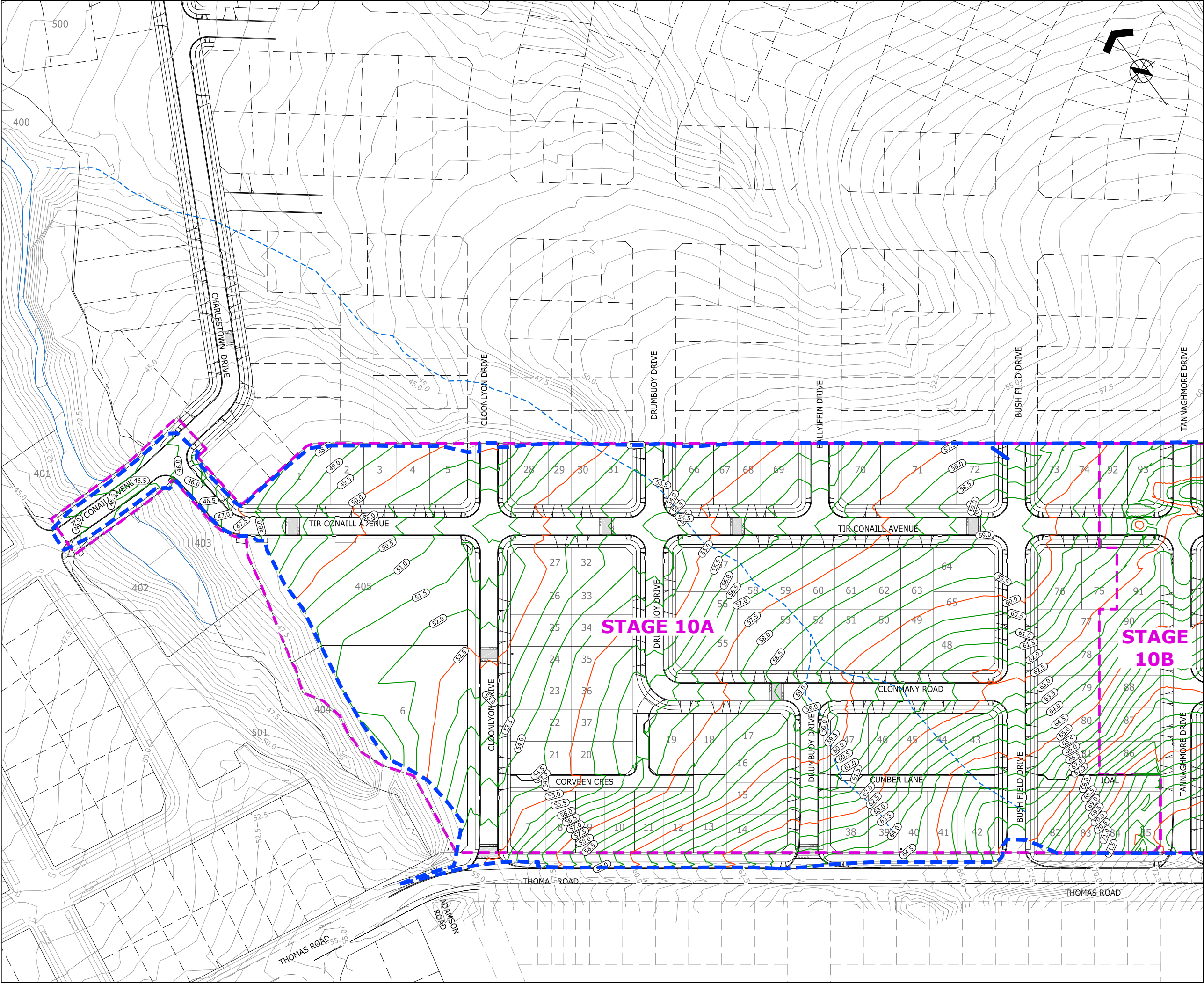






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ENGINEERS NEW ZEALAND

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ASSURED

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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

LEGEND:
--- STAGE BOUNDARY
--- EXTENT OF EARTHWORKS
--- CONTOUR MAJOR
--- CONTOUR MINOR
--- EXISTING 3 x 1500 NOVAFLOW
--- EXISTING 1000 NOVAFLOW
--- EXISTING CONTOUR MAJOR
--- EXISTING CONTOUR MINOR

ENGINEERING APPROVAL
ENG-60310923

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: 12.09.2018
Name: WILLIAM JOHN FREDERICK PLATTS
Phone: 09-917-5000
Email: w.platts@harrisongrierson.com



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LEVEL 4, 96 ST GEORGES BAY ROAD
PARNELL AUCKLAND 1052
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W www.harrisongrierson.com

