



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. 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-60349136

THE LEVELS (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)

THE WORK 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 ±25mm.

Colyn

Name: CAMPBELL McGREGOR

Phone: 09-917-5000

Date: 21/12/2020



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

Α	AS-BUILT		DDS	21.12.20			
REF	REVISIONS		BY	DATE			
PRO.	PROJECT:						

HUGH GREEN LIMITED

DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

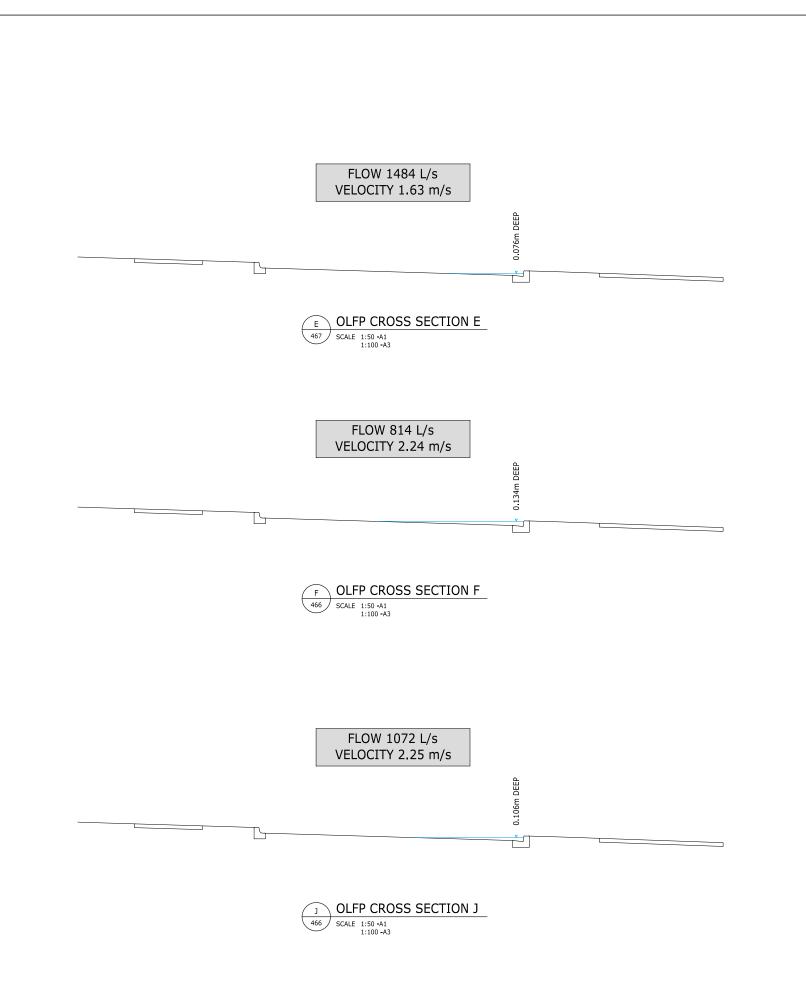
OVERLAND FLOW PATH AS-BUILT CROSS SECTIONS 1 OF 3

ORIGINATOR: DDS	DATE: 16.11.20	SIGNED:	PLOT BY: DDS		
DRAWN: JYW	DATE: 16.11.20	SIGNED:	PLOT DATE: 21.12.20		
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY:		
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 08.2020		
ISSUE STATU	ISSUE STATUS:				

AS-BUILT SCALES: AS SHOWN PROJECT No: 1050-142875-01

Α1 REV

Α





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NOTES:

LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946

ORIGIN OF LEVELS SS 66 SO 48643 RL 54.50

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OVERLAND FLOWPATH LEVEL IN 1% AEP STORM EVENT

ENGINEERING APPROVAL ENG-60349136

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

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 THE LEVELS (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Myn

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
22.0	ECE		

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

OVERLAND FLOW PATH AS-BUILT CROSS SECTIONS 2 OF 3

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	16.11.20		DDS
DRAWN:	DATE:	SIGNED:	PLOT DATE:
JYW	16.11.20		21.12.20
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JOM	18.12.20		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
DAS	18.12.20		11.2020

ISSUE STATUS:

AS-BUILT

Α

PROJECT No: 1050-142875-01	SCALES:	AS SHOWN	A1
DRAWING No:			REV

FLOW 105 L/s VELOCITY 1.88 m/s

OLFP CROSS SECTION J4 466 SCALE 1:50 -A1 1:100 -A3

FLOW 118 L/s VELOCITY 1.24 m/s

OLFP CROSS SECTION J5

SCALE 1:50 -A1
1:100 -A3

FLOW 105 L/s VELOCITY 2.31 m/s

OLFP CROSS SECTION J6 467 SCALE 1:50 -A1 1:100 -A3



ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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NOTES:

LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946

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THE LEVELS (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Colyn Signed:CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000

AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
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HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

OVERLAND FLOW PATH AS-BUILT CROSS SECTIONS 3 OF 3

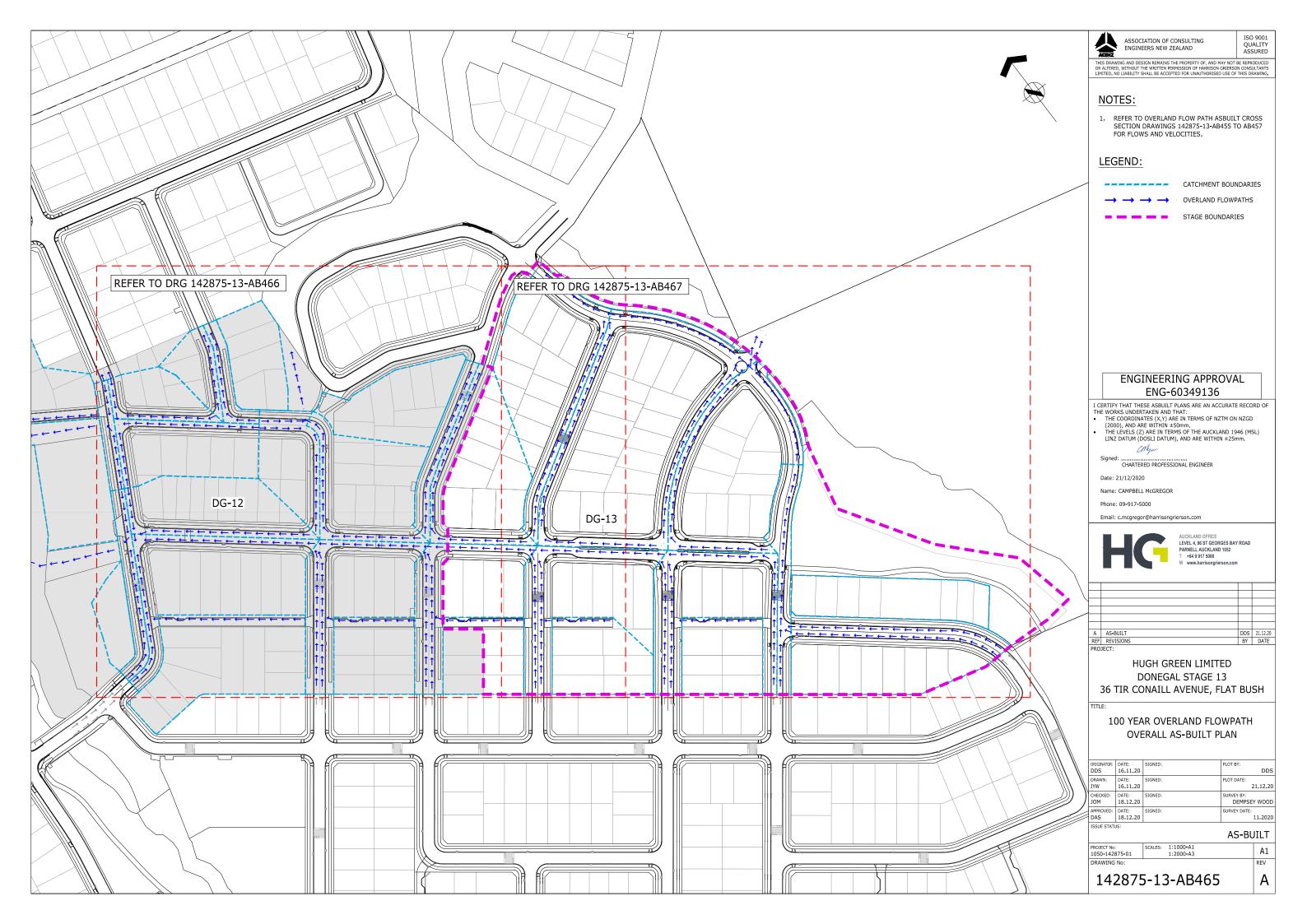
ORIGINATOR: DDS	DATE: 16.11.20	SIGNED:	PLOT BY: DDS
DRAWN: JYW	DATE: 16.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
ISSUE STATU	JS:		

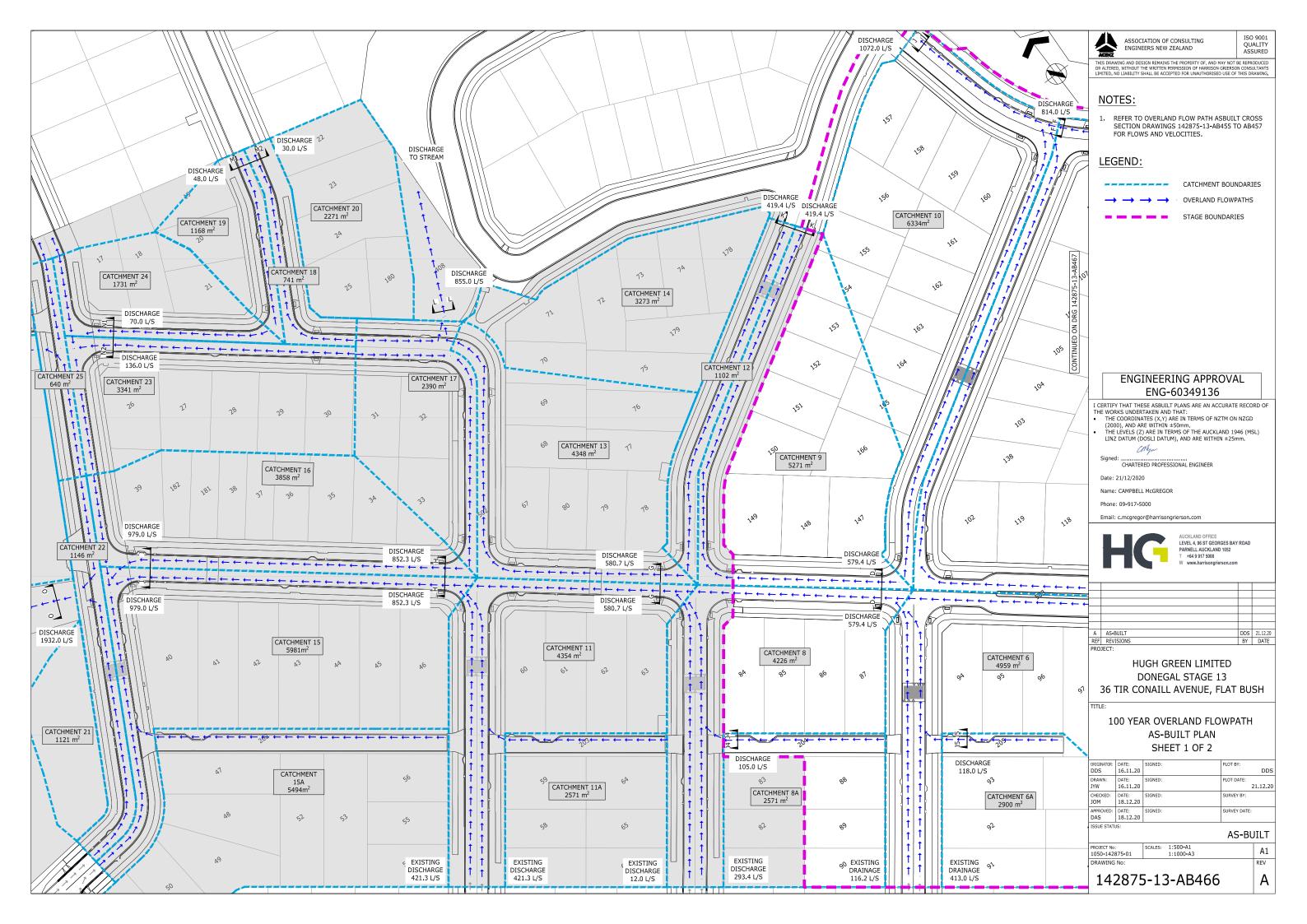
AS-BUILT

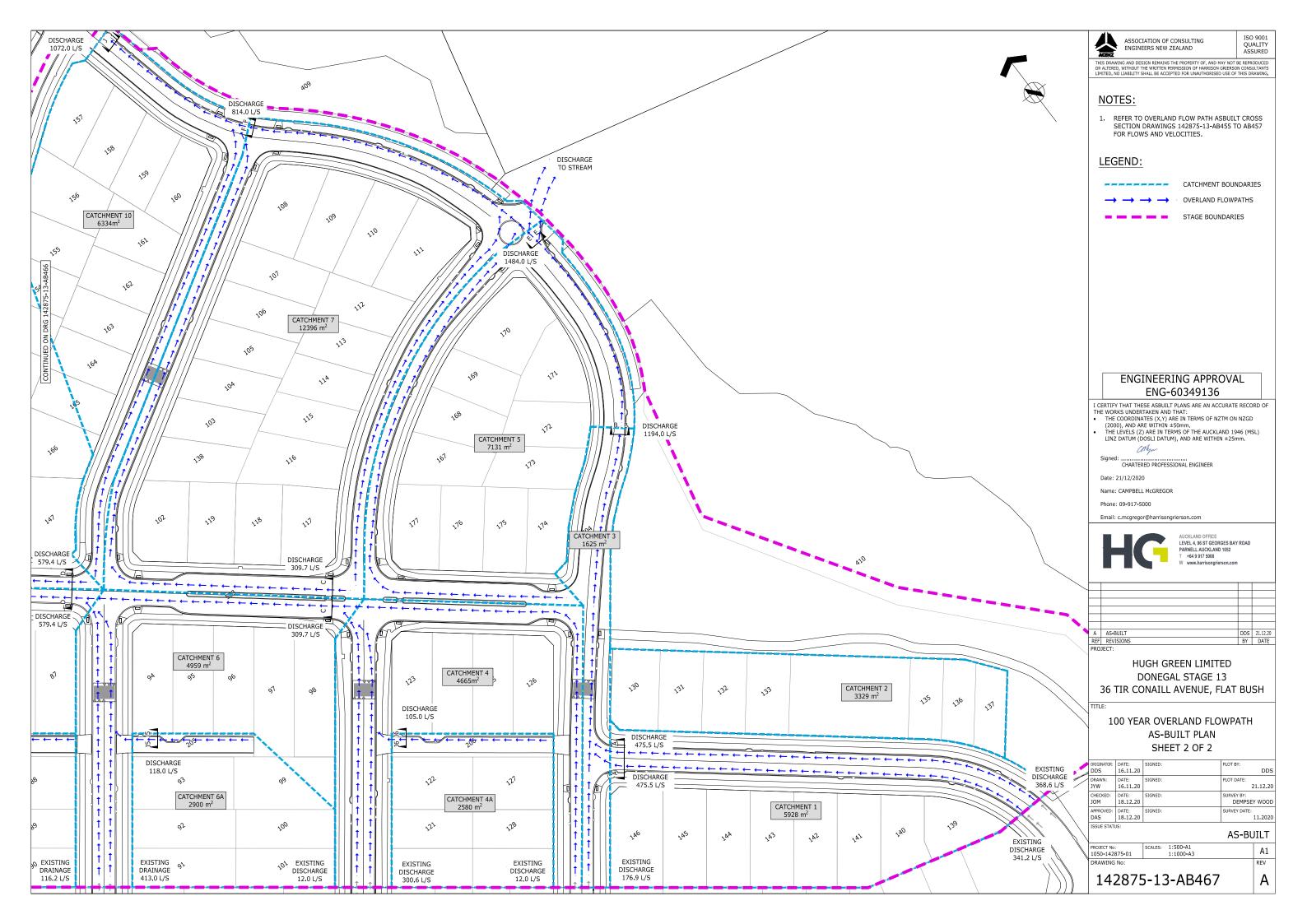
SCALES: AS SHOWN PROJECT No: 1050-142875-01 Α1 REV

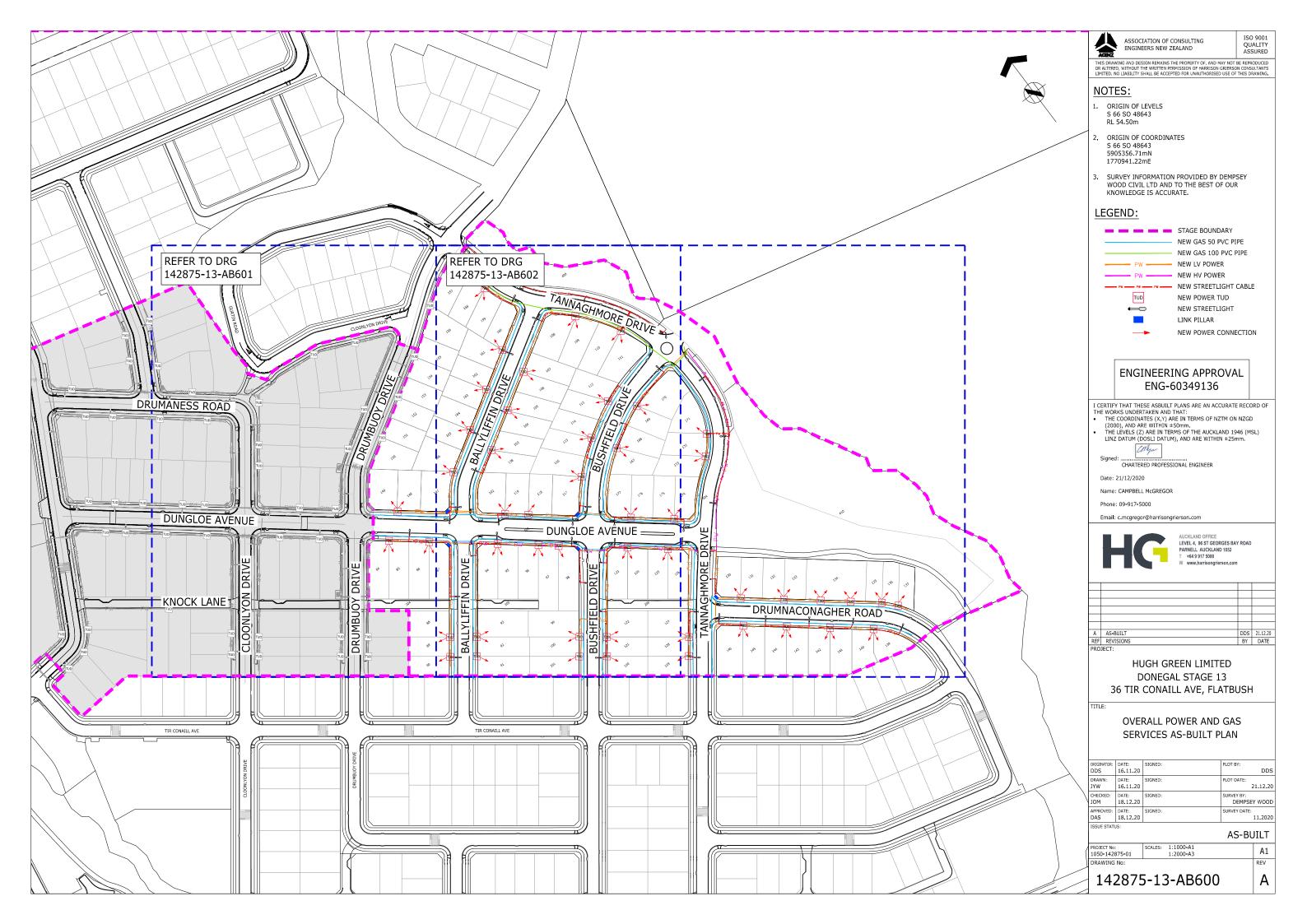
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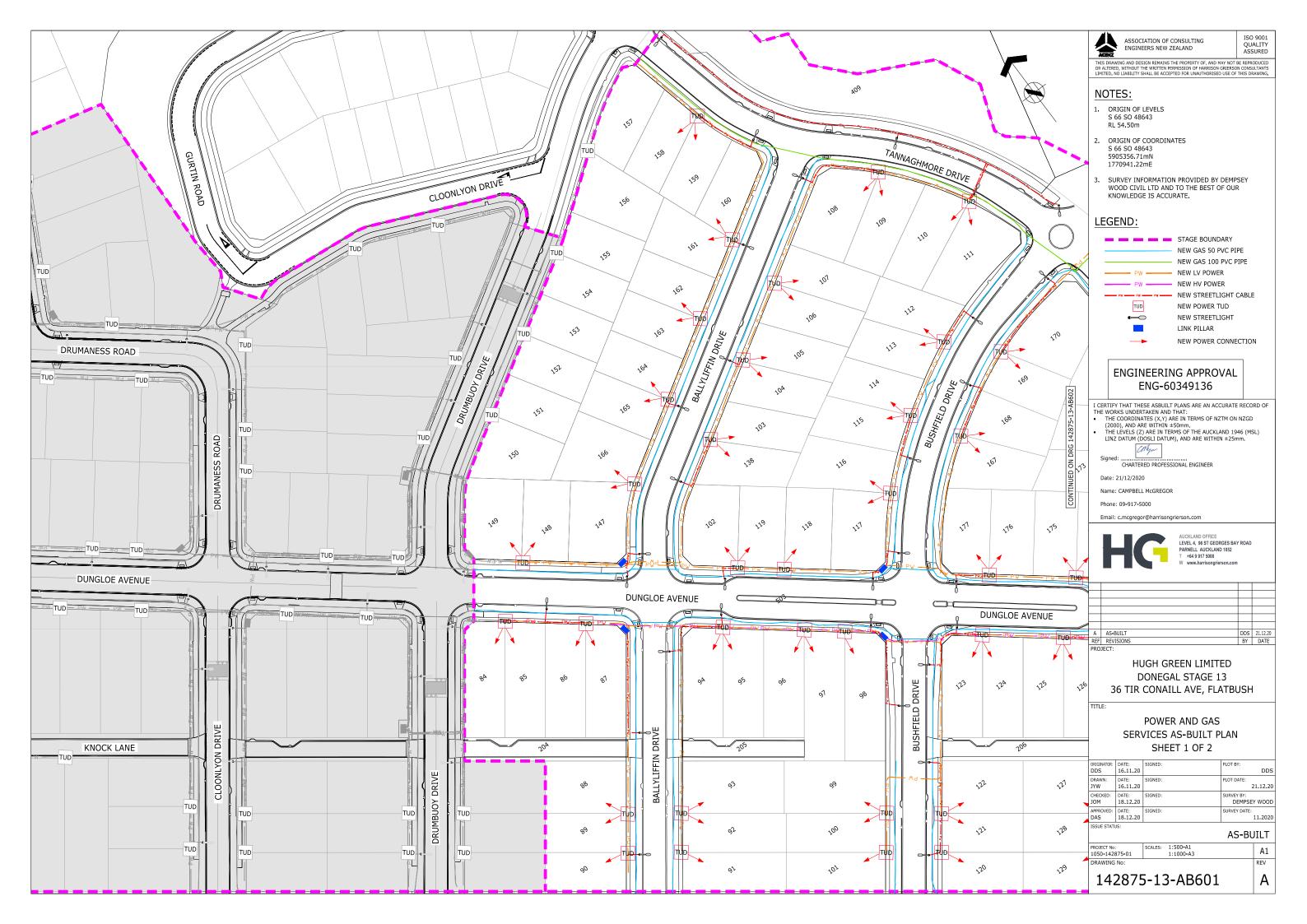
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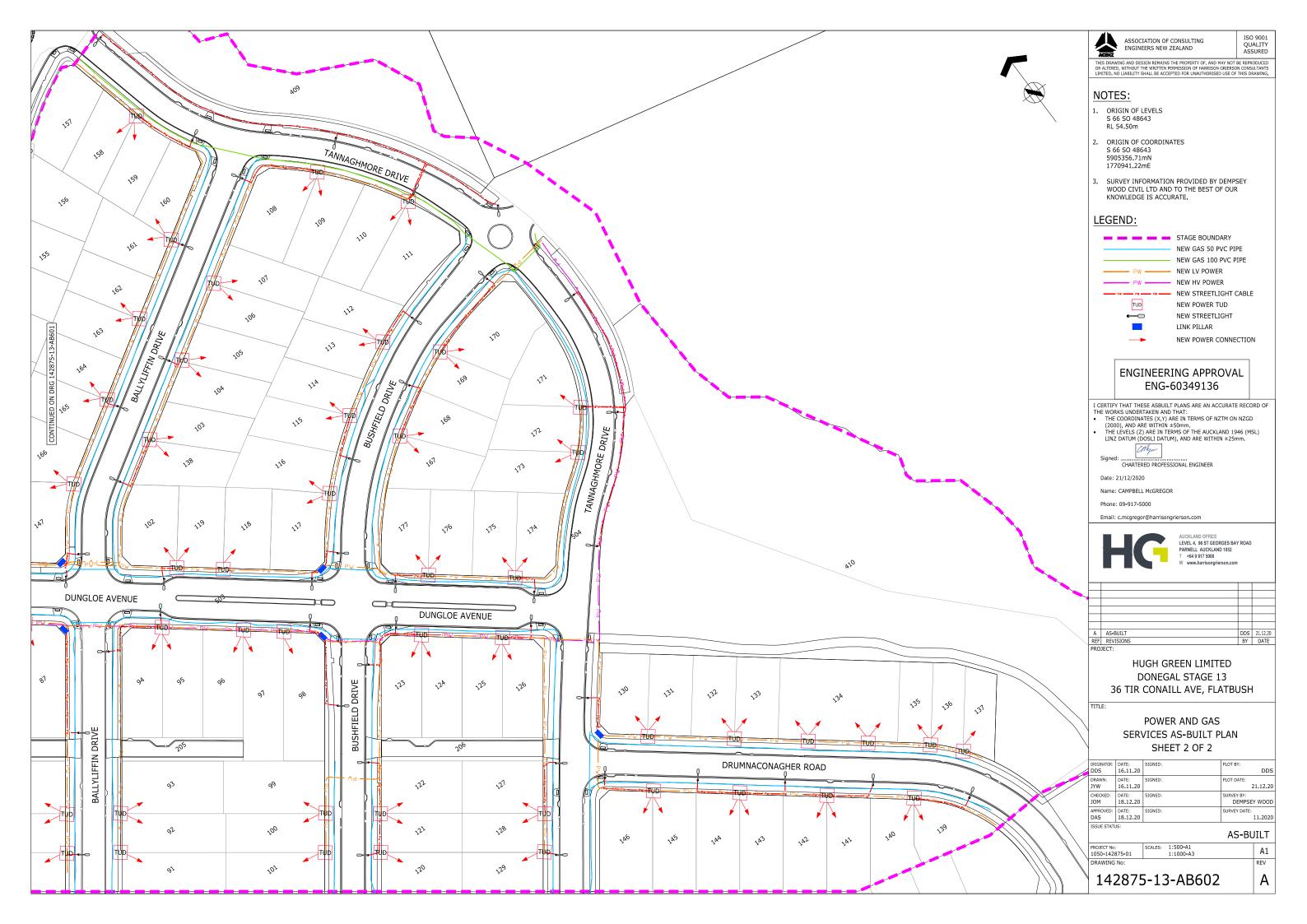


