

CERTIFICATION

PATH F:\PROJECTS\50302\DWG\ASBUILT\50302-900 EW ASB.DWG

I, CHARTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THIS AS-BUILT SHOWS THE DEPTHS OF CUT AND FILL WHICH IS BASED ON PRECONSTRUCTION LEVELS SURVEYED BY OTHERS AND AS-BUILT LEVELS SURVEYED BY DODD CIVIL CONSULTANTS LTD AND THAT:

- THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN
- THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946(MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±20MM.



GRAPHIC SCALE (IN METRES) 1:1000@A3

503/02 906

THIS DRAWING REMAINS THE PROPERTY OF DODD CIVIL CONSULTANTS LIMITED ND MAY NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITH WRITTEN PERMISSION FROM DODD CIVIL CONSULTANTS LIMITED Description Surveyed Designed Drawn Checked Approved 58 Broadway PROJECT NAME: SHEET TITLE Project Number: 48266 SP 11988

Notes:

contours

Level contours

1. Refer to DWG 902 for Preconstruction

2. Refer to DWG 904 for Finished Ground

LEGEND

Lot Bdy Ex Abutting Bdy

Cut/Fill Cont

Cut/Fill Table Minimum Maximum Elevation Elevation -4.000 -3.500 -3.500 -3.000 3 -3.000 -2.500 -2.500 -2.000 5 -1.500 -2.000 6 -1.500 -1.000 7 -1.000 -0.500 8 -0.500 0.000 0.000 0.500 10 0.500 1.000 11 1.000 1.500 12 1.500 2.000 13 2.000 2.500 14 2.500 3.000 3.000 3.500 15 4.000 16 3.500 17 4.000 4.500 18 4.500 5.000 19 5.000 5.500 20 5.500 6.000 6.000 6.500

Down To Earth

Subdivisions Land Development Land Survey Resource Consents Project Management

Papakura Ph: 64-9-2965543 www.doddcivil.co.nz

P.O. Box 72-543 Auckland NZ Fax: 64-9-2965534 admin@doddcivil.co.nz

Date

DATE

10/16

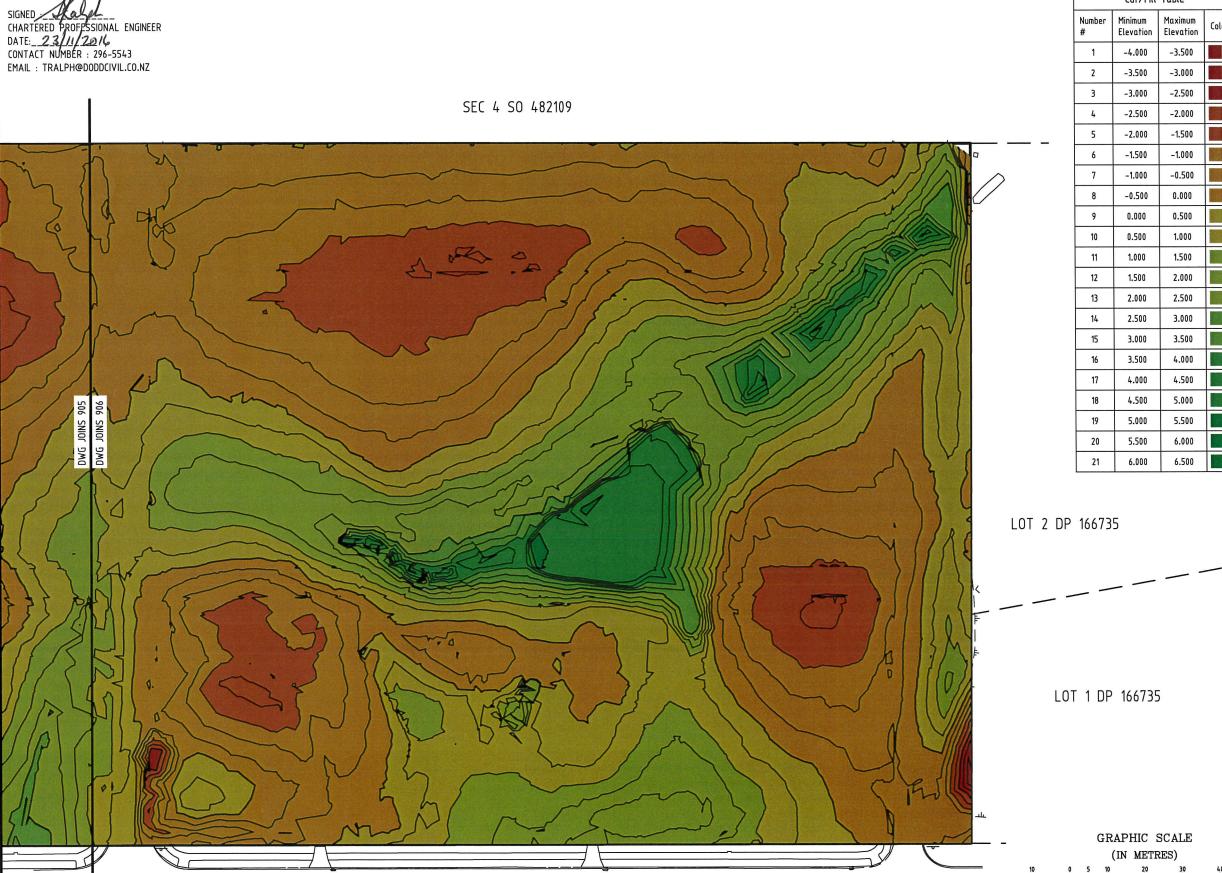
05/15

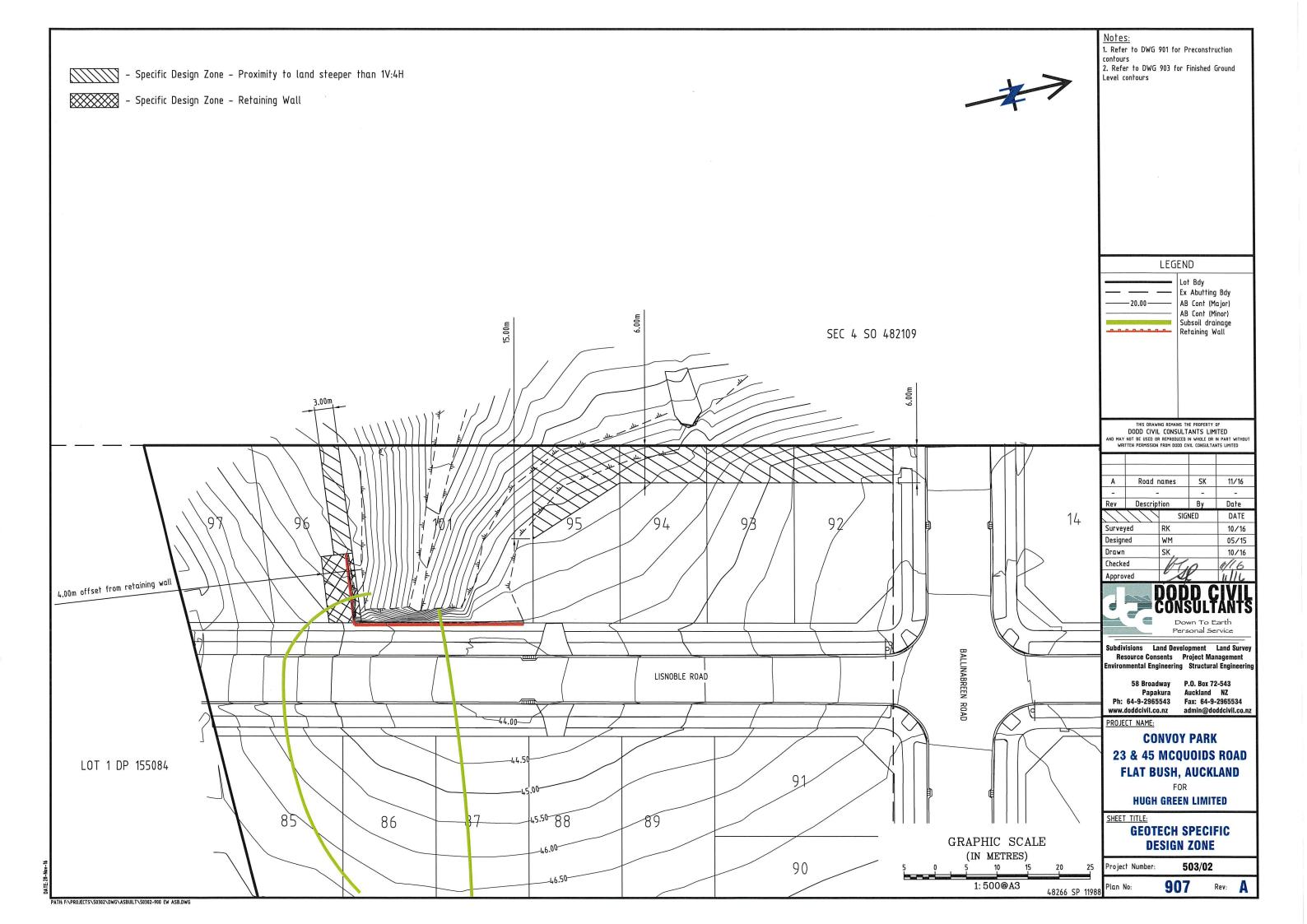
10/16

CONVOY PARK 23 & 45 MCQUOIDS ROAD FLAT BUSH, AUCKLAND

HUGH GREEN LIMITED

CUT / FILL **AS-BUILT PLAN**





I, CHARTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THIS AS-BULT PLAN IS AN ACCURATE RECORD OF THE WORKS UNDERTAKEN AND THAT:

• THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN

SIGNED CHARTERED PROFESSIONAL ENGINEER DATE: 30/11/2016

CONTACT NUMBER : 296-5543 EMAIL: TRALPH@DODDCIVIL.CO.NZ

Asbuilt Streetlight Setout Table				
Name	Northing	Easting		
L21	5905521.49mN	1771686.30mE		
L22	5905514.92mN	1771747.93mE		
L23	5905504.12mN	1771762.58mE		
L24	5905497.02mN	1771819.00mE		
L25	5905481.31mN	1771828.99mE		
L26	5905467.96mN	1771672.88mE		
L27	5905450.03mN	1771749.01mE		
L28	5905437.78mN	1771818.07mE		
L29	5905420.16mN	1771661.00mE		

Asbuilt Streetlight Setout Table				
Name	Northing Easting			
L1	5905736.36mN	1771722.13mE		
L2	5905723.59mN	1771772.62mE		
L3	5905723.73mN	1771736.82mE		
L4	5905708.09mN 1771833.62			
L5	5905703.59mN	1771812.48mE		
L6	5905697.91mN	1771873.86mE		
L7	5905687.48mN	1771880.35mE		
L8	5905671.11mN	1771723.70mE		
L9	5905652.75mN	1771799.78mE		
L10	5905649.96mN	1771870.97mE		
L11	5905614.89mN	1771709.78mE		
L12	5905604.87mN	1771859.63mE		
L13	5905596.94mN	1771785.94mE		
L14	5905562.03mN	1771849.00mE		
L15	5905562.01mN	1771686.90mE		
L16	5905544.40mN	1771763.13mE		
L17	5905539.03mN	1771701.94mE		
L18	5905539.34mN	1771649.32mE		
L19	5905519.08mN	1771838.39mE		
L20	5905517.79mN	1771786.95mE		
		I		

Asbuilt Streetlight		
Setout Table		
Name	Northing	Easting
L1	5905736.36mN	1771722.13mE
L2	5905723.59mN	1771772.62mE
L3	5905723.73mN	1771736.82mE
L4	5905708.09mN	1771833.62mE
L5	5905703.59mN	1771812.48mE
L6	5905697.91mN	1771873.86mE
L7	5905687.48mN	1771880.35mE
L8	5905671.11mN	1771723.70mE
L9	5905652.75mN	1771799.78mE
L10	5905649.96mN	1771870.97mE
L11	5905614.89mN	1771709.78mE
L12	5905604.87mN	1771859.63mE
L13	5905596.94mN	1771785.94mE
L14	5905562.03mN	1771849.00mE
L15	5905562.01mN	1771686.90mE
L16	5905544.40mN	1771763.13mE
L17	5905539.03mN	1771701.94mE
L18	5905539.34mN	1771649.32mE
L19	5905519.08mN	1771838.39mE
L20	5905517.79mN	1771786.95mE
		1