B	AS-BUILT	DXK	12.09.18
A	AS-BUILT	WJP	07.09.18
REF	REVISIONS	BY	DATE

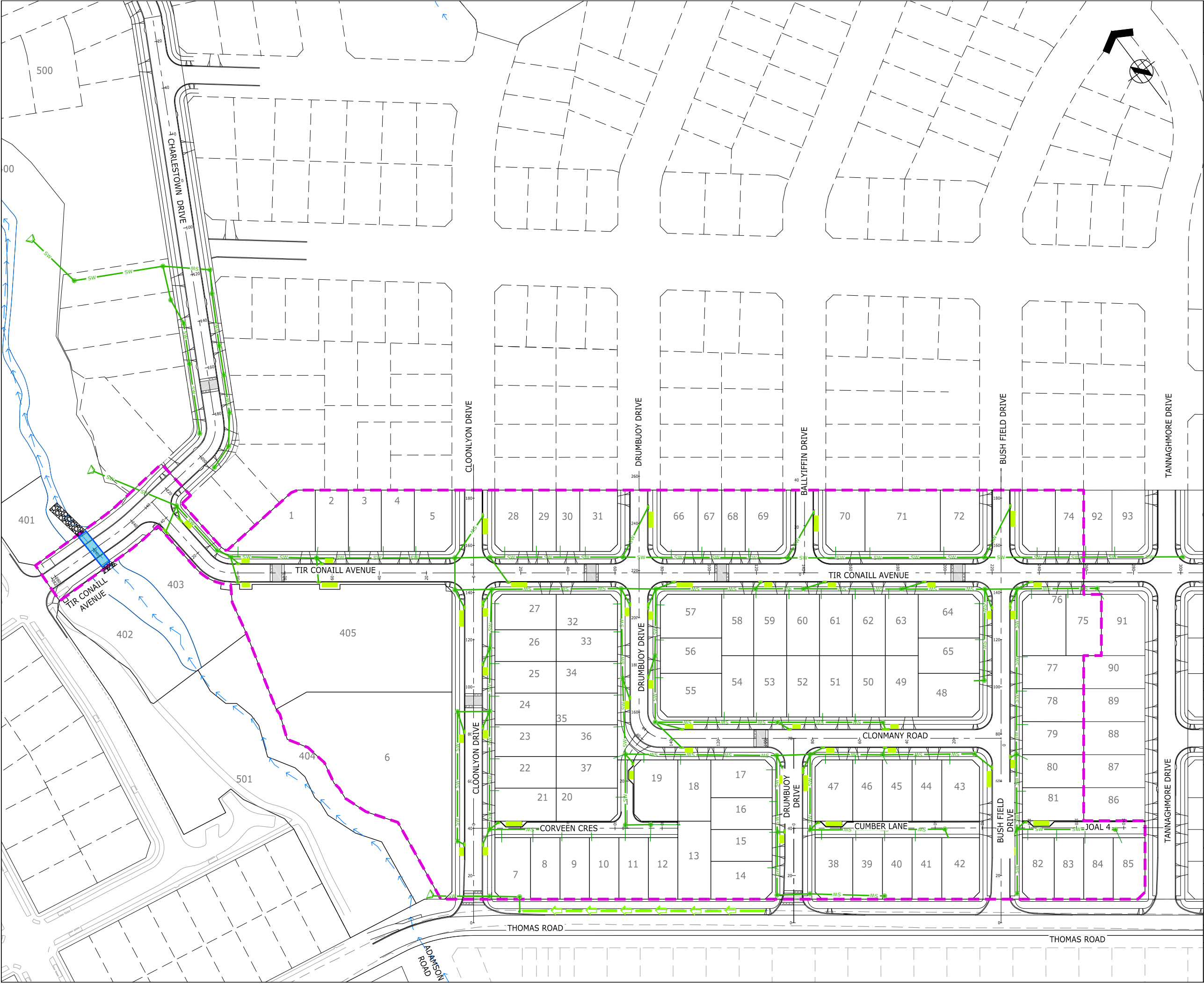
PROJECT:
HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH

TITLE:
FINISHED CONTOURS
AS-BUILT PLAN
SHEET 1 OF 2

ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: DXK,BB	DATE: 08.2018	SIGNED:	PLOT DATE: 14.09.18
CHECKED: WJP	DATE: 12.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 12.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:
AS-BUILT

PROJECT No: 1050-139718-01	SCALES: 1:750-A1 1:1500-A3	A1
DRAWING No: 139718-AB200		REV B





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NOTES:

- ORIGIN OF LEVELS
S 66 SO 48643
RL 54.50m
- ORIGIN OF COORDINATES
S 66 SO 48643
5905356.71mN
1770941.22mE
- ALL CONNECTIONS ARE DN 100 uPVC. CHAINAGE FOR CONNECTIONS ARE FROM DOWNSTREAM MANHOLE CENTRE.
- ALL STORMWATER LINES ARE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
- ALL CESSPIT LEADS ARE RCRRJ CLASS 4.
- ALL NEW MANHOLES ARE DN 1050 RC UNLESS SHOWN OTHERWISE.

LEGEND

— SW

NEW PUBLIC STORMWATER LINE

●

NEW SW SCRUFFY DOME (DN600)

●

NEW PUBLIC MANHOLE

■

NEW PUBLIC CESSPIT

—

NEW LOT CONNECTION

- - -

STAGE BOUNDARY

→ →

EXISTING STREAM

→ →

NEW SWALE DRAIN

ENGINEERING APPROVAL
ENG-60310923

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: *[Signature]*
CHARTERED PROFESSIONAL ENGINEER

Date: 14.09.2018

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harringtongrison.com



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W www.harringtongrison.com

A	AS-BUILT	WJP	14.09.18
REF	REVISIONS	BY	DATE
PROJECT:			
HUGH GREEN LIMITED DONEGAL STUD 84 THOMAS ROAD, FLAT BUSH			
TITLE: OVERALL STORMWATER AS-BUILT PLAN			
ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: HHA	DATE: 08.2018	SIGNED:	PLOT DATE: 19.09.18
CHECKED: WJP	DATE: 14.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 14.09.18	SIGNED:	SURVEY DATE: 07.2018
ISSUE STATUS:			
AS-BUILT			
PROJECT No: 1050-139718-01		SCALES: 1:750-A1 1:1500-A3	A1
DRAWING No: 139718-AB400			REV A



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LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:

- FOR NOTES AND LEGEND REFER DRAWING
139718-AB400.
- FOR SCHEDULE OF COORDINATES REFER DRAWING
139718-AB403.

