

17 February 2021



positive energy

Sunshine Coast Regional Council
Attention: Karl Vonhoff
Via email: mail@sunshinecoast.qld.gov.au

cc Parker Property Ningi Pty Ltd
C/- Milanovic Neale Consulting Engineers
Attention: Jon Neale
Via email: mail@mnce.com.au

Dear Sir/Madam,

Development Application – Operational Works (Road work, Stormwater, Drainage work, Earthworks & Landscaping) located at 41 Glenbrook Dr, NAMBOUR, described as Lot 2 SP273404.

Applicant Ref: C3602

Council Ref: OPW20/0535

Our Ref: HBD 7173206

We refer to the above referenced Development Application which has been referred to Energex Limited in accordance with the *Planning Act 2016*.

In accordance with Schedule 10, Part 9, Division 2 of the *Planning Regulation 2017*, the application has been assessed against the purposes of the *Electricity Act 1994* and *Electrical Safety Act 2002*. The below response is provided in accordance with section 56(1) of the *Planning Act 2016*.

Should the Assessment Manager decide to approve the proposed Operational Works (Road work, Stormwater, Drainage work, Earthworks & Landscaping), as an Advice Agency for the Application, Energex requires that the assessment manager impose the following conditions:

1. Unless otherwise altered by the conditions below, this application is approved in accordance with the below referenced plans. Any alterations to these plans before the development application is decided are to be resubmitted to Energex for comment:

Approved Plans			
Title	Plan Number	Issue	Date
ENERGEX ACCESS LAYOUT PLAN	C3602 ET100	B	21.01.21
ENERGEX ACCESS LONGITUDINAL SECTION	C3602 ET101	B	21.01.21
ENERGEX ACCESS	C3602 ET102	B	21.01.21



Enquiries

Angela Collins

Telephone

0447 671 554

Email

townplanning@energex.com.au

Corporate Office

26 Reddacliff Street,
Newstead QLD 4006
GPO Box 1461
Brisbane Qld 4001
Telephone (07) 3664 4000
Facsimile (07) 3025 8301
www.energex.com.au

Energex Limited

ABN 40 078 849 055

Reference: HBD 7173206

CROSS SECTIONS			
STREETSCAPE PLANTING	ED 18233 OPW - 03	B	18.01.21
STREETSCAPE PLANTING	ED 18233 OPW - 04	B	18.01.21

2. All easement conditions must be maintained.
3. The required additional easement width must be registered over the 33kv and 11kv feeders along the western boundary of Lots 6-10 as per the easement shown on the *ENERGEX ACCESS LAYOUT PLAN, C3602 ET100, revision B, dated 21.01.21* and as per the correspondence from *Auspower Connect dated 20 January 2021*. The required additional easement width must be registered prior to, or at the time of sealing of the subdivision plan relevant to lots 6-10.
4. Satisfactory clearance from your proposed works to the existing (and/or future) electricity wires must be maintained in accordance with the *Electrical Safety Regulations 2013*.

All works should be in accordance with Energex Standard Guidelines WP1323 for general conditions when considering works either on an Energex easement or in the vicinity of Energex assets. These are available [online](#) for your reference.

Any further works should be in accordance with Energex Standard Guidelines MD-03/12 for general conditions when considering works either on an Energex easement or in the vicinity of Energex assets. These are attached for your reference.

Should you require any further information on the above matter, please contact Angela Collins on 0447 671 554 or email townplanning@energex.com.au.

Yours faithfully,



Angela Collins
Senior Planner

Reference: HBD 7173206

Have you seen our fact sheets?

See the 'considerations when developing around electricity infrastructure' section of our website www.energex.com.au/referralagency

Standard Guidelines MD-03/12

When considering Works, either on Energex easements or in the vicinity of Energex assets, please be aware of the following general conditions:

- Satisfactory clearance from your proposed structure to the existing (and/or future) electricity wires must be maintained in accordance with the Electrical Safety Regulations 2013.
- All previous conditions must be adhered to and Energex may, at its discretion, audit the finished development to check that it conforms to the conditions of the development.
- Detailed civil design drawings showing any proposed cut and fill levels on the easement and the location of the Energex assets in relation to the proposed development must be approved by Energex before any works can commence on site.
- No civil works are to occur within 5 metres of any part of an Energex Structure (e.g.- tower base, pole or stay) without Energex approval.
- If the minimum 5m horizontal separation to the Energex structure cannot be achieved, the Developer must consult Energex with regards to allowable construction methods. This may include full depth shoring of the excavation sides for a minimum of 5 metres either side of the structure.
- Any excavations deeper than 5m must have a minimum horizontal separation from the excavation to any tower, base or pole at least equal to the excavation depth. The excavation is not to be left open overnight and backfill is to be compacted in 150mm layers in the immediate vicinity of the structure.
- 10 metres clear access must be provided around all towers and pole structures after the completion of any works on the easement.
- Natural ground level on the easement should not be disturbed without Energex approval.
- Final ground levels should slope gently to the edge of the easement, surrounding area or kerb such that pooling of water on the easement is avoided and conductor ground clearances are not decreased.
- Stockpiling of spoil on the easement is prohibited.
- Lighting structures are not permitted in the easement without prior written consent of Energex. Lighting designs for proposed developments (e.g. road, carparks etc) on the easement are likely to require reduced height structures. Please submit detailed design to Energex for approval. These drawings must clearly show the following;
 - Proposed height of the lighting structures and the ground level at the structure base,
 - Relative (to lighting structures) ground levels at Energex structures (towers, pole etc) either side of the lighting structures, and
 - The location of the Energex structures in relation to the proposed lighting

Reference: HBD 7173206

Have you seen our fact sheets?