LEGEND Lot Bdy Ex Abutting Bdy ------ 20.00 ------ | AB Cont (Major) AB Cont (Minor) THIS DRAWING REMAINS THE PROPERTY OF DODD CIVIL CONSULTANTS LIMITED AND MAY NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITH WRITTEN PERMISSION FROM DODD CIVIL CONSULTANTS LIMITED Rev Description Date Ву SIGNED DATE 10/16 Surveyed 5/16 Designed 10/16 Drawn Checked Approved Down To Earth Subdivisions Land Development Land Survey
Resource Consents Project Management 58 Broadway P.O. Box 72-543 Papakura Auckland NZ Ph: 64-9-2965543 Fax: 64-9-2965534

Notes:

Environmental Engineering Structural Engineering

www.doddcivil.co.nz

admin@doddcivil.co.nz

PROJECT NAME:

CONVOY PARK 23 & 45 MCQUOIDS ROAD FLATBUSH, AUCKLAND

HUGH GREEN GROUP

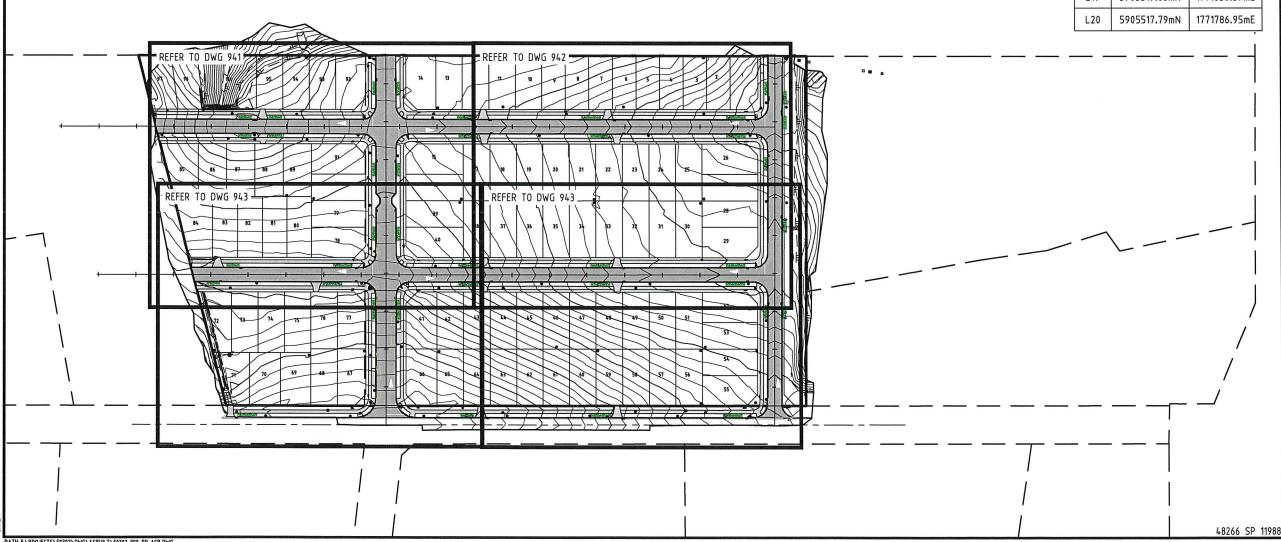
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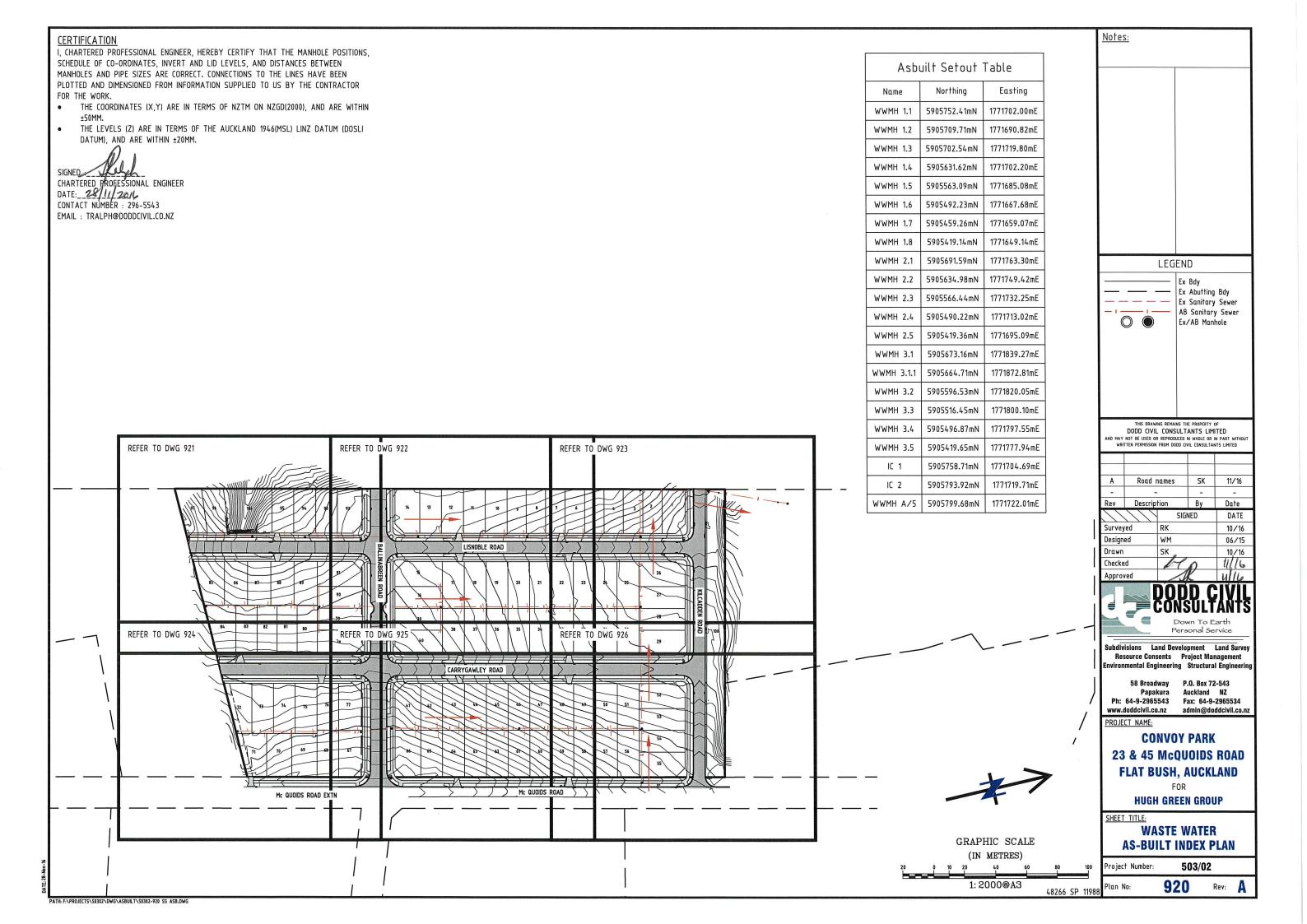
ROADING AS-BUILT INDEX PLAN

