ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

ISO 9001 QUALITY ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:

1. ORIGIN OF LEVELS
   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

- EARTHWORKS BOUNDARY
- STAGE 16 BOUNDARY
- 55.0 CONTOUR MAJOR AT 1.0m INTERVALS
- 55.5 CONTOUR MINOR AT 0.2m INTERVALS

ENGINEERING APPROVAL
ENG-60397590

HUGH GREEN LIMITED

HUGH GREEN GROUP

AUCKLAND OFFICE
LEVEL 4, 96 ST GEORGES BAY ROAD
PARNELL AUCKLAND 1052
T +64 9 917 5000
W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	10.02.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

FINISHED CONTOURS
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 15.11.21	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 02.2023	SIGNED:	PLOT DATE: 15.11.21
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE: 02.2023

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00

SCALES: 1:500-A1, 1:1000-A3

A3

DRAWING No: A2111813.00-16-AB200

REV A

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

1. ORIGIN OF LEVELS
   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. EARTHWORKS VOLUMES :
   AREA = 21,559m²
   CUT VOLUME (UNADJUSTED) = 23,056m³
   FILL VOLUME (UNADJUSTED) = 2,736m³
   NET (UNADJUSTED) = 20,320m³
4. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

- CUT CONTOURS SHOWN AT 0.5m INTERVALS
- FILL CONTOURS SHOWN AT 0.5m INTERVALS
- EARTHWORKS BOUNDARY
- STAGE 16 BOUNDARY

ENGINEERING APPROVAL
ENG-60397590

HUGH GREEN LIMITED

HUGH GREEN GROUP

AUCKLAND OFFICE
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PARNELL AUCKLAND 1052
T +64 9 917 5000
W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	10.02.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

CUT AND FILL
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 15.11.21	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 02.2023	SIGNED:	PLOT DATE: 15.11.21
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE: 02.2023

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00

SCALES: 1:500-A1, 1:1000-A3

A3

DRAWING No: A2111813.00-16-AB220

REV A

COORDINATE SCHEDULE - SIGNS			
SIGN	mN	mE	TYPE
SIGN 1	5905377.50	1770822.27	PW-39 HUMP
SIGN 2	5905367.31	1770828.81	PW-39 HUMP
SIGN 3	5905361.93	1770865.15	PW-68 CHEVRON
SIGN 4	5905300.13	1770783.73	SN-1 STREET NAME BLADE (KNOCKANARA DRIVE)
SIGN 5	5905300.13	1770783.73	SN-1 STREET NAME BLADE (CROSSGAR ROAD)
SIGN 6	5905172.43	1770827.24	PW-39 HUMP
SIGN 7	5905172.43	1770827.24	PW-29 PEDESTRIAN
SIGN 8	5905172.43	1770827.24	PW-65 BEACON DISC
SIGN 9	5905210.12	1770834.00	PW-65 BEACON DISC
SIGN 10	5905210.12	1770834.00	RG-6 GIVE WAY
SIGN 11	5905213.08	1770817.04	PW-39 HUMP
SIGN 12	5905213.08	1770817.04	PW-29 PEDESTRIAN
SIGN 13	5905200.17	1770844.76	SN-1 STREET NAME BLADE (KOROMEKE STREET)
SIGN 14	5905200.17	1770844.76	SN-1 STREET NAME BLADE (KNOCKANARA DRIVE)
SIGN 15	5905211.31	1770846.62	PW-65 BEACON DISC
SIGN 16	5905234.92	1770852.26	PW-39 HUMP
SIGN 17	5905234.92	1770852.26	PW-29 PEDESTRIAN
SIGN 18	5905296.96	1770800.13	RG-6 GIVE WAY

ACENZ ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

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   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE

LEGEND:

- STAGE 16 BOUNDARY
- NEW/EXISTING STREETLIGHT
- NO STOPPING/NO PASSING LINES
- ROAD SIGN / STREET NAME SIGN
- NEW BUS SPEED TABLE (TC0023)
- NEW RAISED INTERSECTION (TC0030)
- NEW PRAM CROSSING
- NEW BIOSWALE
- NEW STREET TREES
- EXISTING STREET TREES
- NON-REMOVABLE AND REMOVABLE BOLLARD

ENGINEERING APPROVAL
ENG-60397590

I CERTIFY THAT THESE AS-BUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

- THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD (2000), AND ARE WITHIN ±50mm.
- THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN THE FOLLOWING TOLERANCES:
  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: *Stephen James Wardle*

Signed: .....
Licensed Cadastral Surveyor

Registration Number: *1000280* Date: *14/02/2023*

Phone: *022 699 4295*

Email: *S.Wardle@harrisongrierson.com*

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W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
B	AS-BUILT	WXK	23.03.23
A	AS-BUILT	WXK	22.03.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16A
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERALL ROADING
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 01.2023	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 02.2023	SIGNED:	PLOT DATE: 23.03.23
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00

SCALES: 1:500 - A1, 1:1000 - A3

A3

DRAWING No: A2111813.00-16-AB300

REV B

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

1. ORIGIN OF LEVELS
   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. AS-BUILT INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.
4. REFER TO DRAWING A2111813.00-16-AB300 FOR PAVEMENT CROSS-SECTION AS-BUILT PLAN.

LEGEND:

STAGE 16 BOUNDARY

300mm BLACK SAND (UNDERCUT)
230mm 4% CEMENT GAP 65 (SUBBASE)
215mm AP 40 (BASECOURSE)

300mm BLACK SAND (UNDERCUT)
200mm GAP 65 (SUBBASE)
180mm AP 40 (BASECOURSE)

ENGINEERING APPROVAL
ENG-60397590

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  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: *Stephen James Wardle*

Signed: .....
Licensed Cadastral Surveyor

Registration Number: *1000280* Date: *14/02/2023*

Phone: *022 699 4295*

Email: *S.Wardle@harrisongrierson.com*

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W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
B	AS-BUILT	WXK	23.03.23
A	AS-BUILT	WXK	22.03.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16A
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

ROADING PAVEMENT
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 01.2023	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 02.2023	SIGNED:	PLOT DATE: 23.03.23
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00

SCALES: 1:500 - A1
1:1000 - A3

A3

DRAWING No: A2111813.00-16-AB310

REV B

COORDINATE SCHEDULE - STREETLIGHTS		
POINT	mN	mE
SL01	5905381.53	1770808.73
SL02	5905368.13	1770824.88
SL03	5905276.61	1770790.96
SL04	5905248.53	1770857.27
SL05	5905281.69	1770863.70
SL06	5905300.87	1770837.34
SL07	5905308.34	1770800.96
SL08	5905215.18	1770837.54

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. AS-BUILT INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

- STAGE BOUNDARY
- NEW STREETLIGHT
- EXISTING STREETLIGHT

ENGINEERING APPROVAL
ENG-60397590

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  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: *Stephen James Wardle*
Signed: .....
Licensed Cadastral Surveyor
Registration Number: *1000280* Date: *14/02/2023*
Phone: *022 699 4295*
Email: *S.Wardle@harrisongrierson.com*

HUGH GREEN LIMITED

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W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
B	AS-BUILT	WXK	23.03.23
A	AS-BUILT	WXK	17.03.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16A
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

STREETLIGHTS
AND COORDINATE SCHEDULE
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 01.2023	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 01.2023	SIGNED:	PLOT DATE: 23.03.23
CHECKED: KKA	DATE: 01.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 01.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00
SCALES: 1:500 - A1, 1:1000 - A3
A3

DRAWING No: A2111813.00-16-AB320
REV B

A / AB310 TYPICAL CROSS SECTION - BUSHFIELD DRIVE CH 646 TO CH 739

SCALE 1:50 -A1
1:100 -A3

B / AB310 TYPICAL CROSS SECTION - ROAD 1: CH 08 TO CH 155

SCALE 1:50 -A1
1:100 -A3

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

1. REFER TO DRAWING A2111813.00-16-AB310 FOR OVERALL PAVEMENT AS-BUILT PLAN.

ENGINEERING APPROVAL
ENG-60397590

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Name: *Stephen James Wardle*