See the 'considerations when developing around electricity infrastructure' section of our website
www.energex.com.au/referralagency

- Proposed underground services such as stormwater, sewerage, water and the like are to be kept to the outer edge of the easement. Services crossing the easement should be as near as practicable to right angles to the overhead conductor direction and not within 10 metres of any tower, pole or stay. **Pipelines and crossings are to be clearly marked.** Please submit the relevant design drawings to the Energex for review.

NOTE: The identification, assessment and mitigation of any possible hazards in the service due to electromagnetically induced voltages, is the responsibility of the Developer.

- Any cut in the vicinity of a structure or between a structure and the road kerb will need to be stabilised by a retaining wall. The retaining wall design and location is to be submitted to Energex for approval.
- Any costs incurred by Energex as a result of the works on the easement are to be met by the property Developer / owner.
- Access to the easement and access along the easement must be available to Energex personnel and heavy equipment at all times. Energex will require the Developer / owner to supply and install gates where fencing prohibits access to and along the easement area. To enable travel along the easement at any time the gates must be series locked with an Energex padlock. Both the padlock and a design drawing of an acceptable gate will be provided by Energex.
- At all times the following clearance must be maintained from the top of any machinery moving in the vicinity of energised conductors:
 - 33kV and 11kV conductors – 3m minimum clearance

Should it be necessary to transport equipment or extend any equipment, such that these clearances cannot be confidently maintained, you are required to contact our office to ascertain whether a Safety Officer is required on-site. All operators of machinery are to be made aware of the presence of high voltage conductors.

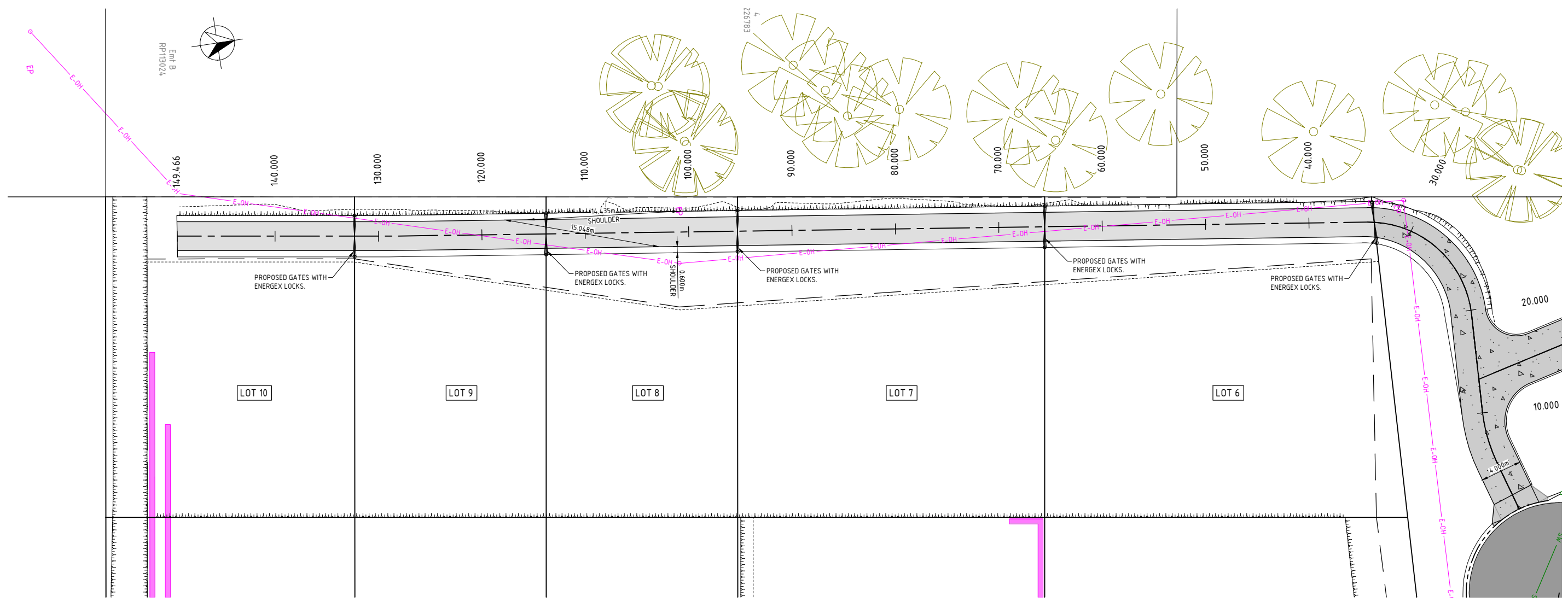
- Any proposal for landscaping on the easement must have prior approval from Energex. Please submit the relevant landscaping design to Energex for approval. When considering landscape designs the planting of trees must be kept to the edges of the easement and not under any overhead conductors. When mature, plants or trees must not grow in excess of 3.5meters in height. Please visit <https://www.energex.com.au/home/safety/safety-around-the-network/safetree-plants> for a full list of safetree plants.

Reference: HBD 7173206

Have you seen our fact sheets?

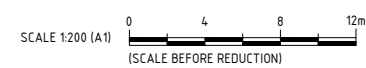
See the 'considerations when developing around electricity infrastructure' section of our website www.energex.com.au/referralagency

NOT FOR CONSTRUCTION



PLAN
SCALE 1:200

REFER DWG. C3602-CA300 & CA301 FOR GENERAL NOTES.