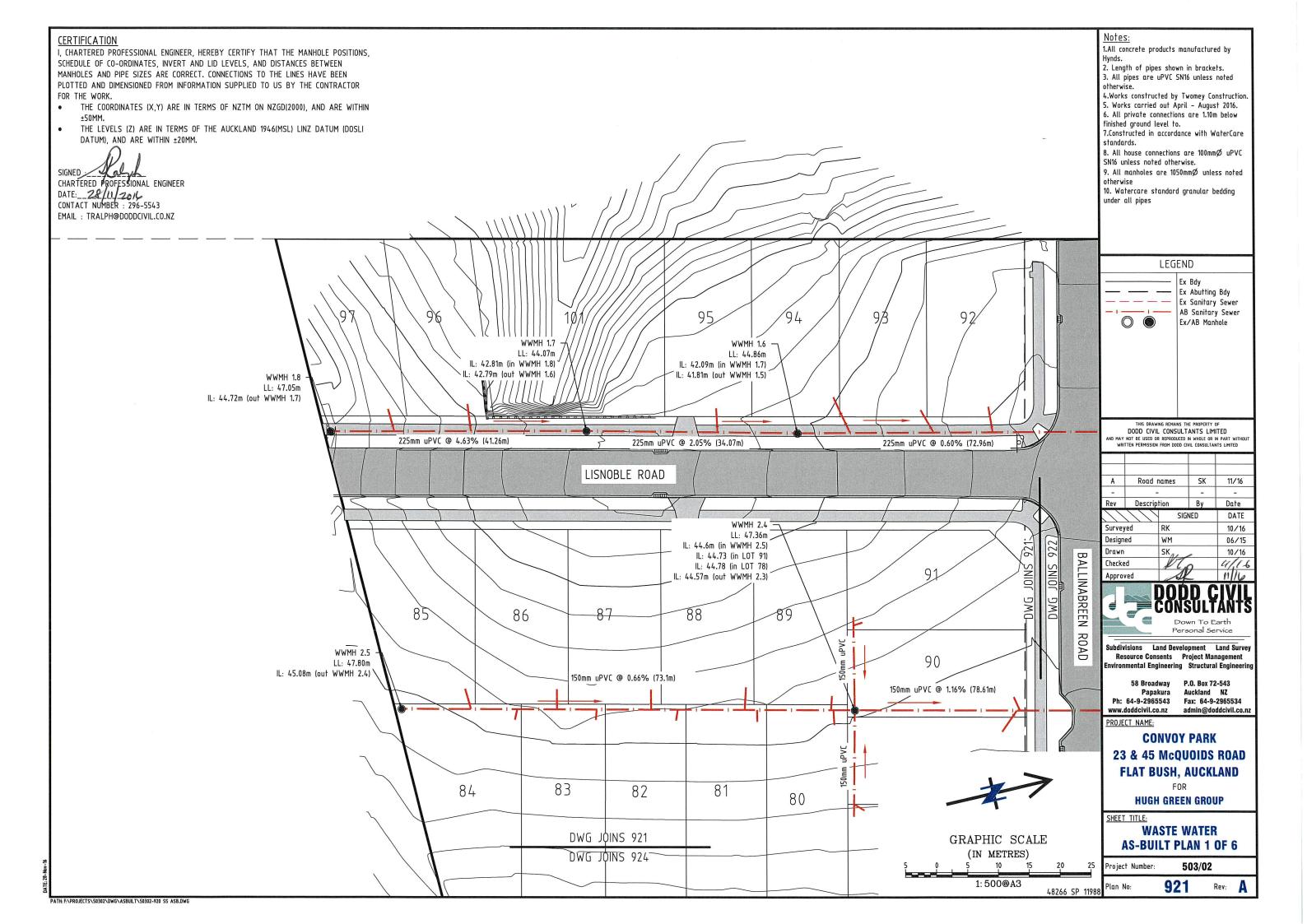
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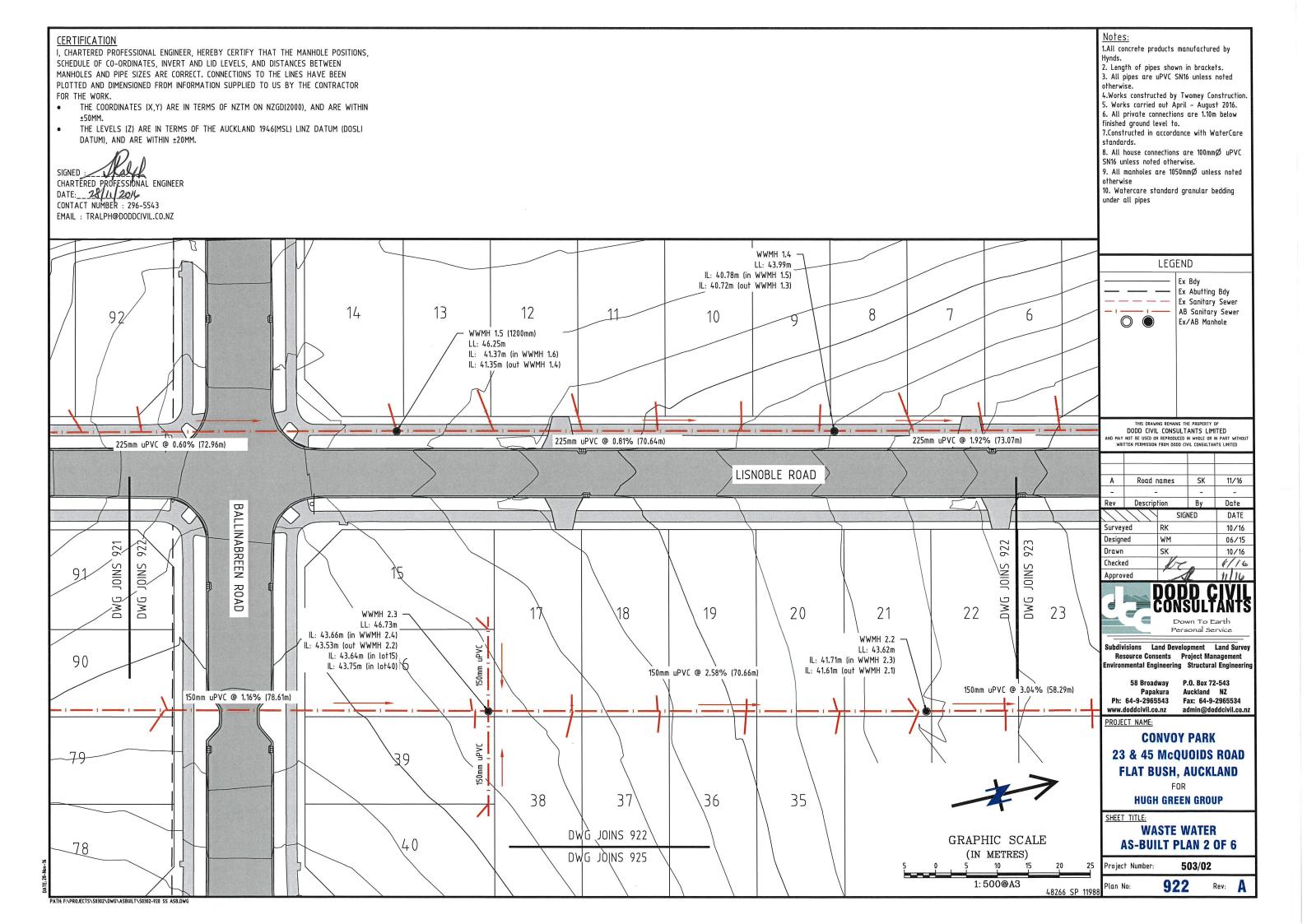
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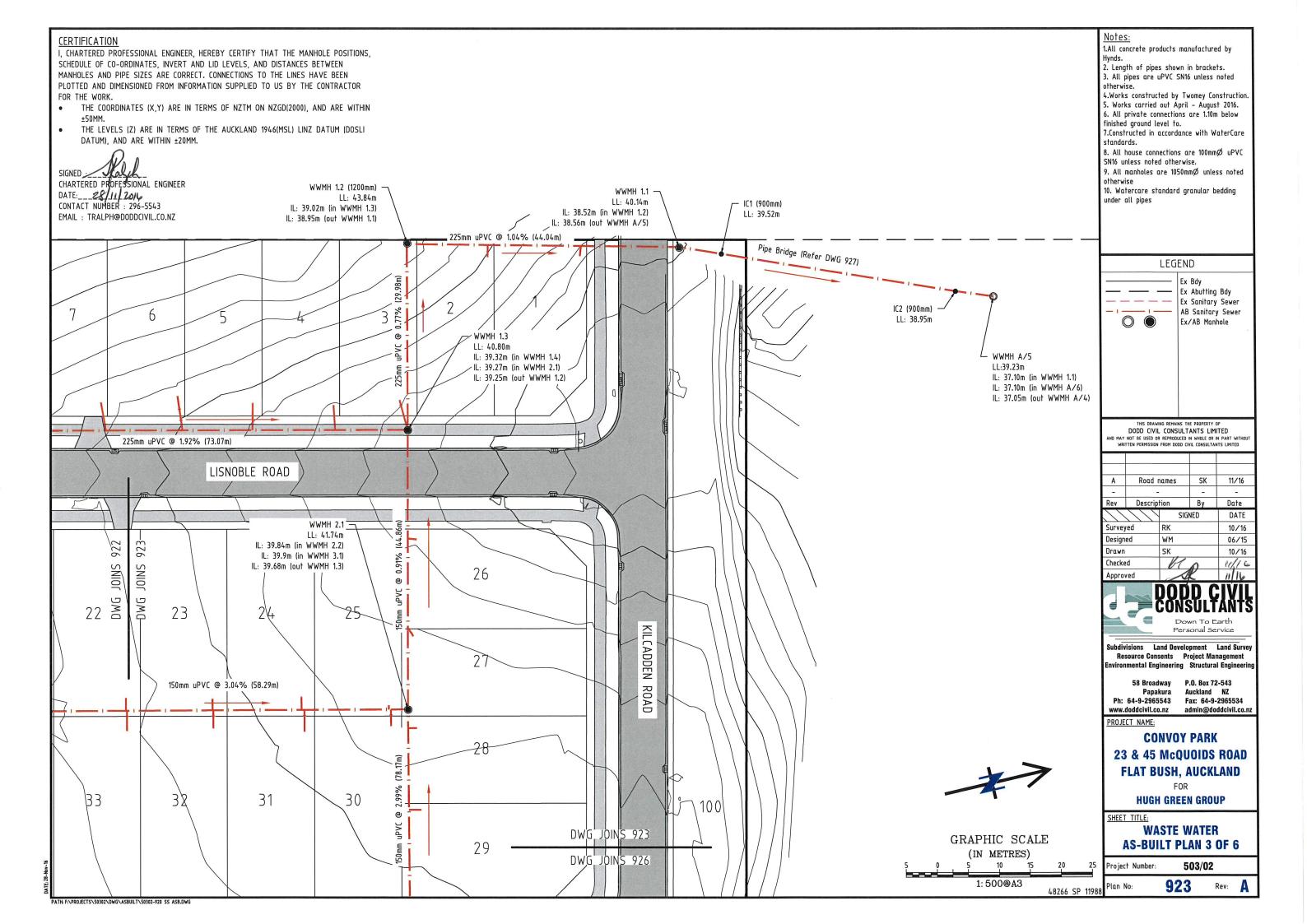
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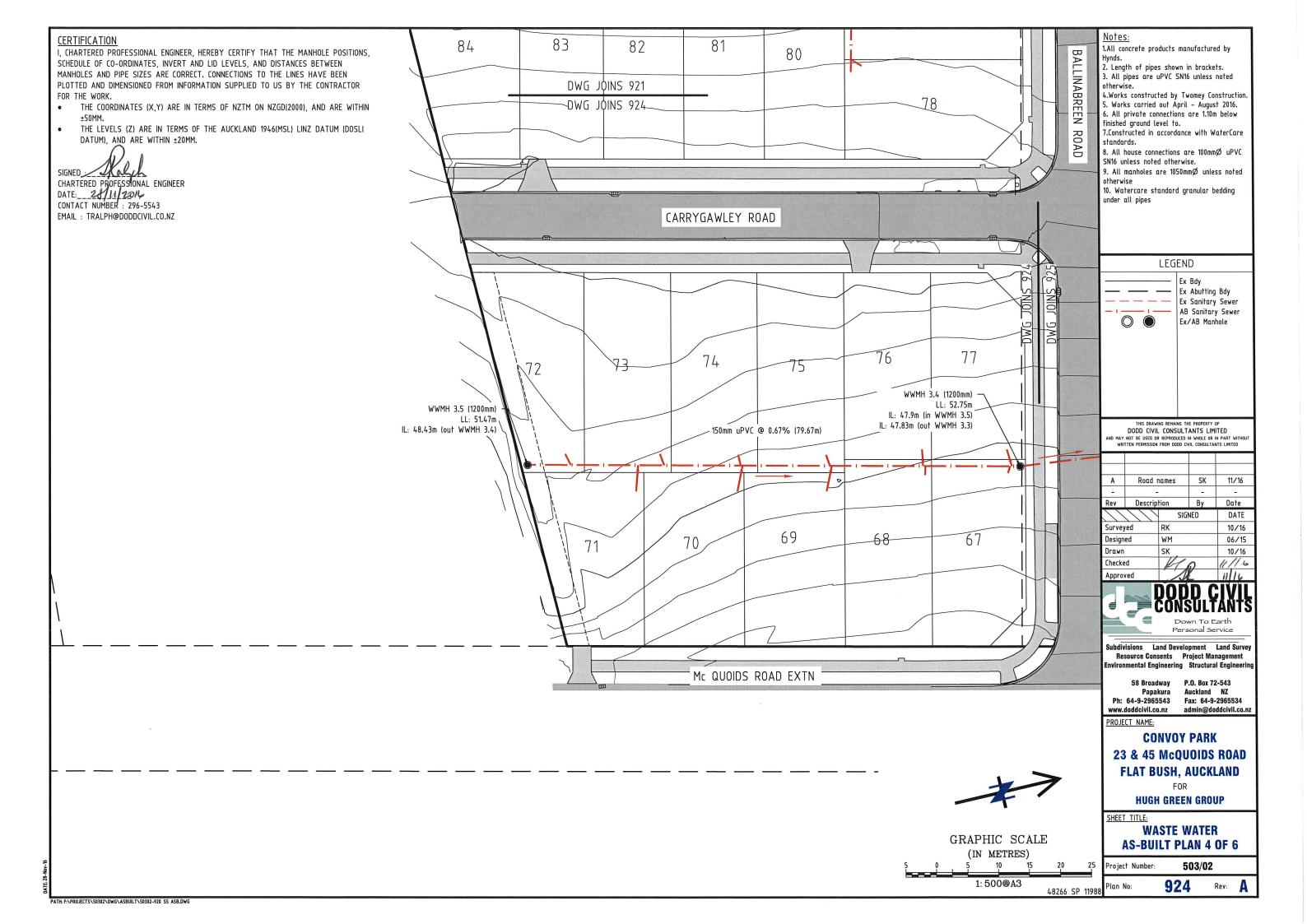