ENGINEERING APPROVAL ENG-60310923

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: **14.09.2018**

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harringtongrison.com



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A	AS-BUILT	WJP	14.09.18
REF	REVISIONS	BY	DATE

PROJECT:
**HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH**

TITLE:
**STORMWATER AS-BUILT PLAN
SHEET 2 OF 2**

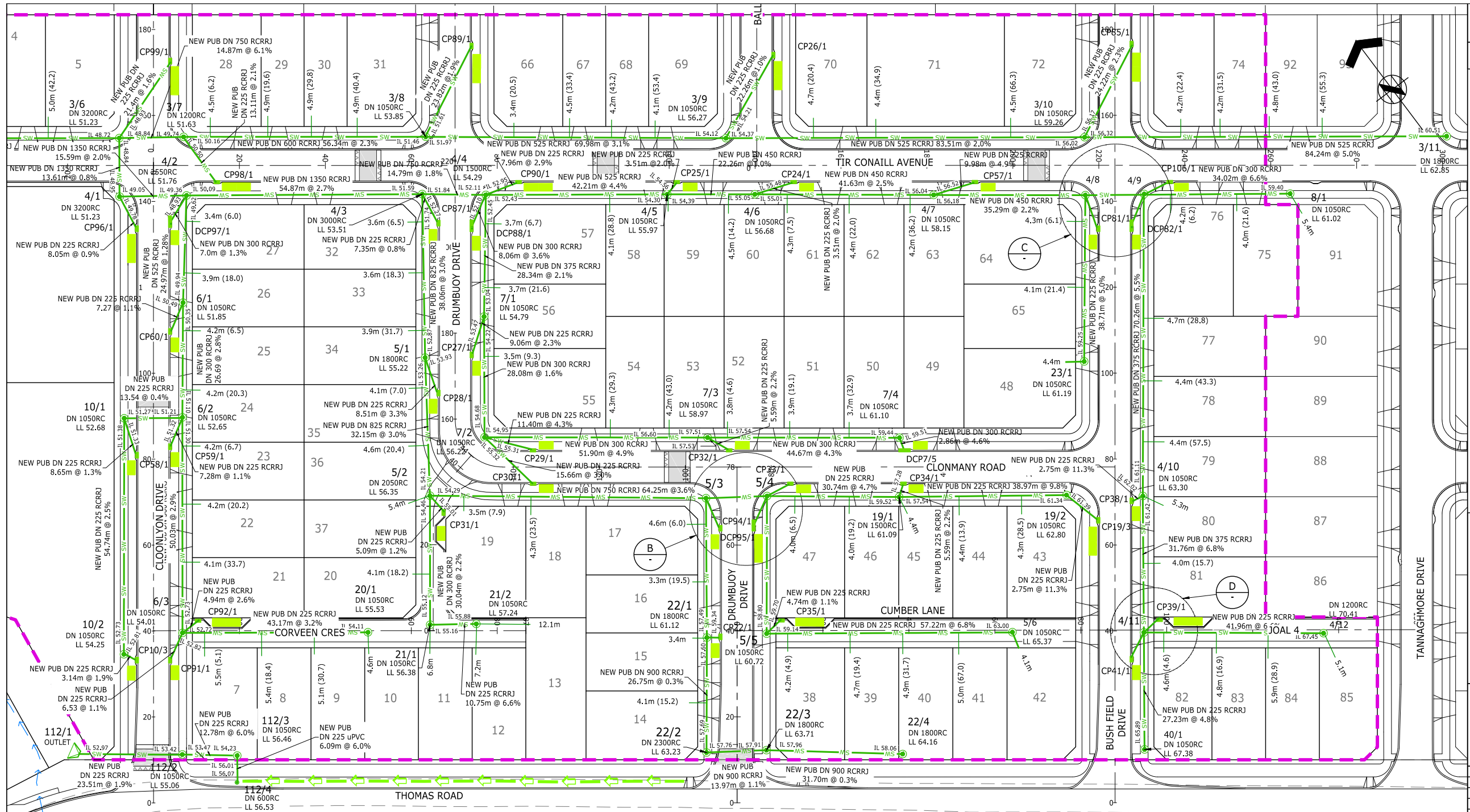
ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: HHA	DATE: 08.2018	SIGNED:	PLOT DATE: 19.09.18
CHECKED: WJP	DATE: 14.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 14.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:
AS-BUILT

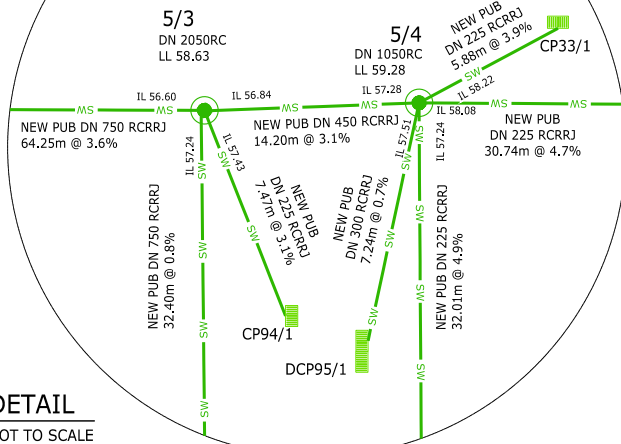
PROJECT No: 1050-139718-01	SCALES: 1:500-A1 1:1000-A3	A1
DRAWING No:		REV