REAL PROPERTY DESCRIPTION
LOT 2 ON SP273404

DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A1)

REV.	DESCRIPTION	DATE	INIT.
A	RFI REPONSE	23.12.20	SG
B	REVISED ENERGEX EASEMENT	21.01.21	SM

MILANOVIC NEALE CONSULTING ENGINEERS
BRISBANE PH No. (07) 3255 1877 IPSWICH PH No. (07) 3281 6603 SYDNEY PH No. 1300 827 901 GOLD COAST PH No. 1300 827 901

CIVIL STRUCTURAL TRAFFIC PROJECT MANAGEMENT

CONTACT DETAILS
E mail@mnce.com.au W www.mnce.com.au
JAS-ANZ SGS

CLIENT
PARKER PROPERTY NINGI PTY LTD

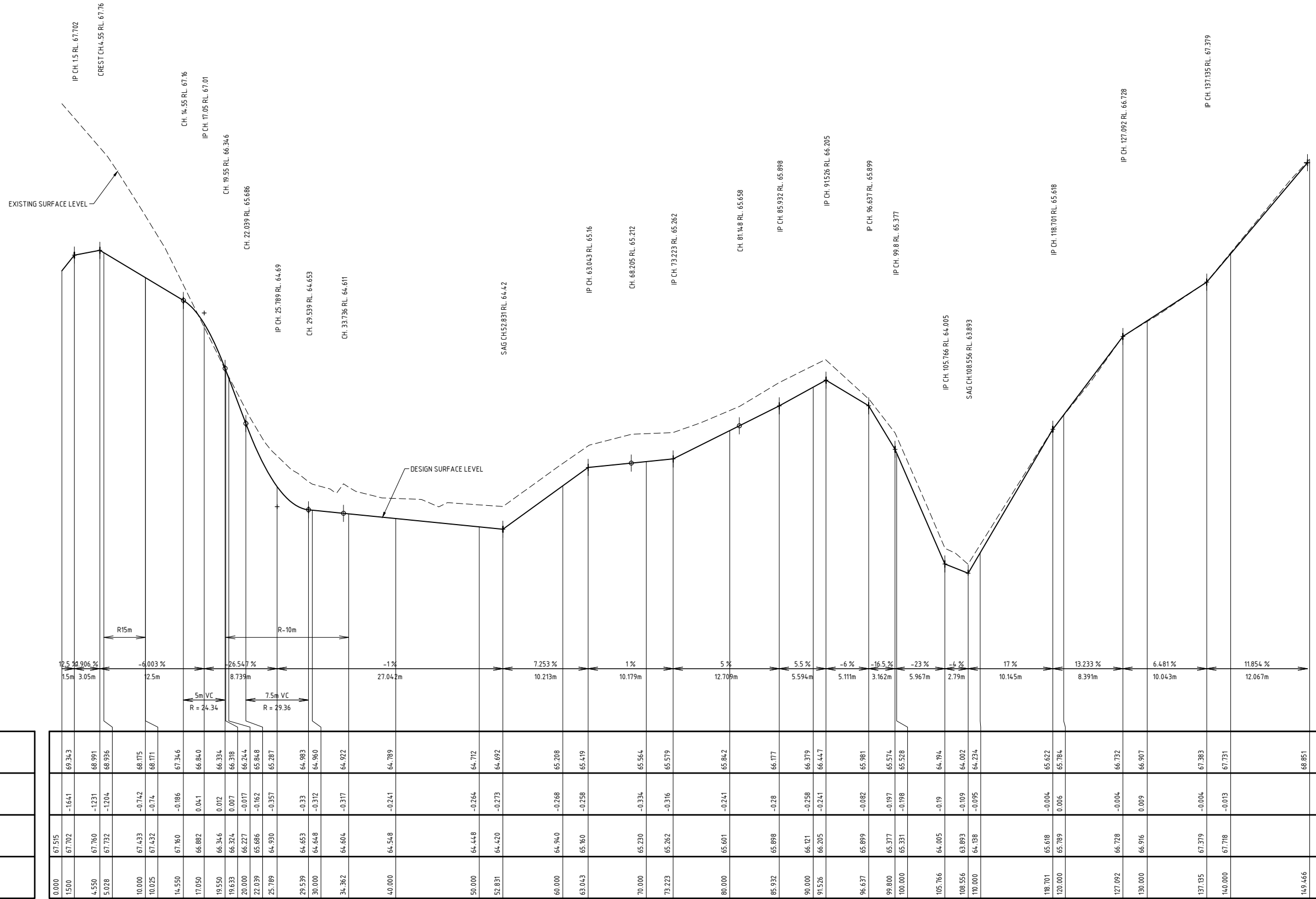
PROJECT
41 GLENBROOK DRIVE, NAMBOUR

TITLE
ENERGEX ACCESS LAYOUT PLAN

DRAWN CA	DESIGNED SM	DATE AUG 2020
CHECKED JN	APPROVED	
DRAWING No. C3602 - ET100		REV. B

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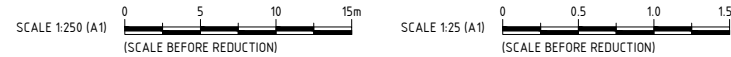
NOT FOR CONSTRUCTION



HORIZONTAL CURVE DATA
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GRADE LENGTH
 VERTICAL CURVE LENGTH (m)
 VERTICAL CURVE RADIUS (m)
 DATUM R.L. 62.000

CHAINAGE	NAT. SURFACE ON ROAD CENTRELINE	CUT / FILL DEPTHS	DESIGN LEVELS ON ROAD CENTRELINE
0.000	67.515		67.515
15.000	69.343	-1.641	67.702
4.550	67.160	-1.231	67.160
5.028	67.732	-1.204	67.732
10.000	67.433	-0.742	67.433
10.025	67.432	-0.74	67.432
14.550	67.160	-0.186	67.346
17.050	66.882	0.041	66.840
19.550	66.346	0.012	66.334
19.633	66.324	0.007	66.318
20.000	66.227	-0.017	66.244
22.039	65.686	-0.162	65.848
25.789	64.930	-0.357	65.287
29.539	64.653	-0.33	64.983
30.000	64.648	-0.312	64.960
34.362	64.604	-0.317	64.922
40.000	64.548	-0.241	64.789
50.000	64.448	-0.264	64.712
52.831	64.420	-0.273	64.692
60.000	64.940	-0.268	65.208
63.043	65.160	-0.258	65.419
70.000	65.230	-0.334	65.564
73.223	65.262	-0.316	65.579
80.000	65.601	-0.241	65.842
85.932	65.898	-0.28	66.177
90.000	66.121	-0.258	66.379
91.526	66.205	-0.241	66.447
96.637	65.899	-0.082	65.981
99.800	65.377	-0.197	65.574
100.000	65.331	-0.198	65.528
105.766	64.005	-0.19	64.194
108.556	63.893	-0.109	64.002
110.000	64.138	-0.095	64.234
118.701	65.618	-0.004	65.622
120.000	65.789	0.006	65.784
127.092	66.728	-0.004	66.732
130.000	66.916	0.009	66.907
137.135	67.379	-0.004	67.383
140.000	67.718	-0.013	67.731
149.466	68.851		68.851

ENERGEX ACCESS- LONGITUDINAL SECTION
 HORIZONTAL SCALE - 1:250
 VERTICAL SCALE - 1:25



REFER DWG. C3602-CA300 & CA301 FOR GENERAL NOTES.

REAL PROPERTY DESCRIPTION
 LOT 2 ON SP273404

REV.	DESCRIPTION	DATE	INIT.
A	RFI RESPONSE	23.12.20	SG
B	REVISED ENERGEX EASEMENT	21.01.21	SM

MILANOVIC NEALE CONSULTING ENGINEERS
 BRISBANE PH No. (07) 3255 1877
 IPSWICH PH No. (07) 3281 6603

CIVIL STRUCTURAL TRAFFIC PROJECT MANAGEMENT
 SYDNEY PH No. 1300 827 901
 GOLD COAST PH No. 1300 827 901

CONTACT DETAILS
 E mail@mnce.com.au
 W www.mnce.com.au
 JAS-ANZ
 SGS

CLIENT
PARKER PROPERTY NINGI PTY LTD

PROJECT
41 GLENBROOK DRIVE, NAMBOUR

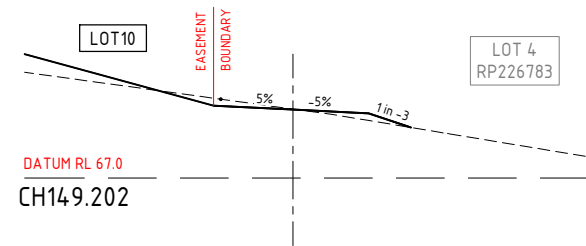
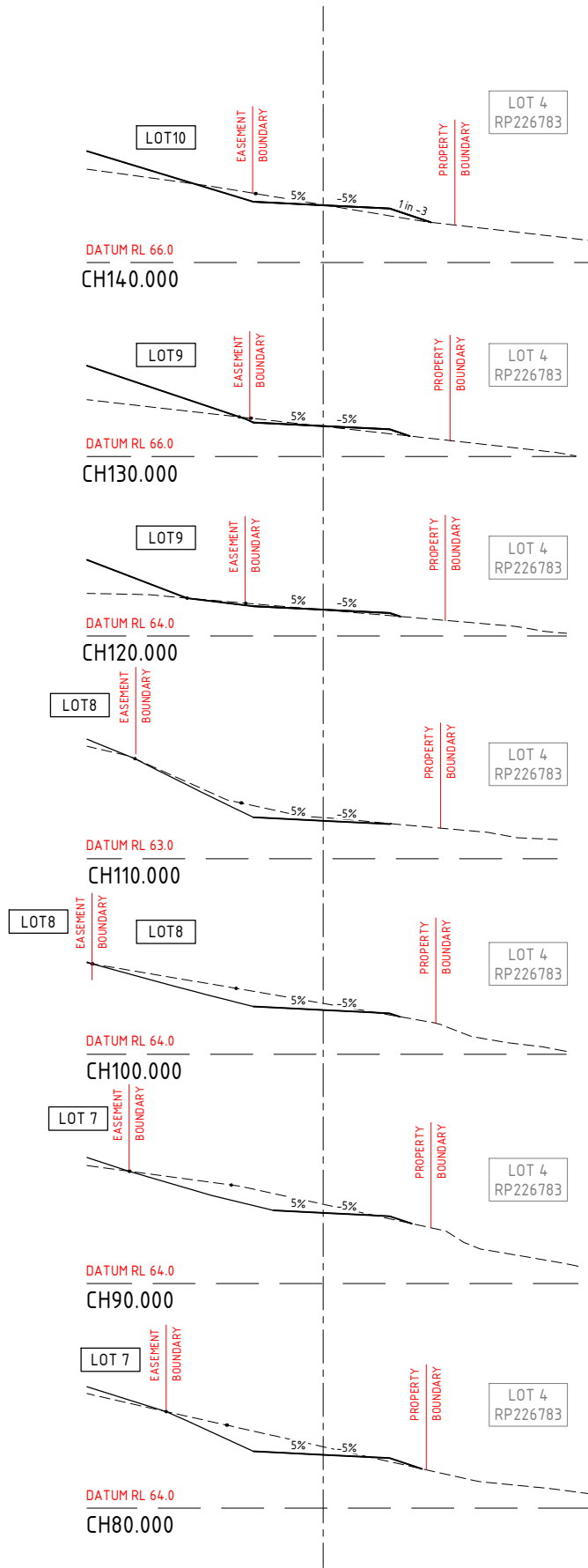
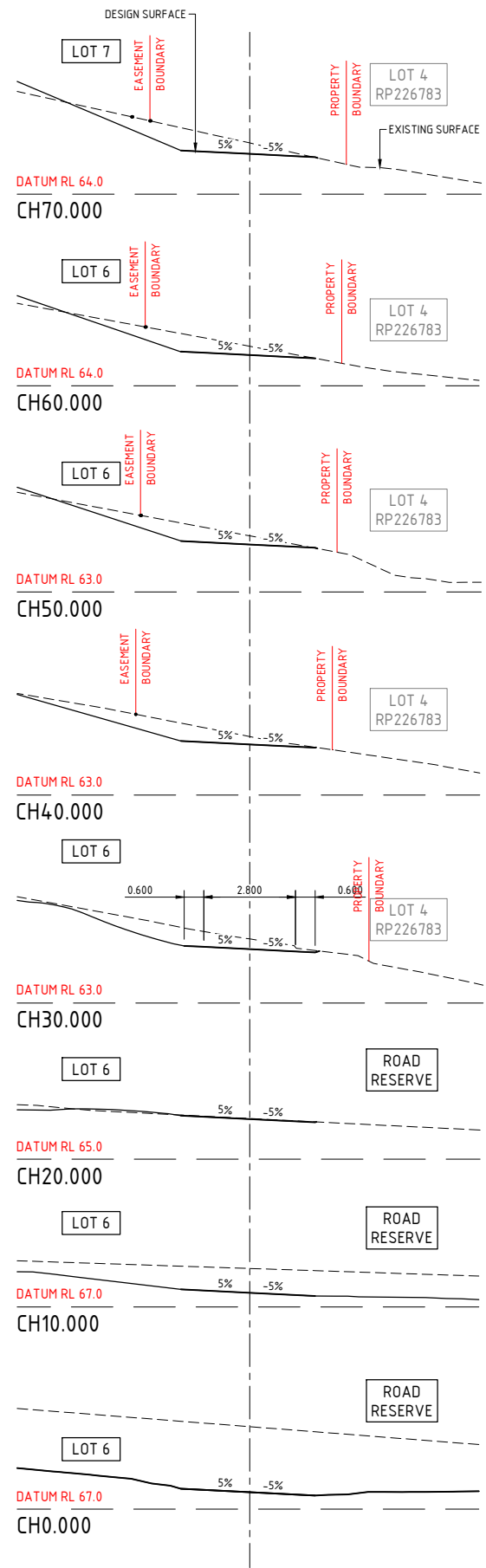
TITLE
ENERGEX ACCESS LONGITUDINAL SECTION

DRAWN CA	DESIGNED SG	DATE AUG 2020
CHECKED JN	APPROVED	
DRAWING No. C3602 - ET101		REV. B

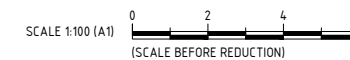
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ENERGEX ACCESS - CROSS SECTIONS
SCALE 1:100



REFER DWG. C3602-CA300 & CA301 FOR GENERAL NOTES.

REAL PROPERTY DESCRIPTION
LOT 2 ON SP2734.04

DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A1)

REV.	DESCRIPTION	DATE	INIT.
A	RFI RESPONSE	23.12.20	SG
B	REVISED ENERGEX EASEMENT	21.01.21	SM



BRISBANE PH No. (07) 3255 1877
IPSWICH PH No. (07) 3281 6603



SYDNEY PH No. 1300 827 901
GOLD COAST PH No. 1300 827 901

CONTACT DETAILS
E mail@mnce.com.au
W www.mnce.com.au



CLIENT

**PARKER PROPERTY
NINGI PTY LTD**

PROJECT

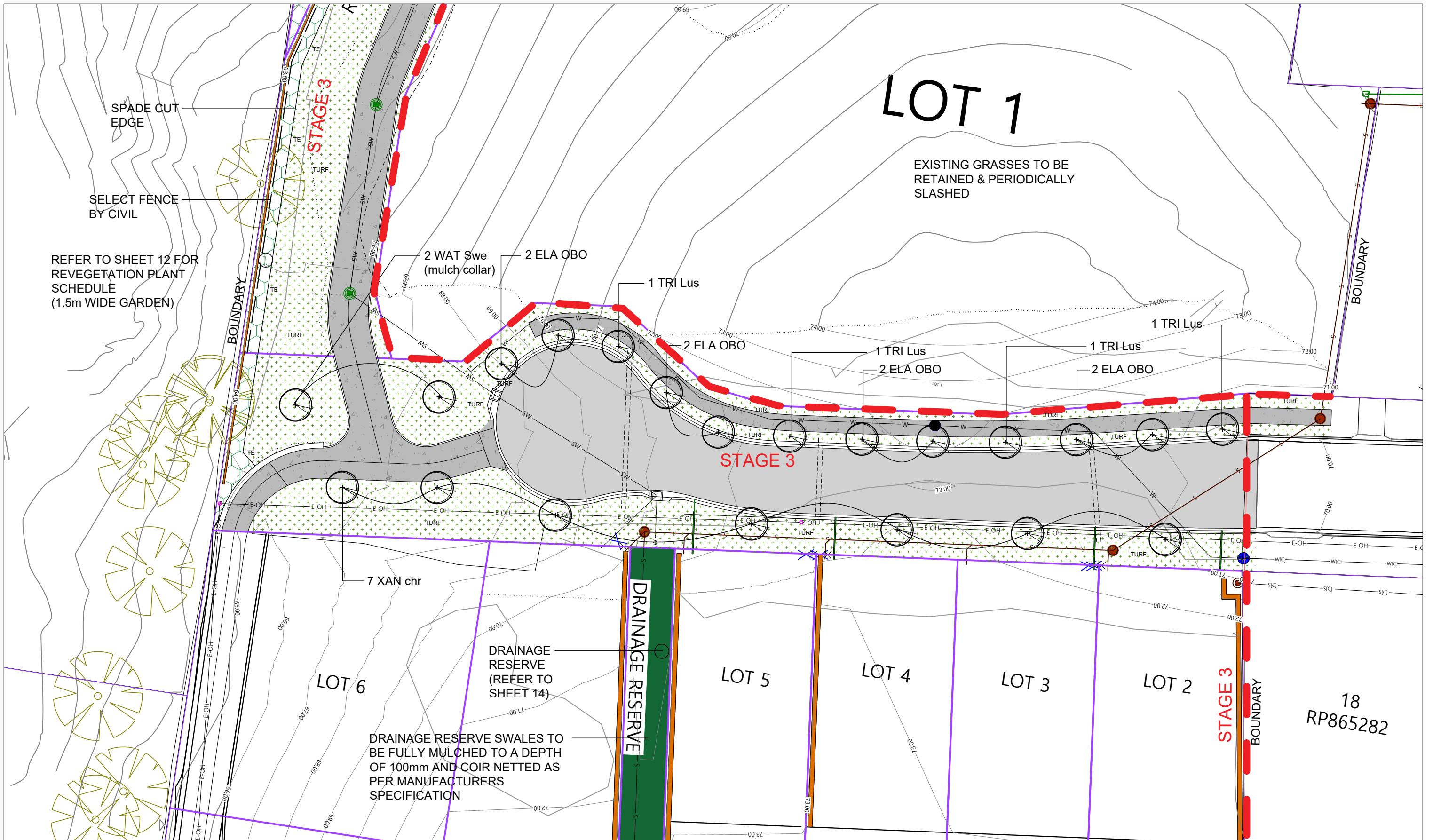
**41 GLENBROOK DRIVE,
NAMBOUR**

TITLE

**ENERGEX ACCESS CROSS
SECTIONS**

DRAWN	DESIGNED	DATE
CA	SM	AUG 2020
CHECKED	APPROVED	
JN		
DRAWING No.	REV.	
C3602 - ET102	B	

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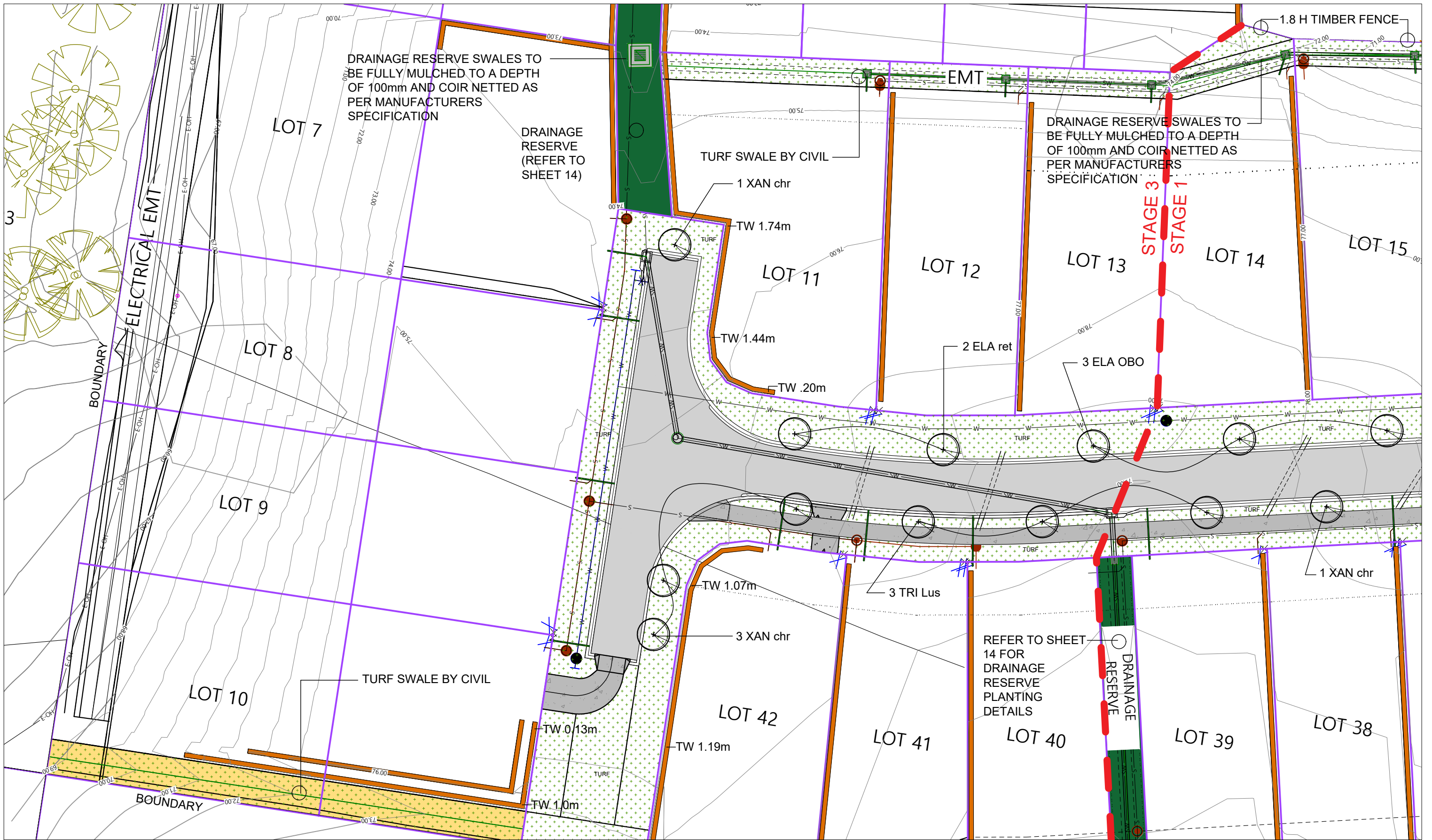


LANDSCAPE PLAN - OPERATIONAL WORKS - SHEET 03

scale in metres 1:400 @ A3
 0 1 5 10 20

COUNCIL APPROVAL

	AMENDMENTS <small>Issue date description</small> A 18.09.20 ISSUE FOR APPROVAL B 18.01.21 RELOCATED MAINTENANCE ACCESS PATH	LEGEND	TREE PLANTING	TIMBER EDGE <small>(See Detail)</small>	BELOW GROUND SEWER SERVICE	CONTOUR LINE		element design landscape architecture <small>MASTER PLANNING • SUBDIVISIONS • COMMERCIAL DEVELOPMENTS • RESORTS • PARKLANDS • REVEGETATION • MULTI-UNITS</small> 151 Brisbane Rd, Mooloolaba Phone 07 5444 6155 Fax 07 5444 6055 PO Box 1544, Bundaberg QLD 4556 admin@elementdesign.net.au	PROPOSED 63 LOT SUBDIVISION 41 GLENBROOK DRIVE NAMBOUR <small>CLIENT: PARKER PROPERTY NINGI PTY LTD</small>	
	TURF AREAS		GROUNDCOVER PLANTING	BELOW GROUND WATER SERVICE	BOUNDARY	RETAINING WALL TO ENGINEERS DETAIL				
<small>Copyright in the whole and every part of this document belongs to ELEMENT DESIGN QLD PTY LTD and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person without the prior written consent of ELEMENT DESIGN QLD PTY LTD.</small>										



LANDSCAPE PLAN - OPERATIONAL WORKS - SHEET 04



COUNCIL APPROVAL

	AMENDMENTS Issue date description A 18.09.20 ISSUE FOR APPROVAL B 18.01.21 RELOCATED MAINTENANCE ACCESS PATH	TREE PLANTING TURF AREAS SHRUB PLANTING	TIMBER EDGE (See Detail) GROUND COVER PLANTING GRAVEL MULCH	BELOW GROUND SEWER SERVICE BELOW GROUND WATER SERVICE BELOW GROUND STORMWATER SERVICE	CONTOUR LINE BOUNDARY RETAINING WALL TO ENGINEERS DETAIL	<p>element design landscape architecture MASTER PLANNING • SUBDIVISIONS • COMMERCIAL DEVELOPMENTS • RESORTS • PARKLANDS • REVEGETATION • MULTI-UNITS 151 Brisbane Rd, Mooloolaba Phone 07 5444 6155 Fax 07 5444 6055 PO Box 1546, Bundaberg QLD 4556 admin@elementdesign.net.au</p>	PROPOSED 63 LOT SUBDIVISION 41 GLENBROOK DRIVE NAMBOUR	 Date 14 SEP 2020 Scale 1:400 @ A3 Design JV JV Sheet 04 OF 15
	Copyright in the whole and every part of this document belongs to ELEMENT DESIGN QLD PTY LTD and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person without the prior written consent of ELEMENT DESIGN QLD PTY LTD.	LEGEND	PROJECT CLIENT PARKER PROPERTY NINGI PTY LTD DWG TITLE STREETScape PLANTING ED 18233 OPW - 04	Issue B				



20 January 2021

ENERGEX
GPO Box 1461
Brisbane Q 4001
C/- contestable@energyq.com.au

Dear Sir/Madam,

**ENERGEX OVERHEAD MAINS - EASEMENT A - LOT 2 SP273404
41 GLENBROOK DRIVE, NAMBOUR OUR REFERENCE NUMBER AC1115-E
Energex Reference HBD 7076510.**

We have conducted an inspection and identified the ground line and overhead line profile as shown on our plan AC1115-E.

Our investigation shows the easement must be adjusted to provide adequate horizontal clearance from the overhead 33kV and 11kV conductors and to allow suitable access for Energex vehicles, in accordance with Energex Work Category Specification 1.5.