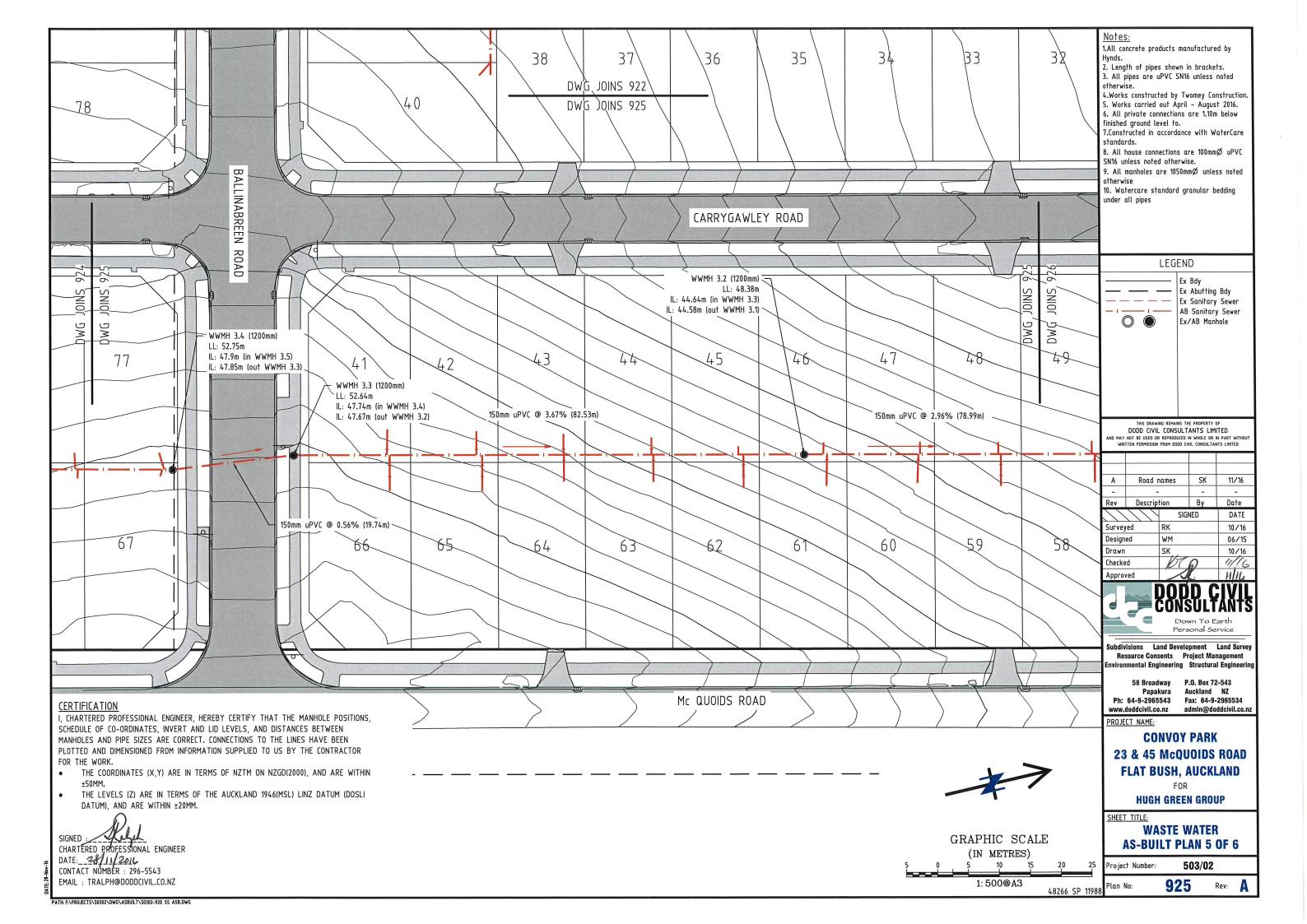


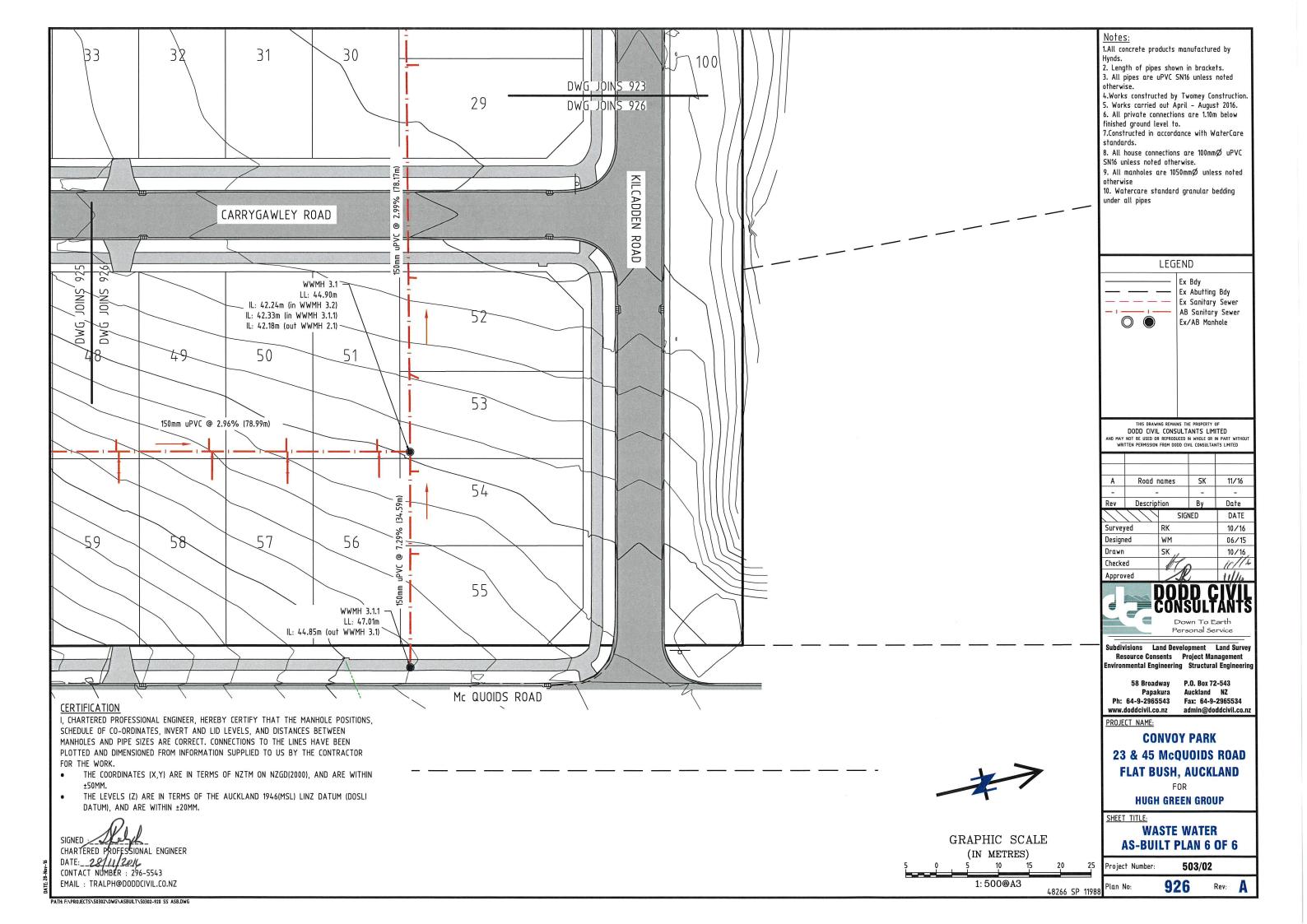


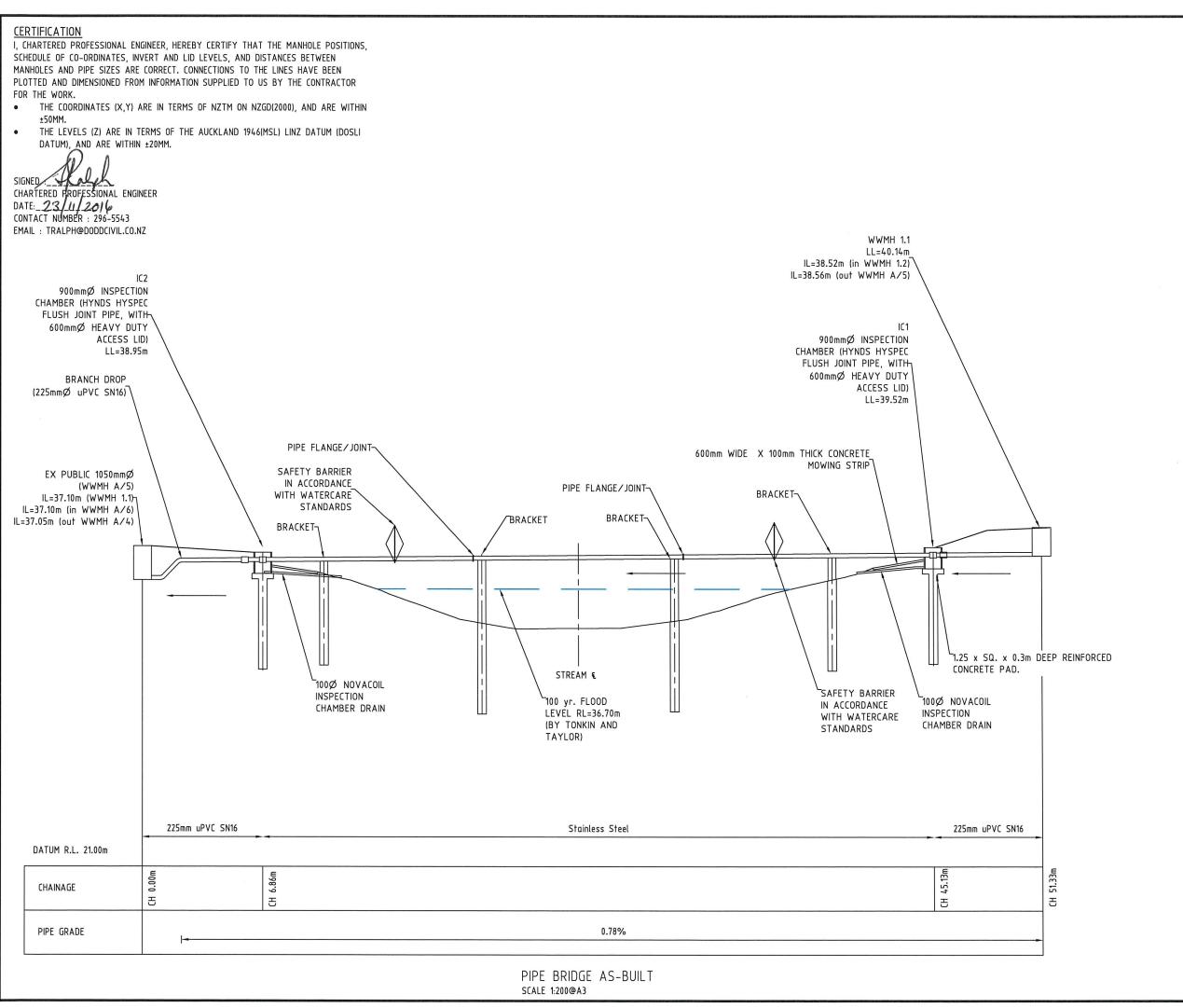












<u>Notes:</u>

1.All concrete products manufactured by Hvnds.

2. Length of pipes shown in brackets. 3. All uPVC pipes are uPVC SN16 unless

noted otherwise. 4. All Stainless Steel Pipes are 219.18mmØ

5.Works carried out by Twomey Construction. 6. Works conducted in June 2016. 7.Constructed in accordance with WaterCare

standards.

8. All manholes are 1050mmØ unless noted otherwise.

9. Refer to As-built Plan 923 for location details.

10. Watercare standard granular bedding under all pipes

LEGEND

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WRITTEN PERMISSION FROM DODD CIVIL CONSULTANTS LIMITED

-	×-		-	-
Rev	Descri	ption	Ву	Date
		SIGI	NED	DATE
Surveyed		SK		10/11
Designed		WM		08/15
Drawn		SK		10/16
Checke	:d	94 6)	1916
Approv	/ed	N	,	11/16



Subdivisions Land Development Land Survey Resource Consents Project Management Environmental Engineering Structural Engineering

58 Broadway Papakura Ph: 64-9-2965543 www.doddcivil.co.nz P.O. Box 72-543
Auckland NZ
Fax: 64-9-2965534
admin@doddcivil.co.nz

PROJECT NAME:

CONVOY PARK 23 & 45 McQUOIDS ROAD FLAT BUSH, AUCKLAND

FOR

HUGH GREEN GROUP

SHEET TITLE:

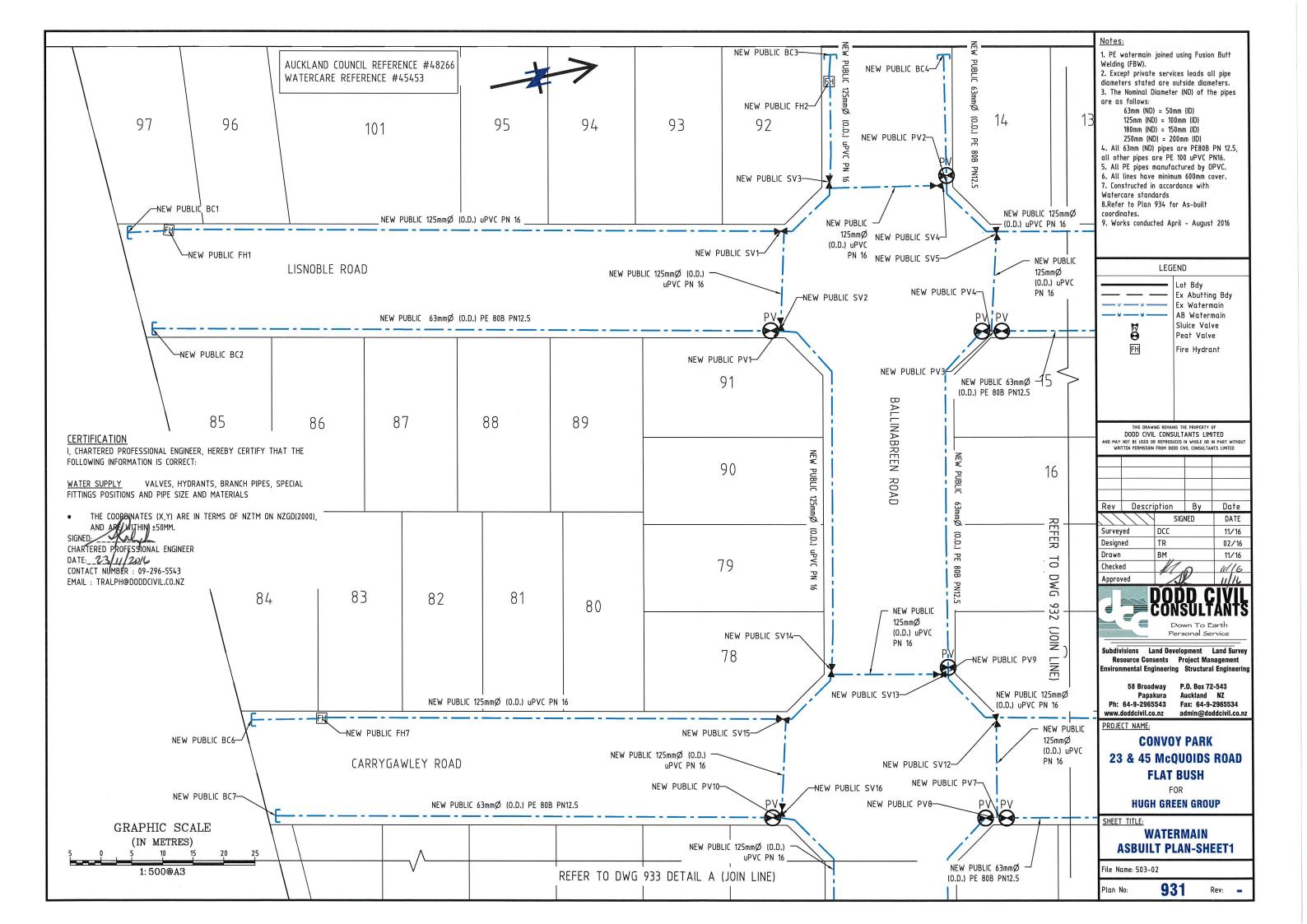
SANITARY SEWER
PIPE BRIDGE AS-BUILT PLAN

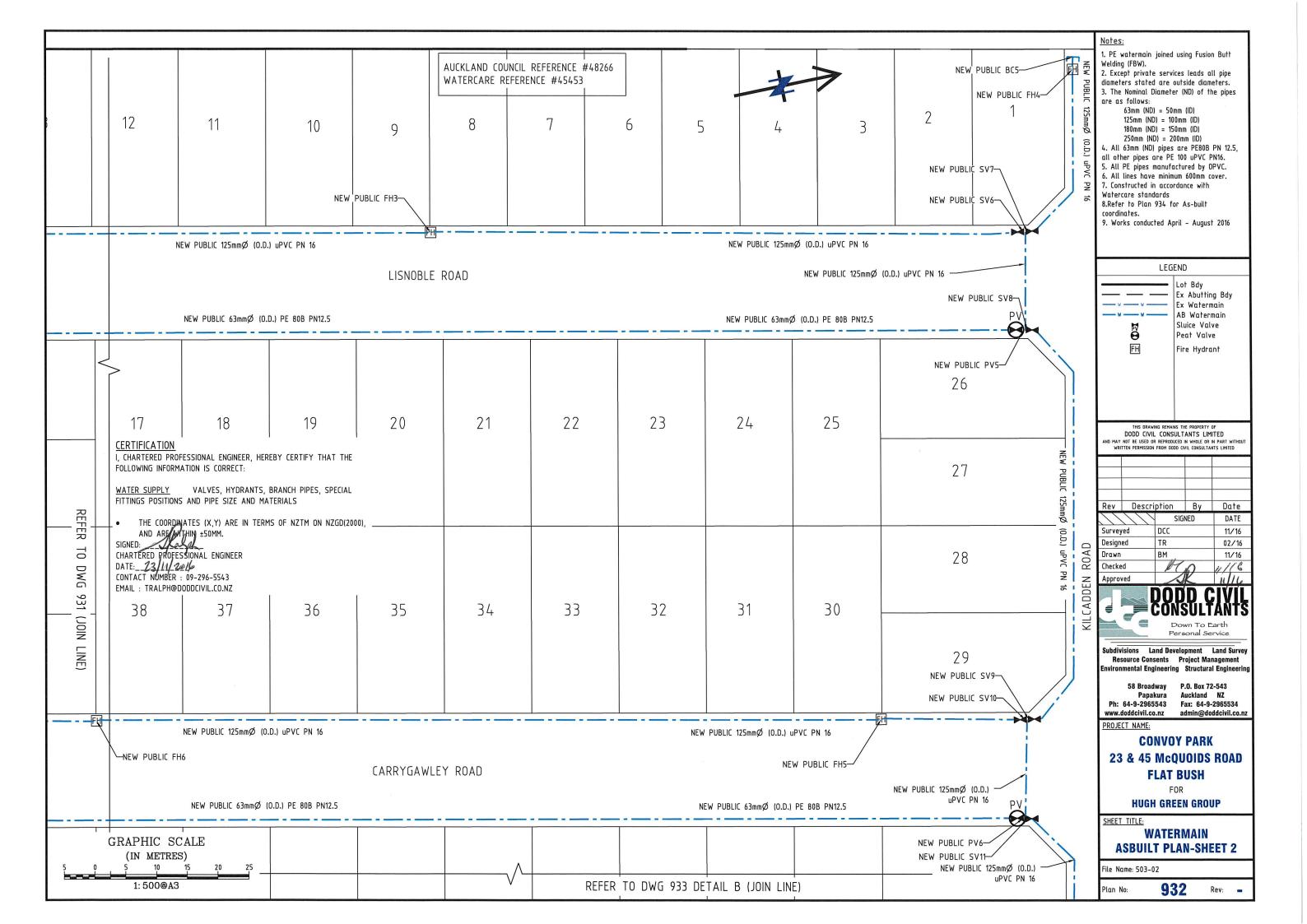
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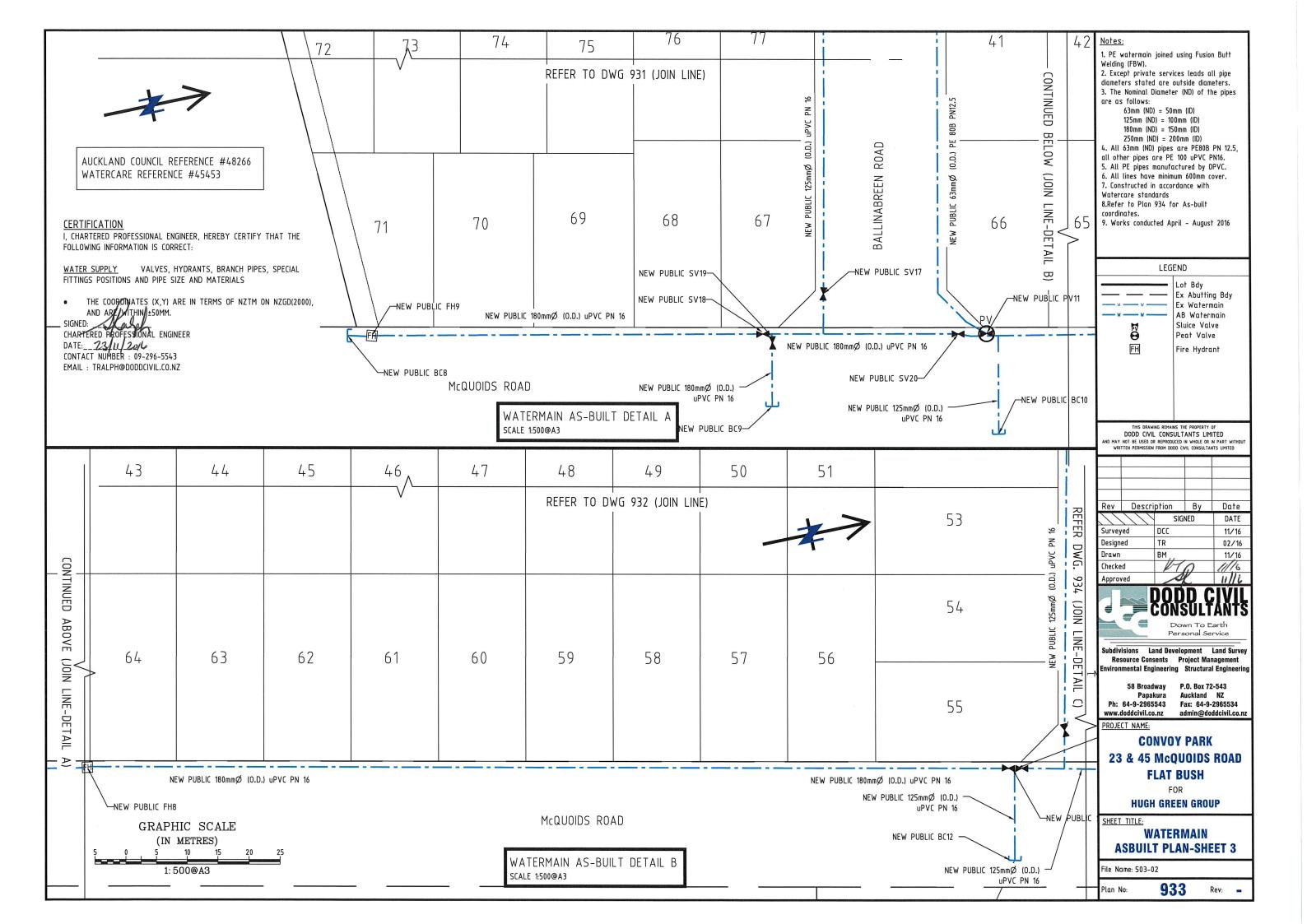
927

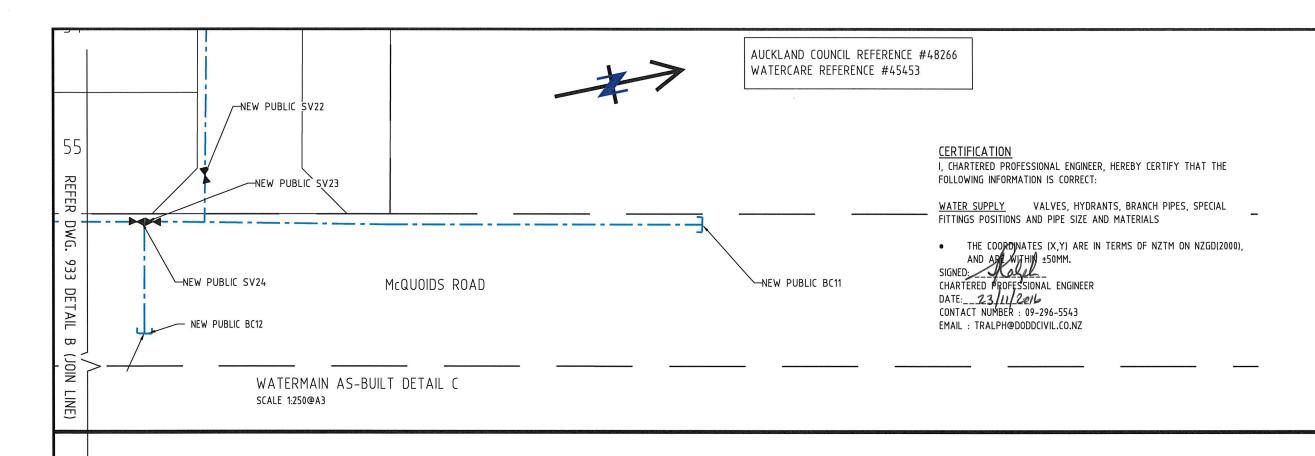
Notes: 1. PE watermain joined using Fusion Butt AUCKLAND COUNCIL REFERENCE #48266 Welding (FBW). 2. Except private services leads all pipe WATERCARE REFERENCE #45453 diameters stated are outside diameters. 3. The Nominal Diameter (ND) of the pipes are as follows: 63mm (OD) = 50mm (ND)125mm (OD) = 100mm (ND)180 mm (OD) = 150 mm (ND)250mm (OD) = 200mm (ND) 4. All 63mm (OD) pipes are PE80B PN 12.5, all other pipes are PE 100 uPVC PN16. 5. All PE pipes manufactured by Iplex. 6. All lines have minimum 600mm cover. 7. Constructed in accordance with REFER DWG. 931 Watercare standards REFER DWG. 932 8.Refer to Plan 934 for As-built 8 7 5 97 96 95 94 93 92 coordinates. 9. Works conducted April - August 2016 LEGEND Lot Bdy 91 26 Ex Abutting Bdy Ex Watermain 87 20 21 22 23 24 25 AB Watermain Sluice Valve Peat Valve FΗ Fire Hydrant 39 83 82 81 37 35 34 33 32 31 78 29 DODD CIVIL CONSULTANTS LIMITED AND MAY NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITHOU WRITTEN PERMISSION FROM DODD CIVIL CONSULTANTS LIMITED 52 REFER DWG. 933-DETAIL A REFER DWG. 933-DETAIL B REFER DWG. 934 53 Date Description By SIGNED DATE 11/16 70 67 66 63 62 61 60 59 58 57 56 Surveyed DCC Designed 02/16 Drawn 11/16 Checked ulle Personal Service Subdivisions Land Development Land Survey Resource Consents Project Management nvironmental Engineering Structural Engineerin 58 Broadway P.O. Box 72-543 Papakura Auckland NZ Fax: 64-9-2965534 admin@doddcivil.co.nz Ph: 64-9-2965543 www.doddcivil.co.nz PROJECT NAME: I, CHARTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE **CONVOY PARK** FOLLOWING INFORMATION IS CORRECT: 23 & 45 McQUOIDS ROAD WATER SUPPLY VALVES, HYDRANTS, BRANCH PIPES, SPECIAL FITTINGS POSITIONS AND PIPE SIZE AND MATERIALS **FLAT BUSH** FOR THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD(2000),
 AND ARE WITHIN ±50MM.