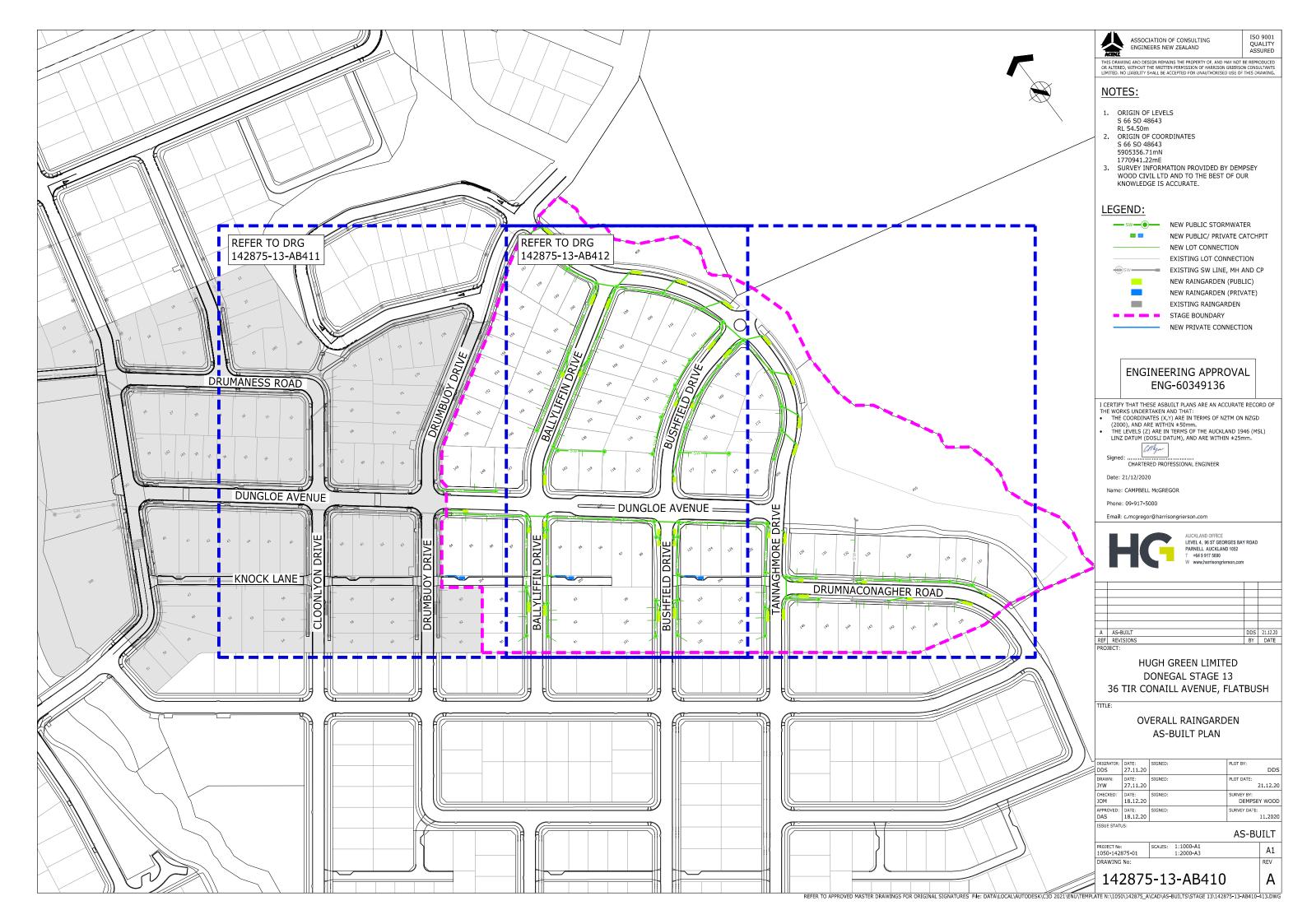


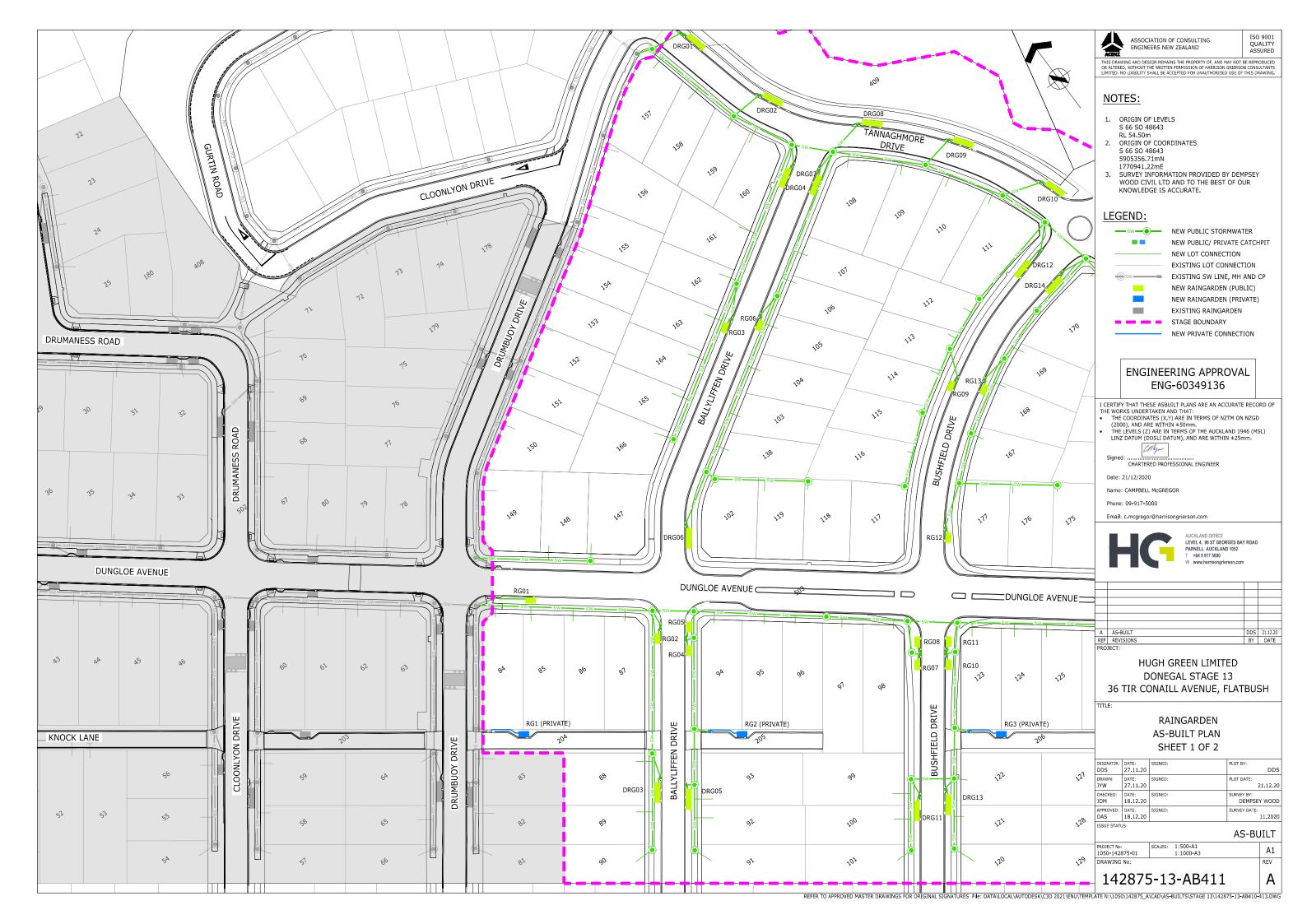


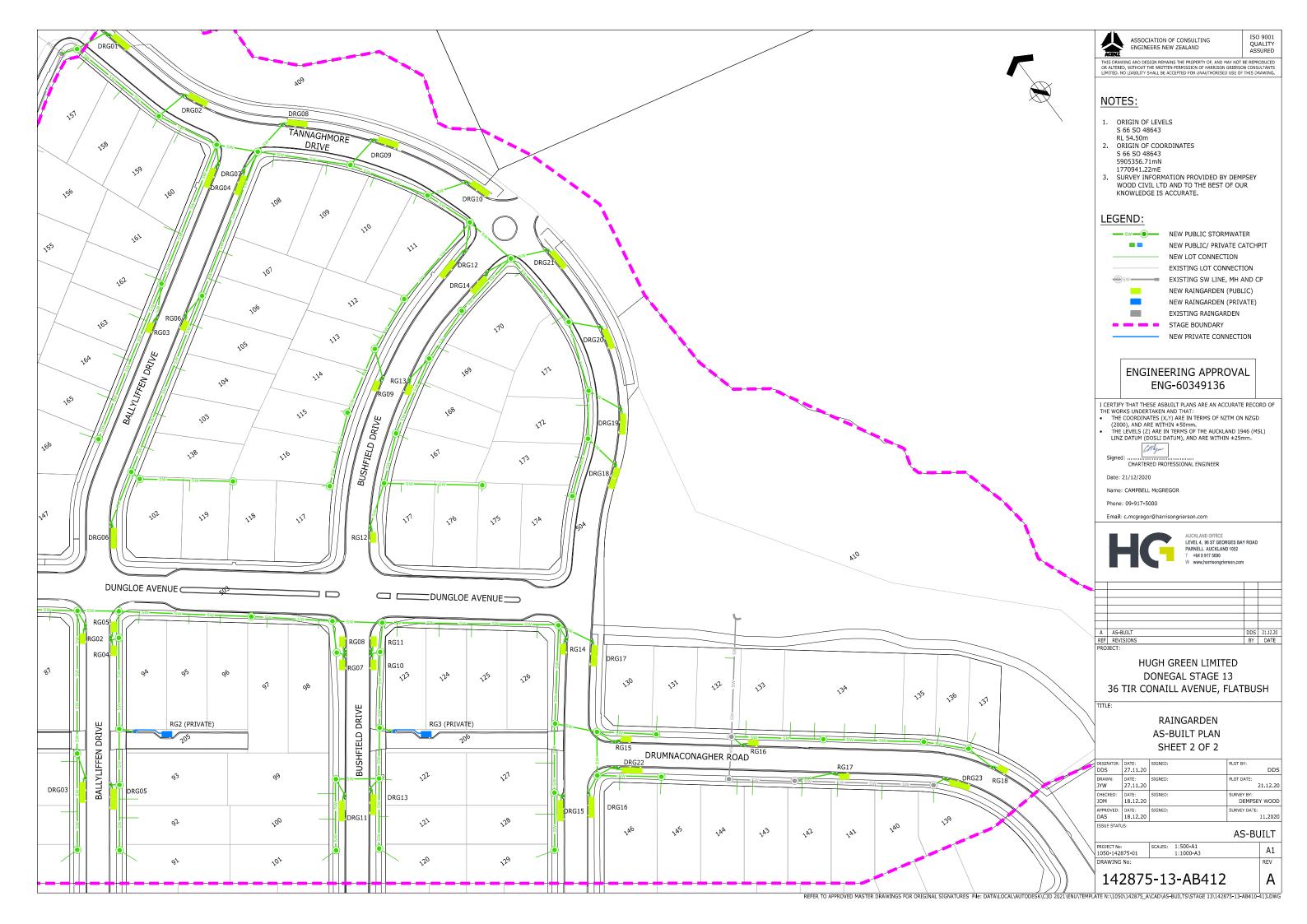












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1770487 53	5905363.30
_//UTU/.JJ	5905496.47
1770341.64	5905356.61
1770392,05	5905423.68
1770493.02	5905490.23
1770519.44	5905493,73
	5905471.40
	5905441.92
	5905308.49
	5905427.00
	5905305.10
	5905303.10
	5905418.38
	5905266.32
	5905300.73
	5905342.58
	5905354.71
	5905379.13
1770559.91	5905408.88
1770481.75	5905264.12
1770563.39	5905197.01
1770340.64	5905438.43
1770366.05	5905402.82
1770443.13	5905469.51
1770370.33	5905394.76
1770374.92	5905400.86
1770451.53	5905464.95
1770427.78	5905345.96
1770432.23	5905351.89
1770489.99	5905410.86
1770434.34	5905341.01
1770438.92	5905346.98
1770458.86	5905373.81
1770496.74	5905405.13
1770487.56	5905307.34
1770485.16	5905271.87
1770517.12	5905246.41
	5905221.63
	5905191.69
	5905404.07
	5905361.73
	5905301.73
	1770493.02 1770519.44 1770539.03 1770553.61 1770399.49 1770530.78 1770407.30 1770535.34 1770455.63 1770462.89 1770492.82 1770535.31 1770545.02 1770557.61 1770557.61 1770563.39 1770340.64 1770366.05 1770443.13 1770370.33 1770370.33 1770370.33 1770370.33 1770370.33 1770451.53 1770427.78 1770432.23 1770438.92 1770438.92 1770458.86 1770487.56 1770487.56 1770487.56



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ISO 9001 QUALITY ASSURED

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.

ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT 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 ±25mm.

Signed: ______CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
000	TE OFF		

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLATBUSH

RAINGARDEN AS-BUILT SCHEDULE OF COORDINATES

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	27.11.20		DDS
DRAWN: JYW	DATE: 27.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JOM	18.12.20		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
DAS	18.12.20		11.2020
ISSUE STATE	JS:	•	

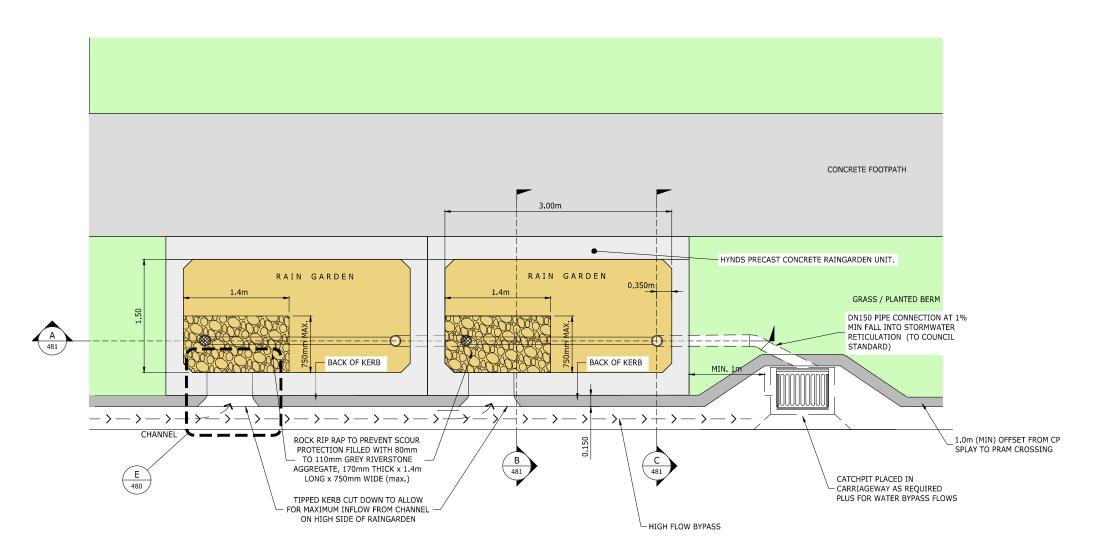
AS-BUILT

050-142875-01	SCALLS.	1101	TO SCALE
RAWING No:			

142875-13-AB413

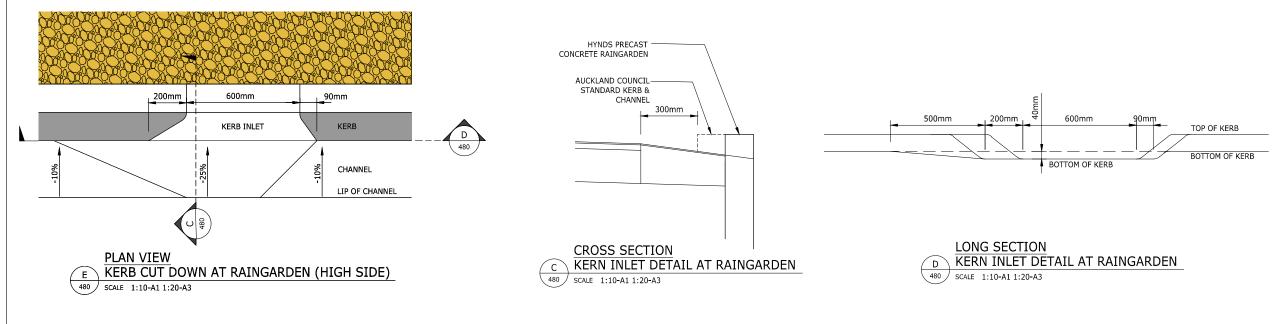
REV Α

Α1



PLAN VIEW BIORETENTION RAINGARDEN

SCALE: 1:25 - A1 1:50 - A3





ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

I CERTIFY THAT THESE ASBUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

- IE WORKS UNDER LAKEN AND LITHE!

 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 ±25mm.

Conyn

CHARTERED PROFESSIONAL ENGINEER

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
PRC	DJECT:		

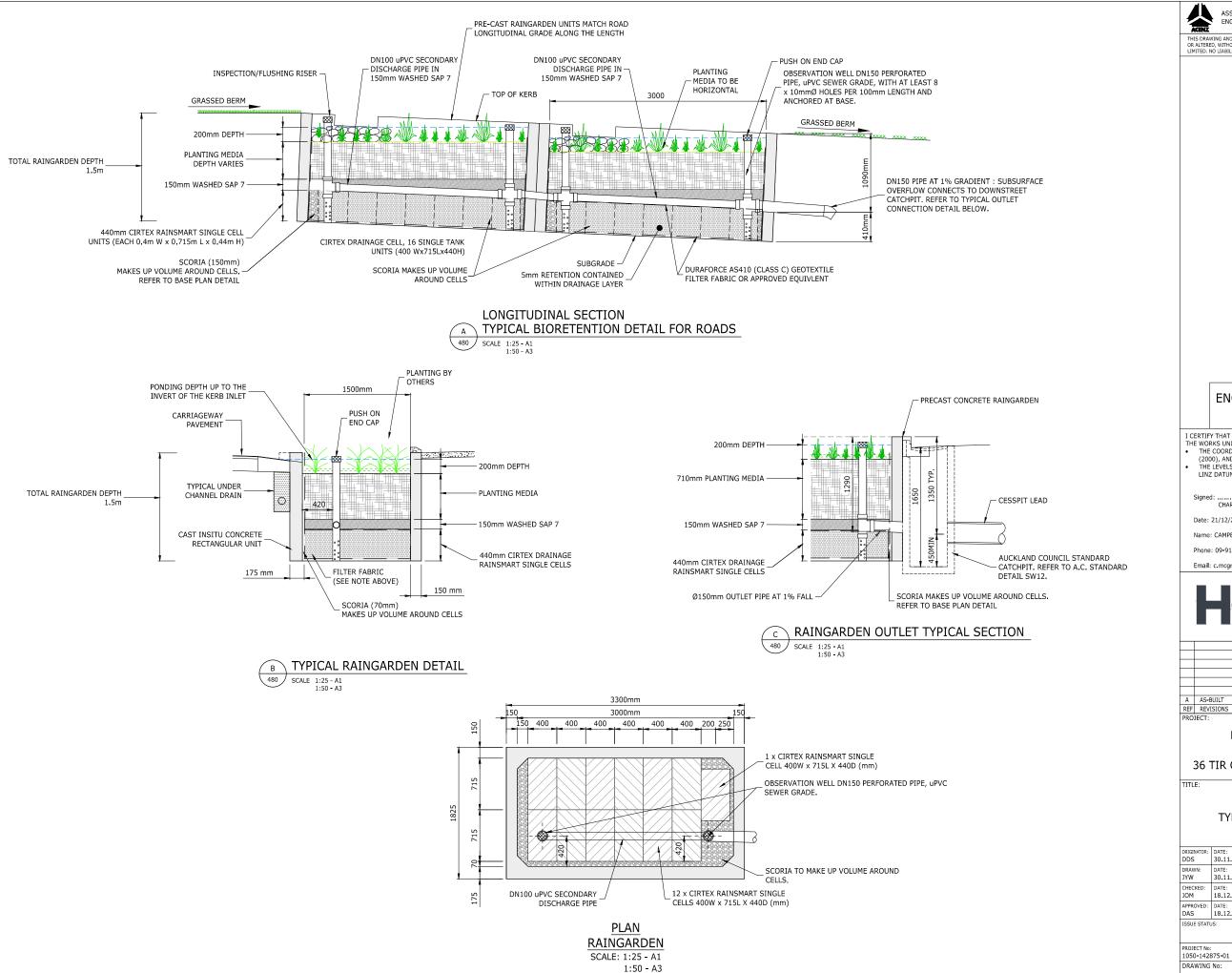
HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

RAINGARDEN TYPICAL PLAN DETAILS AS-BUILT

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:	
DDS	30.11.20		DDS	
DRAWN:	DATE:	SIGNED:	PLOT DATE:	
JYW	30.11.20		21.12.20	
CHECKED:	DATE:	SIGNED:	SURVEY BY:	
JOM	18.12.20		DEMPSEY WOOD	
APPROVED:	DATE:	SIGNED:	SURVEY DATE:	
DAS	18.12.20		11.2020	
TOOLIE CTATE	ICCUE CTATUC.			