139718-AB402

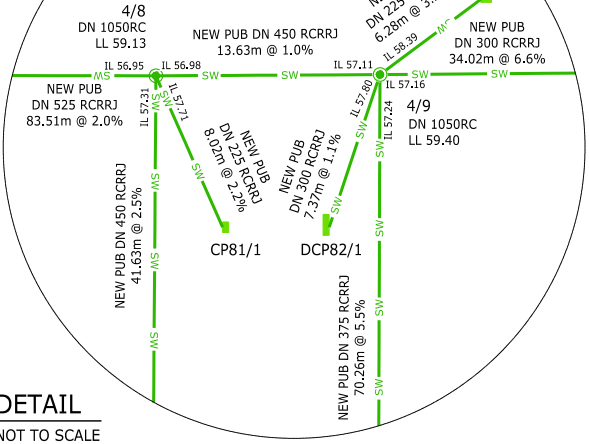
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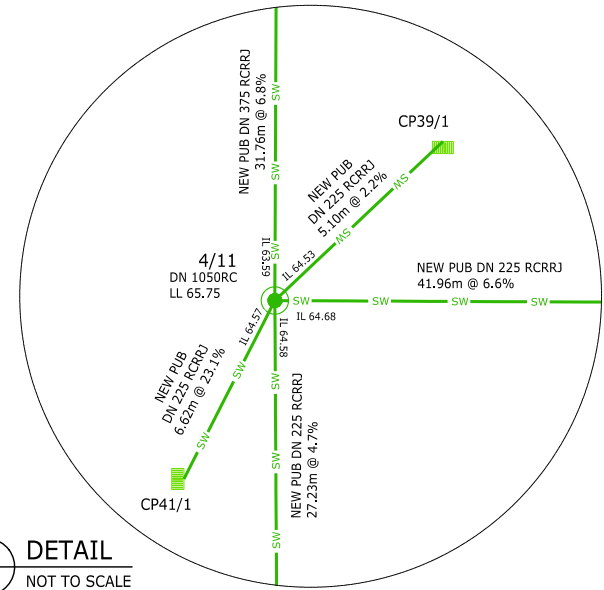
B DETAIL
NOT TO SCALE

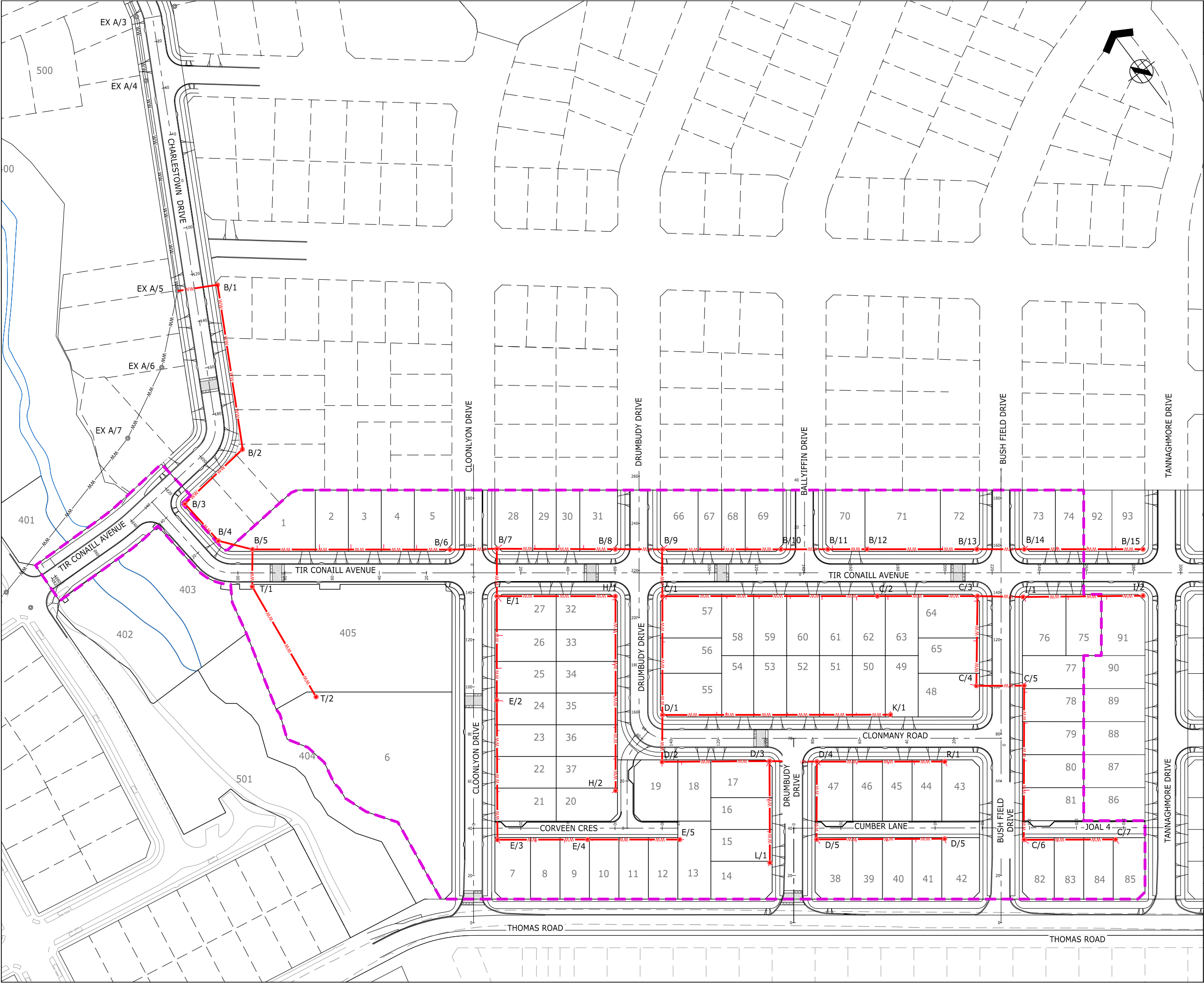


C DETAIL
NOT TO SCALE



D DETAIL
NOT TO SCALE







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NOTES:

- ORIGIN OF LEVELS
S 66 SO 48643
RL 54.50m
- ORIGIN OF COORDINATES
S 66 SO 48643
5905356.71mN
1770941.22mE
- ALL CONNECTIONS ARE DN 100 uPVC. CHAINAGE FOR CONNECTIONS ARE FROM DOWNSTREAM MANHOLE CENTRE.
- ALL WASTEWATER LINES ARE PVC-U SN16 UNLESS SHOWN OTHERWISE.
- ALL NEW MANHOLES ARE DN 1050 RC UNLESS SHOWN OTHERWISE.

LEGEND

—

STAGE BOUNDARY

—

NEW PUBLIC WASTEWATER LINE

—

EXISTING PUBLIC WASTEWATER LINE

—

NEW LOT CONNECTION

●

NEW PUBLIC MANHOLE

●

EXISTING PUBLIC MANHOLE

ENGINEERING APPROVAL
ENG-60310923

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: 14.09.2018

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harrisingrierson.com



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W www.harrisingrierson.com

A	AS-BUILT	WJP	14.09.18
REF	REVISIONS	BY	DATE
PROJECT:			
HUGH GREEN LIMITED DONEGAL STUD 84 THOMAS ROAD, FLAT BUSH			
TITLE: OVERALL WASTEWATER AS-BUILT PLAN			
ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: BB	DATE: 08.2018	SIGNED:	PLOT DATE: 17.09.18
CHECKED: WJP	DATE: 14.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 14.09.18	SIGNED:	SURVEY DATE: 07.2018
ISSUE STATUS:			
AS-BUILT			
PROJECT No: 1050-139718-01		SCALES: 1:750-A1 1:1500-A3	A1
DRAWING No: 139718-AB405			REV A



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NOTES:

- FOR NOTES AND LEGEND REFER DRAWING
139718-AB400

ENGINEERING APPROVAL
ENG-60310923

I CERTIFY THAT THESE ASBUILT PLANS ARE AN ACCURATE RECORD OF
THE WORKS UNDERTAKEN AND THAT:
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(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: 14.09.2018

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harringtonrierson.com



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W www.harringtonrierson.com

REF	REVISIONS	WJP	14.09.18
A	AS-BUILT		

HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH

TITLE:
WASTEWATER AS-BUILT PLAN
SHEET 2 OF 2

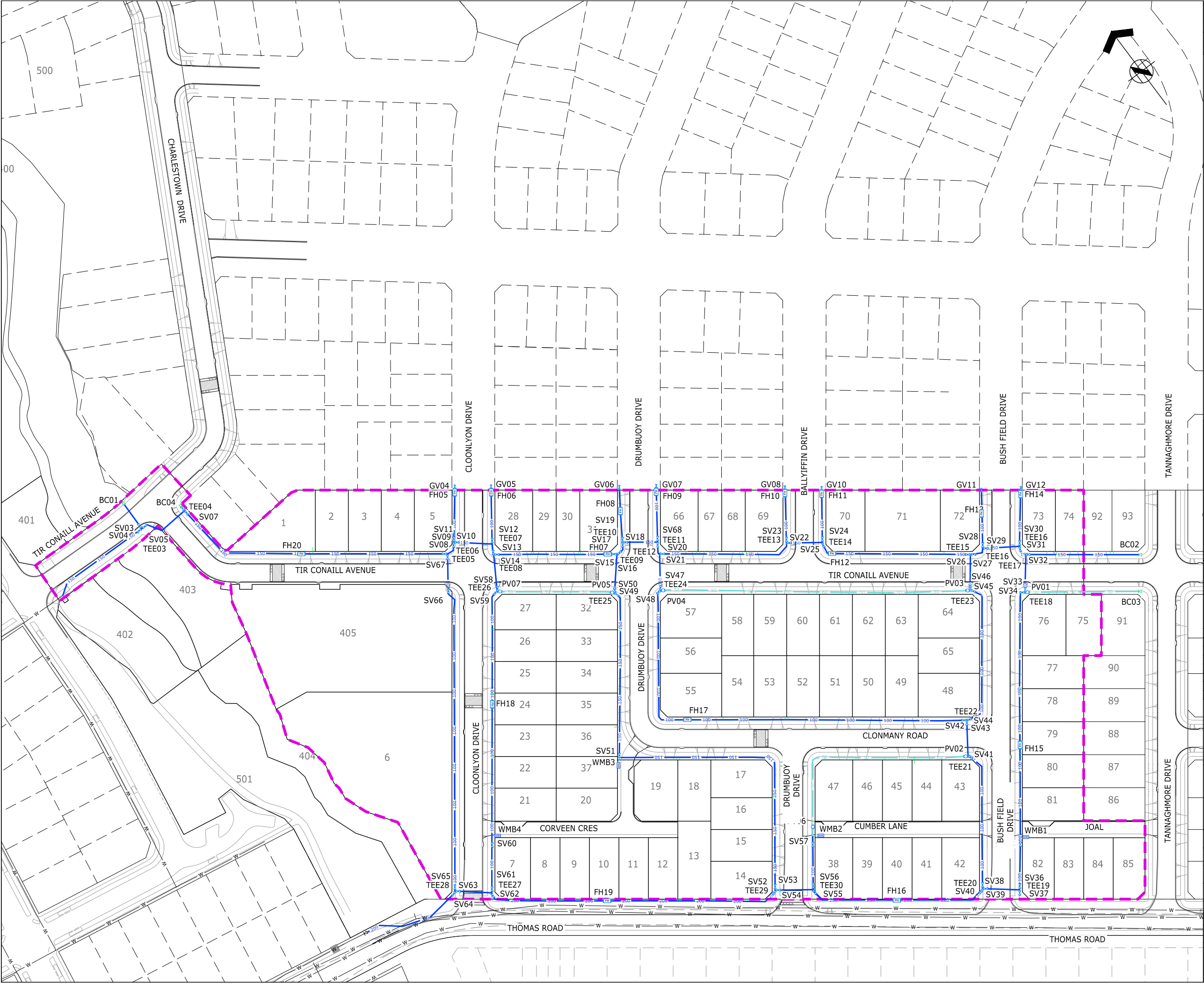
ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: BB	DATE: 08.2018	SIGNED:	PLOT DATE: 17.09.18
CHECKED: WJP	DATE: 14.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 14.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:
AS-BUILT

PROJECT No: 1050-139718-01	SCALES: 1:500-A1 1:1000-A3	A1
DRAWING No:		REV

139718-AB407

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. ALL LOT CONNECTIONS ARE 25mm.

LEGEND:
- - - STAGE BOUNDARY
200 NEW 200 NB uPVC WATERMAIN LINE
150 NEW 150 NB uPVC WATERMAIN LINE
100 NEW 100 NB uPVC WATERMAIN LINE
50 NEW 50 NB uPVC WATERMAIN LINE
- NEW WATER CONNECTION
- EXISTING WATERMAIN LINE
FH NEW FIRE HYDRANT
SV NEW SLUCE VALVE
TEE NEW TEE VALVE
WMB NEW BANK WATERMAIN METER

ENGINEERING APPROVAL
ENG-60310923

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: 14.09.2018
Name: WILLIAM JOHN FREDERICK PLATTS
Phone: 09-917-5000
Email: w.platts@harrisingrierson.com



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A	AS-BUILT	WJP	14.09.18
REF	REVISIONS	BY	DATE

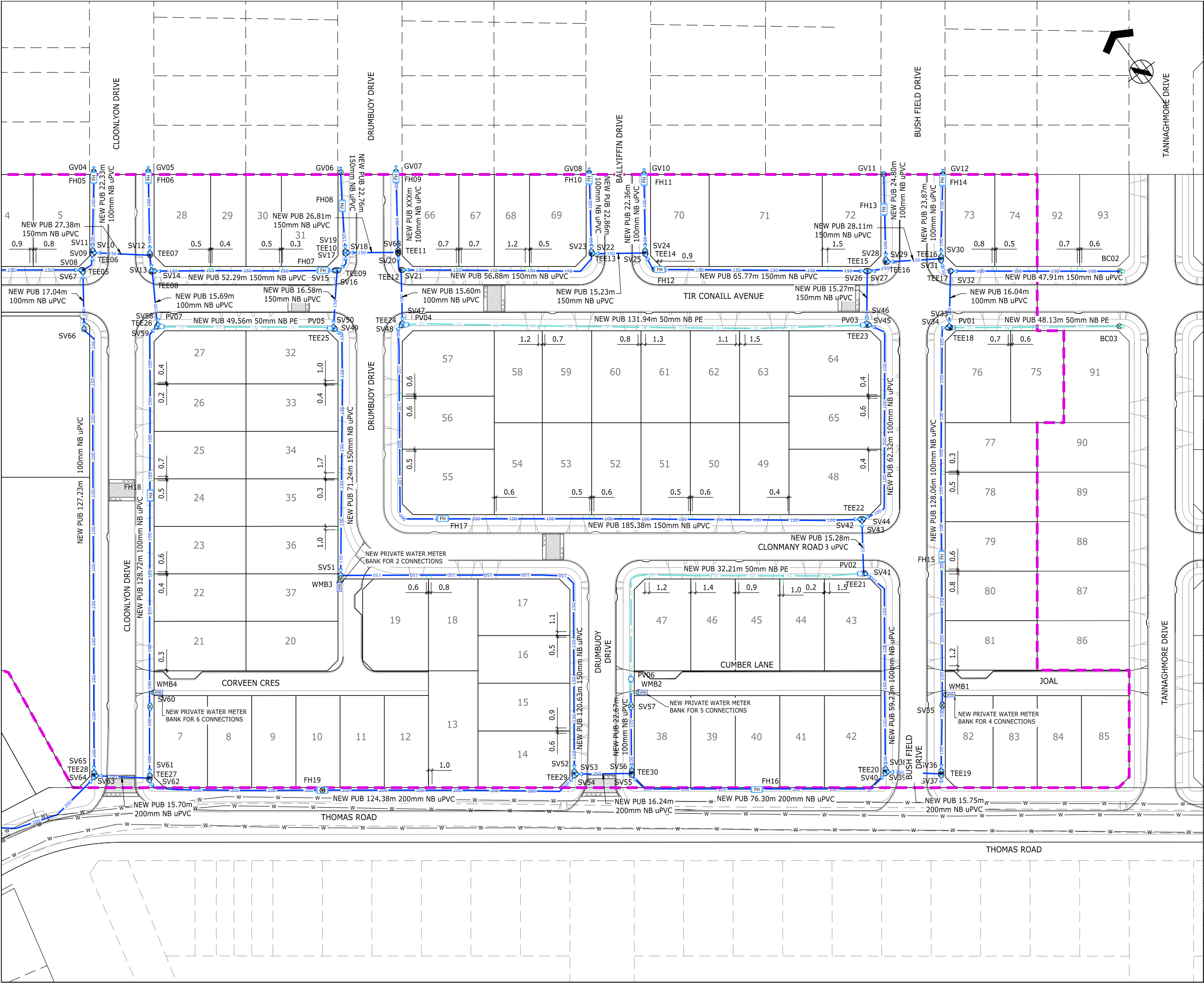
PROJECT:
**HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH**

TITLE:
**OVERALL WATERMAIN
AS-BUILT PLAN**

ORIGINATOR:	DATE:	SIGNED:	PLOT BY:
DW	07.2018		BKB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
BB	08.2018		14.09.18
CHECKED:	DATE:	SIGNED:	SURVEY BY:
WJP	14.09.18		DEMPSEY WOOD
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
WJP	14.09.18		07.2018