SIGNED: GRAPHIC SCALE **HUGH GREEN GROUP** (IN METRES) SHEET TITLE: 10 20 30 40 50 CHARTERED PROFESSIONAL ENGINEER DATE: 23/11/2016 **WATERMAIN AS-BUILT** 1:1500@A3 **OVERVIEW PLAN** CONTACT NUMBER : 09-296-5543 EMAIL: TRALPH@DODDCIVIL.CO.NZ File Name: 503-02 930 Rev:









Asbuilt Setout Table				
Name	Northing	Easting		
NEW PUBLIC BC1	5905419.44mN	1771648.04mE		
NEW PUBLIC BC2	5905419.50mN	1771663.94mE		
NEW PUBLIC BC3	5905536.65mN	1771647.98mE		
NEW PUBLIC BC4	5905554.49mN	1771652.45mE		
NEW PUBLIC BC5	5905739.21mN	1771698.74mE		
NEW PUBLIC BC6	5905419.72mN	1771728.75mE		
NEW PUBLIC BC7	5905419.78mN	1771744.63mE		
NEW PUBLIC BC8	5905416.97mN	1771808.69mE		
NEW PUBLIC BC9	5905480.74mN	1771836.34mE		
NEW PUBLIC BC10	5905515.12mN	1771849.54mE		
NEW PUBLIC BC11	5905757.62mN	1771893.80mE		
NEW PUBLIC BC12	5905682.03mN	1771889.68mE		
NEW PUBLIC FH1	5905426.03mN	1771649.28mE		
NEW PUBLIC FH2	5905535.42mN	1771652.12mE		
NEW PUBLIC FH3	5905631.46mN	1771700.74mE		
NEW PUBLIC FH4	5905738.65mN	1771700.65mE		
NEW PUBLIC FH5	5905682.67mN	1771794.14mE		
NEW PUBLIC FH6	5905559.74mN	1771763.55mE		
NEW PUBLIC FH7	5905430.80mN	1771731.25mE		
NEW PUBLIC FH8	5905540.27mN	1771839.20mE		

Asbuilt Setout Table			
Name	Northing	Easting	
NEW PUBLIC FH9	5905420.77mN	1771809.65mE	
NEW PUBLIC PV1	5905517.62mN	1771688.91mE	
NEW PUBLIC PV2	5905549.88mN	1771672.49mE	
NEW PUBLIC PV3	5905551.53mN	1771697.45mE	
NEW PUBLIC PV4	5905550.88mN	1771697.19mE	
NEW PUBLIC PV5	5905720.43mN	1771739.33mE	
NEW PUBLIC PV6	5905701.04mN	1771815.10mE	
NEW PUBLIC PV7	5905532.88mN	1771773.33mE	
NEW PUBLIC PV8	5905532.26mN	1771773.16mE	
NEW PUBLIC PV9	5905530.65mN	1771748.63mE	
NEW PUBLIC PV10	5905498.52mN	1771764.63mE	
NEW PUBLIC PV11	5905517.22mN	1771833.43mE	
NEW PUBLIC SV1	5905521.98mN	1771673.50mE	
NEW PUBLIC SV2	5905518.08mN	1771688.71mE	
NEW PUBLIC SV3	5905531.45mN	1771667.74mE	
NEW PUBLIC SV4	5905549.24mN	1771672.78mE	
NEW PUBLIC SV5	5905555.75mN	1771682.37mE	
NEW PUBLIC SV6	5905724.40mN	1771724.00mE	
NEW PUBLIC SV7	5905725.00mN	1771724.15mE	
NEW PUBLIC SV8	5905721.09mN	1771739.43mE	

Asbuilt Setout Table				
Name	Northing	Easting		
NEW PUBLIC SV9	5905705.82mN	1771799.99mE		
NEW PUBLIC SV10	5905705.23mN	1771799.87mE		
NEW PUBLIC SV11	5905701.68mN	1771815.34mE		
NEW PUBLIC SV12	5905536.30mN	1771758.10mE		
NEW PUBLIC SV13	5905530.26mN	1771748.93mE		
NEW PUBLIC SV14	5905512.41mN	1771743.80mE		
NEW PUBLIC SV15	5905502.92mN	1771749.46mE		
NEW PUBLIC SV16	5905498.97mN	1771764.36mE		
NEW PUBLIC SV17	5905493.18mN	1771820.81mE		
NEW PUBLIC SV18	5905482.19mN	1771824.40mE		
NEW PUBLIC SV19	5905483.47mN	1771825.39mE		
NEW PUBLIC SV20	5905512.70mN	1771832.35mE		
NEW PUBLIC SV22	5905694.96mN	1771871.49mE		
NEW PUBLIC SV23	5905685.93mN	1771875.52mE		
NEW PUBLIC SV24	5905685.23mN	1771875.38mE		

Notes:

1. PE watermain joined using Fusion Butt Welding (FBW).

2. Except private services leads all pipe diameters stated are outside diameters. 3. The Nominal Diameter (ND) of the pipes are as follows:

63mm (ND) = 50mm (ID)125mm (ND) = 100mm (ID)180mm (ND) = 150mm (ID)

250mm (ND) = 200mm (ID) 4. All 63mm (ND) pipes are PE80B PN 12.5, all other pipes are PE 100 uPVC PN16.

5. All PE pipes manufactured by OPCV.

6. All lines have minimum 600mm cover.

7. Constructed in accordance with

Watercare standards

8. Works conducted April - August 2016

LEGEND

8

FH

Lot Bdy Ex Abutting Bdy Ex Watermain AB Watermain

Sluice Valve Peat Valve Fire Hydrant

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Date Rev Description By SIGNED DATE Surveyed 11/16 DCC Designed TR 02/16 Drawn 11/16 Checked

400

Personal Service

Subdivisions Land Development Land Survey Resource Consents Project Management invironmental Engineering Structural Engineeri

Papakura www.doddcivil.co.nz

58 Broadway P.O. Box 72-543 Auckland NZ Ph: 64-9-2965543 Fax: 64-9-2965534 www.doddcivil.co.nz admin@doddcivil.co.nz

PROJECT NAME:

CONVOY PARK 23 & 45 McQUOIDS ROAD **FLAT BUSH**

FOR

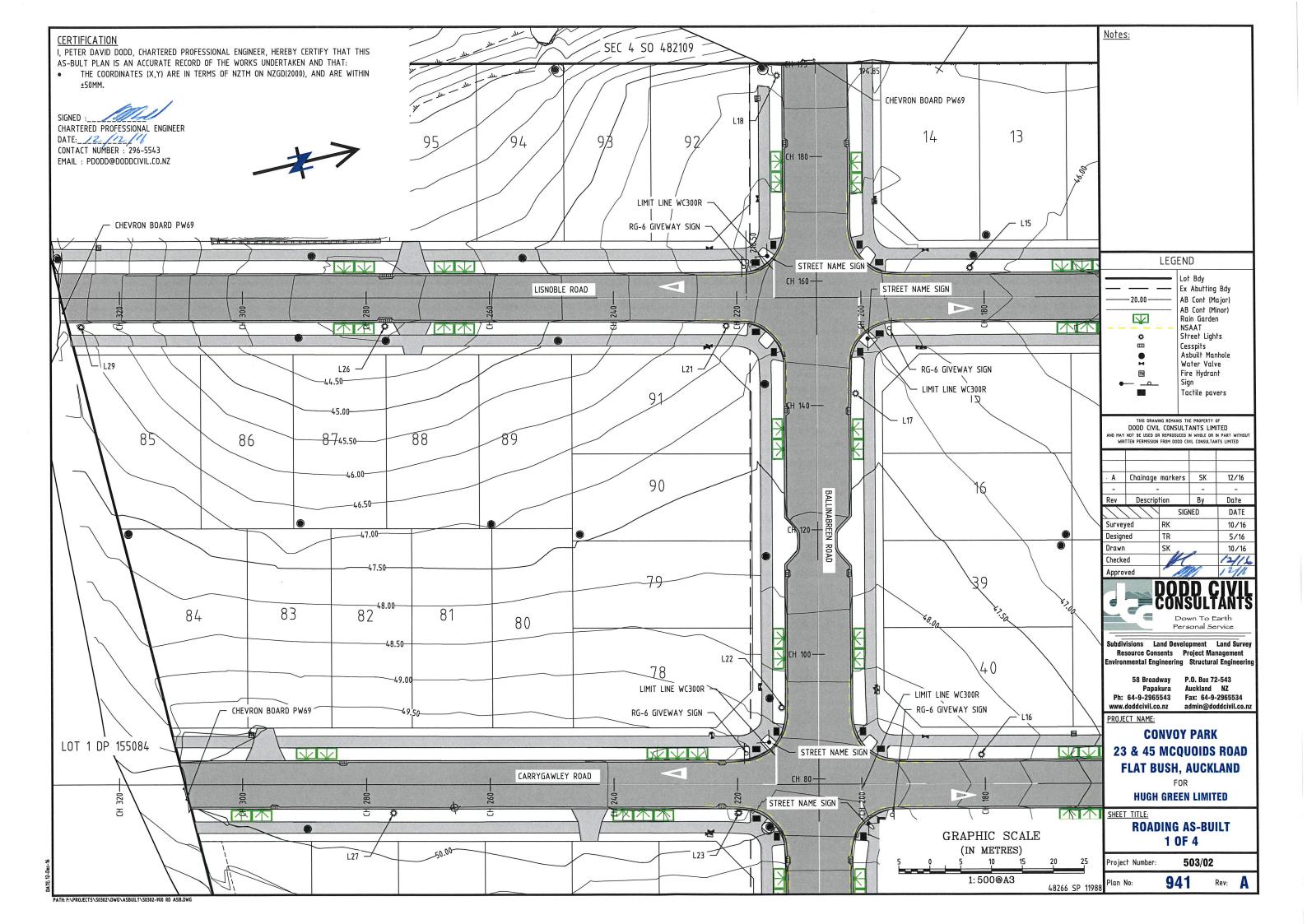
HUGH GREEN GROUP

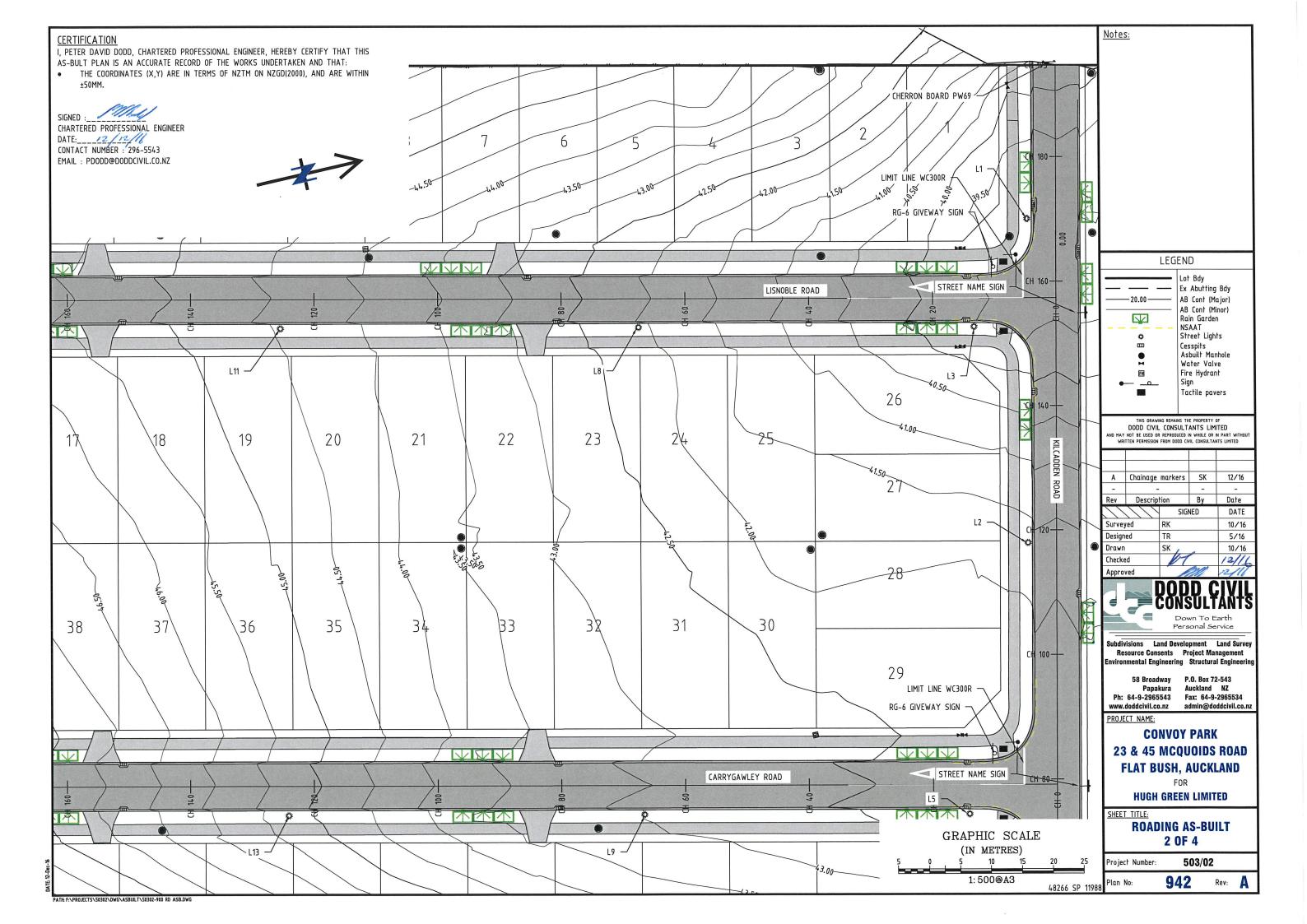
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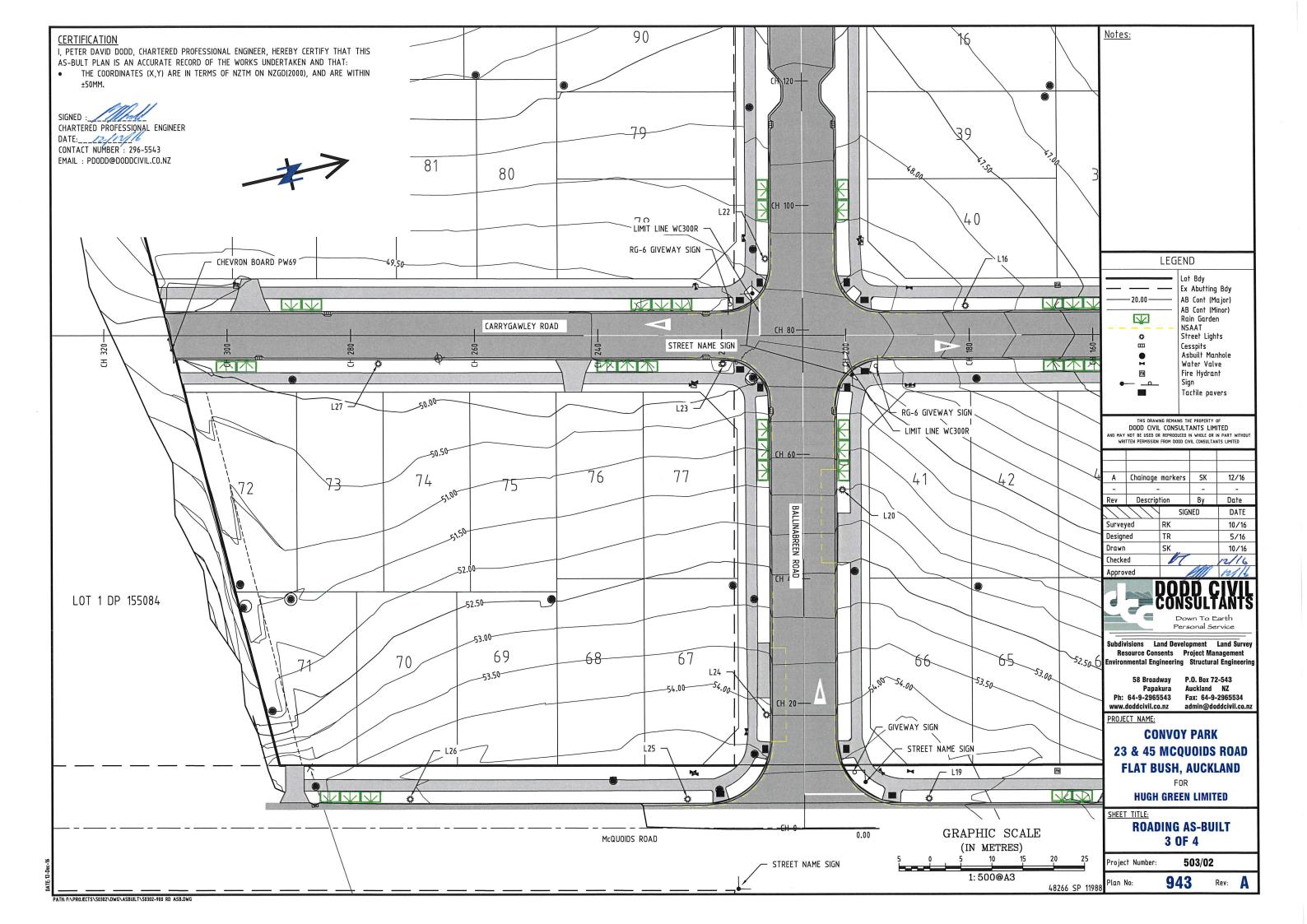
WATERMAIN **ASBUILT PLAN-SHEET 4**

