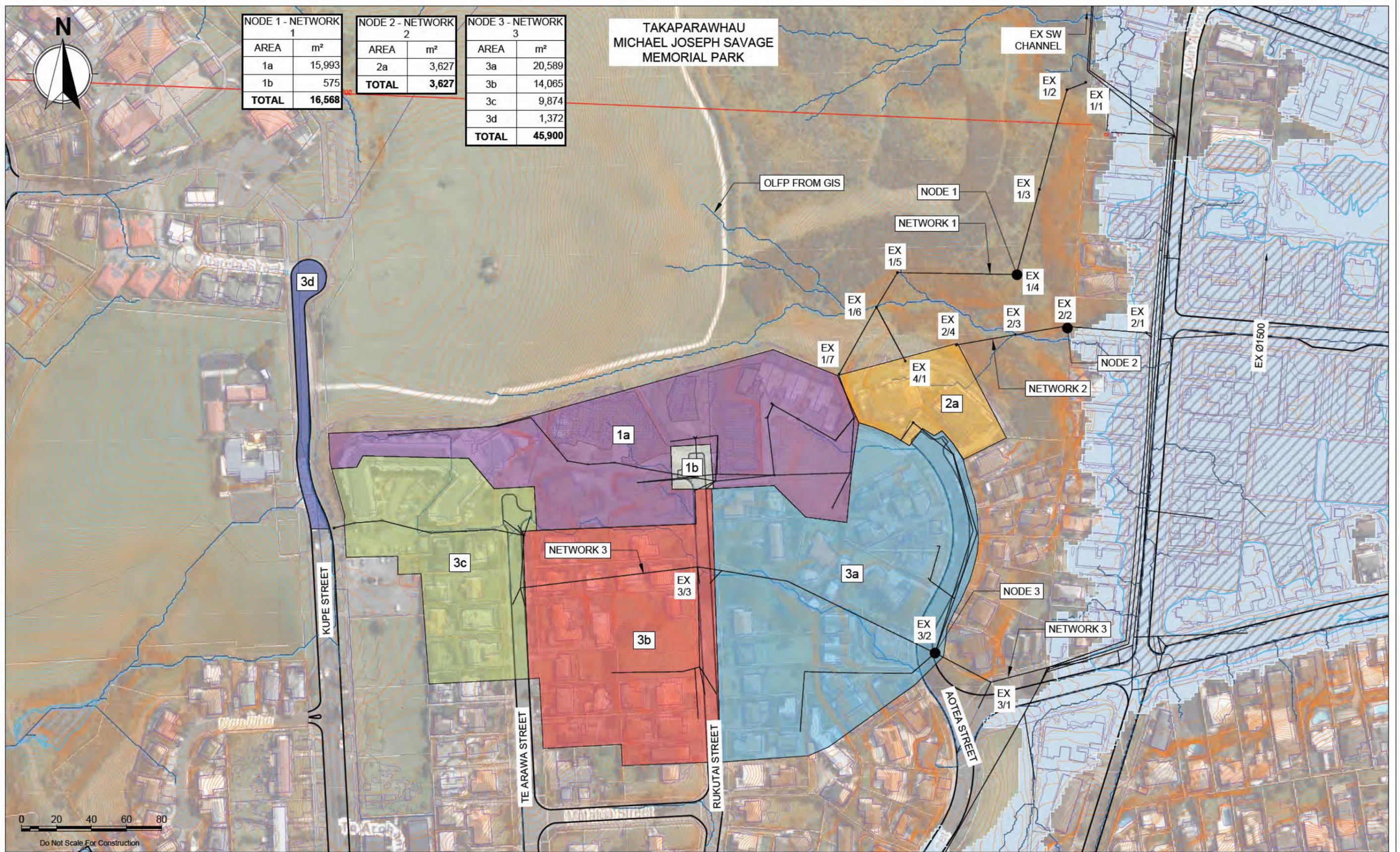


| NODE 1 - NETWORK 1 | |
|--------------------|----------------|
| AREA | m ² |
| 1a | 15,993 |
| 1b | 575 |
| TOTAL | 16,568 |

| NODE 2 - NETWORK 2 | |
|--------------------|----------------|
| AREA | m ² |
| 2a | 3,627 |
| TOTAL | 3,627 |

| NODE 3 - NETWORK 3 | |
|--------------------|----------------|
| AREA | m ² |
| 3a | 20,589 |
| 3b | 14,065 |
| 3c | 9,874 |
| 3d | 1,372 |
| TOTAL | 45,900 |

**TAKAPARAWHA
MICHAEL JOSEPH SAVAGE
MEMORIAL PARK**



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|----------------------|-------|----------|----------|------------|
| A | FOR RESOURCE CONSENT | VK | DH | KA | 11-11-2025 |



Client:
GENERUS LIVING GROUP

Project:
**THE POINT, 217 KUPE STREET
MISSION BAY, AUCKLAND**

Drawing Title:
**PRE-DEVELOPMENT
10% AEP CATCHMENT PLAN**

Issue:
RESOURCE CONSENT

Scale @ A3:
1:2000

| | |
|------------------------------|------------------|
| Dwg No: 22064-C917 | Rev: A |
|------------------------------|------------------|

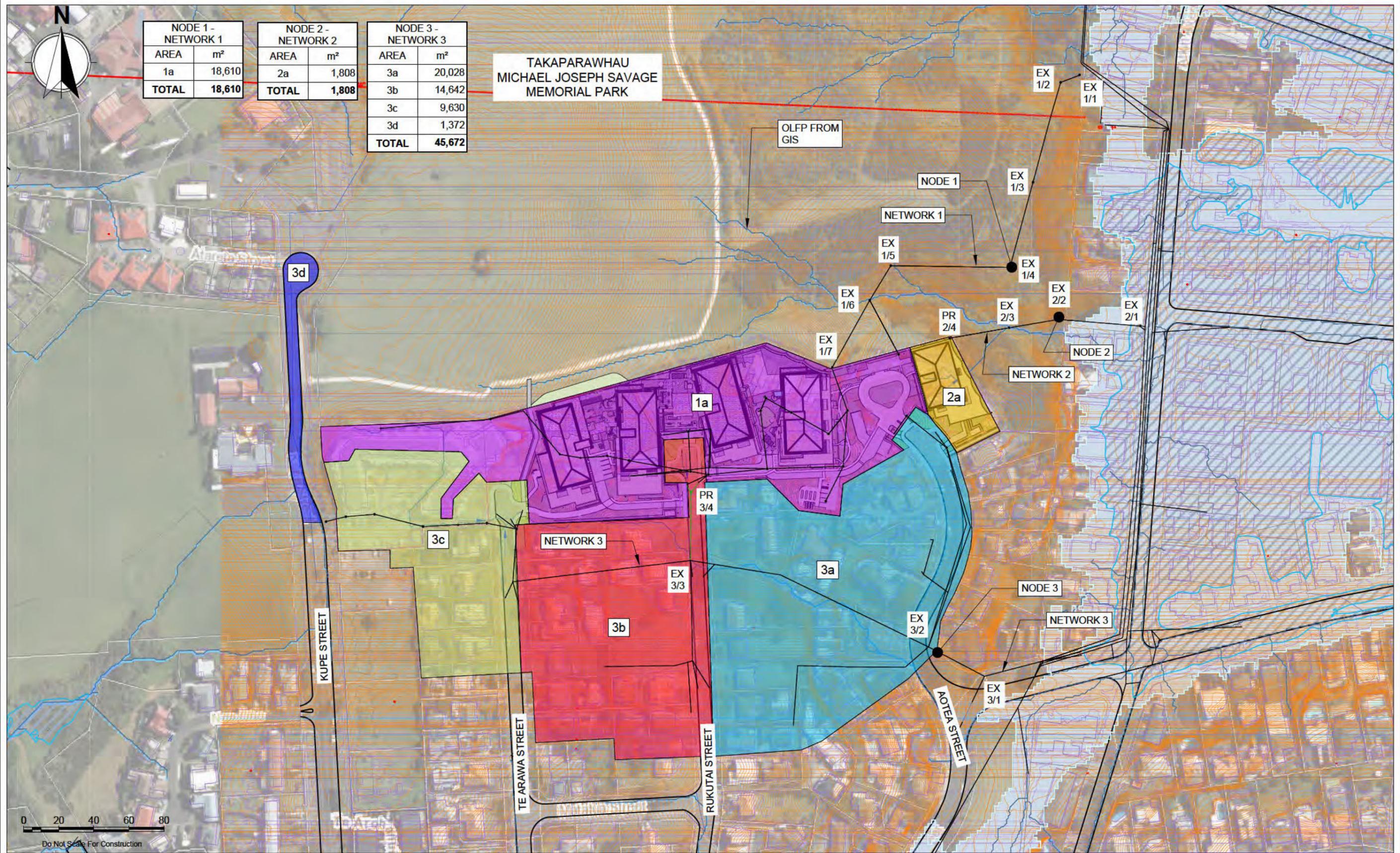


| NODE 1 - NETWORK 1 | |
|--------------------|----------------|
| AREA | m ² |
| 1a | 18,610 |
| TOTAL | 18,610 |

| NODE 2 - NETWORK 2 | |
|--------------------|----------------|
| AREA | m ² |
| 2a | 1,808 |
| TOTAL | 1,808 |

| NODE 3 - NETWORK 3 | |
|--------------------|----------------|
| AREA | m ² |
| 3a | 20,028 |
| 3b | 14,642 |
| 3c | 9,630 |
| 3d | 1,372 |
| TOTAL | 45,672 |

TAKAPARAWHAU
MICHAEL JOSEPH SAVAGE
MEMORIAL PARK



0 20 40 60 80
Do Not Scale For Construction



Revision History:

| Rev | Description | Drawn | Designed | Approved | Date |
|-----|----------------------|-------|----------|----------|------------|
| A | FOR RESOURCE CONSENT | VK | DH | KA | 11-11-2025 |
| B | FOR RESOURCE CONSENT | VK | DH | KA | 13-11-2025 |



Client:
GENERUS LIVING GROUP

Project:
**THE POINT, 217 KUPE STREET
MISSION BAY, AUCKLAND**

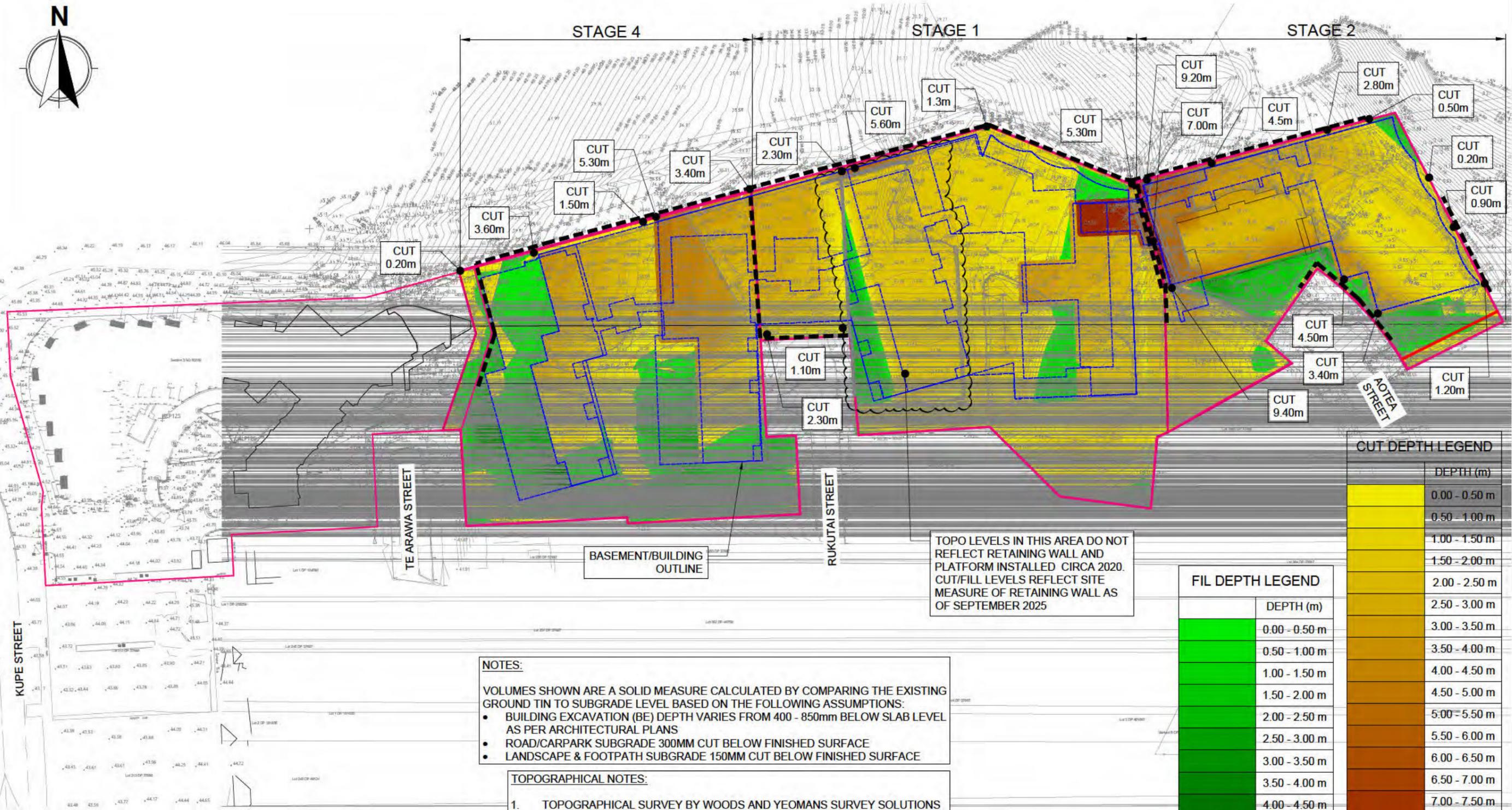
Drawing Title:
**POST-DEVELOPMENT
10% AEP CATCHMENT PLAN**

Issue:
RESOURCE CONSENT

Scale @ A3:
1:2000

Dwg No:
22064-C918

Rev:
B



CUT DEPTH LEGEND

| DEPTH (m) |
|---------------|
| 0.00 - 0.50 m |
| 0.50 - 1.00 m |
| 1.00 - 1.50 m |
| 1.50 - 2.00 m |
| 2.00 - 2.50 m |
| 2.50 - 3.00 m |
| 3.00 - 3.50 m |
| 3.50 - 4.00 m |
| 4.00 - 4.50 m |
| 4.50 - 5.00 m |
| 5.00 - 5.50 m |
| 5.50 - 6.00 m |
| 6.00 - 6.50 m |
| 6.50 - 7.00 m |
| 7.00 - 7.50 m |
| 7.50 - 8.00 m |
| 8.00 - 8.50 m |
| 8.50 - 9.00 m |
| 9.00 - 9.50 m |

FIL DEPTH LEGEND

| DEPTH (m) |
|---------------|
| 0.00 - 0.50 m |
| 0.50 - 1.00 m |
| 1.00 - 1.50 m |
| 1.50 - 2.00 m |
| 2.00 - 2.50 m |
| 2.50 - 3.00 m |
| 3.00 - 3.50 m |
| 3.50 - 4.00 m |
| 4.00 - 4.50 m |
| 4.50 - 5.00 m |
| 5.00 - 5.50 m |
| 5.50 - 6.00 m |
| 6.50 - 7.00 m |

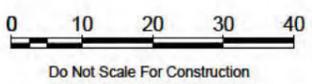
TOPO LEVELS IN THIS AREA DO NOT REFLECT RETAINING WALL AND PLATFORM INSTALLED CIRCA 2020. CUT/FILL LEVELS REFLECT SITE MEASURE OF RETAINING WALL AS OF SEPTEMBER 2025

- NOTES:**
- VOLUMES SHOWN ARE A SOLID MEASURE CALCULATED BY COMPARING THE EXISTING GROUND TIN TO SUBGRADE LEVEL BASED ON THE FOLLOWING ASSUMPTIONS:
 - BUILDING EXCAVATION (BE) DEPTH VARIES FROM 400 - 850mm BELOW SLAB LEVEL AS PER ARCHITECTURAL PLANS
 - ROAD/CARPARK SUBGRADE 300MM CUT BELOW FINISHED SURFACE
 - LANDSCAPE & FOOTPATH SUBGRADE 150MM CUT BELOW FINISHED SURFACE

- TOPOGRAPHICAL NOTES:**
- TOPOGRAPHICAL SURVEY BY WOODS AND YEOMANS SURVEY SOLUTIONS
 - THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE. ~ 802876.480mN 405586.952mE
 - THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415, SO53199" (GD CODE CBG6), RL = 14.83m, SOURCED FROM LINZ DATABASE.

EARTHWORKS SUMMARY - TOTAL

| | |
|-----------------|-------------------------|
| EARTHWORKS AREA | = 17,589 m ² |
| CUT VOLUME | = 25,150 m ³ |
| FILL VOLUME | = 4,690 m ³ |
| BALANCE (CUT) | = 20,460 m ³ |



| Revision History: | | Drawn | Designed | Approved | Date |
|-------------------|----------------------|-------|----------|----------|------------|
| Rev | Description | VK | DH | KA | 22-08-2025 |
| A | FOR RESOURCE CONSENT | VK | DH | KA | 07-11-2025 |
| B | FOR RESOURCE CONSENT | | | | |



Client: **GENERUS LIVING GROUP LTD**

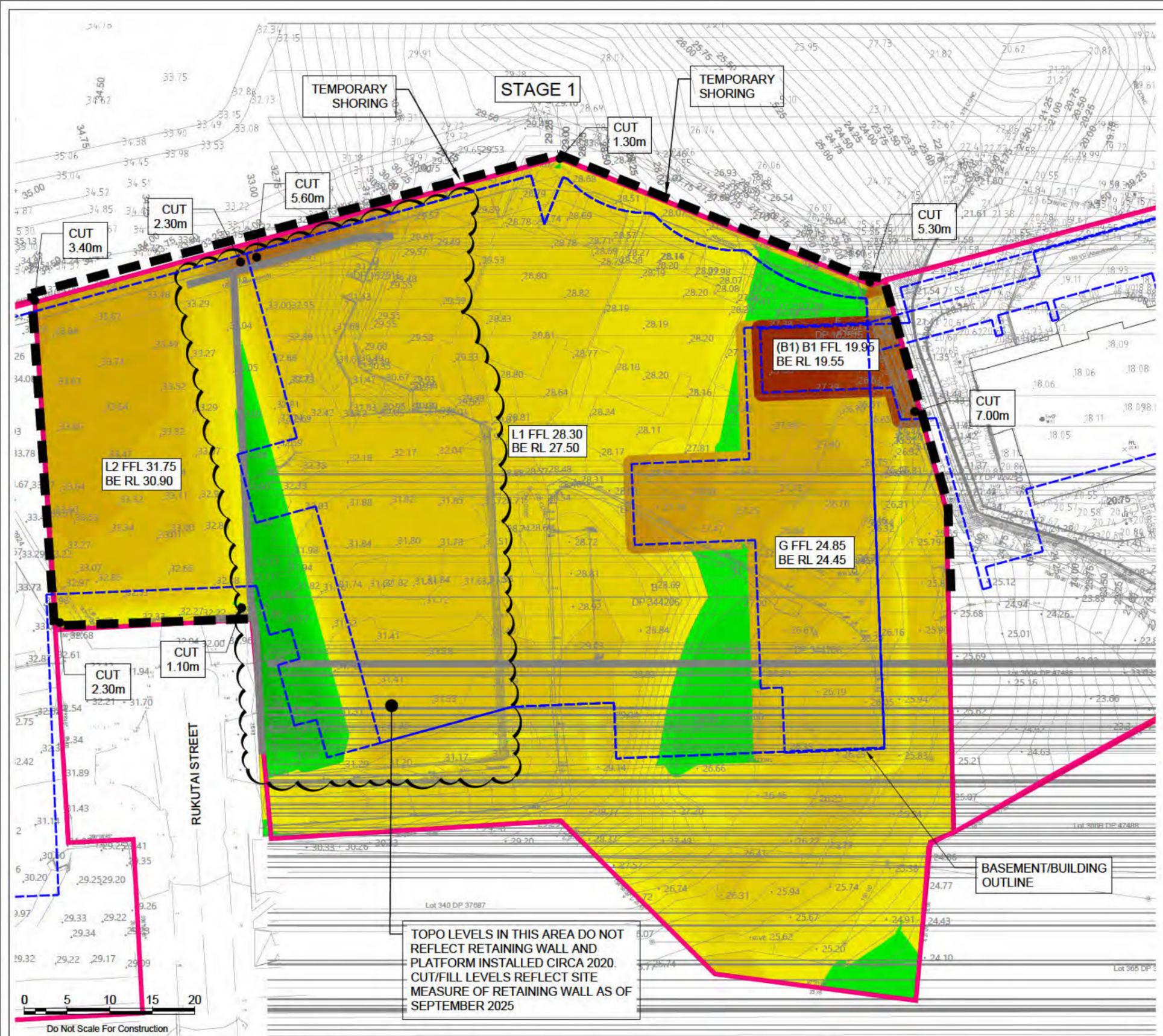
Project: **THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND**

Drawing Title: **BULK EARTHWORKS PLAN OVERALL**

Issue: **RESOURCE CONSENT**

Scale @ A3: **1:1000**

Dwg No: **22064-C921** Rev: **B**



| FIL DEPTH LEGEND | |
|------------------|---------------|
| | DEPTH (m) |
| | 0.00 - 0.50 m |
| | 0.50 - 1.00 m |
| | 1.00 - 1.50 m |
| | 1.50 - 2.00 m |
| | 2.00 - 2.50 m |
| | 2.50 - 3.00 m |
| | 3.00 - 3.50 m |
| | 3.50 - 4.00 m |
| | 4.00 - 4.50 m |
| | 4.50 - 5.00 m |
| | 5.00 - 5.50 m |
| | 5.50 - 6.00 m |
| | 6.50 - 7.00 m |

| CUT DEPTH LEGEND | |
|------------------|---------------|
| | DEPTH (m) |
| | 0.00 - 0.50 m |
| | 0.50 - 1.00 m |
| | 1.00 - 1.50 m |
| | 1.50 - 2.00 m |
| | 2.00 - 2.50 m |
| | 2.50 - 3.00 m |
| | 3.00 - 3.50 m |
| | 3.50 - 4.00 m |
| | 4.00 - 4.50 m |
| | 4.50 - 5.00 m |
| | 5.00 - 5.50 m |
| | 5.50 - 6.00 m |
| | 6.00 - 6.50 m |
| | 6.50 - 7.00 m |
| | 7.00 - 7.50 m |
| | 7.50 - 8.00 m |
| | 8.00 - 8.50 m |
| | 8.50 - 9.00 m |
| | 9.00 - 9.50 m |

| EARTHWORKS SUMMARY - STAGE 1 | |
|------------------------------|----------------------|
| EARTHWORKS AREA = | 7,325m ² |
| CUT VOLUME = | 10,900m ³ |
| FILL VOLUME = | 550m ³ |
| BALANCE (CUT) = | 10,350m ³ |

NOTES:

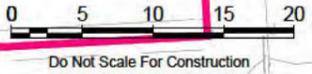
VOLUMES SHOWN ARE A SOLID MEASURE CALCULATED BY COMPARING THE EXISTING GROUND TIN TO SUBGRADE LEVEL BASED ON THE FOLLOWING ASSUMPTIONS:

- BUILDING EXCAVATION (BE) DEPTH VARIES FROM 400 - 850mm BELOW SLAB LEVEL AS PER ARCHITECTURAL PLANS
- ROAD/CARPARK SUBGRADE 300MM CUT BELOW FINISHED SURFACE
- LANDSCAPE & FOOTPATH SUBGRADE 150MM CUT BELOW FINISHED SURFACE

TOPOGRAPHICAL NOTES:

- TOPOGRAPHICAL SURVEY BY WOODS AND YEOMANS SURVEY SOLUTIONS
- THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE. ~ 802876.480mN 405586.952mE
- THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415, SO53199" (GD CODE CBG6), RL = 14.83m, SOURCED FROM LINZ DATABASE.

TOPO LEVELS IN THIS AREA DO NOT REFLECT RETAINING WALL AND PLATFORM INSTALLED CIRCA 2020. CUT/FILL LEVELS REFLECT SITE MEASURE OF RETAINING WALL AS OF SEPTEMBER 2025



| Revision History: | | | | | |
|-------------------|----------------------|-------|----------|----------|------------|
| Rev | Description | Drawn | Designed | Approved | Date |
| A | FOR RESOURCE CONSENT | VK | DH | KA | 22-08-2025 |
| B | FOR RESOURCE CONSENT | VK | DH | KA | 07-11-2025 |



Client: **GENERUS LIVING GROUP LTD**

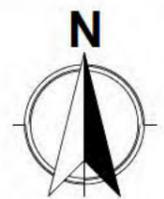
Project: **THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND**

Drawing Title: **BULK EARTHWORKS PLAN STAGE 1**

Issue: **RESOURCE CONSENT**

Scale @ A3: **1:500**

Dwg No: **22064-C922** Rev: **B**



| FIL DEPTH LEGEND | |
|------------------|---------------|
| | DEPTH (m) |
| | 0.00 - 0.50 m |
| | 0.50 - 1.00 m |
| | 1.00 - 1.50 m |
| | 1.50 - 2.00 m |
| | 2.00 - 2.50 m |
| | 2.50 - 3.00 m |
| | 3.00 - 3.50 m |
| | 3.50 - 4.00 m |
| | 4.00 - 4.50 m |
| | 4.50 - 5.00 m |
| | 5.00 - 5.50 m |
| | 5.50 - 6.00 m |
| | 6.50 - 7.00 m |

| CUT DEPTH LEGEND | |
|------------------|---------------|
| | DEPTH (m) |
| | 0.00 - 0.50 m |
| | 0.50 - 1.00 m |
| | 1.00 - 1.50 m |
| | 1.50 - 2.00 m |
| | 2.00 - 2.50 m |
| | 2.50 - 3.00 m |
| | 3.00 - 3.50 m |
| | 3.50 - 4.00 m |
| | 4.00 - 4.50 m |
| | 4.50 - 5.00 m |
| | 5.00 - 5.50 m |
| | 5.50 - 6.00 m |
| | 6.00 - 6.50 m |
| | 6.50 - 7.00 m |
| | 7.00 - 7.50 m |
| | 7.50 - 8.00 m |
| | 8.00 - 8.50 m |
| | 8.50 - 9.00 m |
| | 9.00 - 9.50 m |

| EARTHWORKS SUMMARY - STAGE 2 | |
|------------------------------|------------------------|
| EARTHWORKS AREA | = 4,327 m ² |
| CUT VOLUME | = 7,800 m ³ |
| FILL VOLUME | = 660 m ³ |
| BALANCE (CUT) | = 7,140 m ³ |

NOTES:

VOLUMES SHOWN ARE A SOLID MEASURE CALCULATED BY COMPARING THE EXISTING GROUND TIN TO SUBGRADE LEVEL BASED ON THE FOLLOWING ASSUMPTIONS:

- BUILDING EXCAVATION (BE) DEPTH VARIES FROM 400 - 850mm BELOW SLAB LEVEL AS PER ARCHITECTURAL PLANS
- ROAD/CARPARK SUBGRADE 300MM CUT BELOW FINISHED SURFACE
- LANDSCAPE & FOOTPATH SUBGRADE 150MM CUT BELOW FINISHED SURFACE

TOPOGRAPHICAL NOTES:

- TOPOGRAPHICAL SURVEY BY WOODS AND YEOMANS SURVEY SOLUTIONS THE SURVEY IS IN TERMS OF GEODETIC DATUM 2000, MT EDEN CIRCUIT. THE ORIGIN OF COORDINATES IS "SM 4415 SO 53199" (GD CODE CBG6), SOURCED FROM LINZ DATABASE. ~ 802876.480mN 405586.952mE
- THE ORIGIN OF LEVELS IS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946, ORIGIN OF LEVEL IS "SM 4415, SO53199" (GD CODE CBG6), RL = 14.83m, SOURCED FROM LINZ DATABASE.



| Revision History: | | | | | |
|-------------------|----------------------|-------|----------|----------|------------|
| Rev | Description | Drawn | Designed | Approved | Date |
| A | FOR RESOURCE CONSENT | VK | DH | KA | 22-08-2025 |
| B | FOR RESOURCE CONSENT | VK | DH | KA | 07-11-2025 |



Client:
GENERUS LIVING GROUP LTD

Project:
THE POINT, 217 KUPE STREET MISSION BAY, AUCKLAND

Drawing Title:
BULK EARTHWORKS PLAN STAGE 2

Issue:
RESOURCE CONSENT

Scale @ A3:
1:500

Dwg No:
22064-C923

Rev:
B