AS-BUILT

PROJECT No: 1050-142875-01 SCALES: AS SHOWN Α1 DRAWING No



ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

I CERTIFY THAT THESE ASBUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT

E WURKS UNDERLAKEN AND THAT:
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LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Myn

CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 +64 9 917 5000

REF REVISIONS PROJECT: **HUGH GREEN LIMITED** DONEGAL STAGE 13

TITLE:

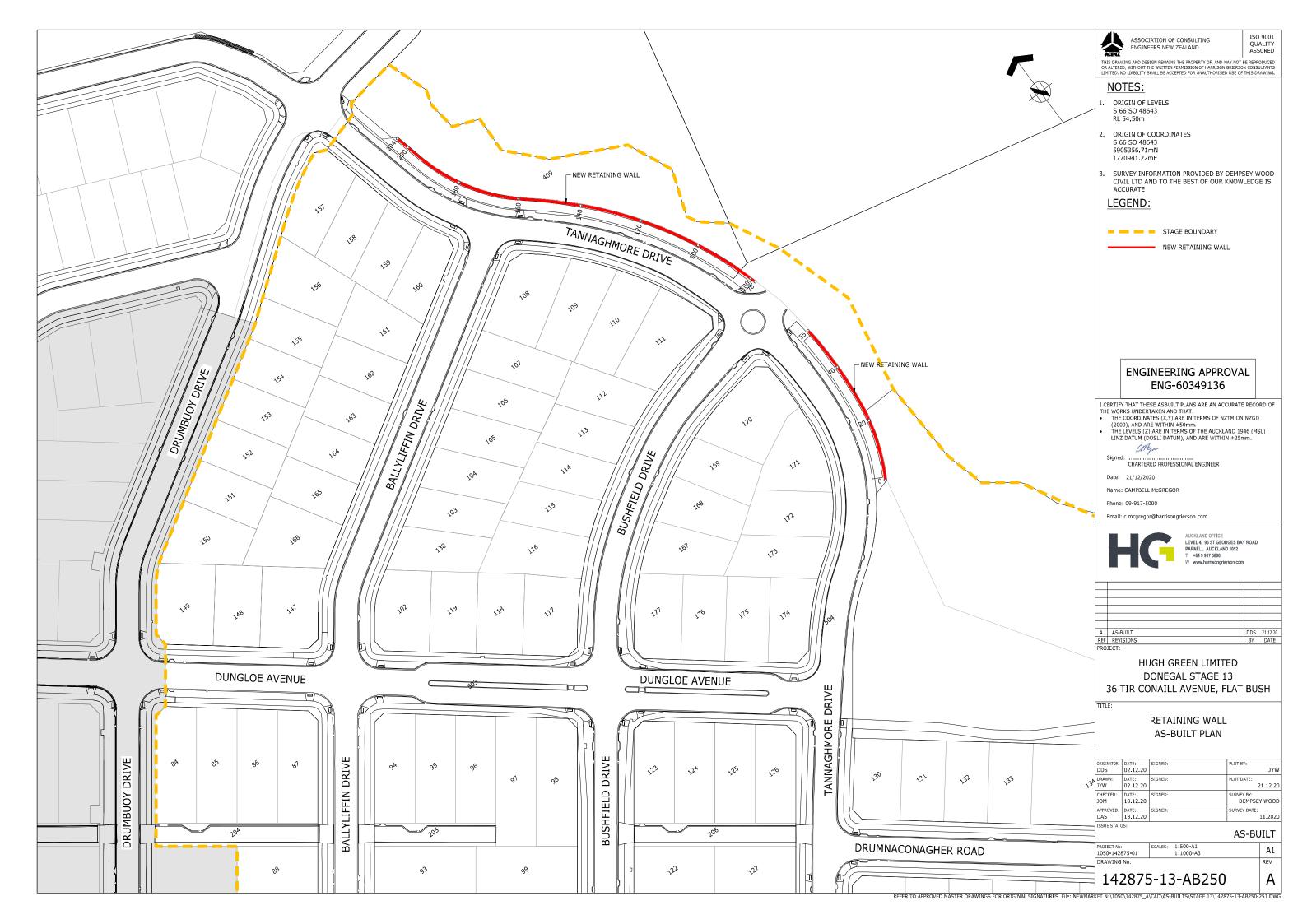
RAINGARDEN TYPCIAL SECTION DETAILS **AS-BUILT**

36 TIR CONAILL AVENUE, FLAT BUSH

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	30.11.20		DDS
DRAWN: JYW	DATE: 30.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
ISSUE STATU	JS:		•

AS-BUILT SCALES: AS SHOWN

Α1



CHAINAGE	mE	mN	TOP OF WALL	BOTTOM OF WALL	HEIGHT
1.293	1770557.13	5905362.20	52.45	51.15	1.30
3.034	1770557.95	5905363.74	52.45	50.94	1.51
4.326	1770558.52	5905364.90	52.46	50.73	1.73
5.199	1770558.92	5905365.67	52.44	50.53	1.91
6.283	1770559.41	5905366.64	52.44	50.33	2.11
6.284	1770559.41	5905366.64	52.23	50.33	1.90
7.591	1770559.95	5905367.83	52.23	49.93	2.30
9.158	1770560.57	5905369.27	52.22	49.73	2.49
9.159	1770560.57	5905369.27	52.03	49.73	2.30
10.483	1770561.06	5905370.50	52.01	49.52	2.49
11.799	1770561.52	5905371.73	52.01	49.32	2.70
13.096	1770561.93	5905372.96	52.01	49.11	2.90
14.404	1770562.34	5905374.21	52.01	49.10	2.91
15.912	1770562.82	5905375.64	52.02	48.76	3.26
15.913	1770562.82	5905375.64	51.82	48.76	3.06
17.201	1770563.23	5905376.86	51.81	48.71	3.10
18.534	1770563.57	5905378.15	51.81	48.51	3.31
19.833	1770563.88	5905379.41	51.81	48.50	3.31
20.710	1770564.07	5905380.27	51.79	48.27	3.53
21.838	1770564.30	5905381.38	51.81	48.14	3.67
21.838	1770564.30	5905381.38	51.61	48.14	3.47
23.128	1770564.50	5905382.65	51.61	48.06	3.55
24.435	1770564.69	5905383.95	51.60	48.01	3.60
25.987	1770564.92	5905385.48	51.59	47.94	3.65
25.988	1770564.92	5905385.48	51.40	47.94	3.45
27.732	1770565.18	5905387.21	51.39	47.88	3.51
28.604	1770565.34	5905388.07	51.40	47.86	3.54
30.176	1770565.54	5905389.63	51.40	47.81	3.59
30.176	1770565.54	5905389.63	51.20	47.81	3.39
31.461	1770565.66	5905390.91	51.21	47.77	3.44
32.756	1770565.78	5905392.20	51.20	47.73	3.46
33.847	1770565.85	5905393.29	51.17	47.70	3.48
33.847	1770565.85	5905393.29	50.98	47.70	3.28
36.289	1770565.97	5905395.73	51.00	47.61	3.39
36.290	1770565.97	5905395.73	50.81	47.61	3.20
38.025	1770566.01	5905397.47	50.82	47.55	3.27
39.721	1770566.05	5905399.17	50.82	47.53	3.29
41.759	1770566.04	5905401.20	50.81	47.60	3.21
41.759	1770566.04	5905401.20	50.62	47.60	3.02
45.035	1770566.10	5905404.48	50.58	47.70	2.89
45.035	1770566.10	5905404.48	50.39	47.70	2.69
49.632	1770566.07	5905409.08	50.42	47.52	2.89
49.633	1770566.07	5905409.09	50.22	47.52	2.70
53.793	1770565.77	5905413.24	50.19	47.53	2.66
53.793	1770565.77	5905413.24	49.99	47.53	2.46
55.066	1770565.65	5905414.51	49.99	47.54	2.46

	RW	CO-ORDI	NATE SCH	EDULE	
CHAINAGE	mE	mN	TOP OF WALL	BOTTOM OF WALL	HEIGHT
78.198	1770561.32	5905437.22	48.82	45.63	3.19
81.687	1770560.37	5905440.57	48.81	45.12	3.69
81.688	1770560.37	5905440.57	48.61	45.12	3.49
85.875	1770559.16	5905444.59	48.41	44.71	3.71
85.875	1770559.16	5905444.59	48.61	44.71	3.90
90.022	1770557.82	5905448.52	48.39	44.12	4.27
90.024	1770557.81	5905448.52	48.19	44.12	4.07
94.185	1770556.28	5905452.40	48.19	43.29	4.90
94.186	1770556.28	5905452.40	47.98	43.29	4.69
97.888	1770554.76	5905455.78	47.77	42.68	5.09
97.888	1770554.76	5905455.78	47.97	42.68	5.29
102.049	1770552.99	5905459.56	47.80	42.48	5.32
102.050	1770552.99	5905459.56	47.60	42.48	5.11
105.773	1770551.36	5905462.91	47.60	43.19	4.41
		5905462.91			
105.776	1770551.36		47.39	43.19	4.20
109.511	1770549.52	5905466.18	47.42	43.64	3.77
109.513	1770549.52	5905466.18	47.20	43.64	3.56
113.657	1770547.40	5905469.75	47.22	43.42	3.80
113.658	1770547.40	5905469.75	47.00	43.42	3.58
117.388	1770545.38	5905472.89	47.02	43.33	3.69
117.389	1770545.38	5905472.89	46.82	43.33	3.49
123.726	1770541.70	5905478.06	46.85	44.01	2.84
123.727	1770541.70	5905478.06	46.65	44.01	2.64
124.840	1770541.07	5905478.98	46.41	44.13	2.28
124.840	1770541.07	5905478.98	46.63	44.13	2.50
128.966	1770538.56	5905482.26	46.41	43.95	2.46
128.974	1770538.55	5905482.27	46.22	43.95	2.27
133.142	1770535.95	5905485.54	46.23	43.79	2.44
133.145	1770535.95	5905485.54	46.03	43.79	2.24
			 		
135.973	1770534.10	5905487.68	46.05	43.66	2.39
135.981	1770534.09	5905487.69	45.84	43.66	2.18
141.417	1770530.39	5905491.68	45.63	43.41	2.22
141.417	1770530.39	5905491.68	45.82	43.41	2.41
142.942	1770529.33	5905492.78	45.62	43.34	2.28
142.944	1770529.33	5905492.78	45.40	43.33	2.06
146.451	1770526.87	5905495.29	45.41	42.91	2.51
149.713	1770524.52	5905497.56	45.41	42.18	3.23
149.715	1770524.52	5905497.56	45.21	42.18	3.04
152.978	1770522.14	5905499.81	45.19	41.70	3.49
152.985	1770522.14	5905499.81	44.99	41.70	3.29
155.921	1770519.91	5905501.73	45.00	41.51	3.49
159.193	1770517.43	5905503.87	45.00	41.14	3.86
159.203	1770517.42	5905503.88	44.80	41.14	3.66
162.061	1770515.31	5905505.78	44.82	40.90	3.92
162.064	1770515.31	5905505.78	44.61	40.90	3.71
164.230	1770513.73	5905507.25	44.63	40.79	3.85
166.203	1770512.36	5905508.66	44.62	40.74	3.88
166.212	1770512.35	5905508.67	44.42	40.74	3.69
167.790	1770511.31	5905509.84	44.42	40.75	3.67
167.795	1770511.30	5905509.85	44.22	40.75	3.47
169.550	1770510.21	5905511.21	44.23	40.67	3.56
171.970	1770508.80	5905513.17	44.23	40.57	3.66
171.977	1770508.79	5905513.17	44.03	40.57	3.46
175.261	1770506.94	5905515.87	43.82	40.43	3.39
175.261	1770506.94	5905515.87	44.03	40.43	3.60
178.115	1770505.40	5905518.26	43.82	40.49	3.33
178.116	1770505.40	5905518.26	43.63	40.49	3.14
180.492	1770504.28	5905520.36	43.62	41.11	2.51
180.493	1770504.28	5905520.36	43.43	41.11	2.32
183.381	1770503.04	5905522.96	43.43	41.16	2.27
183.390	1770503.04	5905522.97	43.22	41.16	2.06
186.679	1770501.76	5905525.98	43.22	41.00	2.22
186.686	1770501.76	5905525.99	43.03	41.00	2.03
				41.27	
189.974	1770500.70	5905529.09	43.02		1.76
189.978	1770500.70	5905529.10	42.84	41.27	1.57
193.264	1770499.72	5905532.22	42.84	41.31	1.53
193.266	1770499.72	5905532.22	42.62	41.31	1.32
196.571	1770498.86	5905535.41	42.65	41.02	1.63
196.578	1770498.86	5905535.42	42.45	41.02	1.43
200.730	1770497.96	5905539.47	42.46	41.62	0.85
200.735	1770497.96	5905539.47	42.25	41.62	0.63
200.733				41.51	



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.

ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT 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 (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
 LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Colyn

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



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

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
DDO	IFCT.		

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

RETAINING WALL AS-BUILT SCHEDULE OF COORDINATES

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	02.12.20		JYW
DRAWN: JYW	DATE: 02.12.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JOM	18.12.20		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
DAS	18.12.20		11.2020
ISSUE STATU	JS:	•	•

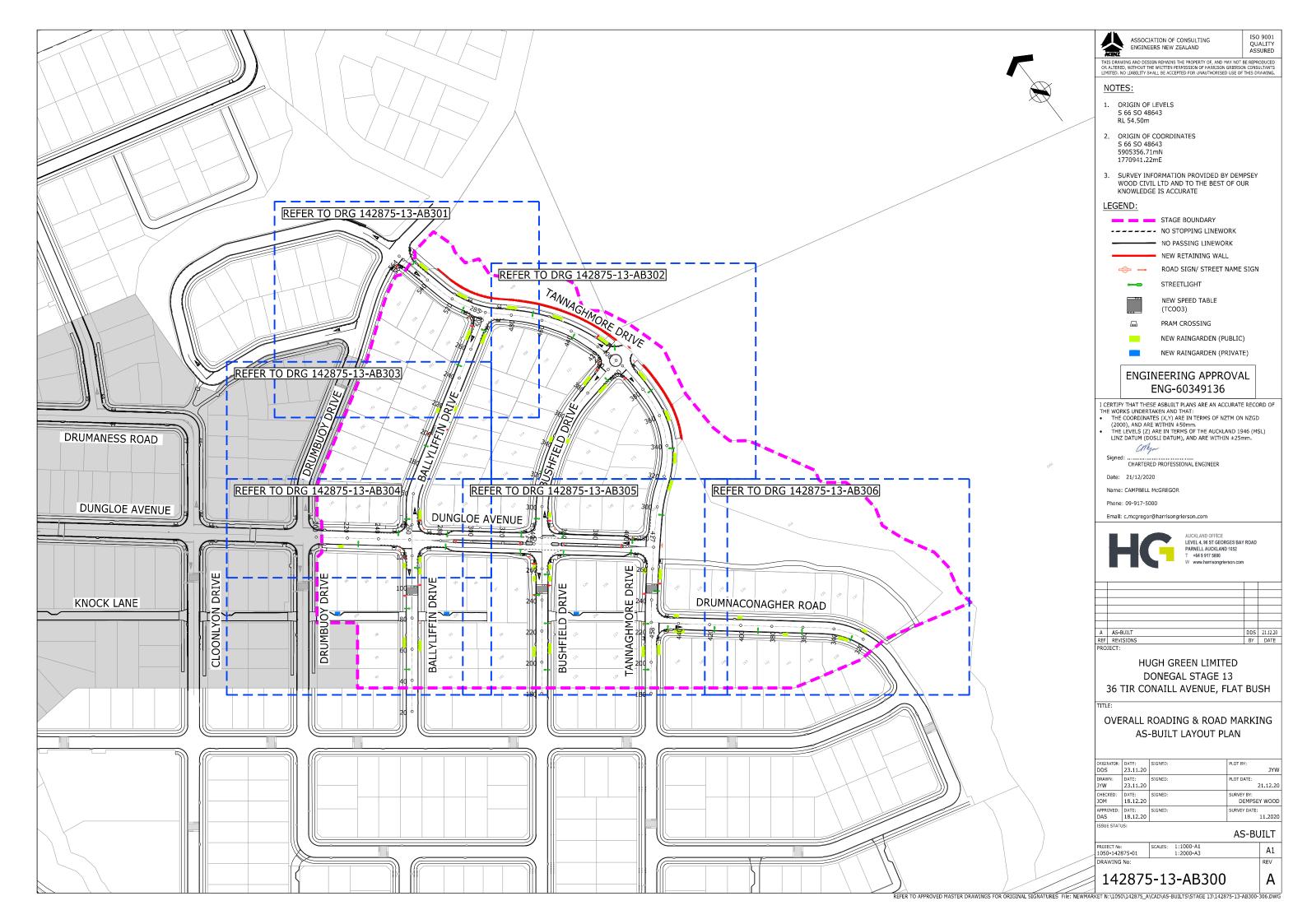
AS-BUILT

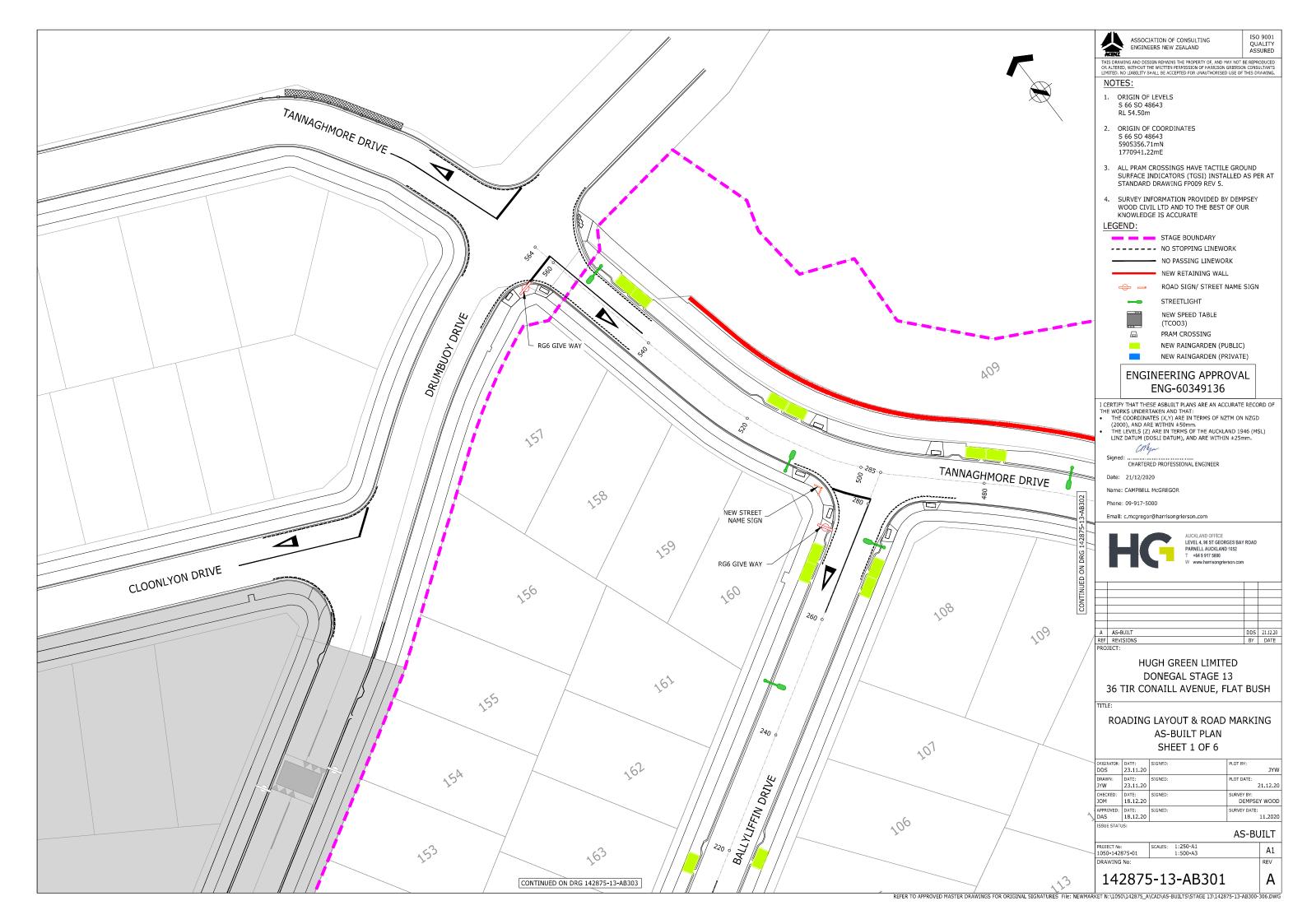
SCALES: NOT TO SCALE PROJECT No: 1050-142875-01

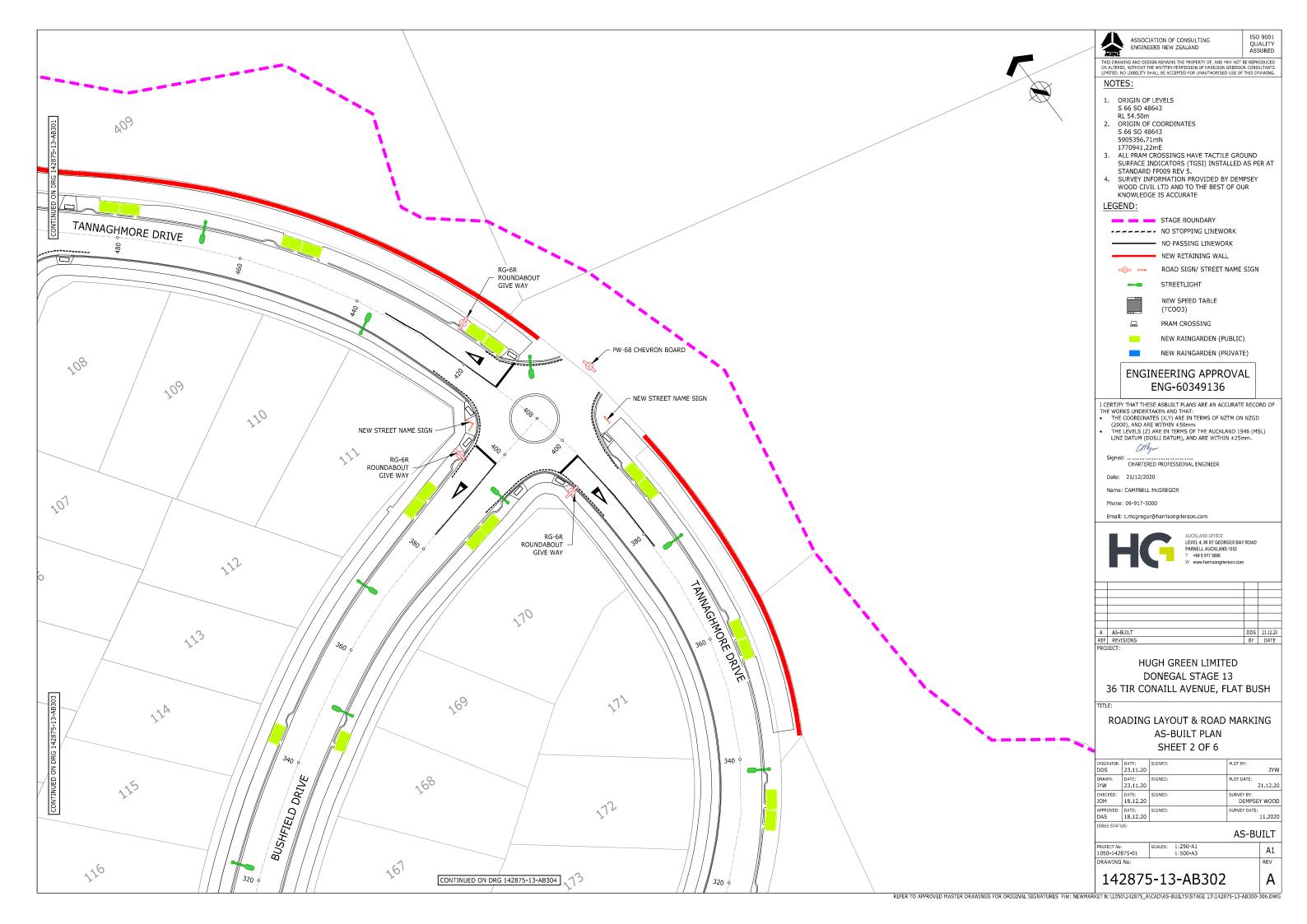
142875-13-AB251

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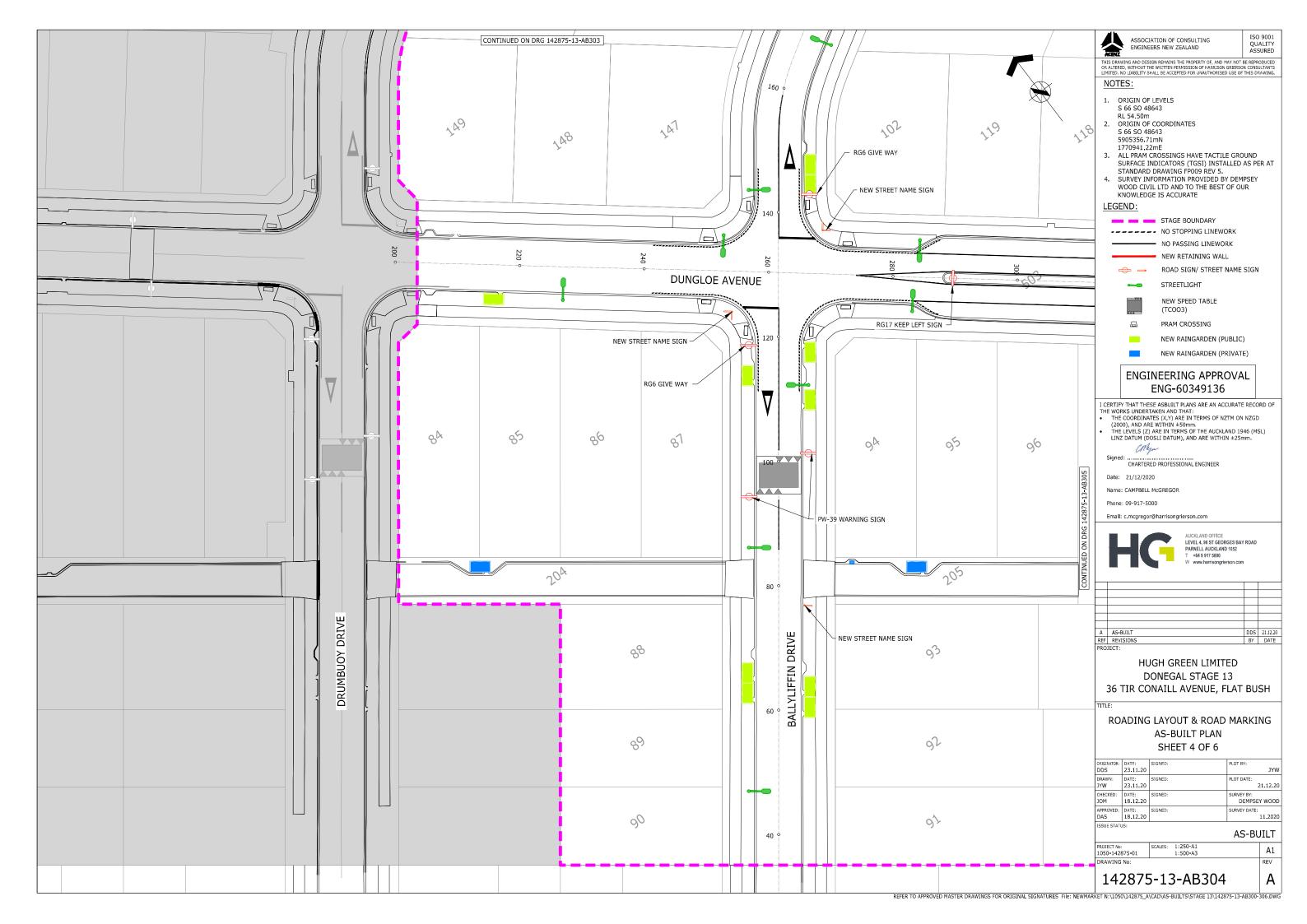
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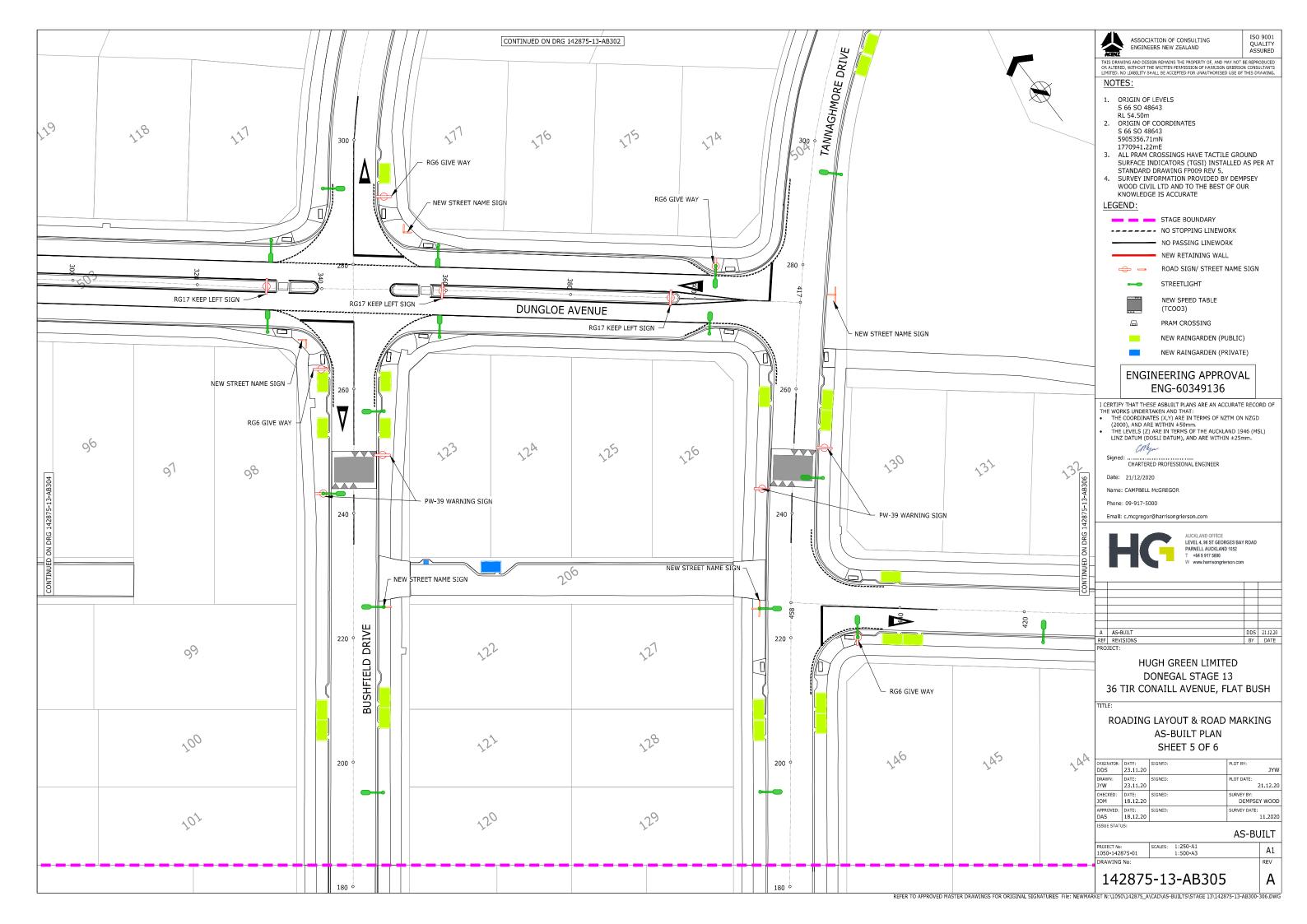


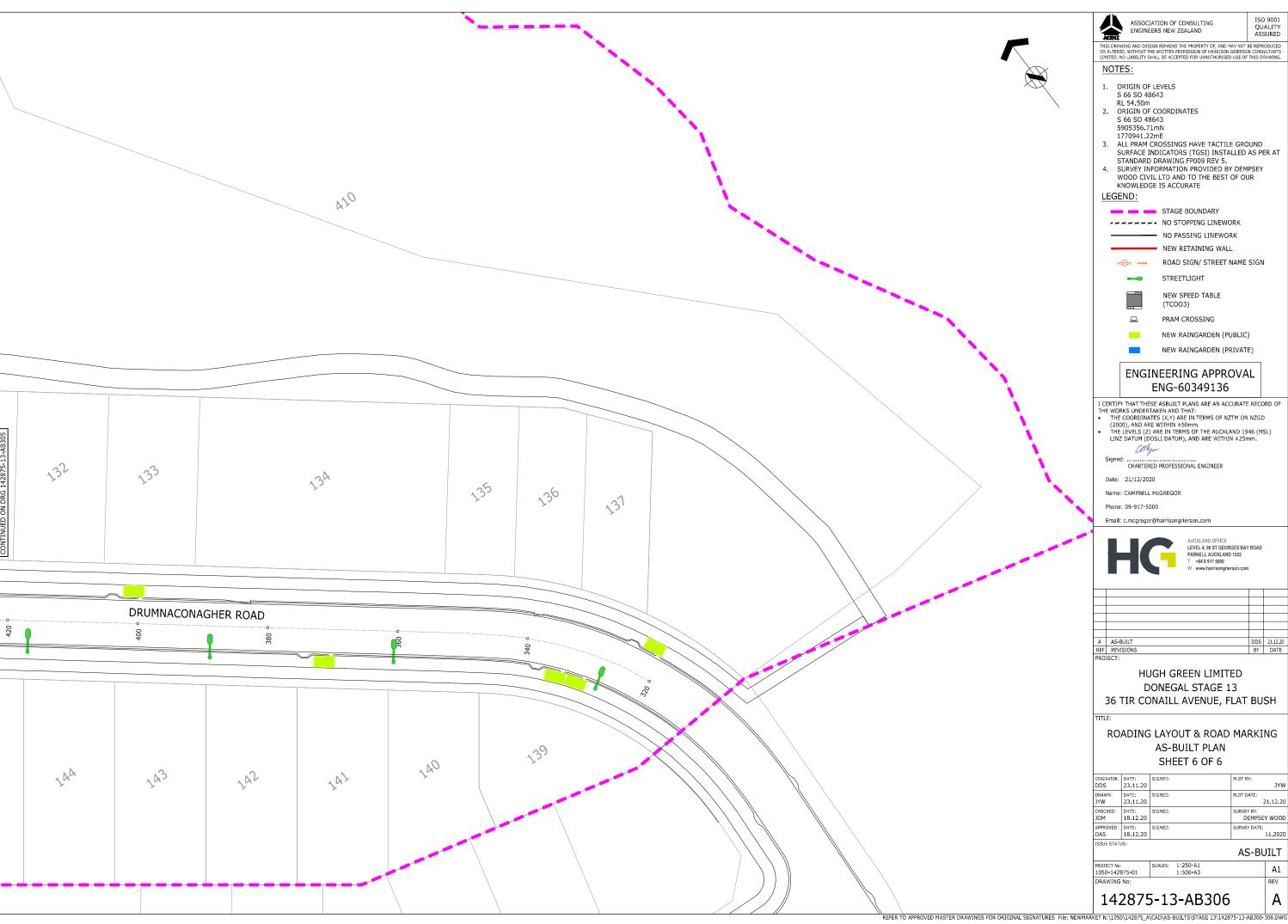












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- 1. ORIGIN OF LEVELS S 66 SO 48643
- RL 54.50m
 2. ORIGIN OF COORDINATES
 S 66 SO 48643
 - 5905356.71mN 1770941.22mE
- ALL PRAM CROSSINGS HAVE TACTILE GROUND SURFACE INDICATORS (TGSI) INSTALLED AS PER AT STANDARD DRAWING FP009 REV 5.
 4. SURVEY INFORMATION PROVIDED BY DEMPSEY
- WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE

LEGEND:

STAGE BOUNDARY

---- NO STOPPING LINEWORK

NO PASSING LINEWORK

NEW RETAINING WALL

ROAD SIGN/ STREET NAME SIGN

STREETLIGHT

NEW SPEED TABLE (TCOO3)

PRAM CROSSING

NEW RAINGARDEN (PUBLIC)

NEW RAINGARDEN (PRIVATE)

ENGINEERING APPROVAL ENG-60349136

- THE LEVELS (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)

 THE VORKS 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 ±25mm.

allyn

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000

Email: c.mcgregor@harrisongrierson.com



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

A AS-BUILT

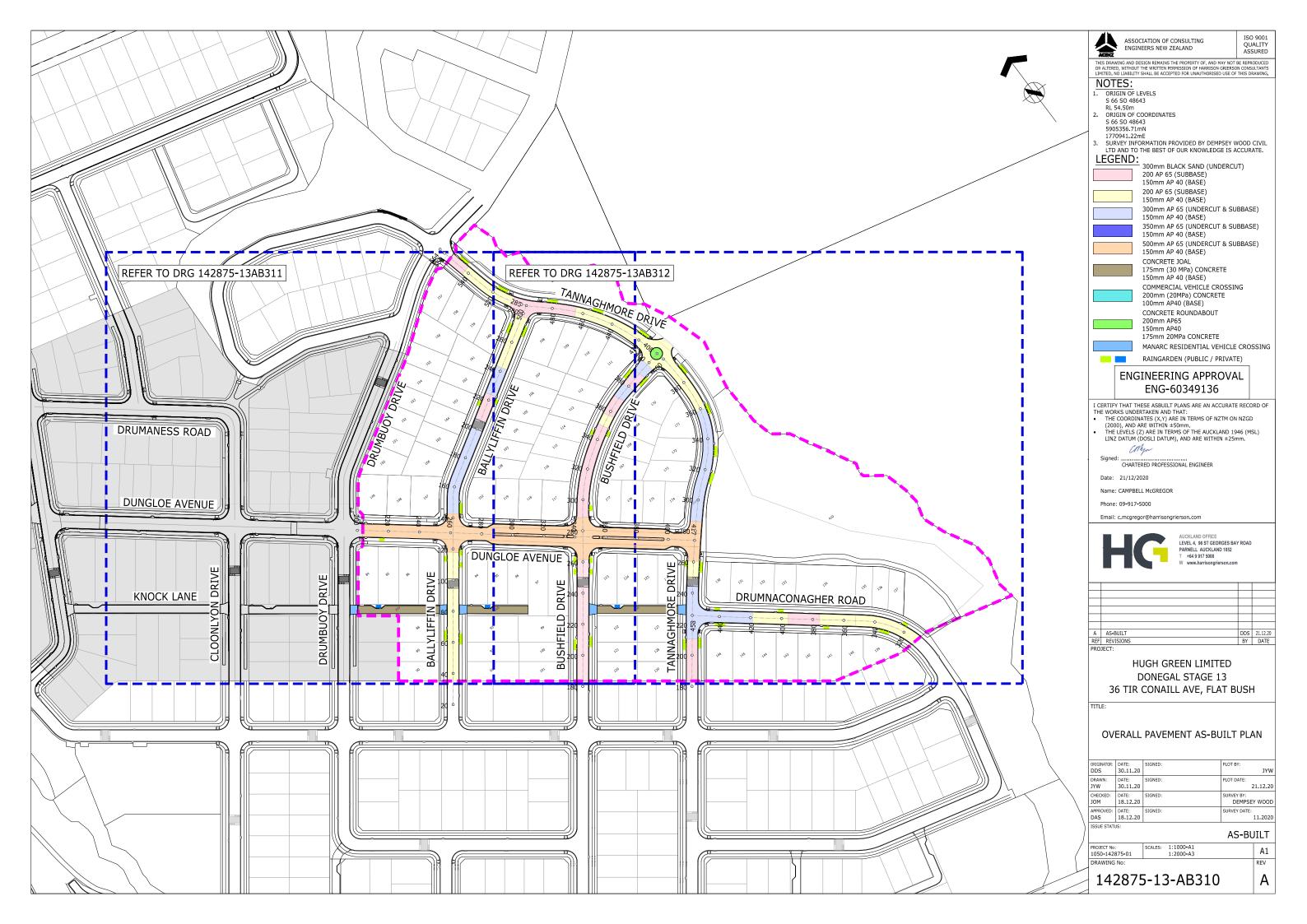
HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

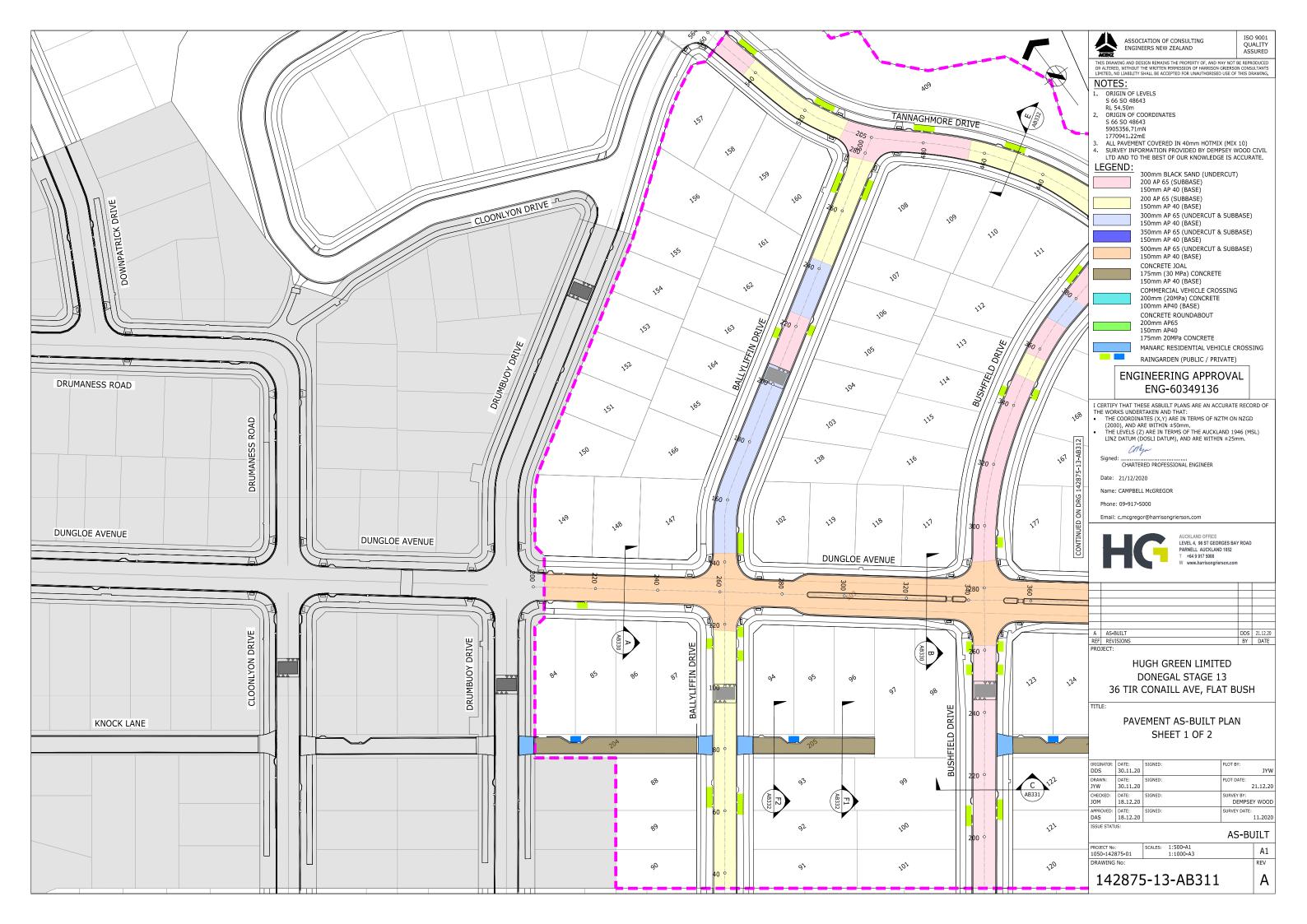
ROADING LAYOUT & ROAD MARKING AS-BUILT PLAN SHEET 6 OF 6

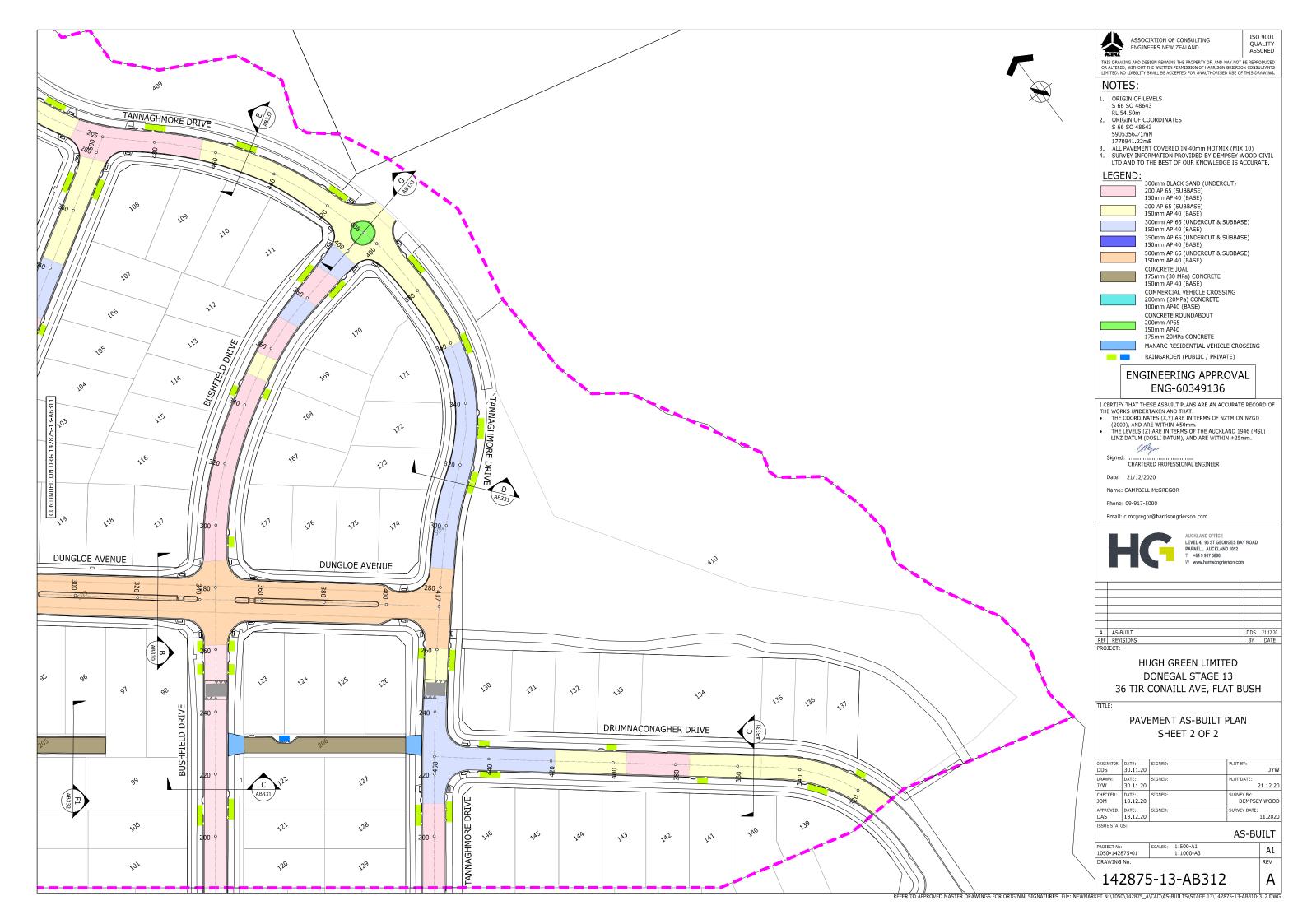
UKIGINATUK:	DATE:	SIGNED:	PLUI DI:
DDS	23.11.20		JYW
DRAWN: JYW	DATE: 23.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
YOU IS OTHER			