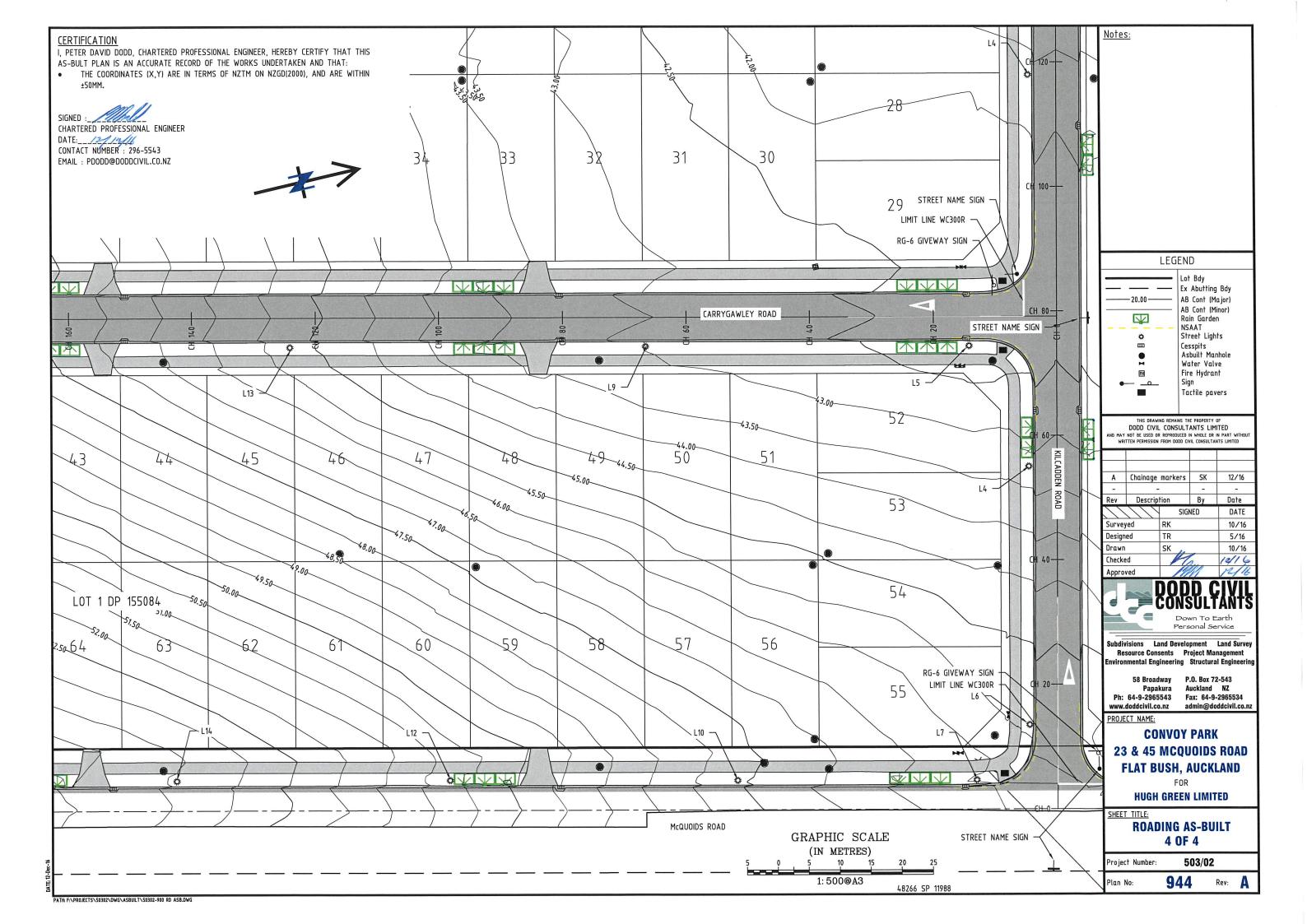
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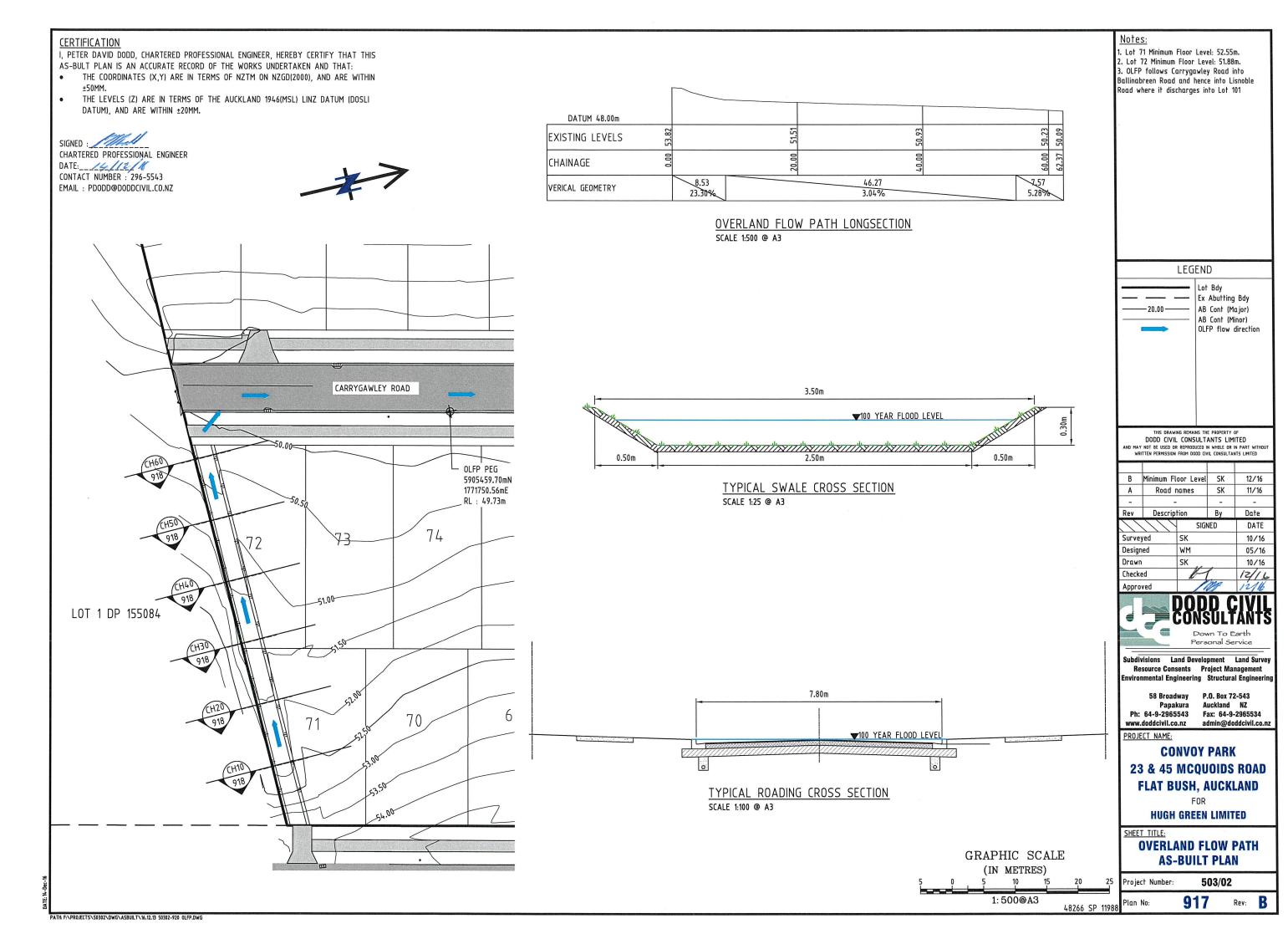
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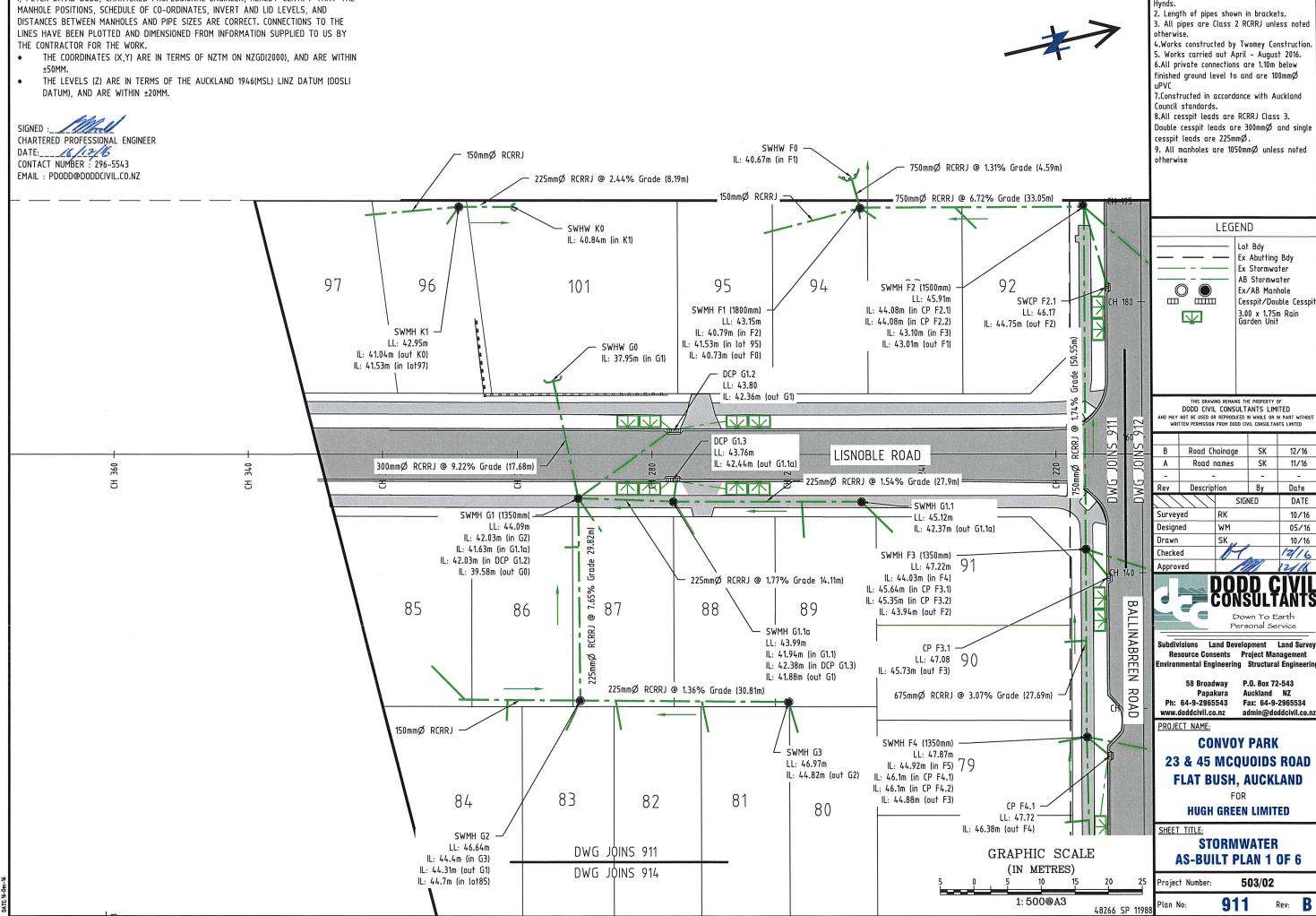






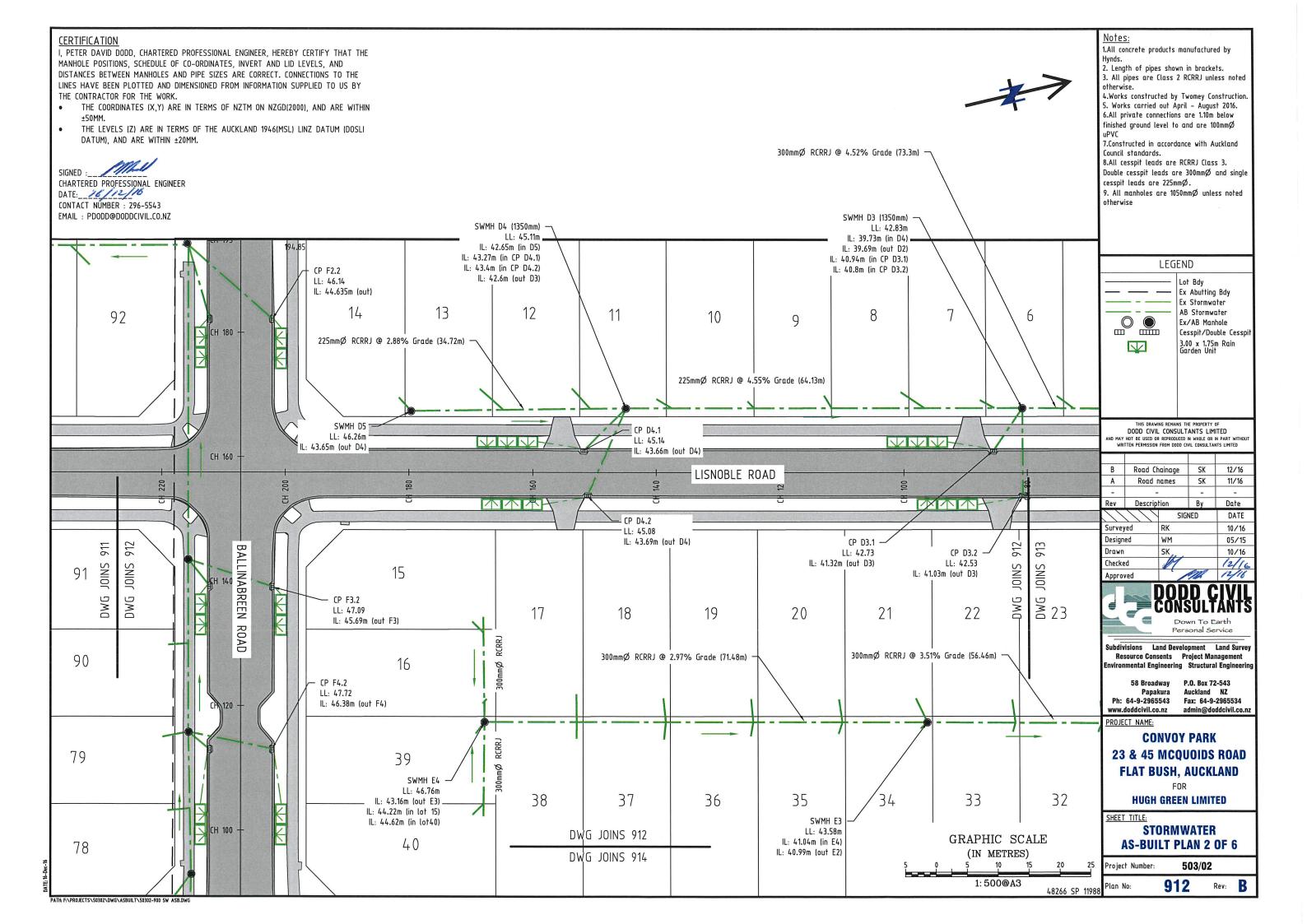
CERTIFICATION

I, PETER DAVID DODD, CHARTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE



Notes:

1.All concrete products manufactured by



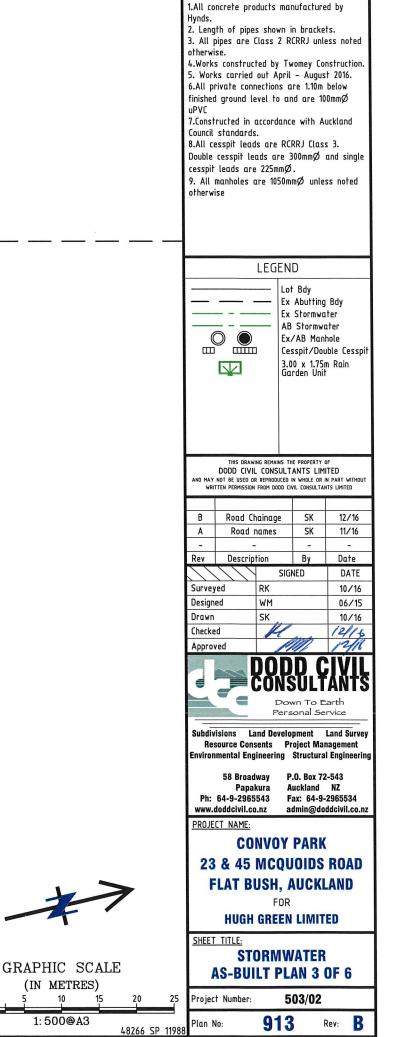
CERTIFICATION

I, PETER DAVID DODD, CHARTERED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE MANHOLE POSITIONS, SCHEDULE OF CO-ORDINATES, INVERT AND LID LEVELS, AND DISTANCES BETWEEN MANHOLES AND PIPE SIZES ARE CORRECT. CONNECTIONS TO THE LINES HAVE BEEN PLOTTED AND DIMENSIONED FROM INFORMATION SUPPLIED TO US BY THE CONTRACTOR FOR THE WORK.

- THE COORDINATES (X,Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN
- THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946(MSL) LINZ DATUM (DOSLI DATUM), AND ARE WITHIN ±20MM.

CHARTERED PROFESSIONAL ENGINEER DATE: 16/12/16 CONTACT NUMBER : 296-5543

EMAIL: PDODD@DODDCIVIL.CO.NZ SWMH D3 (1350mm)



Notes:

