Engineering Design, Connetics Ltd

DOCUMENT TRANSMITTAL SHEET

PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200

ORN1032341

DRAWING ISSUE DETAILS

		DATE	24/06/26								
DWG No.	**SHEET**	**DRAWING DETAIL**	**ISSUE**								
107942	WIS-1	Work Instruction Sheet	A								
107942	WIS-2	Work Instruction Sheet	A								
107942	HV-01	HV Schematics	A								
107942	LV-01	LV Schematics	A								
107942	LV-02	LV Schematics	A								
107942	LV-03	LV Schematics	A								
107942	LV-04	LV Schematics	A								
107942	SL-01	SL Schematics	A								
107942	SL-02	SL Schematics	A								
107942	SL-03	SL Schematics	A								
107942	SL-04	SL Schematics	A								
107942	KS-01	Key Sheet	A								
107942	CP-01	Cable Plan	A								
107942	CP-02	Cable Plan	A								
107942	CP-03	Cable Plan	A								
107942	CP-04	Cable Plan	A								
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
		Trenching Detail									
		Design Quantities									
		Pricing Sheet									
400459	1-3	Lighting Plan	B								

Notes:

BROADFIELD GRANGE

ACCEPTED
by Sammy Li on: 21 10 2026, 10:53 am
Orion

SUBDIVISION - STAGES 15 & 16 & 17

connetics

JOB No.	SHEET
107942	1 OF 1

PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200

WORKS INSTRUCTION SHEET

WORK DESCRIPTION:

In order to provide electrical reticulation to Broadfield Grange 15, 16, and 17, refer to Connetics working drawings 107942, HV, LV & SL schematics

1. Install 2 full kiosks, each with a 3K1T MSU & 200kVA transformer
2. Lay 11kV and 400V cables.
3. Carry out 11kV & 400V cable thru joints.
4. Terminate all cables, complete test certificates & label circuits.
5. Liven all Circuits only after clearance from Orion's Contract Manager.
6. Test earthing to ensure compliance.
7. All Work shall comply with Orion NZ Ltd's Design Standards and Specifications.
8. Customer service mains to be connected in accordance with the Electrical Safety Regulations.

PREPARED BY:	O. Stuitje
DATE PREPARED:	24/06/2026
ORION CONTRACT MANAGER	P. Johnson
ES NUMBER:	ORN1032341
WORK ORDER NUMBER:	N/A

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
SCOUT ST LOT301 - L3/1312						
NEW 3K1T MSU						Install new full kiosk in Orion title site. Fit with a 3K1T MSU, a 200kVA transformer. Earthing to Orion Technical Spec. NW70.59.01
	Links	**51**	**185Al 3C 11kV**	**New**	**KENNEBROOK RD Lot 270 CCT 51**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Open	**52**	**185Al 3C 11kV**	**New**	**BOCHE CR NO.30 CCT 52**	Terminate and connect new cable, trifurcated to singles. Label Insulated End
	Links	**53**	**185Al 3C 11kV**	**New**	**AERIAL RD NO.29 CCT 52**	Terminate and connect new cable, trifurcated to singles. Label Insulated End
16A	**Fuses**	**54**	**3-25Al 1C 11kV**	**New**	**Local Transformer**	Install 25mmAl single HV leads between MSU and TX.
NEW 800A DIN TYPE LV PANEL						Install 800Amp LV DIN panel. Fit with 630A incomer and 6 outgoing circuits. Install & commission LV monitoring equipment as per NW72.22.22. Install lighting as per NW72.22.20
Local service	**32A fuse**		**6mm**	**New**		Install local service panel UE2.11.4.
630A	**355Amp fuses**	**1**	**185Al 3C+1 CuNS LV**	**New**	**AMBERECHI LOT 300 CCT4**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**2**	**185Al 3C+1 CuNS LV**	**New**	**KENNEBROOK LOT 341 CCT3**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**3**	**185Al 3C+1 CuNS LV**	**New**	**DB-V AT LOT 327**	Terminate and connect new cable, label circuit destination.
630A	**630Amp Links**	**Incomer**	**4-185Cu 1C LV**	**New**	**Local Transformer**	Fit set of leads between transformer LV bushings and LV panel.
630A	**Open**	**4**	**185Al 3C+1 CuNS LV**	**New**	**FALCONS VIEW 45 CCT 3**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**5**	**185Al 3C+1 CuNS LV**	**New**	**WILLOW WOOD LOT 207 CCT 2**	Terminate and connect new cable, label circuit destination.
630A	**Open**	**6**	**185Al 3C+1 CuNS LV**	**New**	**WILLOW WOOD LOT 274 CCT 3**	Terminate and connect new cable, label circuit destination.
-	**Not equipped**	**7**	**-**	**-**	**-**	Fit cover kit.
	Generator Way	**Gen.**				Fit Generator spare way cover kit.
Street lighting: Install SL panel as per UE1.1.6. terminate 4 SL 5th cores						
KENNEBROOK RD LOT 270 - L3/1314						
NEW 3K1T MSU						Install new full kiosk in Orion title site. Fit with a 3K1T MSU, a 200kVA transformer. Earthing to Orion Technical Spec. NW70.59.01
	Links	**51**	**185Al 3C 11kV**	**New**	**Scout St Lot 301 CCT 51**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
16A	**Fuses**	**54**	**3-25Al 1C 11kV**	**New**	**Local Transformer**	Install 25mmAl single HV leads between MSU and TX.
NEW 800A DIN TYPE LV PANEL						Install 800Amp LV DIN panel. Fit with 630A incomer and 6 outgoing circuits. Install & commission LV monitoring equipment as per NW72.22.22. Install lighting as per NW72.22.20
Local service	**32A fuse**		**6mm**	**New**		Install local service panel UE2.11.4.
630A	**Open**	**1**	**-**	**-**	**-**	Equip circuit ready for future stage.
630A	**Open**	**2**	**-**	**-**	**-**	Equip circuit ready for future stage
630A	**355Amp fuses**	**3**	**185Al 3C+1 CuNS LV**	**New**	**KENNEBROOK LOT 264 CCT 3**	Terminate and connect new cable, label circuit destination.
630A	**630Amp Links**	**Incomer**	**4-185Cu 1C LV**	**New**	**Local Transformer**	Fit set of leads between transformer LV bushings and LV panel.
630A	**355Amp fuses**	**4**	**185Al 3C+1 CuNS LV**	**New**	**AMBERECHI LOT 300 CCT3**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**5**	**185Al 3C+1 CuNS LV**	**New**	**AMBERECHI LOT 300 CCT2**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**6**	**185Al 3C+1 CuNS LV**	**New**	**WILLOW WOOD LOT 274 CCT 1**	Terminate and connect new cable, label circuit destination.
-	**Not equipped**	**7**	**-**	**-**	**-**	Fit cover kit.
	Generator Way	**Gen.**				Fit Generator spare way cover kit.
Street lighting: Install SL panel as per UE1.1.6. Fit ripple relay & terminate 4 SL 5th cores						

Notes:

Accepted For Construction

Name:
Position:
Date

ACCEPTED
by Sammy Li
on 21 Jul 2026, 10:53 am

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Orion

ISSUE
A

BROADFIELD GRANGE

SUBDIVISION - STAGES 15 & 16 & 17

connetics
ALL WAYS CONNECTING

JOB No.	Sheet
107942	WIS-1

PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200

WORKS INSTRUCTION SHEET

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
AERIAL RD NO. 29						
630A	630Amp fuses	4	185AI 3C+1 CuNS LV	Ex	KENNEBROOK LOT 341	Install new distribution cabinet (M1) Equip 4 ways.
BOCHE CR NO. 30						
630A	630Amp fuses	4	185AI 3C+1 CuNS LV	Ex	SCOUT LOT 337 CCT 3	Relabel circuit destination.

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
WILLOW WOOD LOT 274 - L3/1310						
						Install new distribution cabinet (M1) Equip 4 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	KENNEBROOK RD LOT 270 CCT 6	Terminate and connect new cable, label circuit destination.
630A	Open	2	185AI 3C+1 CuNS LV	New	AMBERECHI LOT 300 CCT1	Terminate and connect new cable, label circuit destination.
630A	Links	3	185AI 3C+1 CuNS LV	New	SCOUT ST LOT 301 CCT 6	Terminate and connect new cable, label circuit destination.
630A	Open	4	185AI 3C+1 CuNS LV	New	WILLOW WOOD LOT 207 CCT 1	Terminate and connect new cable, label circuit destination.
WILLOW WOOD LOT 207 - L3/1311						
						Install new distribution cabinet (M1) Equip 3 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	WILLOW WOOD LOT 274 CCT 4	Terminate and connect new cable, label circuit destination.
630A	Links	2	185AI 3C+1 CuNS LV	New	SCOUT ST LOT 301 CCT 5	Terminate and connect new cable, label circuit destination.
630A	Open	3	185AI 3C+1 CuNS LV	New	FALCONS VIEW 49 CCT 1	Terminate and connect new cable, label circuit destination.
AMBERECHI LOT 300 - L3/1313						
						Install new distribution cabinet (M1) Equip 4 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	WILLOW WOOD LOT 274 CCT 2	Terminate and connect new cable, label circuit destination.
630A	Open	2	185AI 3C+1 CuNS LV	New	KENNEBROOK RD LOT 270 CCT 5	Terminate and connect new cable, label circuit destination.
630A	Open	3	185AI 3C+1 CuNS LV	New	KENNEBROOK RD LOT 270 CCT 4	Terminate and connect new cable, label circuit destination.
630A	Links	4	185AI 3C+1 CuNS LV	New	SCOUT ST LOT 301 CCT 1	Terminate and connect new cable, label circuit destination.
KENNEBROOK LOT 264 - L3/1315						
						Install new distribution cabinet (M1) Equip 3 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	SCOUT LOT 337 CCT 2	Terminate and connect new cable, label circuit destination.
630A	Open	2	185AI 3C+1 CuNS LV	New	OFF SELWYN LOT 257 CCT 4	Terminate and connect new cable, label circuit destination.
630A	Links	3	185AI 3C+1 CuNS LV	New	KENNEBROOK RD LOT 270 CCT 3	Terminate and connect new cable, label circuit destination.
KENNEBROOK LOT 341 - L3/1316						
						Install new distribution cabinet (M1) Equip 4 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	OFF LADY ISAAC LOT 347	Terminate and connect new cable, label circuit destination.
630A	Links	2	185AI 3C+1 CuNS LV	New	AERIAL RD NO.29 CCT 4	Terminate and connect new cable, label circuit destination.
630A	Open	3	185AI 3C+1 CuNS LV	New	SCOUT ST LOT 301 CCT 2	Terminate and connect new cable, label circuit destination.
630A	Open	4	185AI 3C+1 CuNS LV	New	SCOUT LOT 337 CCT 1	Terminate and connect new cable, label circuit destination.
SCOUT LOT 337 - L3/1317						
						Install new distribution cabinet (M1) Equip 3 ways.
630A	Links	1	185AI 3C+1 CuNS LV	New	KENNEBROOK LOT 341 CCT 4	Terminate and connect new cable, label circuit destination.
630A	Links	2	185AI 3C+1 CuNS LV	New	KENNEBROOK LOT 264 CCT 1	Terminate and connect new cable, label circuit destination.
630A	Open	3	185AI 3C+1 CuNS LV	New	BOCHE CR NO.30 CCT 4	Terminate and connect new cable, label circuit destination.
OFF SELWYN LOT 257						
630A	Links	4	185AI 3C+1 CuNS LV	Ex	KENNEBROOK LOT 264 CCT 2	Relabel circuit destination.
BOCHE CR NO. 30						
630A	Links	4	185AI 3C+1 CuNS LV	Ex	SCOUT LOT 337 CCT 3	Relabel circuit destination.
FALCONS VIEW 49						
630A	Links	1	185AI 3C+1 CuNS LV	Ex	WILLOW WOOD LOT 207 CCT 3	Relabel circuit destination.
FALCONS VIEW 45						
630A	Links	3	185AI 3C+1 CuNS LV	Ex	SCOUT ST LOT 301 CCt 4	Relabel circuit destination.
OFF LADY ISAAC LOT 347						
630A	Links	2	185AI 3C+1 CuNS LV	Ex	KENNEBROOK LOT 341 CCT 1	Relabel circuit destination.

Notes:

Accepted For Construction

Name:

Position:

Date:

ACCEPTED by Sammy Li on: 21 10 2026, 10:53 am

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ISSUE
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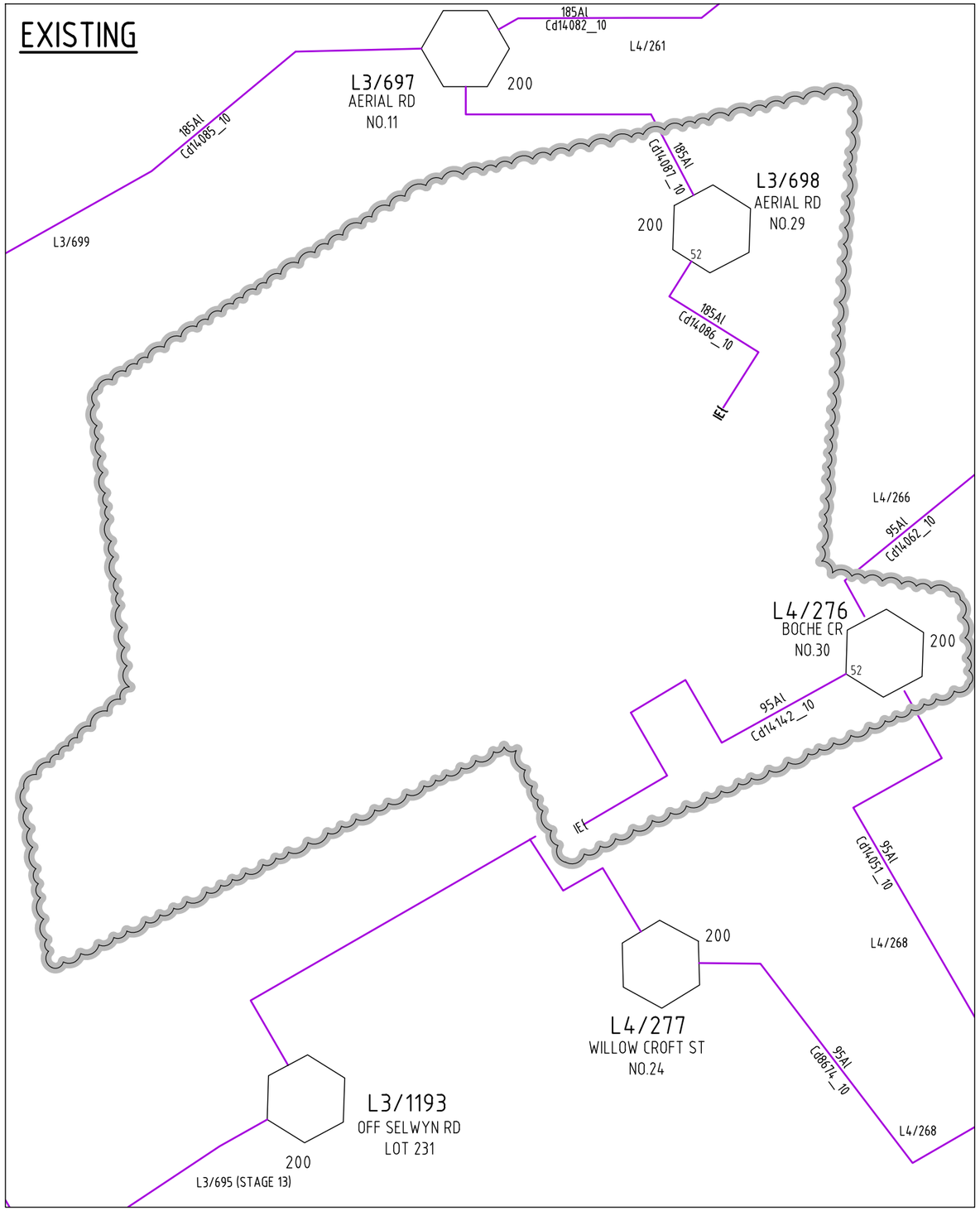
BROADFIELD GRANGE

SUBDIVISION - STAGES 15 & 16 & 17

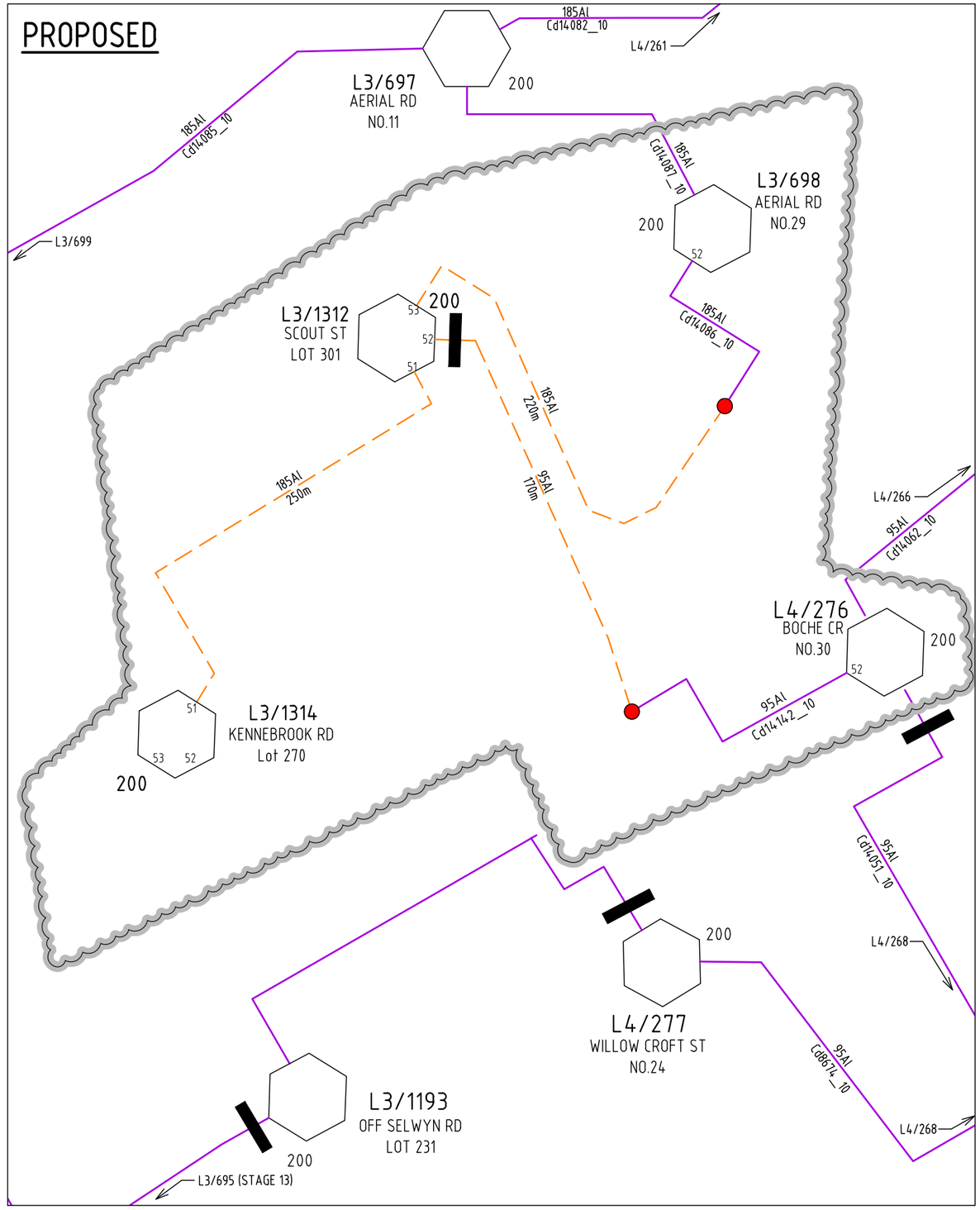
connetics ALL WAYS CONNECTING

JOB No.	Sheet
107942	WIS-2

EXISTING



PROPOSED



1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J

ACCEPTED
by Sammy Li on: 21.10.2026, 10:53 am
Orion

TASK	NAME	SIGNATURE	DATED
DESIGNED	O.STUITJE		12/08/26
DRAWN	O.STUITJE		12/08/26
CHECKED	N.JARRETT		12/08/26
APPROVED			
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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
HV SCHEMATICS (EXISTING & PROPOSED)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	HV-01

EXISTING 01

L3/696
SCOUT ST
NO.26

FALCONS VIEW DR

L3/1197
FALCONS VIEW 45

L3/1196
FALCONS VIEW 49

EX. DB

SCOUT STREET

AERIAL ROAD

ASPECT ST

L3/698
AERIAL RD
NO.29

TO BOCHE CR NO.3 CCT3

L4/311
OFF LADY ISAAC LOT 347

699
VIEW DR
0.67

WILLOW WOOD STREET

AMBERECHI STREET

KENNEBROOK ROAD

LADY ISAAC DR

LV-02

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J

ACCEPTED
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Orion

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DESIGNED	O.STUITJE		12/08/26
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APPROVED			
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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
LV SCHEMATICS (EXISTING 01)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	LV-01

EXISTING 02

LV-01

LV-01

AMBERECHI STREET

WILLOW WOOD STREET

KENNEBROOK ROAD

LADY ISAAC DR

LADY ISAAC DR

SCOUT ST

CARABELLA CR

CARABELLA CR

TBC: STAGE 14
OFF SELWYN LOT 257

1 2 3 4

185Al

185Al

185Al

185Al

185Al

185Al

185Al

185Al

L4/276
BOCHE CR
NO.30

1 2 3 4 5 6 7 8

L4/277
WILLOW CROFT ST NO.24

1 2 3 4 5 6 7 8 9 10 11

Ex. OFF SELWYN RD LOT 248 CCT 6

Ex. OFF SELWYN RD LOT 248 CCT 1

Ex. OFF SELWYN LOT 190

Ex. OFF SELWYN LOT 236

Ex. SCOUT ST NO.79 CCT 2

Ex. SCOUT ST NO.79 CCT 3

1:100 (A3) 0 1 2 3 4 5m

1:250 (A3) 0 2.5 5 7.5 10 12.5m

1:500 (A3) 0 5 10 15 20 25m

1:1000 (A3) 0 10 20 30 40 50m

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
LV SCHEMATICS (EXISTING 02)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	LV-02

PROPOSED 01

SITE No: L3/696	
TOTAL EXISTING CONNECTIONS	33
TOTAL PROPOSED CONNECTIONS	42

SITE No: L3/698	
TOTAL EXISTING CONNECTIONS	30
TOTAL PROPOSED CONNECTIONS	33

SITE No: L3/1312	
TOTAL EXISTING CONNECTIONS	0
TOTAL PROPOSED CONNECTIONS	39

FALCONS VIEW DR
AERIAL ROAD
ASPECT ST
SCOUT STREET
WILLOW WOOD STREET
AMBERECHI STREET
KENNEBROOK ROAD
LADY ISAAC DR
AERIAL ROAD
L3/696 SCOUT ST NO.26
L3/1197 FALCONS VIEW 45
L3/1196 FALCONS VIEW 49
L3/1311 WILLOW WOOD LOT 207
L3/1312 SCOUT ST LOT 301
L3/1313 AMBERECHI LOT 300
L3/698 AERIAL RD NO.29
L4/311 OFF LADY ISAAC LOT 347
L3/1316 KENNEBROOK LOT 341
EX. DB
TO BOCHE CR NO.3 CCT3
LV-04

1:100 (A3) 1:250 (A3) 1:500 (A3) 1:1000 (A3)

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
LV SCHEMATICS (PROPOSED 01)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	LV-03

PROPOSED 02

LV-03

LV-03

L3/1310
WILLOW WOOD
LOT 274

AMBERECHI STREET

WILLOW WOOD STREET

KENNEBROOK ROAD

L3/1314
KENNEBROOK RD
LOT 270

L3/1315
KENNEBROOK
LOT 264

L3/1317
SCOUT LOT 337

L4/276
BOCHE CR
NO.30

LADY ISAAC DR

CARABELLA CR

SCOUT ST

TBC: STAGE 14
OFF SELWYN LOT 257

L4/277
WILLOW CROFT ST NO.24

SITE No: L3/1314	
TOTAL EXISTING CONNECTIONS	0
TOTAL PROPOSED CONNECTIONS	35

Ex. OFF SELWYN RD LOT 248 CCT 6

Ex. OFF SELWYN RD LOT 248 CCT 1

Ex. OFF SELWYN LOT 190

Ex. OFF SELWYN LOT 236

Ex. SCOUT ST NO.79 CCT 2

Ex. SCOUT ST NO.79 CCT 3

1:100 (A3) 1:250 (A3) 1:500 (A3) 1:1000 (A3)

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
LV SCHEMATICS (PROPOSED 02)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	LV-04

EXISTING 01

L3/696
SCOUT ST
NO.26

FALCONS VIEW DR

L3/1197
FALCONS VIEW 45

L3/1196
FALCONS VIEW 49

TO EX SL FEED
POINT L4/261
FALCONS VIEW NO.16

SCOUT STREET

FALCONS VIEW DR

SCOUT STREET

WILLOW WOOD STREET

AERIAL RD

ASPECT ST

L3/698
AERIAL RD
NO.29
1 2 3 4 5

AERIAL ROAD

KENNEBROOK ROAD

LADY ISAAC DR

AMBERECHI STREET

SCOUT STREET

N

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

SL-02

SL-02

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J	DESIGNED	O.STUITJE		12/08/26
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by Sammy Li on: 21-10-2026, 10:53 am
Orion

BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
SL SCHEMATICS (EXISTING 01)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	SL-01

SL-01

EXISTING 02

SL-01

N

WILLOW WOOD STREET

KENNEBROOK ROAD

TO EX SL FEED
L4/266
LADY ISAAC DR NO.203

LADY ISAAC DR

CARABELLA CR

L4/276
BOCHE CR
NO.30

TBC: STAGE 14
OFF SELWYN
LOT 257

LADY ISAAC DR

SCOUT ST

185Al

185Al

185Al

185Al

185Al

185Al

185Al

185Al

185Al

185Al

CARABELLA CR

Ex. OFF SELWYN RD LOT 248 CCT 6

Ex. OFF SELWYN RD LOT 248 CCT 1

Ex. OFF SELWYN LOT 190

Ex. OFF SELWYN LOT 236

L4/277
WILLOW CROFT ST NO.24

Ex. SCOUT ST NO.79 CCT 3

Ex. SCOUT ST NO.79 CCT 2

1:100 (A3) 0 1 2 3 4 5m

1:250 (A3) 0 2.5 5 7.5 10 12.5m

1:500 (A3) 0 5 10 15 20 25m

1:1000 (A3) 0 10 20 30 40 50m

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A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J	DESIGNED	O.STUITJE		12/08/26
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by: Sammy Li on: 21-10-2026, 10:53 am
Orion

BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
SL SCHEMATICS (EXISTING 02)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	SL-02

PROPOSED 01

L3/696
SCOUT ST
NO.26

FALCONS VIEW DR

L3/1197
FALCONS VIEW 45

L3/1196
FALCONS VIEW 49

TO EX SL FEED
POINT L4/261
FALCONS VIEW NO.16

SCOUT STREET

L3/1311
WILLOW WOOD
LOT 207

WILLOW WOOD STREET

L3/1312
SCOUT ST
LOT 301

L3/1313
AMBERECHI
LOT 300

AMBERECHI STREET

AERIAL RD

ASPECT ST

L3/698
AERIAL RD
NO.29

AERIAL ROAD

KENNEBROOK ROAD

L3/1316
KENNEBROOK
LOT 341

LADY ISAAC DR

SL-04

SL-04

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J

ACCEPTED
by Sammy Li on: 21 10 2026, 10:53 am
Orion

TASK	NAME	SIGNATURE	DATED
DESIGNED	O.STUITJE		12/08/26
DRAWN	O.STUITJE		12/08/26
CHECKED	N.JARRETT		12/08/26
APPROVED			
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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
SL SCHEMATICS (PROPOSED 01)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	SL-03

PROPOSED 02

SL-03

SL-03

LOT 341

L3/1310
WILLOW WOOD
LOT 274

L3/1314
KENNEBROOK RD
LOT 270
NEW S/L FEED POINT

L3/1315
KENNEBROOK
LOT 264

L3/1317
SCOUT LOT 337

TO EX SL FEED
L4/266
LADY ISAAC DR NO.203

L4/276
BOCHE CR
NO.30

TBC: STAGE 14
OFF SELWYN
LOT 257

L4/277
WILLOW CROFT ST NO.24

WILLOW WOOD STREET

KENNEBROOK ROAD

LADY ISAAC DR

LADY ISAAC DR

SCOUT ST

CARABELLA CR

CARABELLA CR

P1 P2 P3 P4 P5 P6 P7 P12 P15 P19

185Al 16Cu 30m 21m 16m 20m 8m 39m 33m

Ex. OFF SELWYN RD LOT 248 CCT 6

Ex. OFF SELWYN RD LOT 248 CCT 1

Ex. OFF SELWYN LOT 190

Ex. OFF SELWYN LOT 236

Ex. SCOUT ST NO.79 CCT 2

Ex. SCOUT ST NO.79 CCT 3

1:100 (A3) 0 1 2 3 4 5m

1:250 (A3) 0 2.5 5 7.5 10 12.5m

1:500 (A3) 0 5 10 15 20 25m

1:1000 (A3) 0 10 20 30 40 50m

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	04/09/26	O.S	O.S	N.J	DESIGNED	O.STUITJE		04/09/26
						DRAWN	O.STUITJE		04/09/26
						CHECKED	N.JARRETT		04/09/26
						APPROVED			
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ACCEPTED
by: Sammy Li on: 21-10-2026, 10:53 am
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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
SL SCHEMATICS (PROPOSED 02)

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	SL-04

NOTES:

1. FOR ALL CUSTOMER SERVICE CABLES:
   - INSTALLATION OF CABLES TO COMPLY WITH AS/NZS3000 AND REQUIRES AT LEAST 100mm SEPARATION FROM OTHER SERVICES, INSTALLATION OF WARNING TAPE AND A MINIMUM OF 500mm COVER FROM FINISHED GROUND LEVEL
   - CABLES TO BE LOCATED 300mm MIN. OFF BOUNDARY
   - CABLES TO BE INSTALLED INTO DB AND BE CAPPED AND COILED CLEAR OF ANY LIVE PARTS WITH SUFFICIENT LENGTH FOR TERMINATION
   - CUSTOMER END OF CABLE TO BE CAPPED AND BURIED 1m INSIDE OF BOUNDARY
   - CONTRACTOR TO ISSUE A COPY OF CoC TO DEVELOPER
   - ELECTRICIAN TO REDUCE ALL CABLES EXCEEDING 35mm^2 TO MAXIMUM 35mm^2 COPPER CONDUCTORS FOR TERMINATION INTO DISTRIBUTION BOXES
2. ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02
3. STREETLIGHTING PLAN REFERENCE: 400459 REV B AS OF 15/04/26

PROJECT CONNECTIONS TABLE	
TOTAL PROPOSED CONNECTIONS:	86
ALTERED CONNECTIONS:	N/A
DECOMMISSIONED CONNECTIONS:	N/A

CP-01 CP-02 CP-03 CP-04

SCOPE PL
SCOUT ST
SIGHT CL
AERIAL RD
EXPLORER LN
PEEK LN
FALCONS VIEW DR
PANORAMA DR
ASPECT ST
WILLOW WOOD STREET
AMBERECHI STREET
SCOUT STREET
AERIAL ROAD
KENNEBROOK ROAD
ROAD 10
LADY ISAAC DR
CARABELLA CR
CLEMENT AV
BARATHEON RD
RADAR DR
TE KANAWA

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	12/08/26	O.S	O.S	N.J

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
KEY SHEET

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107942	KS-01

NOTES:

1. FOR ALL CUSTOMER SERVICE CABLES:
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N

278 279 280 281 282 283 284

INSTALL 185Al 3C + 1 CuNS LV

INSTALL 185Al 3C + 1 CuNS LV 25Cu

DB-U 3-FUSES

SEE CP-2

277

P9

INSTALL 1C 16Cu NS SL

WILLOW WOOD STREET

INSTALL 1C 16Cu NS SL

P10

P8

INSTALL 1C 16Cu NS SL

294 293 292 291 290

INSTALL 185Al 3C + 1 CuNS LV

276

275

INSTALL 185Al 3C + 1 CuNS LV

295 296 297 298 299

DEVELOPER TO INSTALL 3-100mm PVC DUCTS & 2-150mm PVC SPARE DUCTS. HAUL THRU 2-185Al 3C + 1 CuNS LV & 1-185Al 3C 11kV

INSTALL 185Al 3C + 1 CuNS LV & 185Al 3C 11kV

274

L3/1310
WILLOW WOOD LOT 274

INSTALL DC-M1 EQUIP 4 WAYS

INSTALL 185Al 3C + 1 CuNS LV & 185Al 3C 11kV

273

P7

P12

P13

AMBERECHI STREET

SEE CP-3

1:100 (A3) 5m 4 3 2 1 0
1:250 (A3) 12.5m 10 7.5 5 2.5 0
1:500 (A3) 25m 20 15 10 5 0
1:1000 (A3) 50m 40 30 20 10 0

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
CABLE PLAN - SHEET 1

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107942	CP-01

LOCATE EX. INS END, THRU JOINT AND EXTEND TO NEW DB-U

DB-U 3-FUSES

SEE CP-1

285 286 287

INSTALL 185Al 3C + 1 CuNS LV

L3/1311
WILLOW WOOD
LOT 337
INSTALL DC-M1
EQUIP 3 WAYS

INSTALL 185Al 3C + 1 CuNS LV
1C 16Cu NS SL

P18

INSTALL 2-185Al 3C + 1 CuNS LV

INSTALL 2-185Al 3C + 1 CuNS LV

WILLOW WOOD STREET

INSTALL 1C 16Cu NS SL

P11

SCOUT STREET

DB-U 3-FUSES

INSTALL 185Al 3C + 1 CuNS LV

290 289 288

INSTALL 2-185Al 3C + 1 CuNS LV

L3/1312
SCOUT ST LOT301
SEE DETAIL A
INSTALL FULL KIOSK, FIT WITH
- 3K1T MSU
- 200kVA TX
- 800A DIN LV PANEL
- EARTHING

EX. DB

INSTALL 185Al 3C + 1 CuNS LV

323

16Cu DOUBLE 25Cu

35Cu 324 DOUBLE 35Cu

ROW

DB-V 9-FUSES

35Cu 35Cu 25Cu 35Cu

326 DOUBLE 331 DOUBLE 325

INSTALL 185Al 3C + 1 CuNS LV

DEVELOPER TO INSTALL 1-100mm PVC DUCT & 1-150mm PVC SPARE DUCT. HAUL THRU 185Al 3C + 1 CuNS LV

327 328 329 330

INSTALL CUSTOMER SERVICE CABLES
1-25Cu 1C NS, 1-35Cu 1C NS, 3-70AL 1C NS, 1-95Al 1C NS

25Cu 35Cu

DB-V 9-FUSES

INSTALL 2-185Al 3C + 1 CuNS LV

ROW
DEVELOPER TO INSTALL 2-100mm PVC DUCTS & 2-150mm PVC SPARE DUCTS. HAUL THRU 2-185Al 3C + 1 CuNS LV

70Al 70Al 331

P17

INSTALL 1-185Al 3C + 1 CuNS LV
1C 16Cu NS SL
185Al 3C 11kV

RESERVE

70Al 332

99 300 301

INSTALL 185Al 3C + 1 CuNS LV

INSTALL 185Al 3C + 1 CuNS LV
185Al 3C 11kV
95 Al 3C 11kV

INSTALL DC-M1
EQUIP 4 WAYS

L3/1313
AMBERECHI
LOT 297

SEE CP-1

INSTALL 185Al 3C + 1 CuNS LV

DB-U 3-FUSES

INSTALL 95Al 3C 11kV

319

DB-U 3-FUSES

DEVELOPER TO INSTALL 4-100mm PVC DUCTS & 2-150mm PVC SPARE DUCTS. HAUL THRU 2-185 3C + 1 CuNS LV & 1-185 3C 11kV

320 318

INSTALL 185Al 3C + 1 CuNS LV

95Al 333

INSTALL 185Al 11kV

INSTALL 2-185Al 3C + 1 CuNS LV

INSTALL 1C 16Cu NS SL

P14

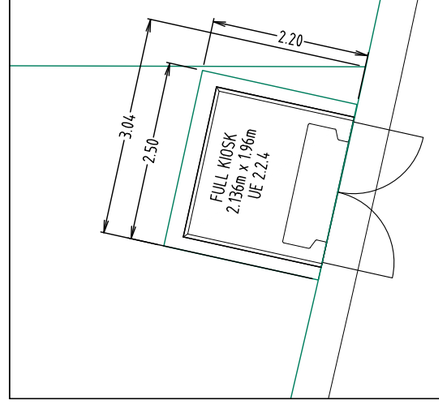
DEVELOPER TO INSTALL 3-100mm PVC DUCTS & 2-150mm PVC SPARE DUCTS. HAUL THRU 2-185Al 3C + 1 CuNS LV & 1-95 3C 11kV

70Al

SEE CP-4 SEE CP-4 371

AERIAL ROAD

L3/1312 - DETAIL A



NOTES:

1. FOR ALL CUSTOMER SERVICE CABLES:
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   - ELECTRICIAN TO REDUCE ALL CABLES EXCEEDING 35mm² TO MAXIMUM 35mm² COPPER CONDUCTORS FOR TERMINATION INTO DISTRIBUTION BOXES
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3. STREETLIGHTING PLAN REFERENCE: 400459 REV B AS OF 15/04/26

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
CABLE PLAN - SHEET 2

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107942	CP-02

NOTES:

1. FOR ALL CUSTOMER SERVICE CABLES:
   - INSTALLATION OF CABLES TO COMPLY WITH AS/NZS3000 AND REQUIRES AT LEAST 100mm SEPARATION FROM OTHER SERVICES, INSTALLATION OF WARNING TAPE AND A MINIMUM OF 500mm COVER FROM FINISHED GROUND LEVEL
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3. STREETLIGHTING PLAN REFERENCE: 400459 REV B AS OF 15/04/26

CP-1

SEE CP-1

DB-U 3-FUSES

272

INSTALL 185Al 3C + 1 CuNS LV & 185Al 3C 11kV

271

WILLOW WOOD STREET

L3/1314
KENNEBROOK RD LOT270
SEE DETAIL B
INSTALL FULL KIOSK, FIT WITH
- 3K1T MSU
- 200kVA TX
- 800A DIN LV PANEL
- EARTHING

270

INSTALL 1C 16Cu NS SL

P6

306

305

304

303

INSTALL 185Al 3C + 1 CuNS LV

307

309

310

311

308

INSTALL 185Al 3C + 1 CuNS LV

SEE CP-4

DEVELOPER TO INSTALL 1-100mm PVC DUCT & 5-150mm PVC SPARE DUCTS. HAUL THRU 1-185Al 3C + 1 CuNS LV.