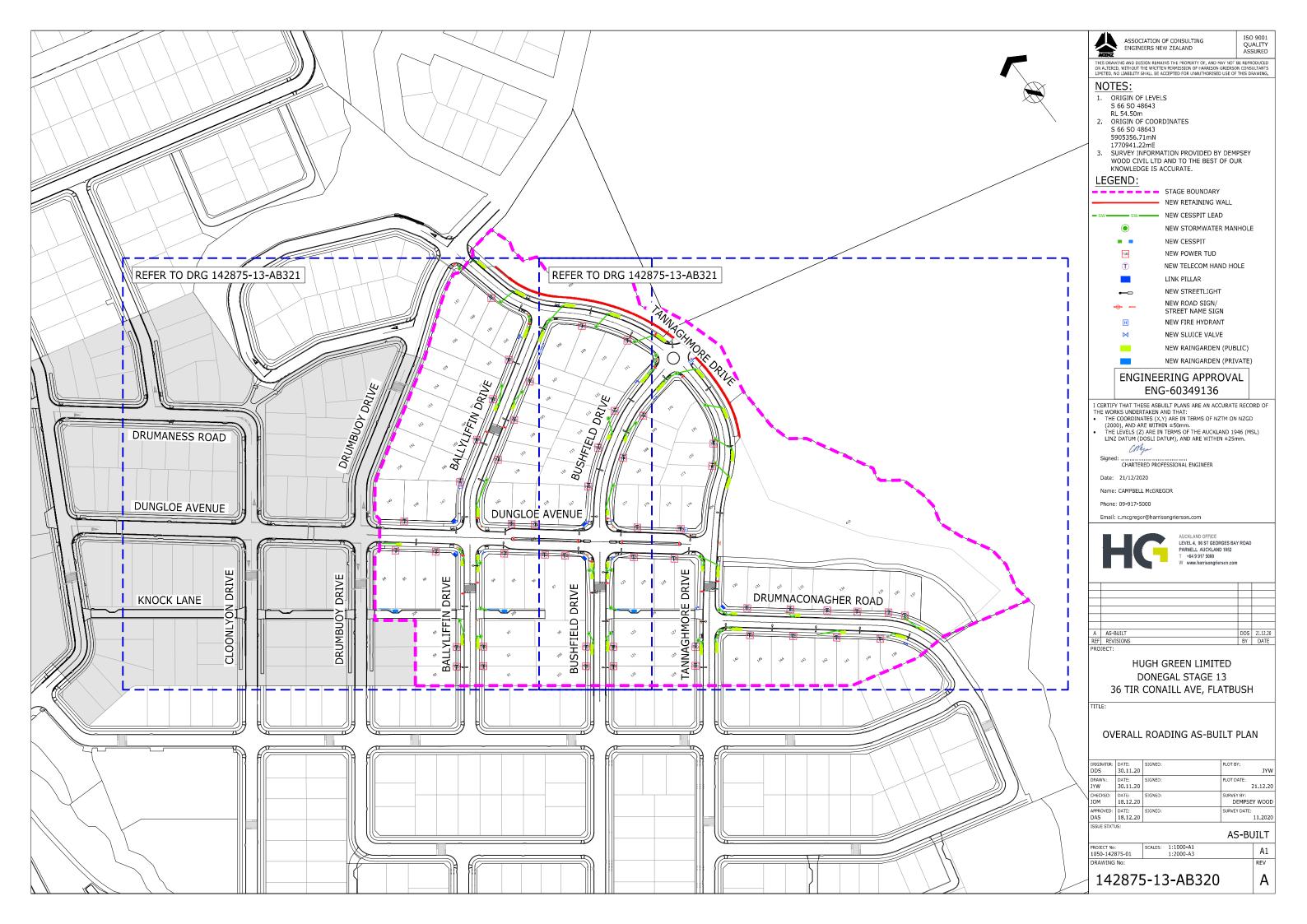
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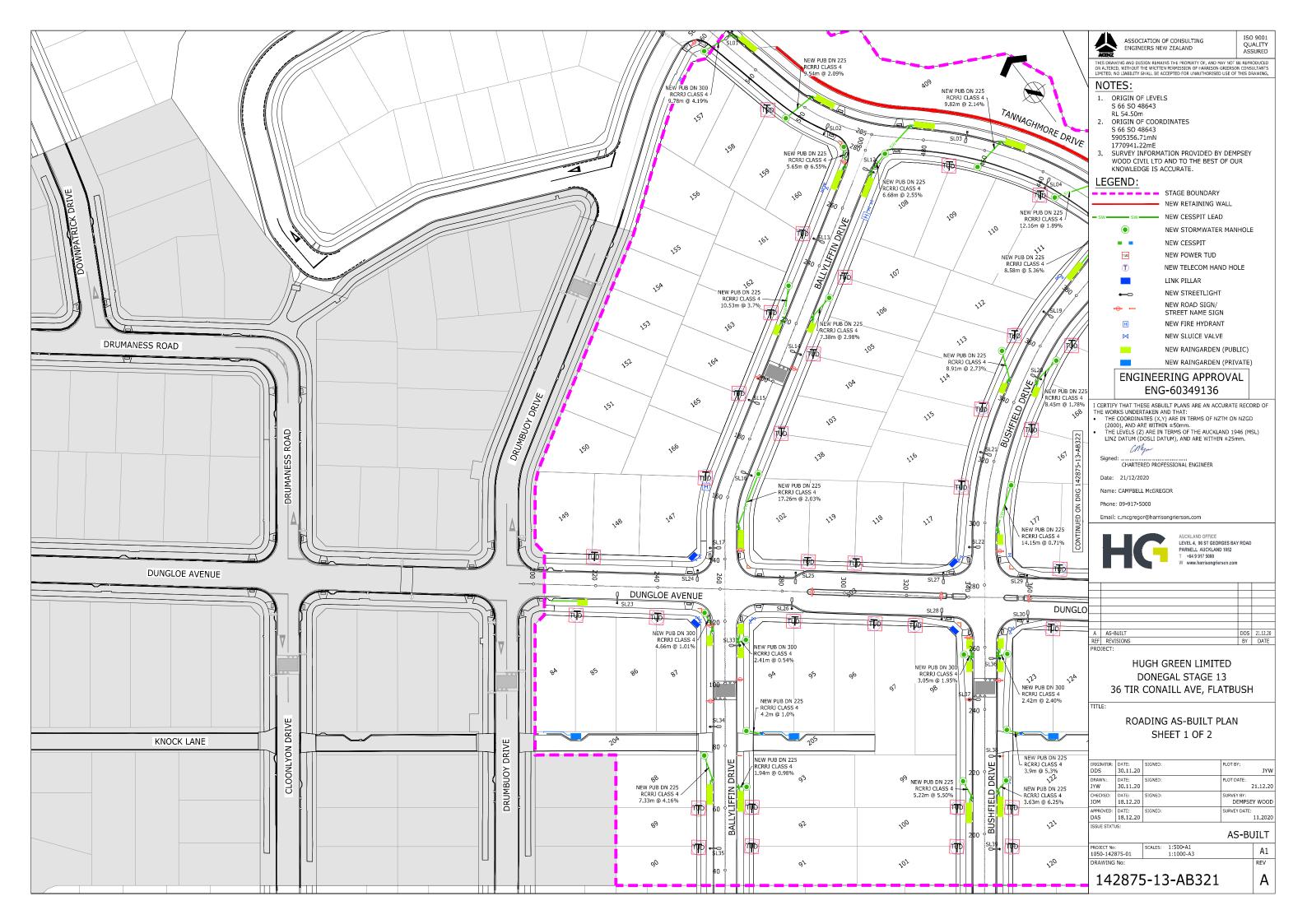
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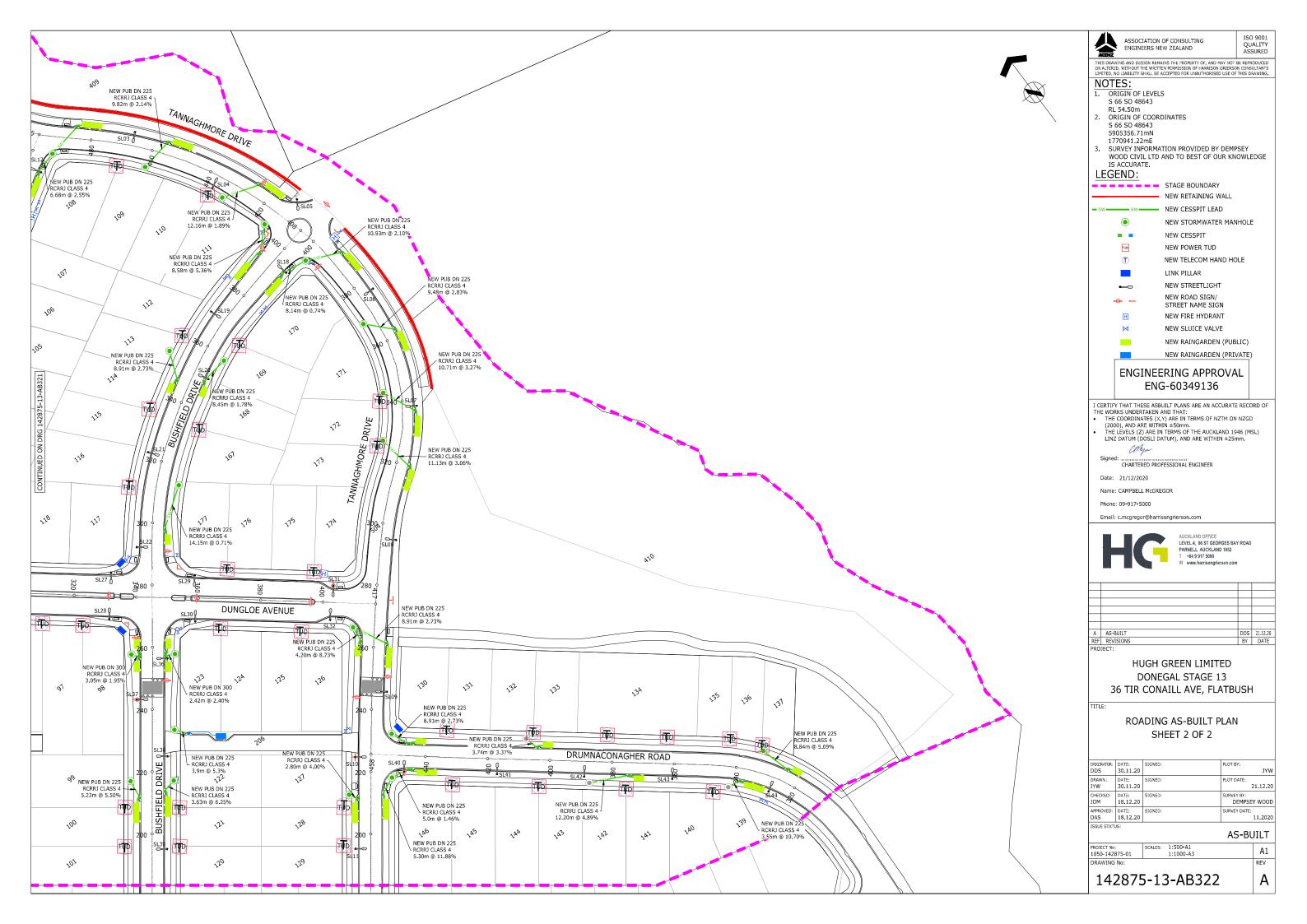












COORDINATE SCHEDULE				
SL No.	mE	mN		
SL01	1770488.70	5905555.66		
SL02	1770492.63	5905511.60		
SL03	1770529.77	5905484.32		
SL04	1770538.96	5905455.06		
SL05	1770558.44	5905435.73		
SL06	1770560.70	5905398.16		
SL07	1770549.37	5905359.62		
SL08	1770518.12	5905329.10		
SL09	1770486.49	5905291.84		
SL10	1770465.77	5905281.16		
SL11	1770448.14	5905257.55		
SL12	1770497.90	5905492.21		
SL13	1770469.81	5905486.52		
SL14	1770443.94	5905459,38		
SL15	1770421.99	5905457.59		
SL16	1770407.96	5905437,77		
SL17	1770383.36	5905427.12		
SL18	1770543.21	5905422.00		
SL19	1770514.73	5905423.41		
SL20	1770500.95	5905406.70		
SL21	1770471.46	5905399.42		
SL22	1770450.16	5905377.29		
SL23	1770348.89	5905430.92		
SL24	1770375.82	5905423.72		
SL25	1770400.56	5905404.15		
SL26	1770392.69	5905395.74		
SL27	1770438.55	5905375.60		
SL28	1770429.21	5905364.16		
SL29	1770459.54	5905358.83		
SL30	1770450.45	5905349.91		
SL31	1770493.18	5905329.41		
SL32	1770485.83	5905321.34		
SL33	1770372.23	5905396.29		
SL34	1770348.89	5905381.15		
SL35	1770325,39	5905349,85		
SL36	1770436.53	5905342.77		
SL37	1770420.78	5905338.05		
SL38	1770417.63	5905317.63		
SL39	1770399.63	5905293.84		
SL40	1770475.60	5905268.01		
SL41	1770498.95	5905249.49		
SL42	1770520.88	5905231.99		
SL43	1770543.01	5905214.43		
SL44	1770565.41	5905192.54		



ISO 9001 QUALITY ASSURED

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NOTES:

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ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT PLANS ARE AN ACCURATE RECORD OF
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 LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Colyn

Date: 21/12/2020 Name: CAMPBELL McGREGOR

Phone: 09-917-5000



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

Α	AS-BUILT	DDS	21.12.20	
REF	REVISIONS	BY	DATE	
DDO:	0.015.07			

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVE, FLATBUSH

STREETLIGHTS AS-BUILT SCHEDULE OF COORDINATES

	ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
	DDS	30.11.20		JYW
	DRAWN:	DATE:	SIGNED:	PLOT DATE:
	JYW	30.11.20		21.12.20
	CHECKED:	DATE:	SIGNED:	SURVEY BY:
	JOM	18.12.20		DEMPSEY WOOD
	APPROVED:	DATE:	SIGNED:	SURVEY DATE:
	DAS	18.12.20		11.2020

ISSUE STATUS:

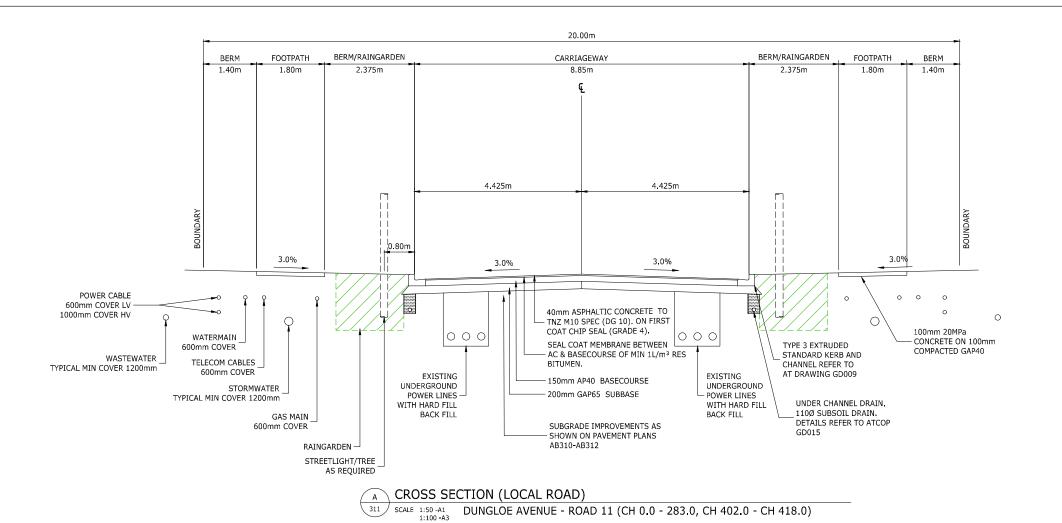
AS-BUILT

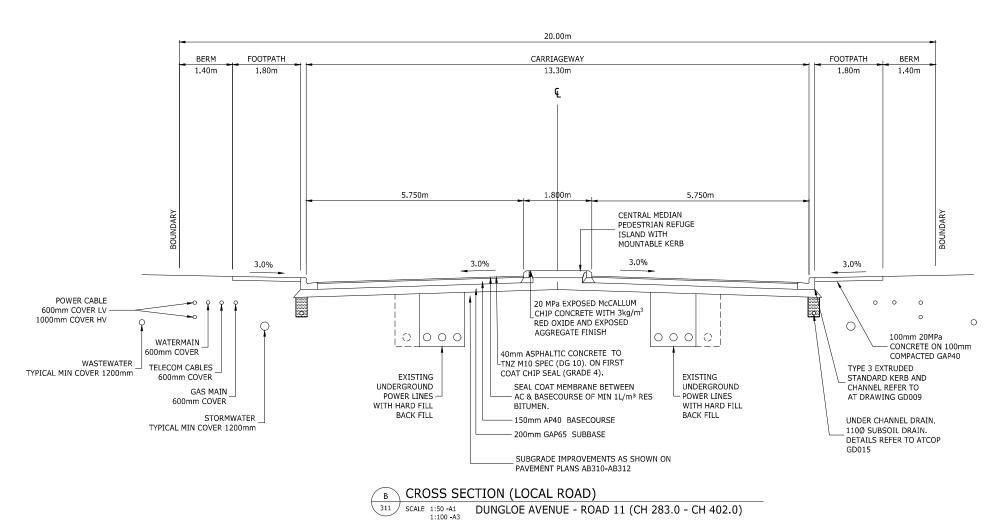
SCALES: NOT TO SCALE PROJECT No: 1050-142875-01

142875-13-AB323

Α

A1





ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

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 LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Colyn

CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 +64 9 917 5000

А	AS-BUILT	DDS	21.12.20	
REF	REVISIONS	BY	DATE	
PRO	PROJECT:			

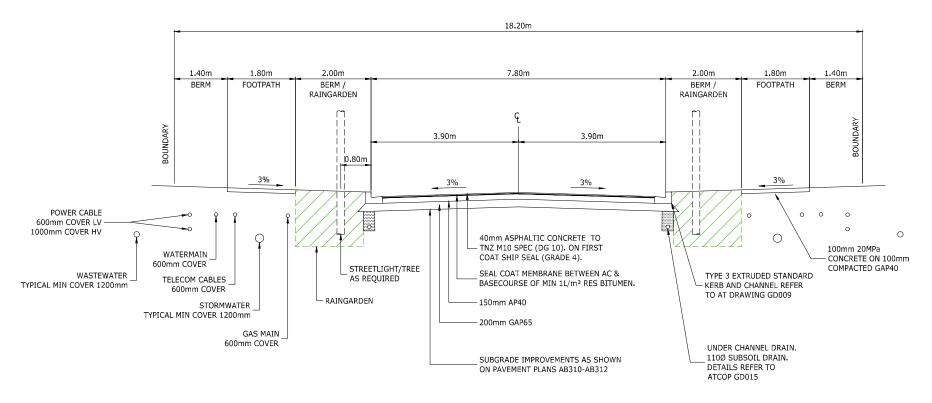
HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

TYPICAL ROAD CROSS-SECTIONS SHEET 1 OF 3 **AS-BUILT**

	ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
	DDS	30.11.20		JYW
	DRAWN: JYW	DATE: 30.11.20	SIGNED:	PLOT DATE: 21.12.20
	CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
	APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
	ISSUE STATE	IS:		

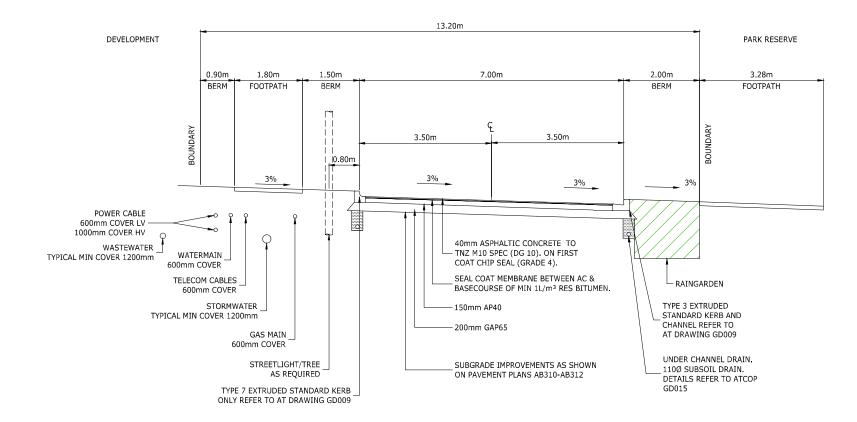
SCALES: AS SHOWN Α1

AS-BUILT



CROSS SECTION (LOCAL ROAD)

SCALE 1:50 -A1 1:100 -A3 BUSHFIELD DRIVE - ROAD 4 (CH 184.0 - CH 400.0) TANNAGHMORE DRIVE - ROAD 6 (CH 186.0 - CH 265.0) BALLYLIFFIN DRIVE - ROAD 9 (CH 35.0 - CH 280.0) DRUMNACONAGHER DRIVE - ROAD 10 (CH 309.0 - CH 451.0)





TANNAGHMORE DRIVE - ROAD 6 (CH 543.0 - CH 568.0, CH 289.0 - CH 348.0)



ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

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Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20	
REF	REVISIONS	BY	DATE	
PRO:	PROJECT:			

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

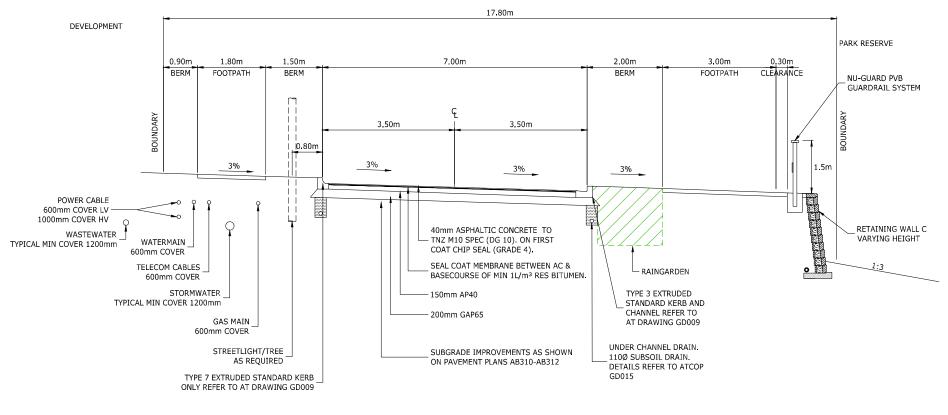
REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES File: NEWMARKET N:\1050\142875_A\CAD\AS-BUILTS\STAGE 13\142875-13-AB330-333.DWG

TYPICAL ROAD CROSS-SECTIONS SHEET 2 OF 3 **AS-BUILT**

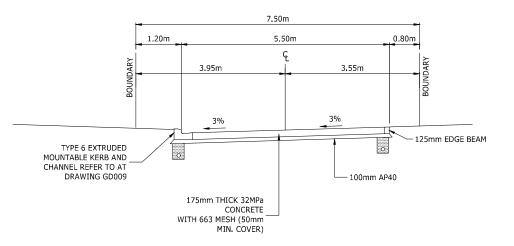
ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	30.11.20		JYW
DRAWN: JYW	DATE: 30.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
ISSUE STATE	IS:		

AS-BUILT SCALES: AS SHOWN

Α1







CROSS SECTION (JOAL WITHOUT RAINGARDEN)

JOAL 4 (CH 201.0 - CH 209.0 & CH 219.0 - CH 253.0) JOAL 5 (CH 272.0 - CH 280.0 & CH 289.0 - CH 311.0) JOAL 6 (CH 355.0 - CH 364.0 & CH 373.0 - CH 407.0)

7.50m 3.50m 0.80m 3.20m 3.95m 125mm EDGE BEAM RAINGARDEN -

CROSS SECTION (JOAL WITH RAINGARDEN)

JOAL 4 (CH 209.0 - CH 219.0) JOAL 5 (CH 280.0 - CH 289.0)

JOAL 6 (CH 364.0 - CH 373.0)

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

I CERTIFY THAT THESE ASBUILT PLANS ARE AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

- E WORKS UNDERLAREN AND ITAL:
 THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD
 (2000), AND ARE WITHIN ±50mm.
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 LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

CMyn

CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000

Email: c.mcgregor@harrisongrierson.com



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 +64 9 917 5000

Α	AS-BUILT	DDS	21.12.20	
REF	REVISIONS	BY	DATE	
DDOJECT.				

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

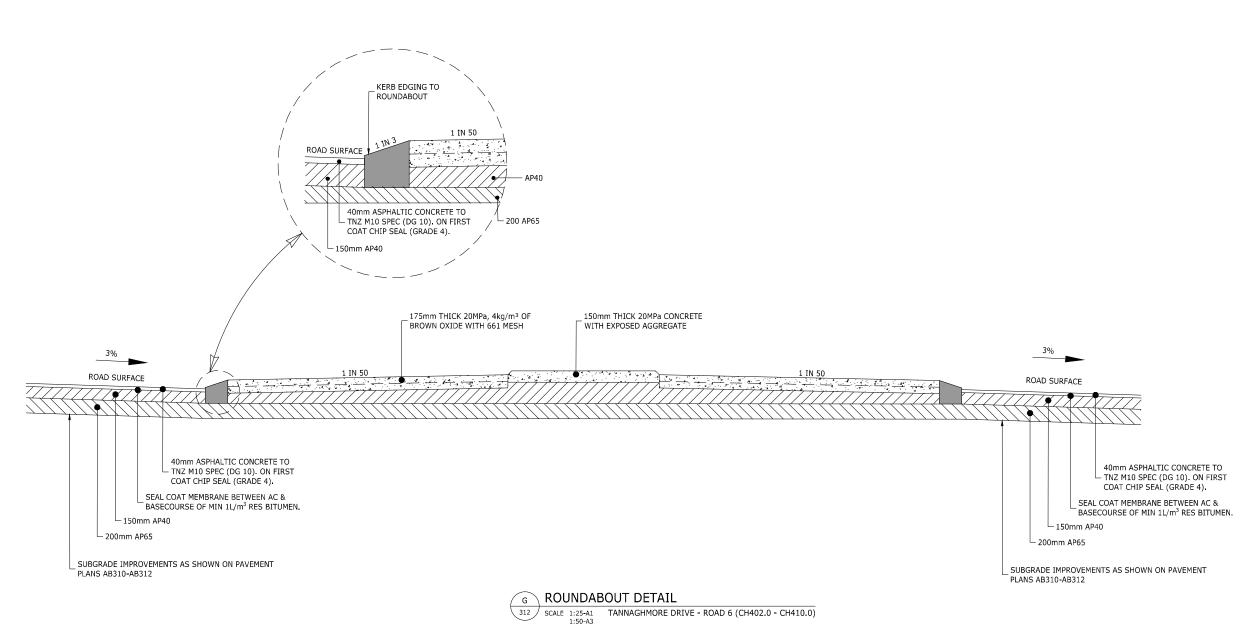
TYPICAL ROAD CROSS-SECTIONS SHEET 3 OF 3 **AS-BUILT**

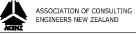
ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	30.11.20		JYW
DRAWN: JYW	DATE: 30.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
TO CHE CTATE	IC.		

AS-BUILT

Α1

SCALES: AS SHOWN





ISO 9001 QUALITY ASSURED

ENGINEERING APPROVAL ENG-60349136

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Colyn CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020 Name: CAMPBELL McGREGOR

Phone: 09-917-5000

Email: c.mcgregor@harrisongrierson.com



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

A AS-BUILT

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

TYPICAL ROAD CROSS-SECTIONS SHEET 3 OF 3 AS-BUILT

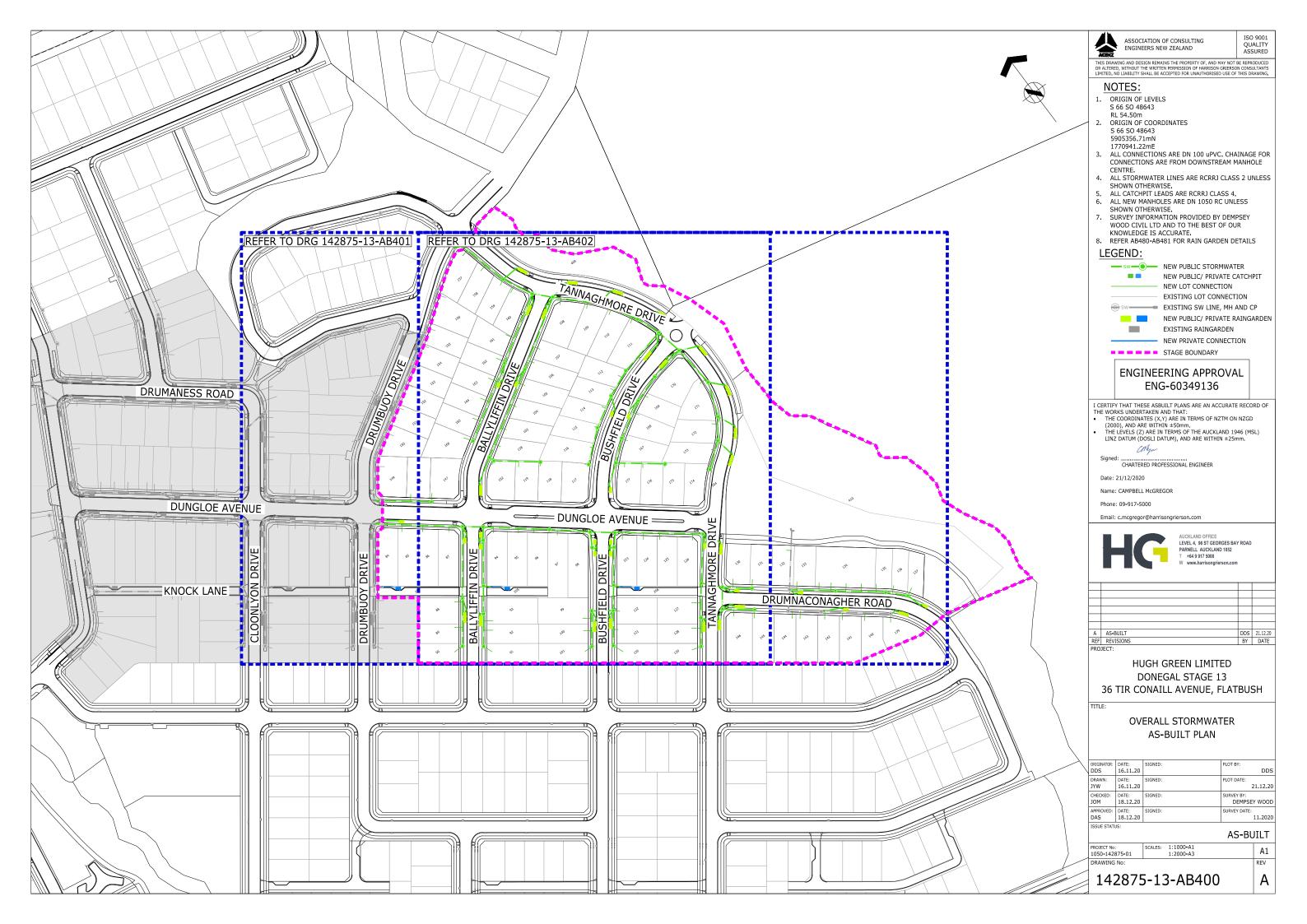
	ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
	DDS	30.11.20		JYW
	DRAWN: JYW	DATE: 30.11.20	SIGNED:	PLOT DATE: 21.12.20
	CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
	APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
	ISSUE STATE	IS:		

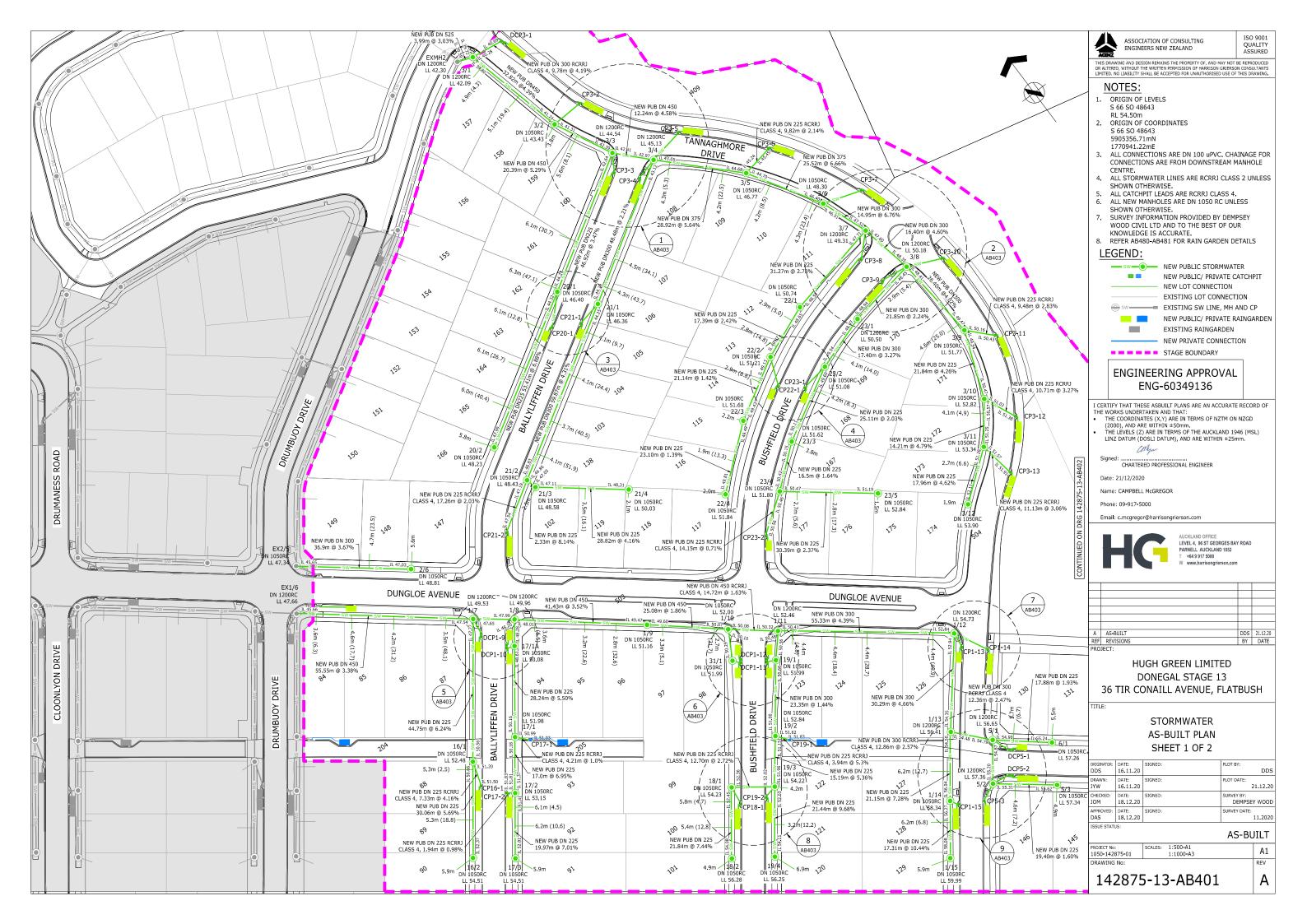
AS-BUILT

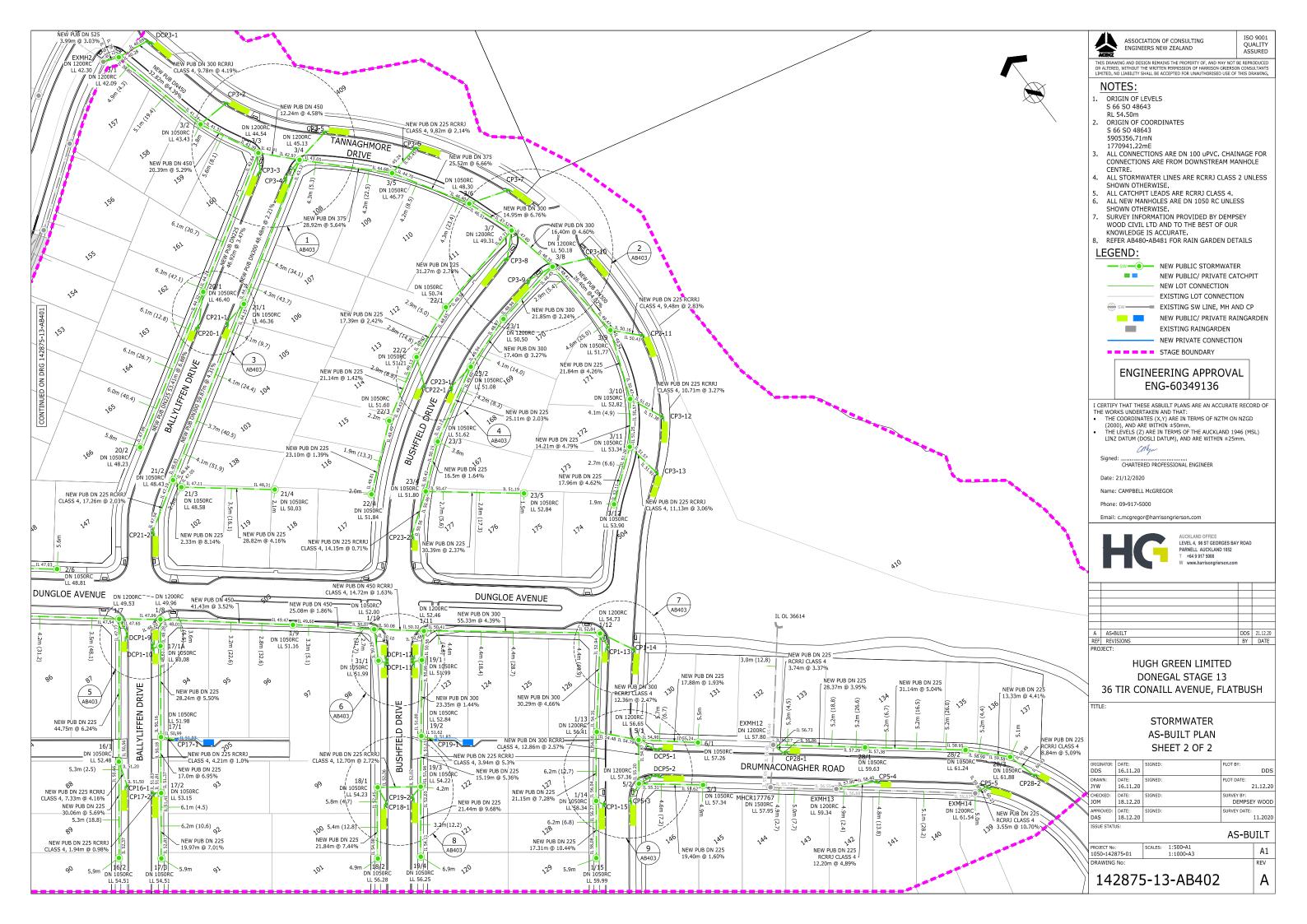
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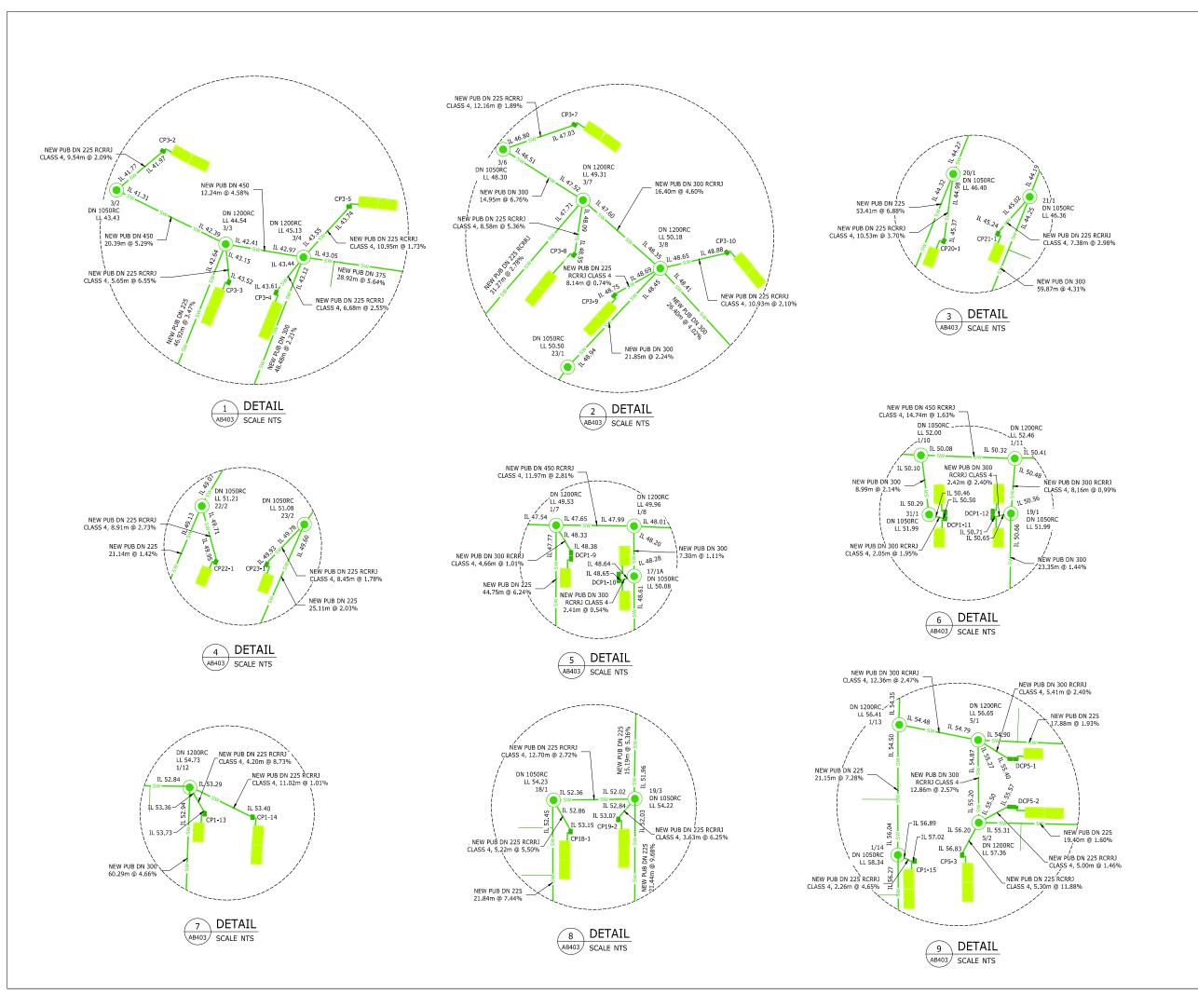
142875-13-AB333

SCALES: AS SHOWN











ISO 9001 QUALITY

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.
- ALL CATCHPIT LEADS ARE RCRRJ CLASS 4.
- ALL NEW MANHOLES ARE DN 1050 RC UNLESS SHOWN OTHERWISE.
- SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR
- KNOWLEDGE IS ACCURATE.

 8. REFER AB480-AB481 FOR RAIN GARDEN DETAILS

LEGEND:

NEW PUBLIC STORMWATER NEW PUBLIC/ PRIVATE CATCHPIT NEW LOT CONNECTION EXISTING LOT CONNECTION

EXISTING SW LINE, MH AND CP

NEW PUBLIC/ PRIVATE RAINGARDEN EXISTING RAINGARDEN

STAGE BOUNDARY

ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT 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 ±25mm.

anyon

Date: 21/12/2020 Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

A AS-BUILT REF REVISIONS

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLATBUSH

ROIFCT:

STORMWATER DETAILS AS-BUILTS

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:	
DDS	16.11.20		DDS	
DRAWN:	DATE:	SIGNED:	PLOT DATE:	
JYW	16.11.20		21.12.20	
CHECKED:	DATE:	SIGNED:	SURVEY BY:	
JOM	18.12.20		DEMPSEY WOOD	
APPROVED:	DATE:	SIGNED:	SURVEY DATE:	
DAS	18.12.20		11.2020	
ISSUE STATUS:				

AS-BUILT ROJECT No: 1050-142875-01 Α1

Α

142875-13-AB403

		TE SCHEDULE	
MH No.	mE	mN	LL
1/10	1770432.97	5905359.61	52.00
1/11	1770445.43	5905349.58	52.46
1/12	1770490.23	5905314.91	54.73
1/13	1770470.42	5905290.26	56.41
1/14	1770456.91	5905272.66	58.34
1/15	1770445.91	5905257.92	59.99
1/7	1770369.42	5905411.50	49.53
1/8	1770379.95	5905403.41	49.96
1/9	1770412.96	5905376.44	51.16
2/6	1770363.07	5905436.32	48.81
3/1	1770477.77	5905555.97	42.09
3/10	1770543.25	5905369.40	52.82
3/11	1770533.91	5905357.17	53.34
3/12	1770518.78	5905345.44	53.90
3/2	1770485.81	5905522.94	43.43
3/3	1770495.17	5905504.42	44.54
3/4	1770504.40	5905494.68	45.13
3/5	1770525.67	5905473.41	46.77
3/6	1770539.59	5905450.67	48.30
3/7	1770545.29	5905435.60	49.31
3/8	1770548.84	5905418.37	50.18
3/9	1770551.44	5905390.92	51.77
31/1	1770428.03	5905350.71	51.99
5/1	1770479.60	5905280.11	56.65
5/2	1770471.24	5905268.80	57.36
5/3	1770487.48	5905256.11	57.34
6/1	1770494.34	5905268.00	57.26
16/1	1770341.79	5905374.87	52.48
16/2	1770323.22	5905350.09	54.51
17/1	1770357.36	5905373.05	51.98
17/1A	1770374.84	5905396.57	50.08
17/2	1770346.61	5905358.63	53.15
17/3	1770334.04	5905341.78	54.51
18/1	1770403.35	5905318.31	54.23
18/2	1770389.67	5905299.96	56.28
19/1	1770439.29	5905342.47	51.99
19/2	1770424.52	5905323.06	52.84
19/3	1770414.57	5905310.17	54.22
19/4	1770401.08	5905292.16	56.25
20/1	1770454.18	5905479.34	46.40
20/2	1770407.97	5905451.54	48.23
21/1	1770462.27	5905468.40	46.36
21/2	1770410.07	5905436.79	48.43
21/3	1770410.88	5905433.36	48.58
21/4	1770434.39	5905414.74	50.03
22/1	1770513.60	5905428.57	50.74
22/2	1770496.44	5905421.42	51.21
22/3	1770477.09	5905410.29	51.60
22/4	1770458.34	5905394.83	51.84
23/1	1770526.13	5905414.42	50.50
23/2	1770508.52	5905408.44	51.08
23/3	1770485.56	5905395.60	51.62
23/4	1770472.86	5905385.09	51.80
23/5	1770497.74	5905365.63	52.84
28/1	1770536.37	5905234.49	59.63
28/2	1770561.67	5905214.42	61.24
28/3	1770571.82	5905204.04	61.88
EX1/6	1770325.04	5905446.96	47.66
EX2/5	1770334.13	5905459.28	47.34
EXMH12	1770513.25	5905252.89	57.80
MHCR177767	1770504.37	5905242.47	57.95
EXMH13	1770520.94	5905229.35	59.34
EXMH14	1770555.82	5905201.42	61.54
EXMH2	1770472.91	5905557.78	42.30

POINT	mE	mN	LL	IL (OUT)	IL (IN)	SIZE (mm
CP1-13	1770489.61	5905309.79	54.91	53.73	53.36	675 x 450
CP1-14	1770495.77	5905304.40	54.92	53.40	53.29	675 x 450
CP1-15	1770458.56	5905270.09	58.22	56.79	56.69	675 x 450
CP3-10	1770559.56	5905413.74	50.22	51.38	51.03	675 x 450
CP3-11	1770558.56	5905383.64	51.75	50.43	50.16	675 x 450
CP3-11	1770548.00	5905358.90	52.63	51.38	51.03	675 x 450
CP3-12			53.13		51.03	675 x 450
	1770535.98	5905345.46		51.91		
CP3-2 CP3-3	1770496.13 1770491.76	5905523.57 5905498.87	43.21 44.76	41.97 43.52	41.77	675 x 450
CP3-4	1770497.03	5905492.64	44.72	43.61	43.44	675 x 450
CP3-5	1770515.72	5905496.94	45.10	43.74	43.55	675 x 450
CP3-6	1770536.09	5905475.37	46.67	45.45	45.24	675 x 450
CP3-7	1770551.88	5905446.81	48.40	47.03	46.80	675 x 450
CP3-8	1770538.51	5905429.05	49.99	48.55	48.09	675 x 450
CP3-9	1770539.79	5905419.39	49.99	48.75	48.69	675 x 450
CP5-3	1770465.64	5905266.04	58.11	56.83	56.20	675 x 450
CP5-4	1770532.74	5905223.48	59.63	58.40	57.80	675 x 450
CP5-5	1770560.07	5905200.84	61.44	60.23	59.85	675 x 450
CP16-1	1770339.32	5905367.01	52.81	51.50	51.20	675 x 450
CP17-1	1770360.73	5905369.38	52.28	51.03	50.99	675 x 450
CP17-2	1770344.40	5905360.40	52.96	51.83	51.51	675 x 450
CP18-1	1770402.51	5905312.30	54.54	53.15	52.86	675 x 450
CP19-1	1770427.43	5905319.32	53.27	51.83	51.62	675 x 450
CP19-2	1770410.20	5905309.08	54.36	53.07	52.84	675 x 450
CP20-1	1770446.03	5905471.12	46.58	45.37	44.98	675 x 450
CP21-1	1770454.14	5905466.61	46.43	45.24	45.02	675 x 450
CP21-2	1770394.60	5905427.20	48.86	47.54	47.19	675 x 450
CP22-1	1770492.66	5905412.43	51.21	49.95	49.71	675 x 450
CP23-1	1770499.32	5905406.85	51.14	49.93	49.78	675 x 450
CP23-2	1770460.61	5905376.26	51.74	50.56	50.46	675 x 450
CP28-1	1770514.55	5905248.38	58.25	56.86	56.73	675 x 450
CP28-2	1770574.39	5905194.62	62.11	60.93	60.48	675 x 450
DCP1-10	1770372.61	5905398.04	49.91	48.65	48.64	675 x 450
DCP1-11	1770430.01	5905348.85	51.79	48.65	48.64	675 x 450
DCP1-12	1770436.70	5905344.26	51.79	50.71	50.65	675 x 450
DCP1-9	1770368.39	5905405.82	49.65	48.38	48.33	675 x 450
DCP3-1	1770488.25	5905554.15	47.71	40.69	40.28	675 x 450
DCP5-1	1770482.37	5905274.00	56.73	55.40	55.27	675 x 450
DCP5-2	1770477.44	5905267.49	56.73	55.57	55.50	675 x 450



ISO 9001 QUALITY ASSURED

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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.

ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT 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 ±25mm.

Myn

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



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

A AS-BUILT REF REVISIONS
PROJECT:

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLATBUSH

STORMWATER AS-BUILT SCHEDULE OF COORDINATES

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	16.11.20		DDS
DRAWN:	DATE:	SIGNED:	PLOT DATE:
JYW	16.11.20		21.12.20
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JOM	18.12.20		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
DAS	18.12.20		11.2020
ISSUE STATE	IS:		

SCALES: NOT TO SCALE

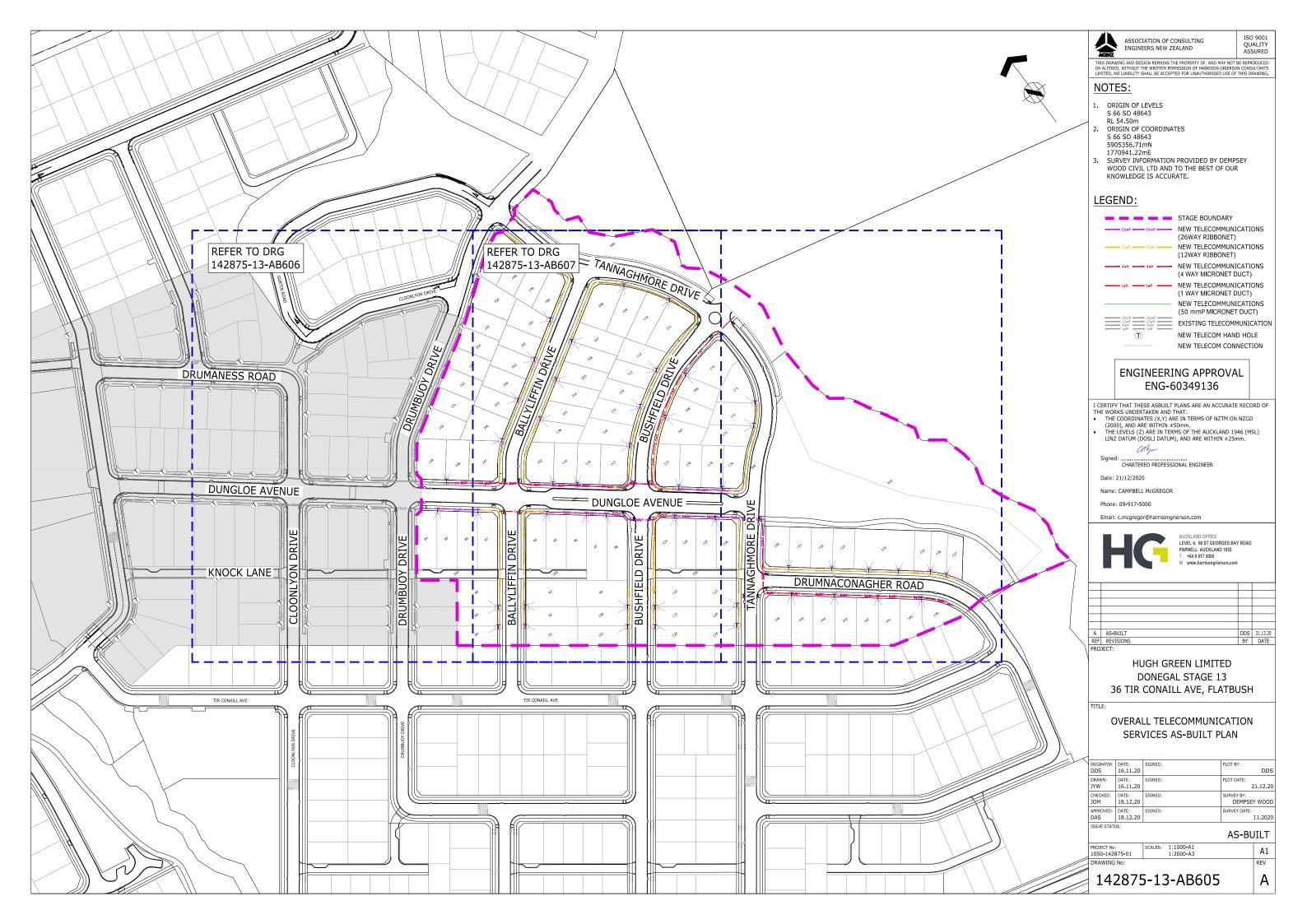
AS-BUILT

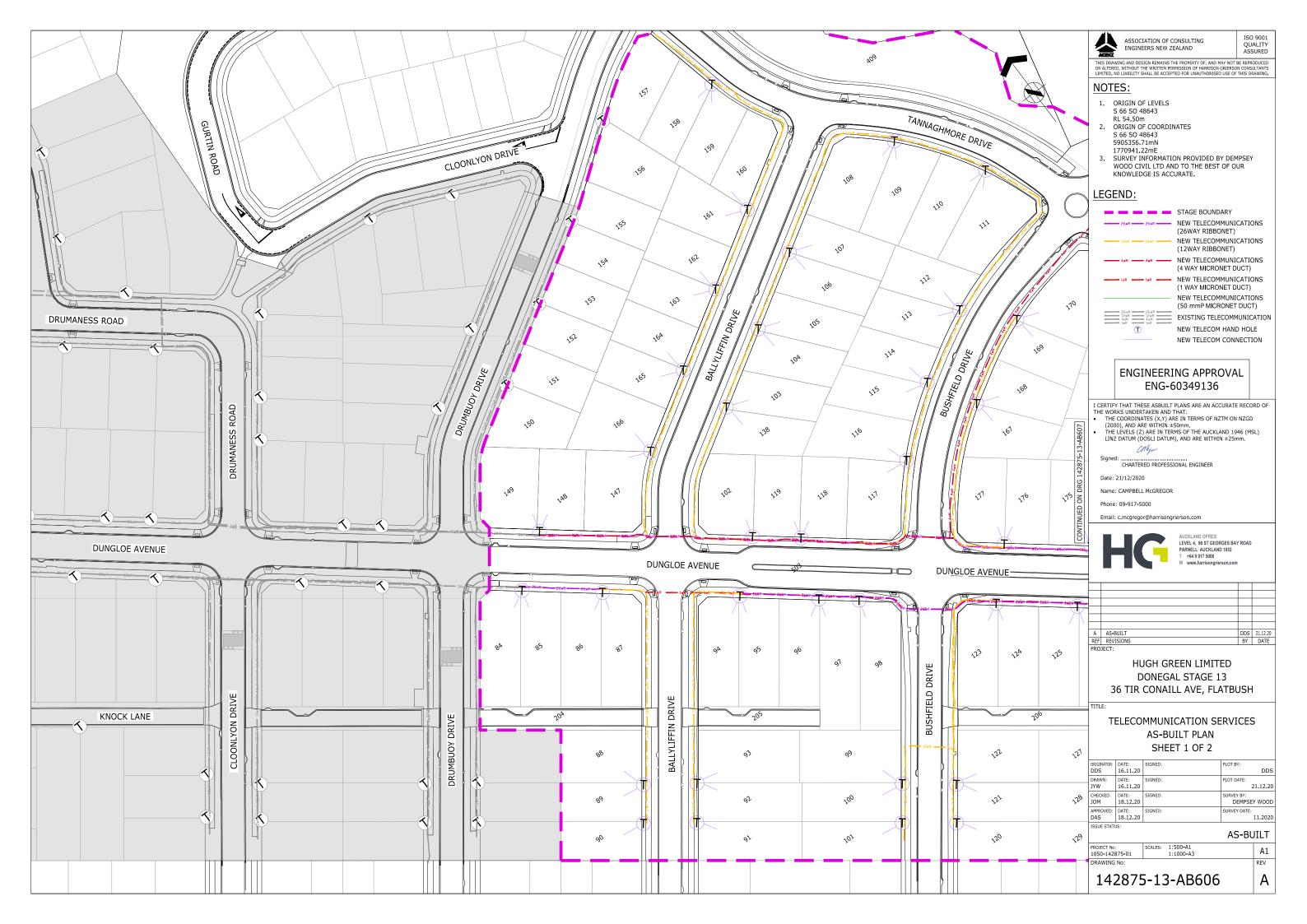
PROJECT No: 1050-142875-01

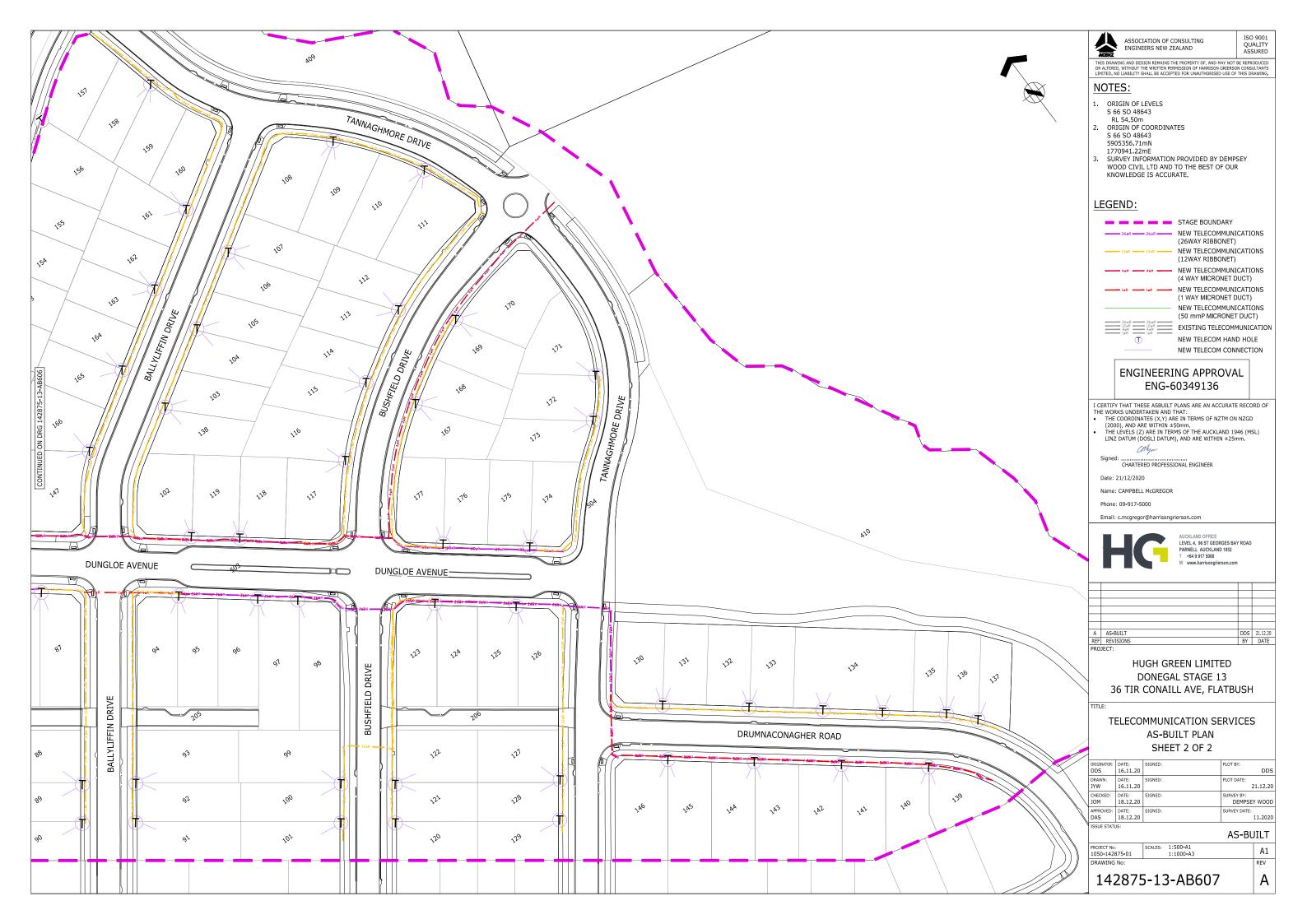
142875-13-AB404

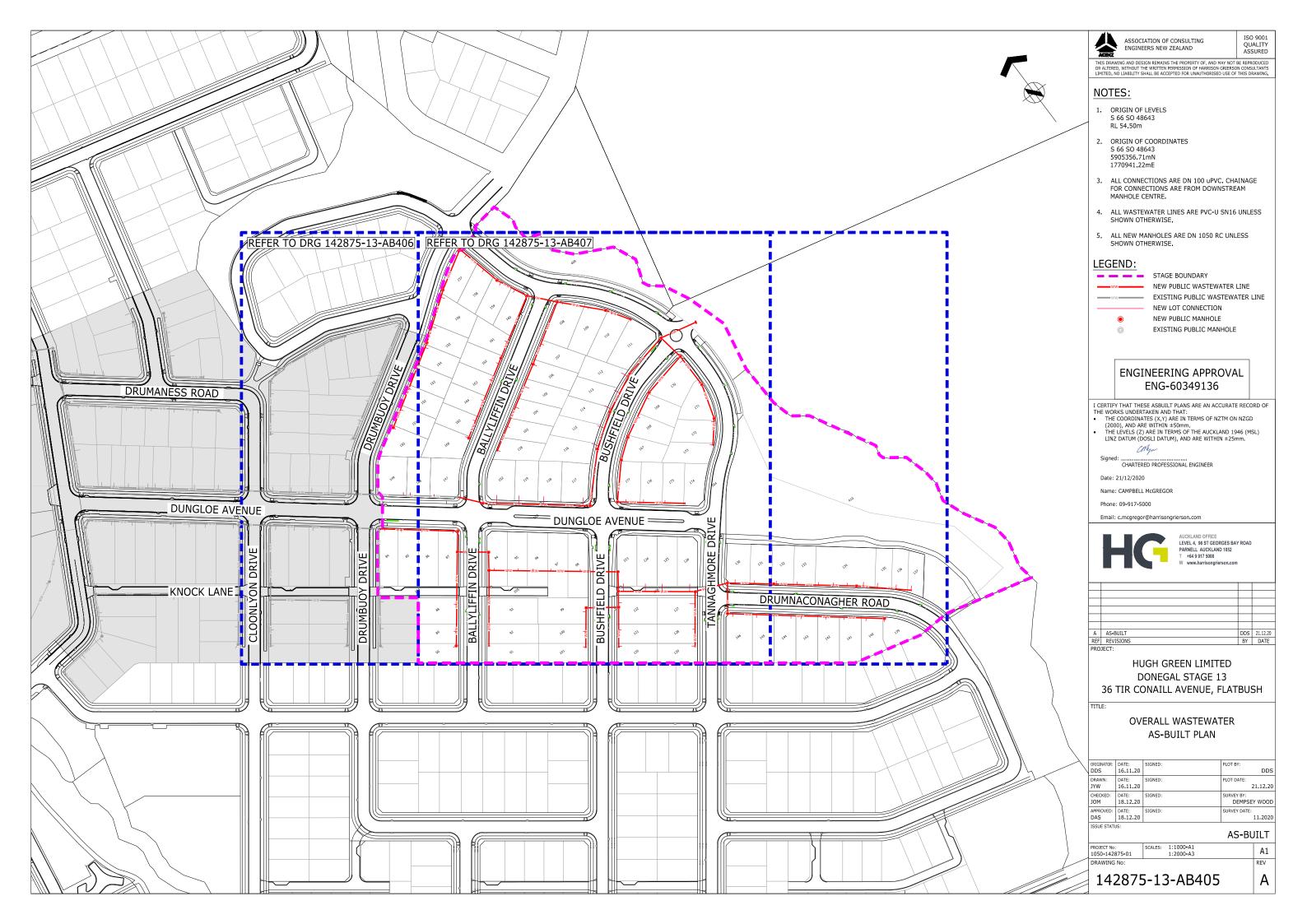
Α

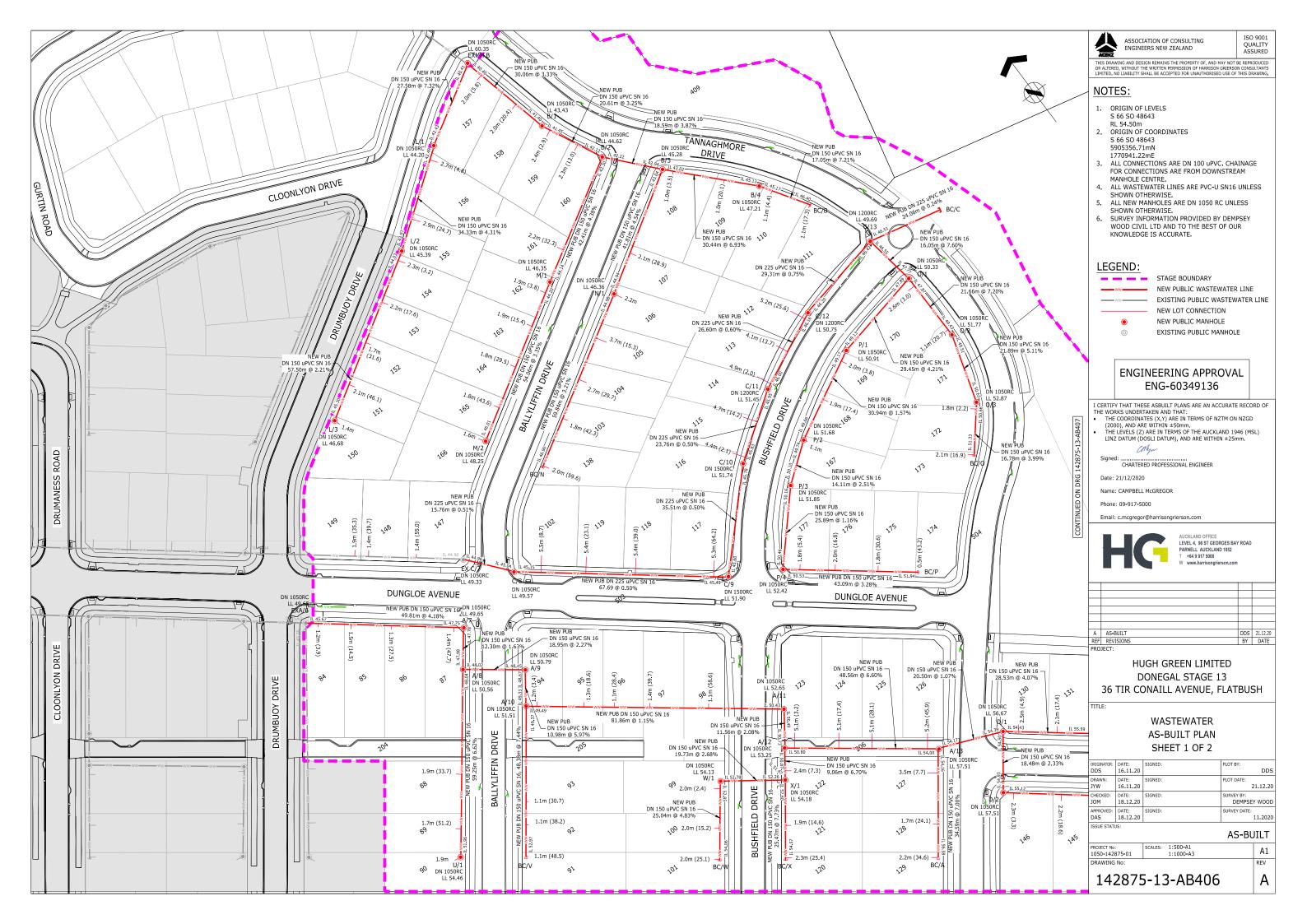
Α1

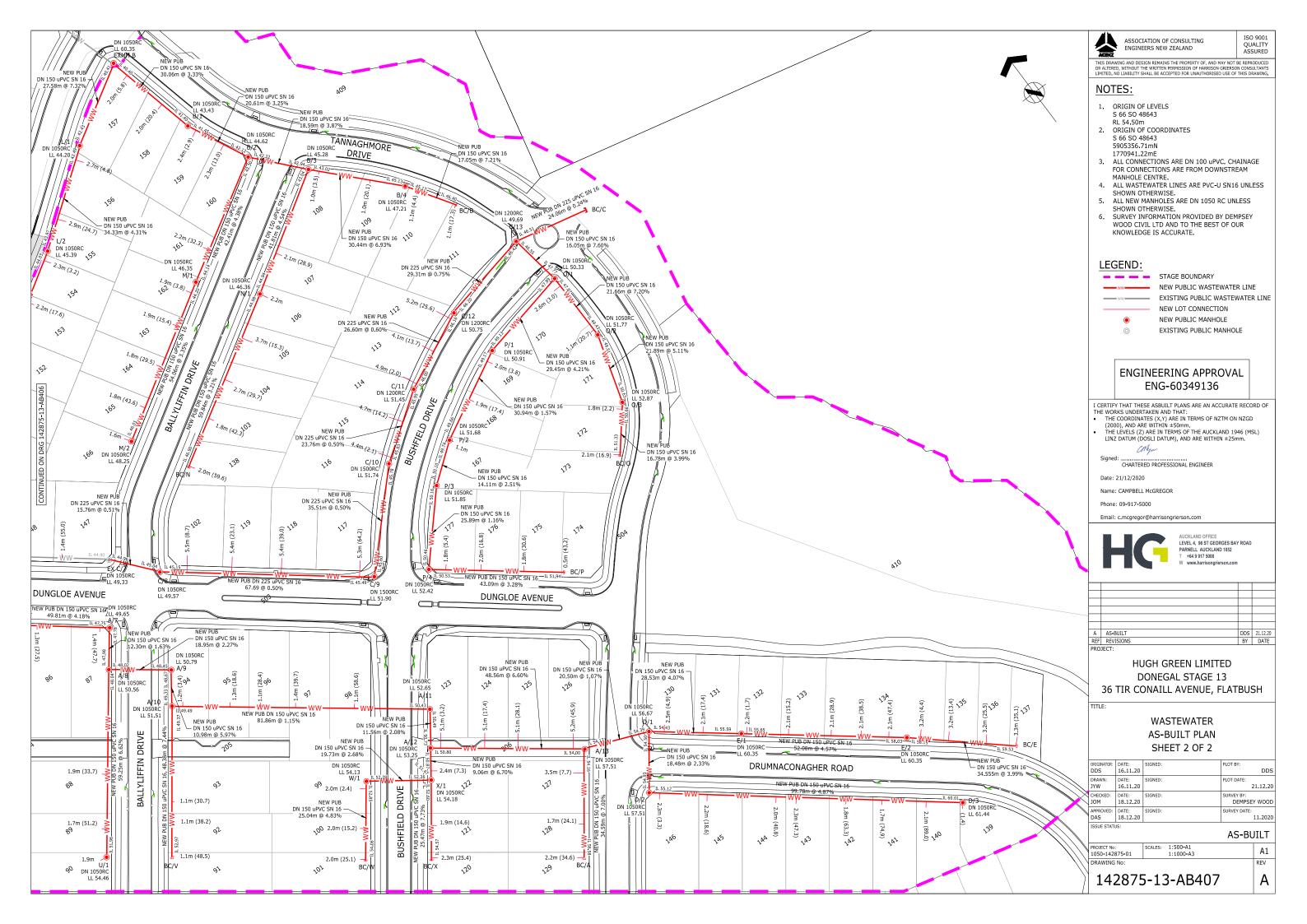












	COORDINA	TE SCHEDULE	
POINT	mE	mN	LEVEL
A/10	1770366.20	5905378.89	51.51
A/11	1770431.87	5905328.31	52.65
A/12	1770424.53	5905318.21	53.25
A/13	1770463.99	5905288.14	57.51
A/7	1770365.29	5905411.05	49.65
A/8	1770357.00	5905400.46	50.56
A/9	1770372.97	5905388.31	50.79
B/1	1770482.26	5905524.95	43.43
B/2	1770491.76	5905505.33	44.62
B/3	1770504.86	5905490.51	45.28
B/4	1770526.50	5905467.53	47.21
C/10	1770468.76	5905399.32	51.74
C/11	1770489.47	5905413.69	51.45
C/12	1770514.55	5905425.56	50.75
C/13	1770544.38	5905431.91	49.69
C/8	1770388.95	5905415.69	49.57
C/9	1770443.19	5905373.12	51.90
D/1	1770483.88	5905280.28	56.67
D/2	1770472.13	5905264.50	57.51
D/3	1770550.83	5905201.41	61.44
E/1	1770507.22	5905261.90	60.35
E/2	1770549.01	5905228.94	60.35
L/1	1770450.65	5905540.79	44.20
L/2	1770422.06	5905519.86	45.39
L/3	1770372.07	5905489.21	46.68
M/1	1770454.17	5905483.29	46.35
M/2	1770406.87	5905454.76	48.25
N/1	1770468.35	5905467.84	46.36
0/1	1770547.08	5905414.92	50.33
0/2	1770547.31	5905392.12	51.77
0/3	1770540.62	5905370.04	52.87
P/1	1770517.14	5905408.48	50.91
P/2	1770488.88	5905393.69	51.68
P/3	1770476.78	5905384.52	51.85
P/4	1770458.59	5905364.44	52.42
U/1	1770320.19	5905352.68	54.46
W/1	1770401.64	5905322.03	54.13
X/1	1770418.55	5905309.86	54.18
EX C/7	1770378.27	5905428.63	49.33
EXA/6	1770325.56	5905442.74	49.65
ЕХМН В	1770475.26	5905555.45	60.35



ISO 9001 QUALITY ASSURED

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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.

ENGINEERING APPROVAL ENG-60349136

- I CERTIFY THAT THESE ASBUILT 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 (2) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Myn

Date: 21/12/2020 Name: CAMPBELL McGREGOR

Phone: 09-917-5000



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

Α	AS-BUILT	DDS	21.12.20
REF	REVISIONS	BY	DATE
22.0	ECT.		•

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLATBUSH

WASTEWATER AS-BUILT SCHEDULE OF COORDINATES

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	16.11.20		DDS
DRAWN:	DATE:	SIGNED:	PLOT DATE:
JYW	16.11.20		21.12.20
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JOM	18.12.20		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
DAS	18.12.20		11.2020
ISSUE STATE	JS:		

AS-BUILT

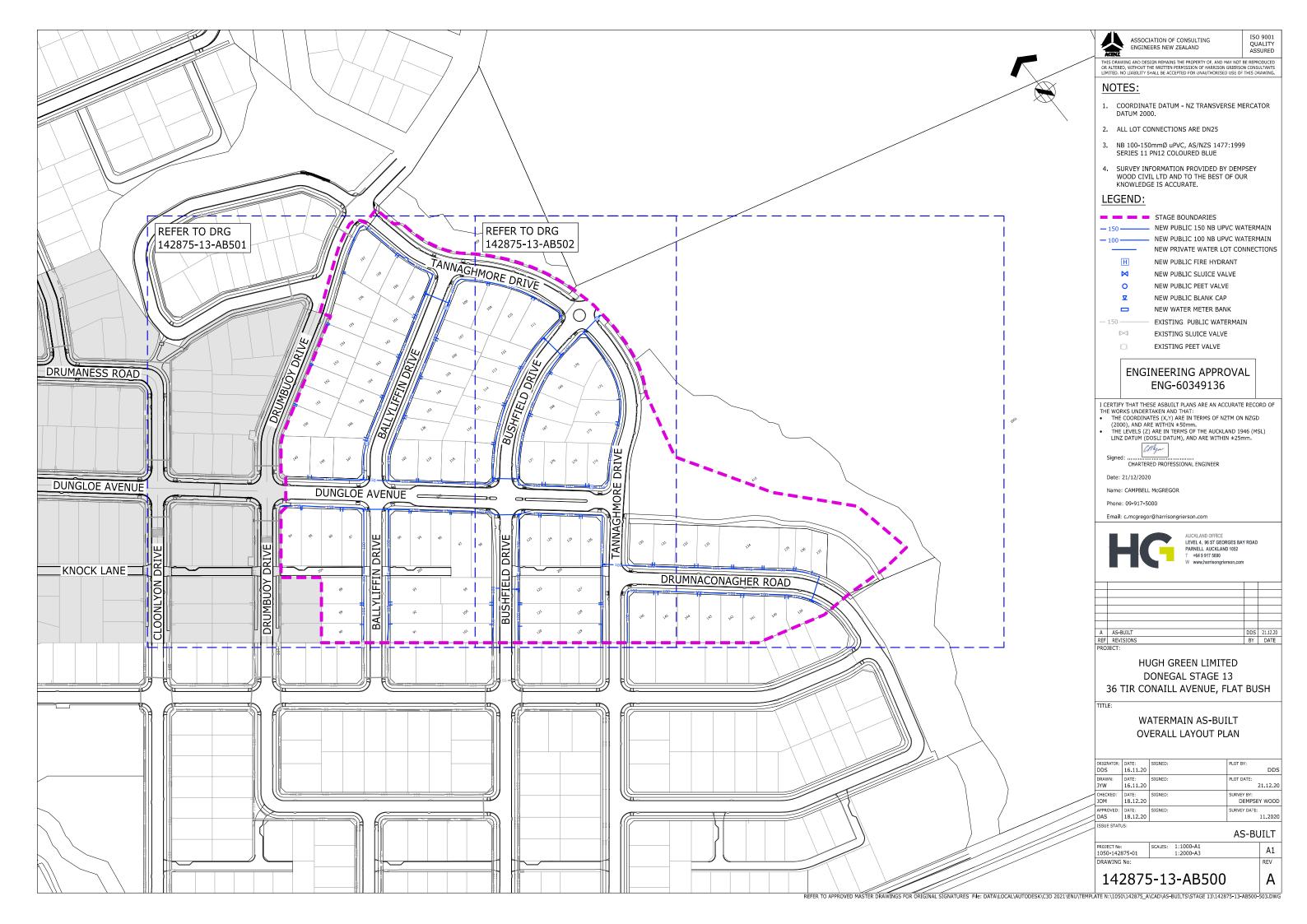
PROJECT No: 1050-142875-01

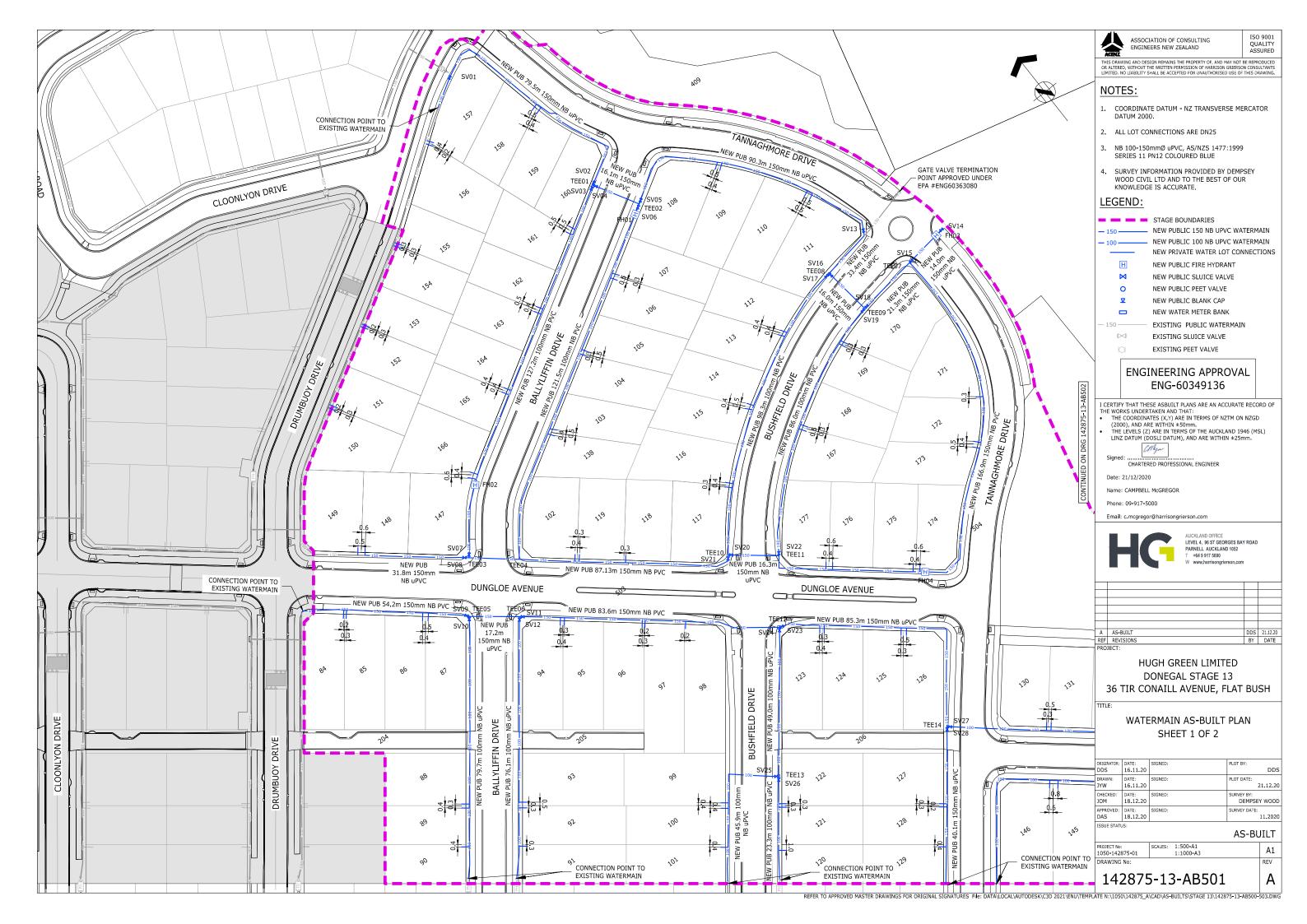
142875-13-AB408

SCALES: NOT TO SCALE

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Α1







ISO 9001 QUALITY ASSURED

NOTES:

- COORDINATE DATUM NZ TRANSVERSE MERCATOR DATUM 2000.
- 2. ALL LOT CONNECTIONS ARE DN25
- 3. NB 100-150mmØ uPVC, AS/NZS 1477:1999 SERIES 11 PN12 COLOURED BLUE
- 4. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

M

0

STAGE BOUNDARIES

NEW PUBLIC 150 NB UPVC WATERMAIN

NEW PUBLIC 100 NB UPVC WATERMAIN NEW PRIVATE WATER LOT CONNECTIONS

NEW PUBLIC FIRE HYDRANT

NEW PUBLIC SLUICE VALVE

NEW PUBLIC PEET VALVE

NEW PUBLIC BLANK CAP NEW WATER METER BANK

EXISTING PUBLIC WATERMAIN

EXISTING SLUICE VALVE

EXISTING PEET VALVE

ENGINEERING APPROVAL ENG-60349136

I CERTIFY THAT THESE ASBUILT 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 ±25mm.

Conyn

CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000

AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

REF REVISIONS PROJECT:

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

WATERMAIN AS-BUILT PLAN SHEET 2 OF 2

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	16.11.20		DDS
DRAWN: JYW	DATE: 16.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
ISSUE STATE	IS:		

AS-BUILT

Α1

142875-13-AB502

	COORDINA	TE SCHEDULE	
POINT	mE	mN	RL
FH01	1770487.59	5905482.33	44.33
FH02	1770394.25	5905443.40	48.68
FH03	1770561.05	5905418.88	49.44
FH04	1770493.27	5905334,22	53.98
SV01	1770466.20	5905553.25	42.33
SV02	1770482.90	5905498.39	44.51
SV03	1770481.29	5905497.38	44.51
SV04	1770482.79	5905497.15	44.55
SV05	1770491.62	5905484.86	44.59
SV06	1770489.63	5905483.61	44.49
SV07	1770379.12	5905426.89	48.26
SV08	1770377.37	5905426.99	48.31
SV09	1770366.74	5905411.64	49.14
SV10	1770366.77	5905410.25	49.06
SV11	1770380.94	5905400.59	49.30
SV12	1770379.53	5905400.44	49,20
SV13	1770543.06	5905434.09	49.26
SV14	1770563.29	5905419.24	49.30
SV15	1770549.44	5905417.03	49.64
SV16	1770526,11	5905428.86	49,65
SV17	1770524.78	5905429.50	49,56
SV18	1770529.31	5905414.02	49.92
SV19	1770527.45	5905413.64	49.88
SV20	1770446,46	5905376.21	51,44
SV21	1770444.94	5905375.91	51.48
SV22	1770458.99	5905367.45	51.46
SV23	1770445.57	5905348.06	51.70
SV24	1770444.27	5905347.52	51,69
SV25	1770415.38	5905310.54	53,58
SV26	1770415.28	5905309.23	53.67
SV27			
SV27	1770469.56 1770468,29	5905289.80 5905289.75	55.84 55.96
		5905289,75	
SV29	1770561.95		61.99
SV30	1770562.78	5905190.33	62.02
TEE01	1770482.28	5905497.97	44.20
TEE02	1770490.57	5905484.14	44,28
TEE03	1770378.54	5905426.10	48.04
TEE04	1770391.08	5905416.00	48.21
TEE05	1770367.29	5905411.00	48.79
TEE06	1770380.12	5905401,22	48,97
TEE07	1770548.69	5905416.92	49.34
TEE08	1770526.02	5905429.71	49.30
TEE09	1770528.39	5905413.87	49.61
TEE10	1770445.69	5905376.77	51,13
TEE11	1770458.61	5905366.76	51.21
TEE12	1770444.84	5905348.33	51.37
TEE13	1770415.95	5905310.16	53.37
TEE14	1770468.79	5905290.47	55,62
TEE15	1770562.37	5905191.10	61.73



ISO 9001 QUALITY ASSURED

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NOTES:

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- SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

ENGINEERING APPROVAL ENG-60349136

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 THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±25mm.

Signed: _______CHARTERED PROFESSIONAL ENGINEER

Date: 21/12/2020

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



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

A AS-BUILT
REF REVISIONS
PROJECT:

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

WATERMAIN AS-BUILT COORDINATE SCHEDULE

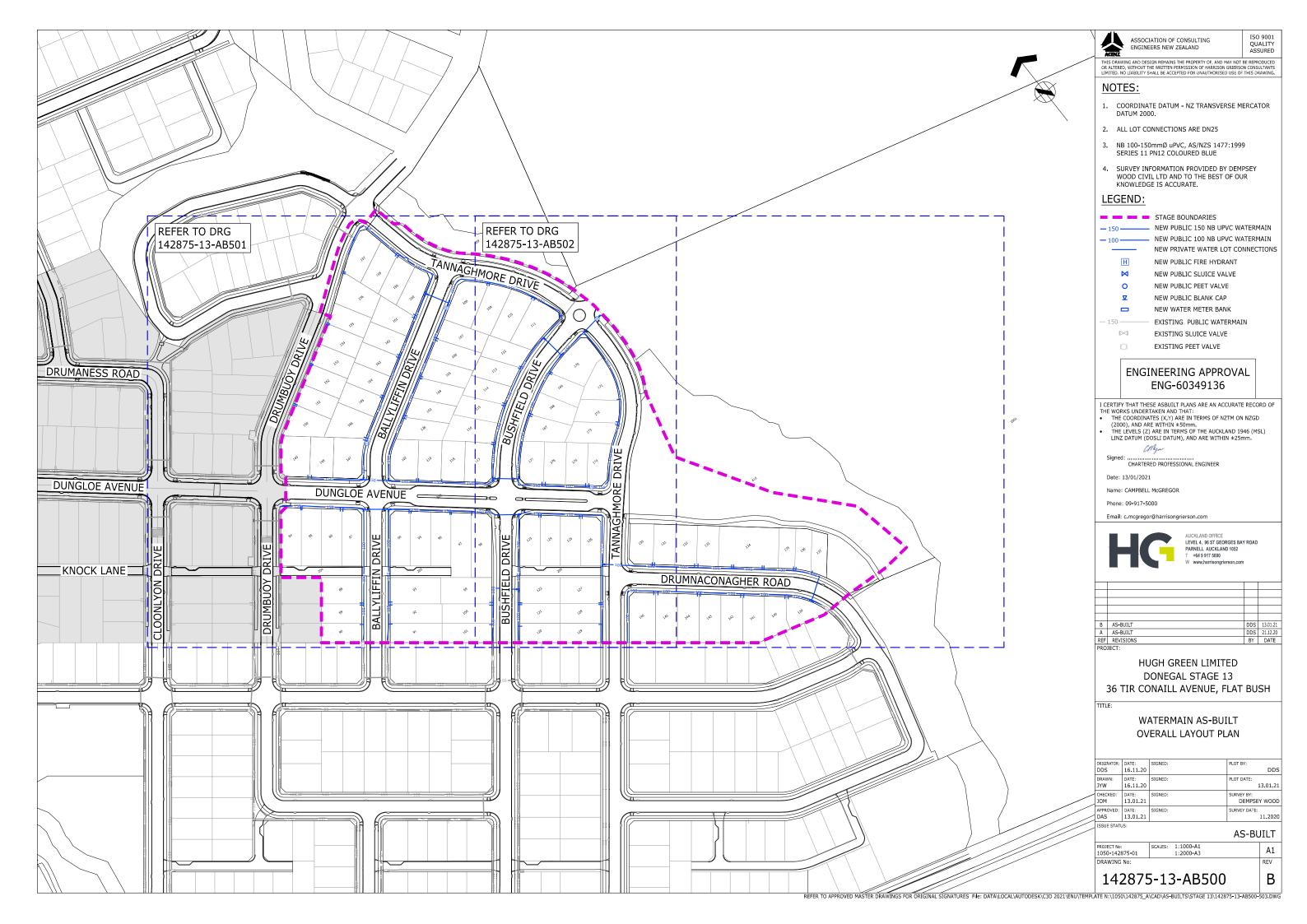
ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DDS	16.11.20		DDS
DRAWN: JYW	DATE: 16.11.20	SIGNED:	PLOT DATE: 21.12.20
CHECKED: JOM	DATE: 18.12.20	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 18.12.20	SIGNED:	SURVEY DATE: 11.2020
ISSUE STATE	JS:		

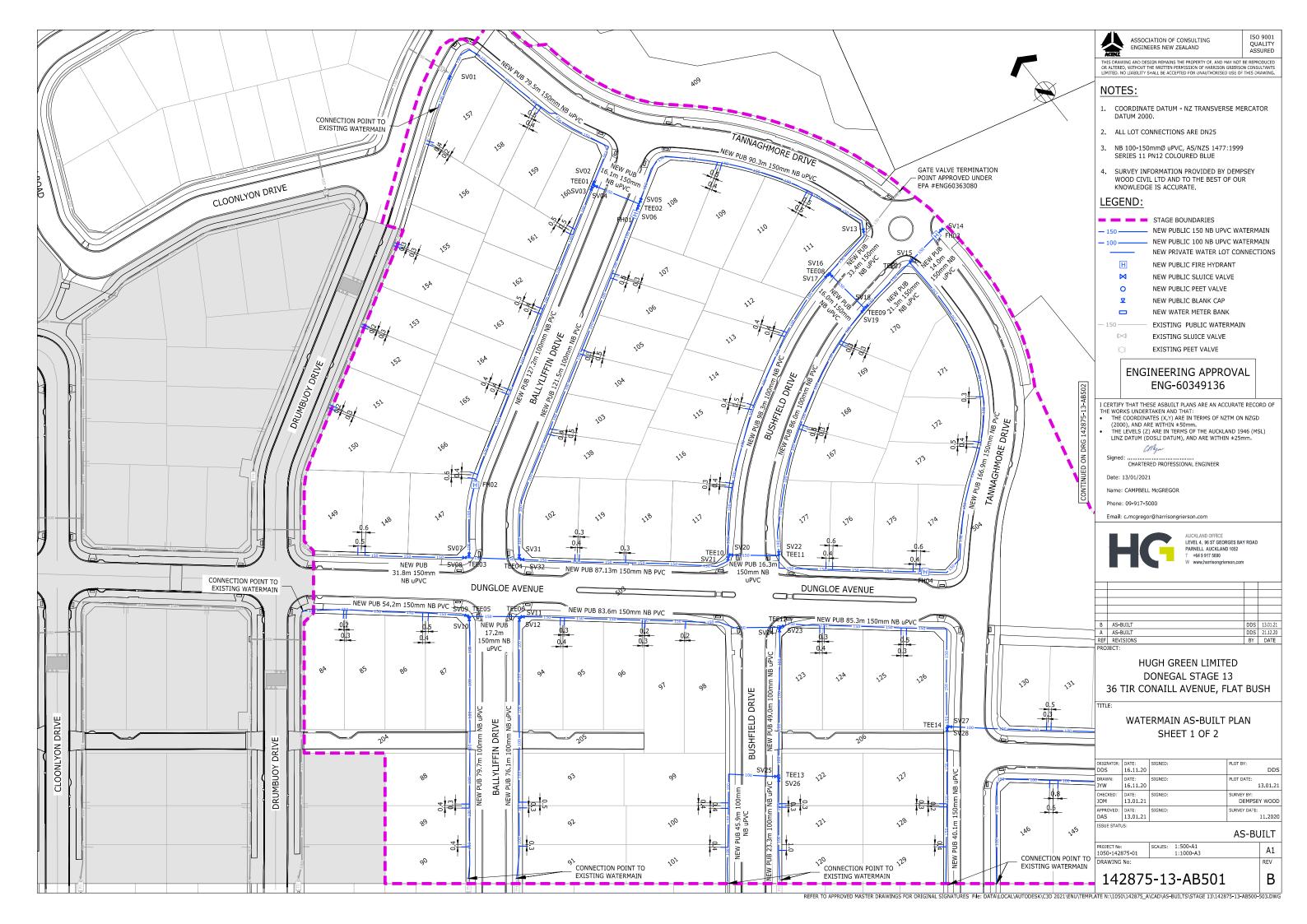
AS-BUILT

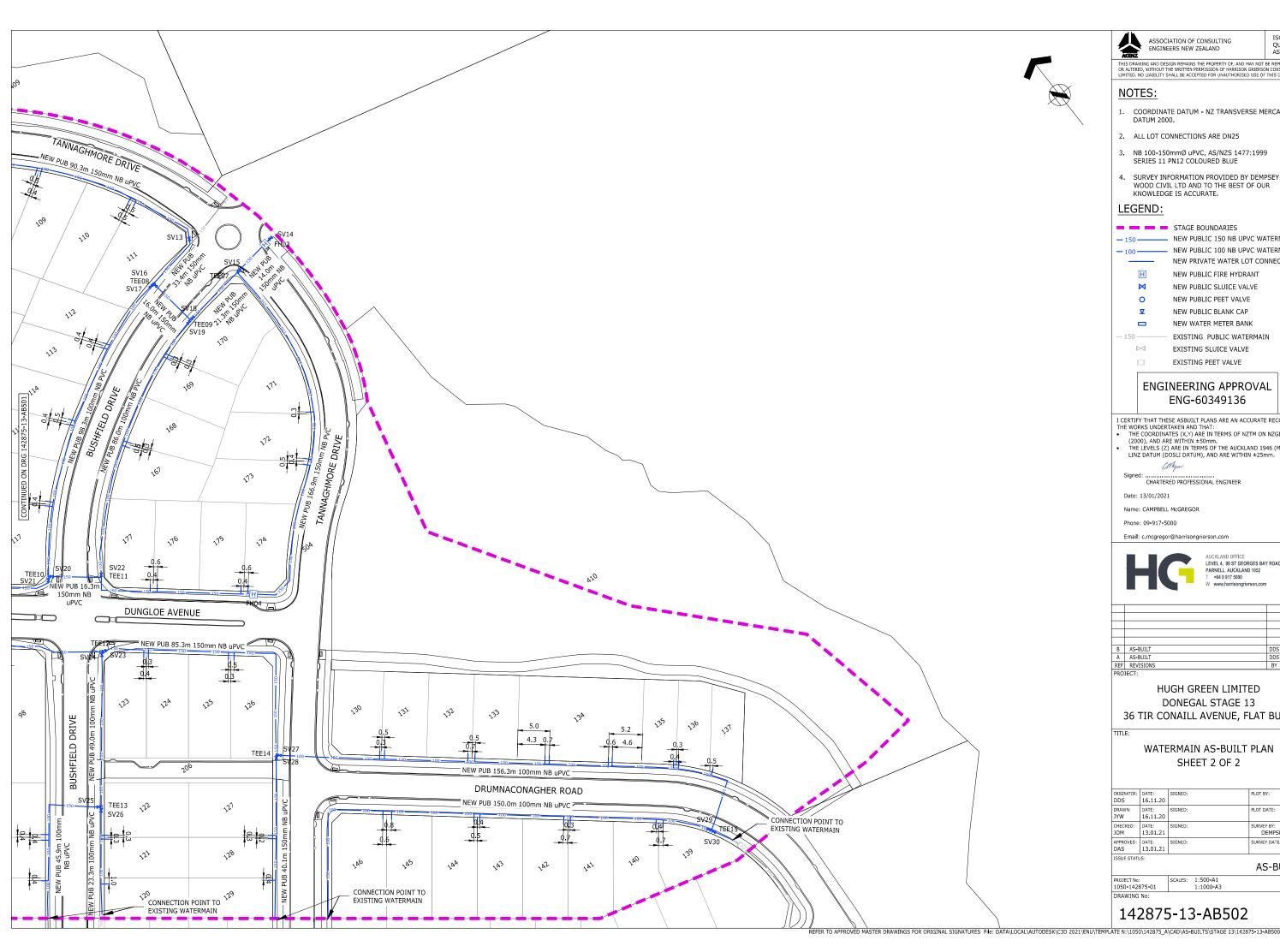
PROJECT No: 1050-142875-01 SCALES: NOT TO SCALE Α1

142875-13-AB503

Α









ISO 9001 QUALITY ASSURED

NOTES:

- COORDINATE DATUM NZ TRANSVERSE MERCATOR DATUM 2000.
- 2. ALL LOT CONNECTIONS ARE DN25
- 3. NB 100-150mmØ uPVC, AS/NZS 1477:1999 SERIES 11 PN12 COLOURED BLUE
- 4. SURVEY INFORMATION PROVIDED BY DEMPSEY WOOD CIVIL LTD AND TO THE BEST OF OUR KNOWLEDGE IS ACCURATE.

LEGEND:

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STAGE BOUNDARIES

NEW PUBLIC 150 NB UPVC WATERMAIN

NEW PUBLIC 100 NB UPVC WATERMAIN NEW PRIVATE WATER LOT CONNECTIONS

NEW PUBLIC FIRE HYDRANT

NEW PUBLIC SLUICE VALVE

NEW PUBLIC PEET VALVE

NEW PUBLIC BLANK CAP

NEW WATER METER BANK EXISTING PUBLIC WATERMAIN

EXISTING SLUICE VALVE

EXISTING PEET VALVE

ENGINEERING APPROVAL ENG-60349136

I CERTIFY THAT THESE ASBUILT 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 ±25mm.

Conyn

CHARTERED PROFESSIONAL ENGINEER

Date: 13/01/2021

Name: CAMPBELL McGREGOR

Phone: 09-917-5000



AUCKLAND OFFICE LEVEL 4, 96 ST GEORGES BAY ROAD PARNELL AUCKLAND 1052 T +64 9 917 5000

REF REVISIONS
PROJECT:

HUGH GREEN LIMITED DONEGAL STAGE 13 36 TIR CONAILL AVENUE, FLAT BUSH

WATERMAIN AS-BUILT PLAN SHEET 2 OF 2

ORIGINATOR:	DATE:	SIGNED:	PLOI BY:
DDS	16.11.20		DDS
DRAWN: JYW	DATE: 16.11.20	SIGNED:	PLOT DATE: 13.01.21
CHECKED: JOM	DATE: 13.01.21	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: DAS	DATE: 13.01.21	SIGNED:	SURVEY DATE: 11.2020
TOOLIE CTATE	IC.		

AS-BUILT

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142875-13-AB502

	COORDINA	TE SCHEDULE	
POINT	mE	mN	RL
FH01	1770487.59	5905482.33	44.33
FH02	1770394.25	5905443.40	48.68
FH03	1770561.05	5905418.88	49.44
FH04	1770493.27	5905334.22	53.98
SV01	1770466.20	5905553.25	42.33
SV02	1770482.90	5905498.39	44.51
SV03	1770481.29	5905497.38	44.51
SV04	1770482.79	5905497.15	44.55
SV05	1770491.62	5905484.86	44.59
SV06	1770489.63	5905483.61	44.49
SV07	1770379.12	5905426.89	48.26
SV08	1770377.37	5905426.99	48.31
SV09	1770366.74	5905411.64	49.14
SV10	1770366.77	5905410.25	49.06
SV11	1770380.94	5905400.59	49.30
SV12	1770379.53	5905400,44	49.20
SV13	1770543.06	5905434.09	49.26
SV13	1770563.29	5905419.24	49.30
SV15	1770549.44	5905417.03	49.64
SV15	1770526.11	5905428.86	49.65
SV17	1770524.78	5905429.50	49.56
SV17	1770529.31	5905429.50	49.92
SV19	1770527.45	5905413.64	49.88
SV20	1770446.46	5905376.21	51.44
SV21	1770444.94	5905375.91	51.48
SV22	1770458.99	5905367.45	51.46
SV23	1770445.57	5905348.06	51.70
SV24	1770444.27	5905347.52	51.69
SV25	1770415.38	5905310.54	53.58
SV26	1770415.28	5905309.23	53.67
SV27	1770469,56	5905289.80	55,84
SV28	1770468.29	5905289.75	55.96
SV29	1770561.95	5905191.80	61.99
SV30	1770562.78	5905190.33	62.02
SV31	1770391.68	5905416.77	48.62
SV32	1770391.84	5905415.37	48.61
TEE01	1770482.28	5905497.97	44.20
TEE02	1770490.57	5905484.14	44.28
TEE03	1770378.54	5905426.10	48.04
TEE04	1770391.08	5905416.00	48.21
TEE05	1770367.29	5905411.00	48.79
TEE06	1770380.12	5905401.22	48.97
TEE07	1770548.69	5905416.92	49.34
TEE08	1770526.02	5905429.71	49.30
TEE09	1770528.39	5905413.87	49.61
TEE10	1770445.69	5905376.77	51.13
TEE11	1770458.61	5905366.76	51.21
TEE12	1770444.84	5905348.33	51.37
TEE13	1770415.95	5905310.16	53.37
TEE14	1770468.79	5905290.47	55.62
TEE15	1770562,37	5905191.10	61.73



ISO 9001 QUALITY ASSURED

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NOTES:

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ENGINEERING APPROVAL ENG-60349136

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REF REVISIONS
PROJECT: HUGH GREEN LIMITED DONEGAL STAGE 13

B AS-BUILT
A AS-BUILT

WATERMAIN AS-BUILT COORDINATE SCHEDULE

36 TIR CONAILL AVENUE, FLAT BUSH

DATE: 16.11.20	SIGNED:	PLOT BY:
DATE: 16.11.20	SIGNED:	PLOT DATE: 13.01.2
DATE: 13.01.21	SIGNED:	SURVEY BY: DEMPSEY WOO
DATE: 13.01.21	SIGNED:	SURVEY DATE: 11.202
	DATE: 16.11.20 DATE: 13.01.21 DATE:	16.11.20 DATE: SIGNED: 16.11.20 DATE: SIGNED: 13.01.21 DATE: SIGNED: 13.01.21

ISSUE STATUS:

AS-BUILT

OJECT No: 50-142875-01	SCALES:	NOT TO SCALE	A1
RAWING No:			REV

142875-13-AB503

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