ISSUE STATUS:
AS-BUILT

PROJECT No:	SCALES:	A1
1050-139718-01	1:750-A1 1:1500-A3	REV
DRAWING No:	139718-AB500	A





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NOTES:

1. FOR NOTES AND LEGEND REFER DWG 139718-AB500

ENGINEERING APPROVAL
ENG-60310923

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: **14.09.2018**

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harrisongrierson.com



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W www.harrisongrierson.com

A	AS-BUILT	WJP	14.09.18
REF	REVISIONS	BY	DATE

PROJECT:

**HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH**

TITLE:

**WATERMAIN AS-BUILT PLAN
SHEET 2 OF 2**

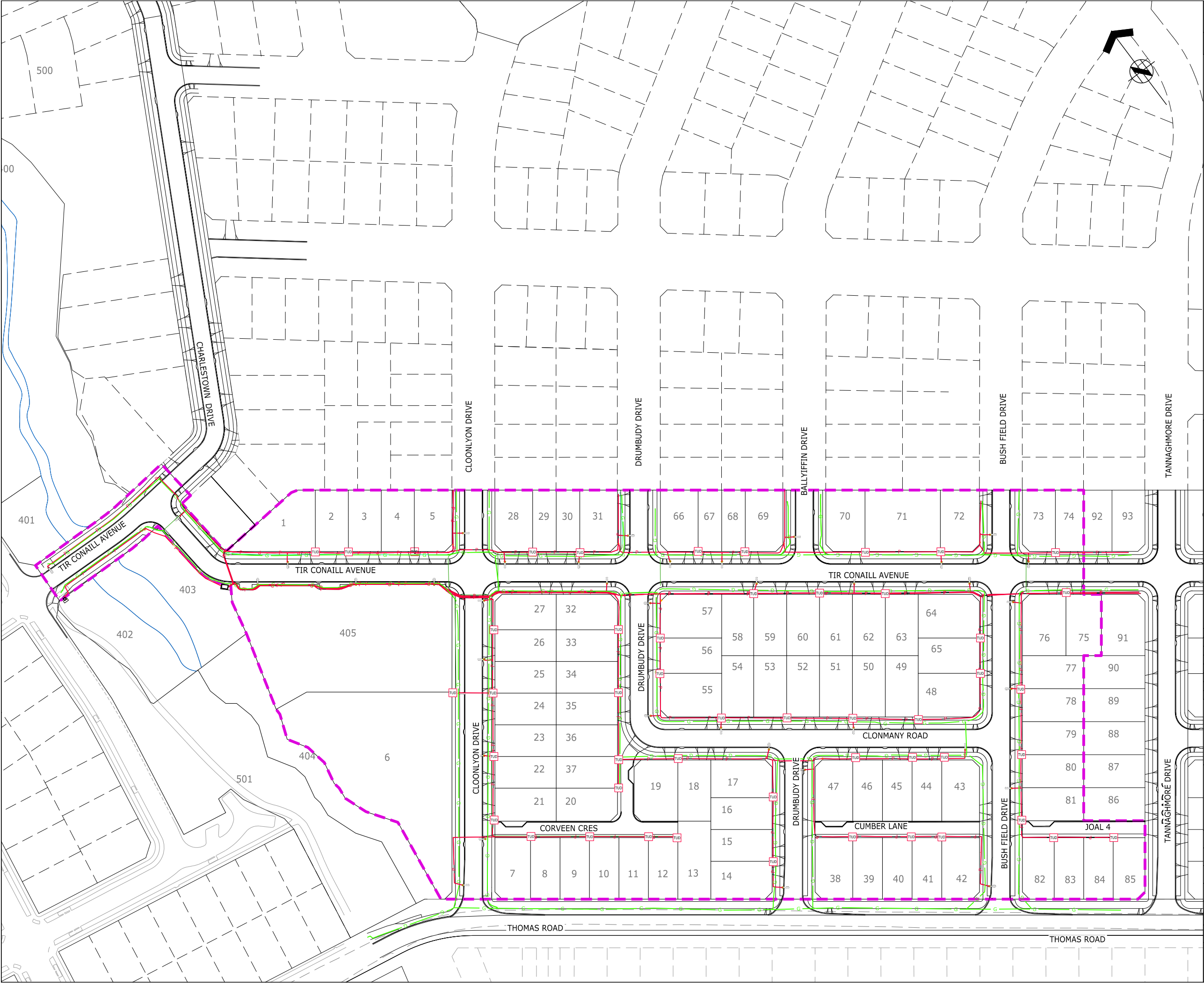
ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: BB	DATE: 08.2018	SIGNED:	PLOT DATE: 14.09.18
CHECKED: WJP	DATE: 14.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 14.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:

AS-BUILT

PROJECT No: 1050-139718-01	SCALES: 1:500-A1 1:1000-A3	A1
DRAWING No:		REV A

139718-AB502





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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

LEGEND

--- STAGE BOUNDARY

G NEW GAS PIPE

P NEW POWER

TUD NEW POWER TUD

NEW STREETLIGHT

ENGINEERING APPROVAL
ENG-60310923

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

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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: 07.09.2018

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harrissongrierson.com



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A	AS-BUILT	WJP	07.09.18
1	DRAFT AS-BUILT	DXK	30.08.18
REF	REVISIONS	BY	DATE

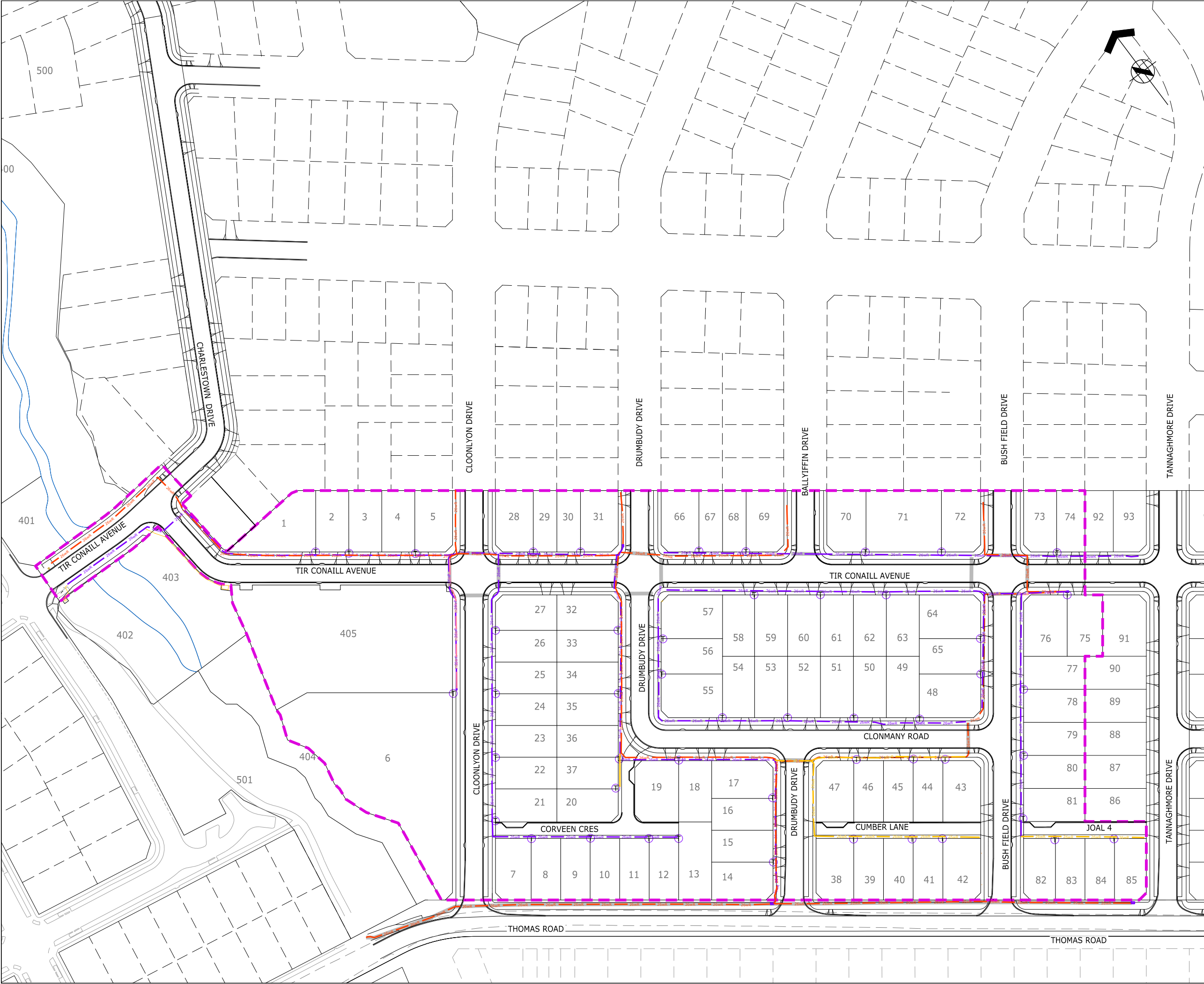
PROJECT:
**HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH**

TITLE:
**OVERALL POWER AND GAS
SERVICES AS-BUILT PLAN**

ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: BB	DATE: 08.2018	SIGNED:	PLOT DATE: 14.09.18
CHECKED: WJP	DATE: 07.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 07.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:
AS-BUILT

PROJECT No: 1050-139718-01	SCALES: 1:750-A1 1:1500-A3	A1
DRAWING No: 139718-AB600		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

LEGEND

26wR

26wR

26wR

26wR

26wR

26wR

26wR

STAGE BOUNDARY

NEW TELECOMMUNICATIONS
(26WAY RIBBONET)

NEW TELECOMMUNICATIONS
(12WAY RIBBONET)

NEW TELECOMMUNICATIONS
(4 WAY MICRONET DUCT)

NEW TELECOMMUNICATIONS
(1 WAY MICRONET DUCT)

100mm uPVC DUCT

NEW TELECOM PLINTH

ENGINEERING APPROVAL
ENG-60310923

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: **07.09.2018**

Name: WILLIAM JOHN FREDERICK PLATTS

Phone: 09-917-5000

Email: w.platts@harrisingrierson.com



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PARNELL AUCKLAND 1052
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W www.harrisingrierson.com

REV	DESCRIPTION	DATE	BY	DATE
A	AS-BUILT	07.09.18	WJP	07.09.18
1	DRAFT AS-BUILT	30.08.18	DXK	30.08.18

PROJECT:

**HUGH GREEN LIMITED
DONEGAL STUD
84 THOMAS ROAD, FLAT BUSH**

TITLE:

**OVERALL TELECOMMUNICATION
SERVICES AS-BUILT PLAN**

ORIGINATOR: DW	DATE: 07.2018	SIGNED:	PLOT BY: BKB
DRAWN: BB	DATE: 08.2018	SIGNED:	PLOT DATE: 14.09.18
CHECKED: WJP	DATE: 07.09.18	SIGNED:	SURVEY BY: DEMPSEY WOOD
APPROVED: WJP	DATE: 07.09.18	SIGNED:	SURVEY DATE: 07.2018

ISSUE STATUS:

AS-BUILT

PROJECT No: 1050-139718-01	SCALES: 1:750-A1 1:1500-A3	A1
DRAWING No: 139718-AB605		REV A