FUTURE

INSTALL 1C 16Cu NS SL

P5

INSTALL 3-185Al 3C + 1 CuNS LV 1-185Al 3c 11kV

P4

INSTALL 1C 16Cu NS SL

KENNEBROOK ROAD

INSTALL 2-185Al 3C + 1 CuNS LV

L3/1314 - DETAIL B

2.50

FULL KIOSK
2.136m x 1.96m
UE 2.2.4

2.20

DB-U 3-FUSES

INSTALL 3-185Al 3C + 1 CuNS LV

INSTALL 185Al 3C + 1 CuNS LV

INSTALL DC-M1 EQUIP 3 WAYS

269

268

267

266

265

264

L3/1315
KENNEBROOK LOT 264

263

406

DEVELOPER TO INSTALL 2-100mm PVC DUCT & 2-150mm PVC SPARE DUCTS. HAUL THRU 2-185Al 3C + 1 CuNS LV

SEE CP-4

1:100 (A3) 5m 4 3 2 1 0

1:250 (A3) 12.5m 10 7.5 5 2.5 0

1:500 (A3) 25m 20 15 10 5 0

1:1000 (A3) 50m 40 30 20 10 0

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
CABLE PLAN - SHEET 3

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107942	CP-03

SEE CP-3

DB-U
3-FUSES

INSTALL
185Al 3C + 1 CuNS LV
& 1Cu NS SL

INSTALL
185Al 3C + 1 CuNS LV
& 95Al 3C 11kV

302

DB-U
3-FUSES

312

INSTALL
2- 185Al 3C + 1 CuNS LV
& 1-95Al 3C 11kV

P15

INSTALL
1C 16Cu NS SL

INSTALL
1C 16Cu NS SL P19

INSTALL
185Al 3C + 1 CuNS LV

P2

INSTALL
95Al 3C 11kV

P3

263

SEE CP-3

DB-U
3-FUSES

406

DIG, CUT &
EXTEND EX.
185Al 3C + 1 LV
TO OFF
KENNEBROOK
LOT 264

SEE CP-2

INSTALL
1C 16Cu NS SL

P16

SCOUT STREET

DB-U
3-FUSES

INSTALL 321
185Al 3C + 1 CuNS LV
185Al 3C 11kV

317

322

INSTALL
185Al 3C + 1 CuNS LV
185Al 3C 11kV

316

35Cu

INSTALL CUSTOMER SERVICE CABLES
1-25Cu 1C NS, 3-35Cu 1C NS, 1-70Al 1C NS

314

315

313

DOUBLE

DEVELOPER TO INSTALL 2-100mm PVC
DUCTS & 2-150mm PVC SPARE DUCTS. HAUL
THRU 1-185Al 3C + 1 CuNS LV & 1-185Al 3C
HV

INSTALL
185Al 3C + 1 CuNS LV
& 185Al 3C 11kV

DB-U
3-FUSES

INSTALL
185Al 3C + 1 CuNS LV
& 185Al 3C 11kV

DB-U
6-FUSES

KENNEBROOK ROAD

INSTALL
1C 16Cu NS SL

P1

INSTALL
2-185Al 3C +1 CuNS LV,
1-95Al 3C 11kV
1-16Cu NS SL

337

INSTALL
185Al 3C + 1 CuNS LV
& 16Cu NS SL

338

DB-U
3-FUSES

INSTALL
185Al 3C + 1 CuNS LV

339

DB-U
3-FUSES

DEVELOPER TO INSTALL 2-100mm PVC
DUCTS & 2-150mm SPARE PVC DUCTS.
HAUL THRU 2-185Al 3C + 1 CuNS LV

340

HAUL THRU 185Al 3C+1 CuNS LV THRU
EXISTING SPARE DUCT. THEN 185Al
3C+1 CuNS LV TO SCOUT LOT 337

L3/1317
SCOUT LOT 337

INSTALL DC-M1
EQUIP 3 WAYS

DIG, CUT, SWING &
EXTEND EX. 95Al
3C 11kV TO NEW
SCOUT ST 301.
ELECTRICALLY
SEAL & ABANDON
OTHER END.

SES

Ex. 185Al LV

EX. 95AL 3C 11kV CABLE
Cd14142_10 TO BE
ELECTRICALLY SEALED.

Ex. 95Al 11kV Cd14142_10

Ex. 185Al LV

DIG, CUT, AND SWING SOUTHERN END EX.
185Al 3C LV + 1CuNS TO NEW SCOUT LOT
337 ELECTRICALLY SEAL AND ABANDON
WEST END.

ROW

SEE CP-2

334

370

35Cu

335

369

35Cu

DIG, CUT, & THRU JOINT EX.
185Al 3C 11kV TO NEW 185
3C 11 kV

336

DIG & EXTEND EX.
185Al 3C + 1 Cu NS LV
TO NEW DC [SITE 7]

EX. DB

Ex. 185Al 3C LV

Ex. 185Al 11kV Cd14086_10

SES

CUT EX. CABLE AT
BOTH ENDS AND
ELECTRICALLY SEAL.

INSTALL
185Al 3C + 1 CuNS LV
& 185Al 3C 11kV

EX

SES

EX. DB

Ex. 185Al 3C LV

344

343

409

DB-U
3-FUSES

INSTALL
185Al 3C + 1 CuNS LV

342

INSTALL DC-M1
EQUIP 4 WAYS

L3/1316
OFF KENNEBROOK LOT 341

341

NOTES:

1. FOR ALL CUSTOMER SERVICE CABLES:
   - INSTALLATION OF CABLES TO COMPLY WITH AS/NZS3000 AND REQUIRES AT LEAST 100mm SEPARATION FROM OTHER SERVICES, INSTALLATION OF WARNING TAPE AND A MINIMUM OF 500mm COVER FROM FINISHED GROUND LEVEL
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1:100 (A3) 5m 4 3 2 1 0
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1:500 (A3) 25m 20 15 10 5 0
1:1000 (A3) 50m 40 30 20 10 0

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BROADFIELD GRANGE

SUBDIVISION
STAGES 15 & 16 & 17
CABLE PLAN - SHEET 4

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107942	CP-04

Design Hazard Assessment Register (HAZID)

Project:	Broadfield Grange ORN1032341	Prepared By:	O. Stuitje
		Reviewed By:	N. Jarret
		HAZID Phase:	Detailed Design (Includes Modifications)
		Date:	24 June 2026
		Document:	HAR-1
		Status:	Design REV A

Identified Hazards, Causes & Risks Associated with Design/Redesign of new or existing Assets and/or Introduction of New Asset Types, or a change to the Operating Conditions of Assets					Proposed Risk Treatment/Mitigation Measures & Residual Risk Ratings							Notes to Residual Risk (Which Must be So Far As Is Reasonably Practicable and Manageable)	
ID	Risk/Hazard & Cause - Inherent & Without Any Form of Mitigation	Inherent Consequence	Inherent Likelihood	Inherent Risk Rating	Risk Owner	Proposed Mitigation (Eliminate or Minimise/Control) - Include Existing & Proposed Mitigation Measures	Revised Consequence	Revised Likelihood	Residual Risk Rating	Estimated Cost of Mitigation ($)	Cost of Mitigation Disproportionate to Risk?	Risk Owner	Notes to Residual Risk
A - Planning & Conceptual Design													
A1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
B - Detailed Design (Includes Modifications)													
B1	Kiosk Earthing - assessed as Low Risk	Minor	Rare	Low	N/A	No further earthing design, studies or testing above Orion standard earthing practices.	Minor	Rare	Low	N/A	No	N/A	
C - Construction & Commissioning													
C1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
D - Operation & Maintenance													
D1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
E - Decommission & Disposal													
E1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	

Notepad - Use this space to describe the Project, any further information that cannot be described in the hazards above, and any other information that is important to document as part of the Safety in Design assessment

ACCEPTED
by Sammy Li on: 27-10-2026, 10:54 am
Orion

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

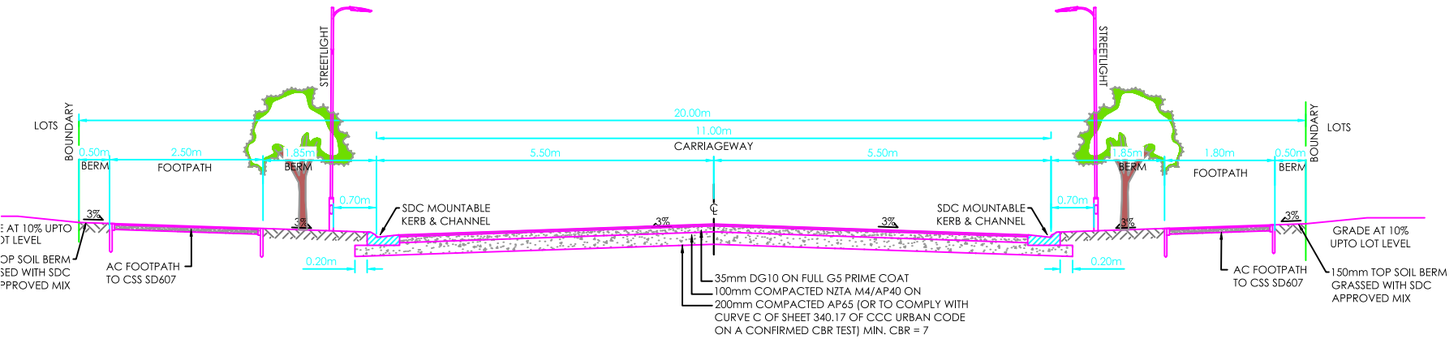
Work Order:	N/A
Work Title:	Broadfield Grange

Are the proposed earthworks:	**Yes/No *(circle one)***
1. Excluded under the global earthworks consent (refer section 4.1 and 4.2)?	Yes / No
2. In a Ground Contamination Risk Area?	Yes / No
3. In an Archaeology Area?	Yes / No
4. In a Cultural Significance Area?	Yes / No
5. Within 10m to the bed of a waterway identified as a Critical Habitat?	Yes / No
Where any of the above questions 2 – 5 have been ticked 'yes', has the proposed management / controls to proceed with works been accepted by Orion?	Yes / No

The design submitted to Orion complies with the Global Earthworks Consents requirements.

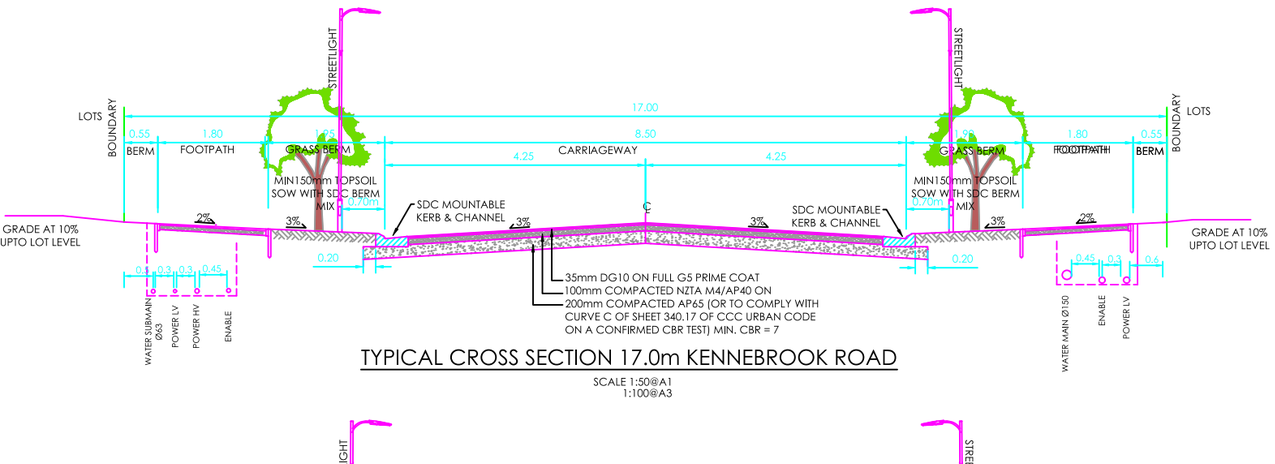
Name:	O. Stuitje
Signed:	Oliver.s
Company:	Connetics
Date:	24/06/2026

ACCEPTED by Sammy Li on: 21 10 2026, 10:54 am Orion



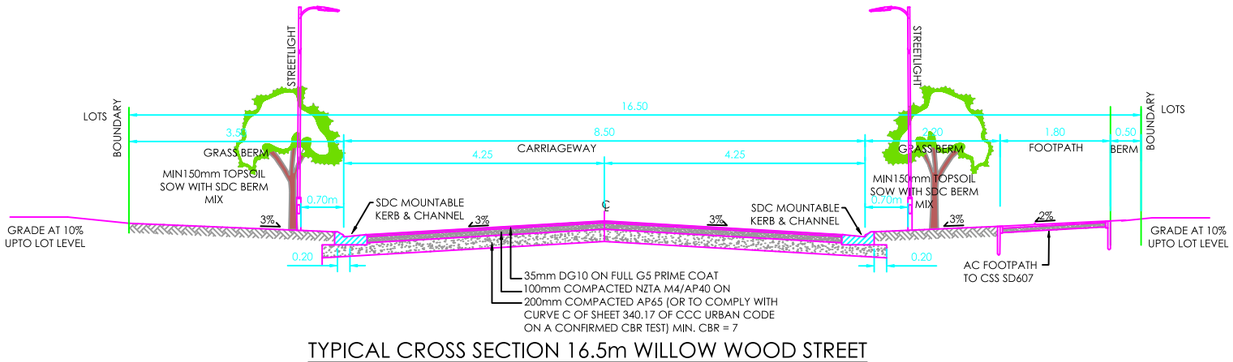
TYPICAL CROSS SECTION 20m SCOUT STREET

SCALES 1:50@A1
1:100@A3



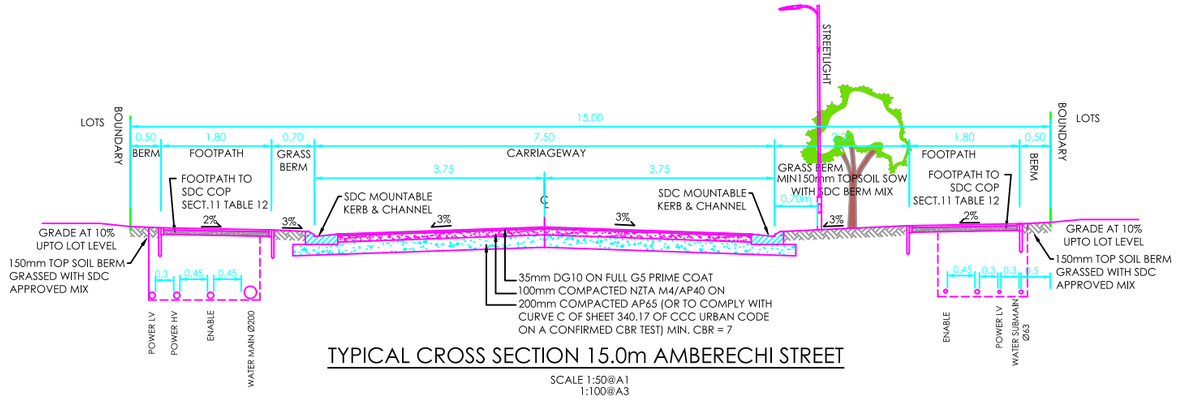
TYPICAL CROSS SECTION 17.0m KENNEBROOK ROAD

SCALE 1:50@A1
1:100@A3



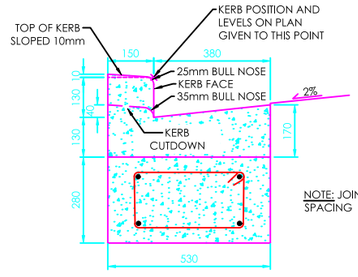
TYPICAL CROSS SECTION 16.5m WILLOW WOOD STREET

SCALE 1:50@A1
1:100@A3



TYPICAL CROSS SECTION 15.0m AMBERECHI STREET

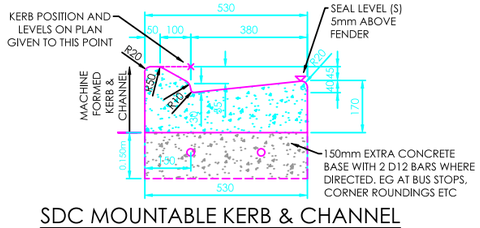
SCALE 1:50@A1
1:100@A3



NOTE: JOINT CUTS @ 5m SPACING

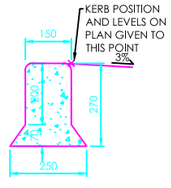
STANDARD KERB & FLAT CHANNEL TO CCC CSS SD601 AND REINFORCED BEAM TO SD611

SCALE 1:10@A1
1:20@A3



SDC MOUNTABLE KERB & CHANNEL

SCALE 1:10@A1
1:20@A3



KERB ONLY TO CCC SD602

VARIES AS SPECIFIED ON DESIGN PLANS

SCALES 1:10@A1
1:20@A3

AMENDMENTS :

AMENDMENT	DATE	DESCRIPTION

NOTES :

1. ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11 STANDARDS, IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7.
2. ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
3. CARRIAGEWAY AND FOOTPATH ACCEPTANCE TESTING IN ACCORDANCE WITH SDC CSS PART 6 AND CCC IDS.
4. ORIGIN OF LEVELS
   LEVELS ARE IN TERMS OF LYTTELTON VERTICAL DATUM 1937

   ORIGIN MARK B882 (UG 32)
   RL 55.908m
   CHK EJ8W (CC 370 NO 2)
   RL 58.154m
5. FOOTPATH BASECOURSE TESTING - MINIMUM CLEGG HAMMER VALUE OF 25 REQUIRED FOR FOOTPATHS.
6. - MINIMUM CLEGG HAMMER VALUE OF 35 REQUIRED FOR CROSSINGS.
7. KERB & CHANNEL BASECOURSE TESTING - MINIMUM DRY DENSITY OF 2100kg/m³ WITH 75% EQUAL OR EXCEEDING 2150kg/m³.
8. CUTDOWNS AT RESIDENTIAL PARKING AREAS TO HAVE 280mm OF CONCRETE AS PER SD611 AND CUT DOWN IN COMMERCIAL PARKING AREAS TO HAVE 280mm OF CONCRETE WITH REINFORCEMENT AS PER SD611.
9. ALL BERMS TO BE COVERED WITH A MINIMUM OF 150mm GRADE 1 TOPSOIL AND GRASSED WITH SDC BERM MIX.
10. ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.
11. ALL ROAD AND FOOTPATH AREAS TO BE SURFACED USING ASPHALTIC CONCRETE. FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH SDC REQUIREMENTS WITH 25mm DEPTH AC, WHILE ROAD PAVEMENTS TO BE 35mm DEPTH.
12. METAL DEPTHS TO BE CONFIRMED OR INCREASED PRIOR TO COMMENCEMENT OF WORK FOLLOWING THE CHECKING OF SUBGRADE CBR ON SITE.
13. KERBS AT INTERSECTIONS HAVE A RADIUS OF 6.0m UNLESS SHOWN OTHERWISE.
14. ALL PAVEMENT CROSSFALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SD623.
15. TACTILE PAVERS ARE TO BE INSTALLED AS PER SD623 AND RTS14 GUIDLINES FOR FACILITIES FOR THE BLIND AND VISION -IMPAIRED PEDESTRIANS.
16. ROAD BASECOURSE TESTING - MAXIMUM BENKELMAN BEAM DEFLECTION OF 2.00mm WITH 95% BELOW 1.6mm FOR ROADS AND A MAXIMUM DEFLECTION OF 2.5mm WITH 95% BELOW 2.00mm FOR ROWS.
17. ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.

	NAME	SIGNED	DATE
DESIGNED BY	JALAY SHAH	JALAY SHAH	
CHECKED BY	BEN FOX	BEN FOX	

116 Wrights Road P O Box 6818 Christchurch 8442 New Zealand
Telephone 379-0758 Website www.dls.co.nz E-mail office@dls.co.nz

JOB TITLE:

Broadfield Grange
Stages 15, 16 & 17

SHEET TITLE:

Roading Sections
RC245458

DRAWING STATUS

For Engineering Approval

SCALE: As Shown DATE: February 2026

CAD Operator: Sammy Li

DRAWN: JS

DRAWING No: E 21492

SHEET No: E03.1

REVISION: RD

ACCEPTED
orion

Designer:	**O. Stuitje**	**Date:**	**24/06/2026**
Design number:	**107942**	**Job name:**	**Broadfield Grange**
Approx. start date:		**Developer:**	
Orions Contract	**N/A**	**Design/Build:**	
Orion Contact		**Design Only:**	

These quantity estimations are based on the CAD file and are for pricing purposes only. Actual quantities may vary on site.

Stock number	Description	Quantity (m)	Special requirements
1003401	6mm Cu 2ph NS LV	**0**	
1003402	16mm Cu 1ph NS LV	**405**	
1003403	16mm Cu 2ph NS LV	**0**	
1003404	16mm Cu 3ph NS LV	**0**	
1003405	25mm Cu 1ph NS LV	**165**	
1003406	25mm Cu 3ph NS LV	**0**	
1001995	35mm Cu 1ph NS LV	**395**	
1003407	35mm Cu 3ph NS LV	**0**	
1008940	70mm Al 1C NS LV	**265**	
1002009	95mm Al 1C NS LV	**90**	
1003397	120mm Ali 3ph NS +10mm LV	**0**	
1003398	185mm Ali 3ph NS +10mm LV	**2225**	
1003399	300mm Ali 3ph NS +10mm LV	**0**	
1003400	400mm 1c Cu XLPE	**0**	
1003383	25mm 1c XLPE 11KV	**0**	
1003384	35mm Ali 3ph XLPE 11KV	**0**	
1003386	95mm Ali 3ph XLPE 11KV	**175**	
1003387	185mm Ali 3ph XLPE 11KV	**487**	
1003390	300mm Ali 3ph XLPE 11KV	**0**	
1009939	400mm Cu 3ph XLPE 11KV	**0**	
1003389	185mm 1c Cu 11KV	**0**	
1006345	95mm 1c AL XLPE 11KV	**0**	
1003394	300Al 1c 33kV	**0**	
1003423	25pr 0.9mm PAC PE SWA	**0**	
1003422	7pr 0.9mm PAC PE SWA	**0**	
1007115	Distribution Box S - 6 way	**0**	
1007156	Distribution Box T - 6 way	**0**	
1012372	DB-U (replaces DB-S & DB-T)	**34**	
1012376	DB-V (replaces DB-T1)	**1**	
1001152	Multi Box DC	**6**	
1000128	Full kiosk	**2**	
1000129	Half kiosk	**0**	
1000130	Quarter kiosk	**0**	

Build Quotation for electrical reticulation at:
BROADFIELD GRANGE
Urban Estates 22 Limited
c/o Ben Fox (Davie Lovell-Smith)
email: Ben.Fox@dls.co.nz

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR: _____

Refer to Orion accepted Connetics design dwg 107942, Work instruction sheets, schematics and working drawings.

Quotation required by: _____

Schedule of prices:

1) **11kV CABLES & JOINTING**
   Supply and install 11kV cable, jointing and terminations
   HV programs, Cable tests, certification and livening _____

2) **LV RETICULATION, CABLES & JOINTING**
   Supply and install cables, distribution cabinets and boundary boxes
   cable terminations and jointing (include all S/L cables)
   Test and LVA _____

3) **STREET LIGHTS**
   Refer to Windsor Urban street light design dwg 400459..
   Install 19 street lights, including livening and associated documentation _____

4) **SUBSTATIONS**
   Install 2 full kiosks and Earthing. _____

5) **CUSTOMER SERVICE CABLES**
   Lay in customer service cable as per cable plan & LV Schematics _____

TOTAL (EXCLUDES GST) _____

NOTES:
Allow for as built cable recording, to be sent directly to Orion.
All trenching and restoration provided by the Developer except where identified.
Customer service cable to be supplied and laid to kiosk by others

DOCUMENT TRANSMITTAL NOTICE

connetics
ALL WAYS CONNECTING
DESIGN + ENGINEERING

Project Broadfield Grange Sub-Division - Phase 2 - Stage 15-16-17

Project No 4017097

Discipline Lighting Design

Page 1 of 1

	Date of Issue											
Year	26	26	26									
Month	4	4	4									
Day	1	14	16									

Doc. No.	Document Title	Rev	Issue									
400459	Broadfield Grange Sub-Division - Stage 15-16-17 - Sheet 1	B	A	B	B							
400459	Broadfield Grange Sub-Division - Stage 15-16-17 - Sheet 2	B	A	B	B							
	Pole Offset drawing	A		A								
400459	Autocad DWG Format	B	A		B							
	Producer Statement	A		A								
	Design Report	A		A								
	Street Lighting Specification	A		A	A							
	15 .0m Road - Amberech Road - Single Sided	A		A								
	16.5m Road - Willow Wood Street - Single Sided	A		A								
	16.5m Road - Willow Wood Street - Staggered	A		A								
	17.0m Road - Kennebrook Road - Single Sided	A		A								
	17.0m Road - Kennebrook Road - Staggered	A		A								
	20.0m Road - Scout Street - Single Sided	A		A								
	20.0m Road - Scout Street - Staggered	A		A								
	20.0m Road - Scout Street - 33.8W - Single Sided	A		A								
	25.0m Road - Scout Street - 7.1m Offset - Staggered	A		A								
	25.0m Road - Scout Street - 7.5m Offset - Staggered	A		A								
	AGI Compliance PLot	A		A								
	Windsor Urban Drawing - Pole L1-L2-L3	A		A								
	Windsor Urban - Pole Producer Statement	A		A								
	Pole Structural Compliance Certificate - Windsor Urban	A		A								
	Lighting Completion Form (Windsor Urban)											
	Lighting Completion Form (Installer)											
224	Orion Test Certificate											
	Certificate of Compliance											
	As-Built Drawings											

DELIVERY - Company Name	Attention	COPIES										
Davie Lovell-Smith Ltd	Ben Fox	#	#	#								
Windsor Urban Ltd.	Marcus Brandrick	#	#	#								
Selwyn District Council (Representative)	Brendan Hayman		#									
Connetics Ltd.	RAMM Data Entry											
Reason For Issue		P	A	C								

***P** - Preliminary / **A** - Approval / **T** - Tender / **C** - Construction / **X** - 224 / **RQ** -Requested*

ACCEPTED
by Sammy Li on: 21 10 2026, 10:55 am
Connetics Ltd
Orion

Document Type Symbol

PDF	#
A4 Copy	*
A3 Copy	**
A1 Copy	***

Connetics Ltd
11 Islington Avenue
Islington
Christchurch 8042
P: (03) 353 7200
F: (03) 353 7201
E: www.connetics.co.nz

LIGHTING SCHEDULE

L1 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: AEC Techlight ITRON Micro 5P5 STA 7040.040-2M (2 Module LED) 16W luminaire, Color: Black
Column: 7.5m MH Standard Decorative Stepped C Column complete with Tuhinga base and mid casting and **Single** 1.0m 90° outreach + arm, Color: Black.
Connection: Connect to U/G SLN.

L2 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: AEC Techlight ITRON Micro 5P5 STA 7040.060-2M (2 Module LED) 23W luminaire, Color: Black
Column: 7.5m MH Standard Decorative Stepped C Column complete with Tuhinga base and mid casting and **Single** 1.0m 90° outreach + arm, Color: Black.
Connection: Connect to U/G SLN.

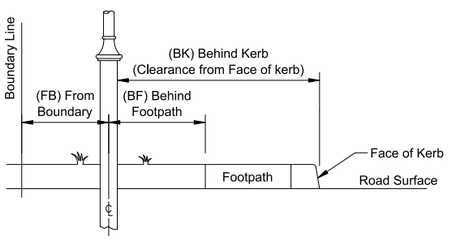
L3 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: AEC Techlight ITRON Micro 5P5 STA 7040.090-2M (2 Module LED) 33.8W luminaire, Color: Black
Column: 7.5m MH Standard Decorative Stepped C Column complete with Tuhinga base and mid casting and **Single** 1.0m 90° outreach + arm, Color: Black.
Connection: Connect to U/G SLN.

MAXIMUM DESIGN SPACING

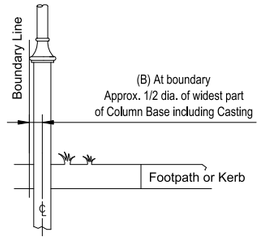
Street Name	Width	Arrangement Type*	Max Spacing
Amberech Street	15.0m	Single Sided	55.5m
Willow Wood Street - 3.8m Offset	16.5m	Single Sided	61.5m
Willow Wood Street - 3.8m Offset	16.5m	Staggered	61.7m
Willow Wood Street - 4.8m Offset	16.5m	Single Sided	60.2m
Willow Wood Street - 4.8m Offset	16.5m	Staggered	61.5m
Kennebrook Road	17.0m	Single Sided	60.7m
Kennebrook Road	17.0m	Staggered	61.2m
Scout Street - 4.5m Offset	20.0m	Single Sided	56.0m
Scout Street - 4.5m Offset	20.0m	Staggered	58.2m
Scout Street - 5.2m Offset	20.0m	Single Sided	57.9m
Scout Street - 5.2m Offset	20.0m	Staggered	58.8m
Scout Street - 7.1m Offset - 33.8w	20.0m	Single Sided	37.2m
Scout Street - 7.1m Offset - 33.8w	25.0m	Staggered	37.2m
Scout Street - 7.5m Offset - 33.8w	25.0m	Staggered	45.6m

* = Arrangement type as per AS/NZS 1158.2:2020 Fig. 5.1

TYPICAL COLUMN POSITION:



Column to be installed from Boundary Line, Behind Footpath or from Face of Kerb



Column to be installed at Boundary Line

SYMBOLS:

E Existing column, outreach arm and luminaire to remain.

Lx New column, Single outreach arm and luminaire.