Signed: .....
Licensed Cadastral Surveyor

Registration Number: *1000280* Date: *14/02/2023*

Phone: *022 699 4295*

Email: *S.Wardle@harrisongrierson.com*

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REF	REVISIONS	BY	DATE
B	AS-BUILT	WXK	23.03.23
A	AS-BUILT	WXK	22.03.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16A
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

TYPICAL ROAD CROSS-SECTIONS
AS-BUILT PLAN

ORIGINATOR: WXK	DATE: 09.2021	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 02.2023	SIGNED:	PLOT DATE: 23.03.23
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00 | SCALES: AS SHOWN | A3

DRAWING No: A2111813.00-16-AB330 | REV B

1 AS-BUILT DETAIL
SCALE NTS

2 AS-BUILT DETAIL
SCALE NTS

COORDINATE SCHEDULE - MANHOLES, CATCHPITS, AND SCRUFFY DOMES

MH No.	mE	mN	Lid Level
EX 1/7	1770780.74	5905376.91	51.65
1/1	1770788.65	5905375.02	51.76
1/2	1770855.49	5905360.27	52.92
2/1	1770773.64	5905346.66	53.13
2/2	1770795.63	5905311.17	55.25
2/3	1770858.25	5905296.43	56.91
2/4	1770866.25	5905285.81	57.19
2/5	1770862.10	5905267.75	57.65
2/6	1770850.84	5905221.40	59.31
3/1	1770796.63	5905295.84	55.58
3/2	1770783.55	5905239.99	58.25
4/1	1770849.26	5905270.55	57.67
4/2	1770838.73	5905226.99	59.28
DCP 1	1770800.87	5905305.71	55.17
DCP 2	1770802.39	5905298.08	55.38
SD01	1770811.23	5905305.77	-
SD02	1770805.84	5905296.96	-
SD03	1770848.67	5905261.06	-
SD04	1770858.31	5905259.93	-

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NOTES:

1. ORIGIN OF LEVELS
   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. ALL CONNECTIONS ARE DN 100 uPVC. CHAINAGE FOR CONNECTIONS ARE FROM DOWNSTREAM MANHOLE CENTRE.
4. ALL STORMWATER LINES ARE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
5. ALL CATCHPIT LEADS ARE RCRRJ CLASS 4.
6. ALL NEW MANHOLES ARE DN 1050 RC UNLESS SHOWN OTHERWISE.
7. ALL SCRUFFY DOMES ARE HYNDS DN600.

LEGEND:

- NEW PUBLIC STORMWATER LINE & MH
- NEW PUBLIC DOUBLE CATCHPIT
- NEW LOT CONNECTION
- EXISTING LOT CONNECTION
- EXISTING SW LINE, MH AND CP
- NEW BIOSWALE SUBSOIL DRAIN
- STAGE BOUNDARY
- NEW PUBLIC BIOSWALE
- NEW PUBLIC SCRUFFY DOME

ENGINEERING APPROVAL
ENG-60397590

I CERTIFY THAT THESE AS-BUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

- THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD (2000), AND ARE WITHIN ±50mm.
- THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN THE FOLLOWING TOLERANCES:
  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: Stephen James Wardle
Signed: .....
Registered Professional Surveyor / Licensed Cadastral Surveyor
Registration Number: 1000280 Date: 10/02/2023
Phone: 022 699 4295
Email: S.Wardle@harrisongrierson.com

HUGH GREEN GROUP

HUGH GREEN LIMITED

AUCKLAND OFFICE
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W www.harrisongrierson.com

REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	10.02.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERALL STORMWATER
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 09.2021	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 11.2022	SIGNED:	PLOT DATE: 10.02.23
CHECKED: KKA	DATE: 11.2022	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 12.2022	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00
SCALES: 1:500 - A1, 1:1000 - A3
A3

DRAWING No: A2111813.00-16-AB400
REV A

1 - AS-BUILT DETAIL
SCALE NTS

2 - AS-BUILT DETAIL
SCALE NTS

COORDINATE SCHEDULE - MANHOLES

MH No.	mE	mN	Lid Level
EX F/1	1770783.02	5905374.40	51.98
A/1	1770785.17	5905372.70	51.87
A/2	1770851.37	5905357.94	52.97
B/1	1770777.43	5905347.00	53.33
B/2	1770794.60	5905315.27	55.21
B/3	1770822.58	5905308.64	56.17
EX G/1	1770799.70	5905292.92	56.12
C/1	1770844.47	5905282.27	56.86
C/2	1770846.94	5905277.82	57.54
C/3	1770835.64	5905230.15	59.34
D/1	1770866.79	5905271.53	57.63
D/2	1770855.14	5905223.47	59.42
E/1	1770787.63	5905241.55	58.32

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

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   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. ALL CONNECTIONS ARE DN 100 uPVC. CHAINAGE FOR CONNECTIONS ARE FROM DOWNSTREAM MANHOLE CENTRE.
4. ALL WASTEWATER LINES ARE PVC-U SN16 UNLESS SHOWN OTHERWISE.

LEGEND:

- STAGE BOUNDARY
- NEW PUBLIC WASTEWATER LINE
- EXISTING PUBLIC WASTEWATER LINE
- NEW PRIVATE LOT CONNECTION
- NEW PUBLIC MANHOLE
- EXISTING PUBLIC MANHOLE

ENGINEERING APPROVAL
ENG-60397590

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  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: *Stephen James Wardle*

Signed: .....
Licensed Cadastral Surveyor

Registration Number: *1000280* Date: *14/02/2023*

Phone: *022 699 4295*

Email: *S.Wardle@harrisongrierson.com*

HUGH GREEN LIMITED

HUGH GREEN GROUP

AUCKLAND OFFICE
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REF	REVISIONS	BY	DATE
C	AS-BUILT	WXK	24.03.23
B	AS-BUILT	WXK	10.02.22
A	AS-BUILT	WXK	29.11.22

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERALL WASTEWATER
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 09.2021	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 11.2022	SIGNED:	PLOT DATE: 24.03.23
CHECKED: DAS	DATE: 12.2022	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 12.2022	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00 | SCALES: 1:500 - A1, 1:1000 - A3 | A3

DRAWING No: A2111813.00-16-AB405 | REV C

A 470 BUSHFIELD DRIVE OLFP CROSS SECTION A-A

SCALE 1:50-A1
1:100-A3

B 470 KNOCKANARA DRIVE OLFP CROSS SECTION B-B

SCALE 1:50-A1
1:100-A3

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

1. LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946

   ORIGIN OF LEVELS
   SS 66 SO 48643
   RL 54.50

2. CATCHMENT AREAS AND DISCHARGE FLOWS INCORPORATE FUTURE OVERLAND FLOWPATH GENERATION FROM UPSTREAM DEVELOPMENT.

3. ALL FLOWPATHS ARE WITHIN THE LEGAL ROAD WIDTH.

LEGEND

OVERLAND FLOWPATH LEVEL IN 1% AEP STORM EVENT

ENGINEERING APPROVAL
ENG-60397590

I CERTIFY THAT THESE AS-BUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

- THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD (2000), AND ARE WITHIN ±50mm.
- THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN THE FOLLOWING TOLERANCES:
  - FOR ALL PIPE INVERTS & ROADSIDE CHANNELS TO BE WITHIN ±10mm (LOCAL CIRCUIT I.E. INTERNAL/RELATIVE CONSISTENCY REQUIRED ONLY)
  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

Name: Stephen James Wardle
Signed: .....
Registered Professional Surveyor / Licensed Cadastral Surveyor
Registration Number: 1000280 Date: 10/02/2023
Phone: 022 699 4295
Email: S.Wardle@harrisongrierson.com

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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	25.01.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERLAND FLOW PATH
AS-BUILT CROSS SECTIONS
SHEET 1 OF 2

ORIGINATOR: WXK	DATE: 01.2020	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 25.01.23	SIGNED:	PLOT DATE: 15.02.23
CHECKED: WXK	DATE: 01.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 01.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00 | SCALES: AS SHOWN | A3

DRAWING No: A2111813.00-16-AB455 | REV A

C
470
RAISED TABLE INTERSECTION OLFP SECTION C-C
SCALE 1:50 - A1
1:100 - A3

Q
470
EXISTING OLFP CROSS SECTION Q-Q
SCALE 1:50-A1
1:100-A3

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NOTES:

1. LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946

   ORIGIN OF LEVELS
   SS 66 SO 48643
   RL 54.50

2. CATCHMENT AREAS AND DISCHARGE FLOWS INCORPORATE FUTURE OVERLAND FLOWPATH GENERATION FROM UPSTREAM DEVELOPMENT.

3. ALL FLOWPATHS ARE WITHIN THE LEGAL ROAD WIDTH.

LEGEND

OVERLAND FLOWPATH LEVEL IN 1% AEP STORM EVENT

ENGINEERING APPROVAL
ENG-60397590

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  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	25.01.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERLAND FLOW PATH
AS-BUILT CROSS SECTIONS
SHEET 2 OF 2

ORIGINATOR: WXK	DATE: 01.2020	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 25.01.23	SIGNED:	PLOT DATE: 15.02.23
CHECKED: WXK	DATE: 01.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 01.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00 | SCALES: AS SHOWN | A3

DRAWING No: A2111813.00-16-AB456 | REV A

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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LEGEND:

- STAGE 16 BOUNDARY
- NEW OVERLAND FLOWPATHS
- EXISTING OVERLAND FLOWPATHS
- NEW BIO-RETENTION SWALE

ENGINEERING APPROVAL
ENG-60397590

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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	27.01.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16A
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

100 YEAR OVERLAND FLOWPATH
OVERALL LAYOUT AS-BUILT PLAN

ORIGINATOR: WXK	DATE: 09.2021	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 01.2023	SIGNED:	PLOT DATE: 15.02.23
CHECKED: DAS	DATE: 01.2023	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 01.2023	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No:	SCALES:	
A2111813.00	1:500 - A1 1:1000 - A3	A3

DRAWING No: A2111813.00-16-AB470 REV A

STAGE 16 COORDINATE SCHEDULE		
POINT	mE	mN
BC01	1770851.91	5905360.13
FH01	1770850.43	5905360.47
FH02	1770866.79	5905283.17
EX FH03	1770776.60	5905354.62
EX FH04	1770782.65	5905231.15
EX FH05	1770849.54	5905206.61
SV01	1770777.10	5905356.39
SV02	1770776.06	5905352.70
SV03	1770819.24	5905306.84
SV04	1770818.76	5905305.94
SV05	1770782.90	5905233.18
SV06	1770782.10	5905229.18
SV07	1770850.12	5905214.27
SV08	1770849.78	5905213.99
PV01	1770814.43	5905291.39
PV02	1770816.17	5905291.39
PV03	1770835.18	5905217.81
PV04	1770834.99	5905217.12

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NOTES:

1. COORDINATE DATUM - NZ TRANSVERSE MERCATOR DATUM 2000.
2. ALL LOT CONNECTIONS ARE DN25.
3. NB 100-150mmØ PE 100, AS/NZS 4130 SERIES 1, COLOURED BLUE.

LEGEND:

- STAGE 16 BOUNDARY
- EXISTING PUBLIC WATERMAIN (180, 125, 63)
- PROPOSED PUBLIC DN180, DN125, AND DN63 PE WATERMAIN (180, 125, 63)
- PROPOSED PUBLIC FIRE HYDRANT
- PROPOSED PUBLIC SLUICE VALVE
- PROPOSED PUBLIC PEET VALVE
- PROPOSED PUBLIC BLANK CAP
- NEW PRIVATE WATER LOT CONN

ENGINEERING APPROVAL
ENG-60397590

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  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

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Registration Number: 1000280 Date: 10/02/2023
Phone: 022 699 4295
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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	29.11.22

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

OVERALL WATERMAIN
AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 09.2021	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 11.2022	SIGNED:	PLOT DATE: 15.02.23
CHECKED: DAS	DATE: 11.2022	SIGNED:	SURVEY BY:
APPROVED: DAS	DATE: 12.2022	SIGNED:	SURVEY DATE:

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00
SCALES: 1:500 - A1, 1:1000 - A3
A3

DRAWING No: A2111813.00-16-AB500
REV A

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NOTES:

1. ORIGIN OF LEVELS
   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

- STAGE BOUNDARY
- G — NEW GAS 50 PVC PIPE
- G — NEW GAS 100 PVC PIPE
- PW — NEW LV POWER
- NEW STREETLIGHT CABLE
- TUD — NEW POWER TUD
- NEW STREETLIGHT
- EXISTING STREETLIGHT
- LINK PILLAR
- NEW POWER CONNECTION

ENGINEERING APPROVAL
ENG-60397590

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Name: *Stephen James Wardle*
Signed: .....
Registered Professional Surveyor / Licensed Cadastral Surveyor
Registration Number: *1000280* Date: *10/02/2023*
Phone: *022 699 4295*
Email: *S.Wardle@harrisongrierson.com*

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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	02.02.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVENUE, FLAT BUSH

TITLE:

POWER AND GAS SERVICES
OVERALL AS-BUILT PLAN

ORIGINATOR: KKA	DATE: 01.2023	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 01.2023	SIGNED:	PLOT DATE: 10.02.23
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE: 11.2022

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00
SCALES: 1:500 - A1, 1:1000 - A3
A3

DRAWING No: A2111813.00-16-AB600
REV A

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

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   S 66 SO 48643
   RL 54.50m
2. ORIGIN OF COORDINATES
   S 66 SO 48643
   5905356.71mN
   1770941.22mE
3. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

- STAGE BOUNDARY
- 26wR 26wR — NEW TELECOMMUNICATIONS (26WAY RIBBONET)
- 12wR 12wR — NEW TELECOMMUNICATIONS (12WAY RIBBONET)
- 4wM 4wM — NEW TELECOMMUNICATIONS (4 WAY MICRONET DUCT)
- 1wR 1wR — NEW TELECOMMUNICATIONS (1 WAY MICRONET DUCT)
- NEW TELECOMMUNICATIONS (50 mmP MICRONET DUCT)
- 26wR 12wR 4wM 1wR — EXISTING TELECOMMUNICATION
- T — NEW TELECOM HAND HOLE
- NEW TELECOM CONNECTION

ENGINEERING APPROVAL
ENG-60397590

I CERTIFY THAT THESE AS-BUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

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  - FOR ALL OTHER ASSETS ±20mm (E.G. MANHOLE COVERS, EARTHWORKS)

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REF	REVISIONS	BY	DATE
A	AS-BUILT	WXK	02.02.23

PROJECT:

HUGH GREEN LIMITED
DONEGAL STAGE 16
36 TIR CONAILL AVE, FLATBUSH

TITLE:

TELECOMMUNICATION SERVICES
OVERALL AS-BUILT PLAN

ORIGINATOR: WXK	DATE: 08.07.21	SIGNED:	PLOT BY: WXK
DRAWN: WXK	DATE: 01.2023	SIGNED:	PLOT DATE: 10.02.23
CHECKED: DAS	DATE: 02.2023	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 02.2023	SIGNED:	SURVEY DATE: 11.2022

ISSUE STATUS: AS-BUILT

PROJECT No: A2111813.00
SCALES: 1:500-A1, 1:1000-A3
A3

DRAWING No: A2111813.00-16-AB605
REV A