SYMBOLS LEGEND:

LX Lighting Schedule Reference
XXW Original Luminaire Wattage
P1 Column Identification
0.0m-XX Column offset
X° Luminaire Tilt from the horizontal (See Adjustment Table)

Offset Descriptions

B At Boundary
BK Behind Kerb

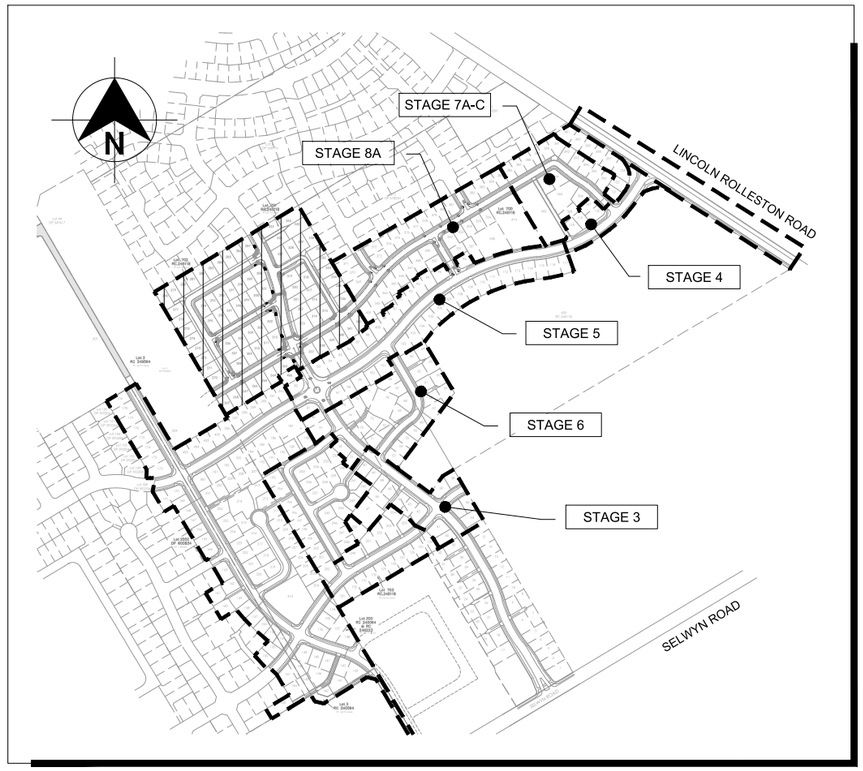
For Decorative Tubular and Octagonal Column

With Decorative Arms and 0° Spigot*

Value Shown on Plan	Adjustment on Luminaire
10°	10°
5°	5°
0°	0°
-5°	-5°

* As per CCC and SDC Standard Column Requirements

KEY PLAN



LUMINAIRE & COLUMN NOTES:

1. Luminaire to be fitted with mounting bracket to fit 42mm spigot.
2. Luminaire to be supplied with an integral TMS compatible dimmable DALI driver suitable for operating at the specified load and a prewired 7 pin NEMA Socket and complete with shorting cap.
3. Luminaire to have an IP rating of IP66 unless stated otherwise.
4. Luminaire colour temperature to be 4000K
5. Luminaire to have Identification label applied at time of installation.
6. The attached Luminaire Tilt Table is for reference only, it is the installer responsibility to verify during their QA after installation that the luminaire tilt reflect the requested tilt to the horizontal as shown on the design.

NOTES:

1. Road illumination is designed to comply with AS/NZS 1158; subcategory PR4, SDC "Code of Practice (ECOP) Part 12" and NZTA M30. Refer to lighting specification for lighting installation requirements.
2. Consult the designer for any lighting installation works that conflict on site, eg. recorded or unrecorded services.
3. On completion documentation, record GPS location of all new Lighting columns.
4. All redundant recovered streetlight poles and lanterns shall be removed to the store of the SDC Maintenance Contractor (Connetics Ltd, 11 Islington Avenue, Islington - Contact: Scott Millar).
5. New column location to be marked by the main contractor surveyor.
6. Existing Services Identified in this design are indicative only and it is the contractor responsibility to locate any existing services by contacting BeforeUdig at https://www.beforeudig.co.nz before the start of any underground work.

SPUNLITE NOTE:

The use of this **FREE** Lighting design, is authorised by Windsor Urban Ltd and Spunlite Poles Ltd, and is conditional upon the specified lighting items(columns and luminaires), being purchased directly from Windsor Urban Ltd and Spunlite Poles Ltd, or our nominated agents. All nominated installing agents are to contact Windsor Urban Ltd and Spunlite Poles Ltd, to obtain product prices related to this project.

Any use of alternative manufacturer's products, differing from those listed in this design, and installed by any contractor, will automatically forfeit the right to use this intellectual property (lighting design).

Windsor Urban Ltd and Spunlite Poles Ltd hold all copyrights to any of our designs and manufactured products in accordance with the Berne Convention.

The lighting designer reserves the right to request that any alternative products, sourced from a non-listed manufacturer, be removed and replaced with the specified products, prior to any audit being conducted.

ISSUED FOR CONSTRUCTION
Thursday, 16 April 2026 6:07:09 am

ACCEPTED
by: Sammy Li on: 21.10.2026, 10:55 am
Orion

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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Comments	01/04/26	RSD	RSD	·	·	·	·
B	Issued for SDC Final Approval	13/04/26	RSD	RSD	·	·	·	·
B	Issued for Construction	16/04/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	March 26
Drawn	R. St-Denis / Conn	March 26
Checked	J. Lim / Conn	April 26
Approved	B. Hayman for SDC	15/04/26
Connetics	-	-

Scale 1:1000
Revision B

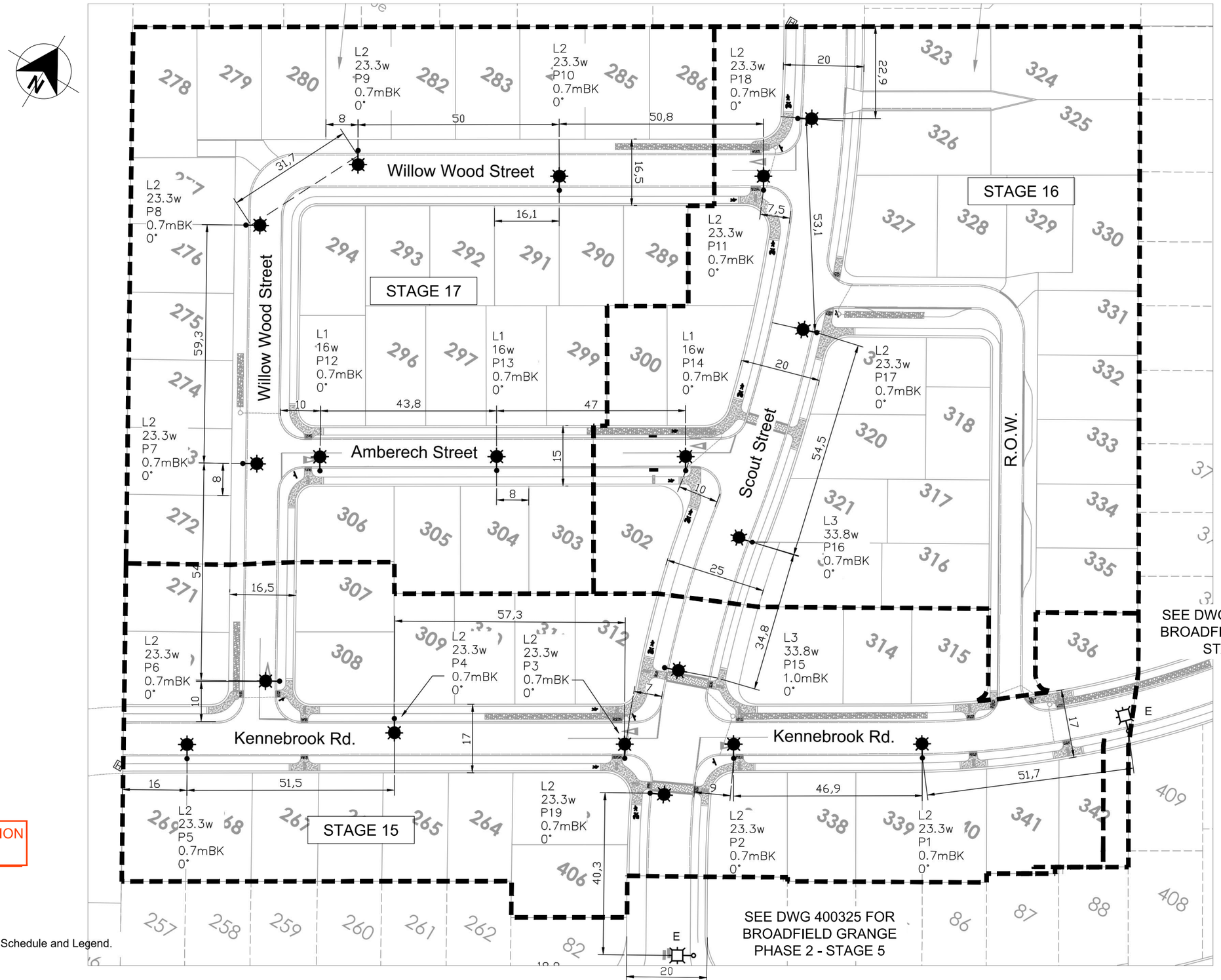
STREETLIGHTING LAYOUT

Broadfield Grange Sub-Division
Phase 2 - Stage 15-16-17
East Rolleston

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size A3 | Drawing Number 400459 | Sheet 2/2

1 : 1500
1 : 1000



ISSUED FOR CONSTRUCTION
Thursday, 16 April 2026 6:06:52 am

NOTES:

1. Refer to Sheet 1 for Luminaire Schedule and Legend.

WINDSOR URBAN LTD.
ALL RIGHTS RESERVED.
UNAUTHORISED USE PROHIBITED

Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Comments	01/04/26	RSD	RSD	·	·	·	·
B	Issued for SDC Final Approval	13/04/26	RSD	RSD	·	·	·	·
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ACCEPTED
by: Sammy Li
on: 21.10.2026, 10:54 am
Orion

Designed	R. St-Denis / Conn	March 26
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Checked	J. Lim / Conn	April 26
Approved	B. Hayman for SDC	15/04/26
Connetics	-	-

Scale 1:1000
Revision B

STREETLIGHTING LAYOUT

Broadfield Grange Sub-Division
Phase 2 - Stage 15-16-17
East Rolleston

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400459	2/2

1 : 1500
1 : 1000