The section of easement situated on the western boundary on the development is currently 6.0m in width. We proposed sections of the easement be extended to allow for a horizontal clearance of 3.0m, including conductor blowout, and to position existing Energex pole P145645 inside the easement. The northern section of the easement running east to west has an existing width of 12.0m. This section of the easement will be reduced with the extension of road reserve. However, we propose extending the easement south into the proposed property frontage of lots 2-6 for a maximum width of 2.5m at Energex pole X145643. The extension into private property accounts for a horizontal clearance of 3.0m (including conductor blowout).

The overhead line profile suggests at temperature conditions 110°C for 33kV and 75°C for 11kV, the overhead conductors remain above the minimum vertical clearance requirements of 5.5m for private driveways and elevated vehicle access. The existing ground line adjacent to the Energex poles is to be levelled to a maximum slope of 7° to allow vehicles to conduct work on poles. Proposed finish levels from Civil Works plan C3602-ET102 suggest that the ground line surrounding the poles on the Western boundary of the development will not exceed 7°.

Work areas are to be provided at each pole, running parallel with the fence line. The work areas are to be 2.5m in width and 20.0m in length. These areas will allow for Energex work vehicles and 5m of additional clearance for the associated crane slew.

If you require any further information, please contact the undersigned.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Shai Whittaker', written over a light blue horizontal line.

Shai Whittaker
Graduate Electrical Engineer

Enquiries

John McKenna

Telephone

0419 707 166

Email

auspowerconnect
@bigpond.com

Office

23 Beltana Crescent
Buddina QLD 4575

Postal

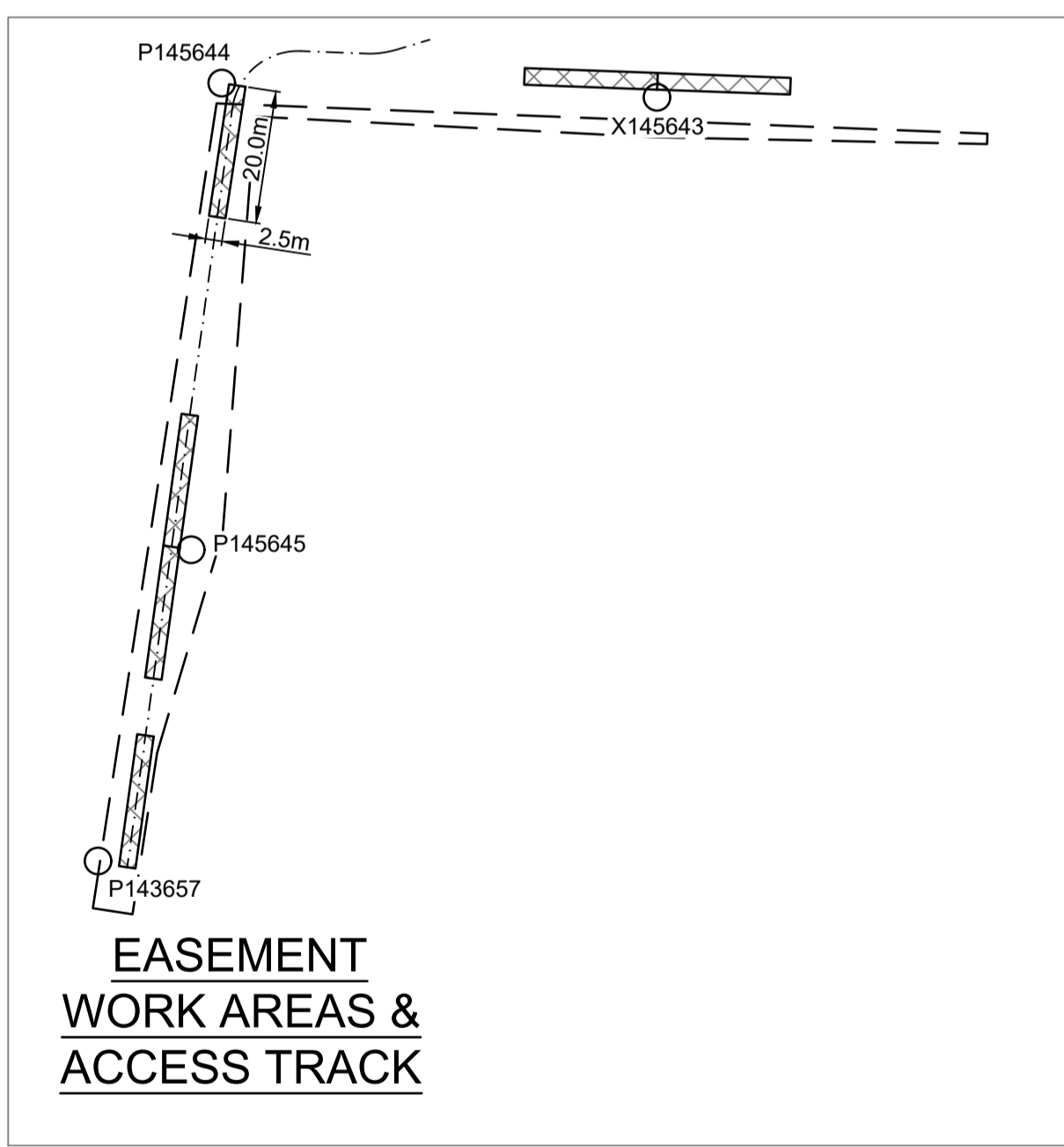
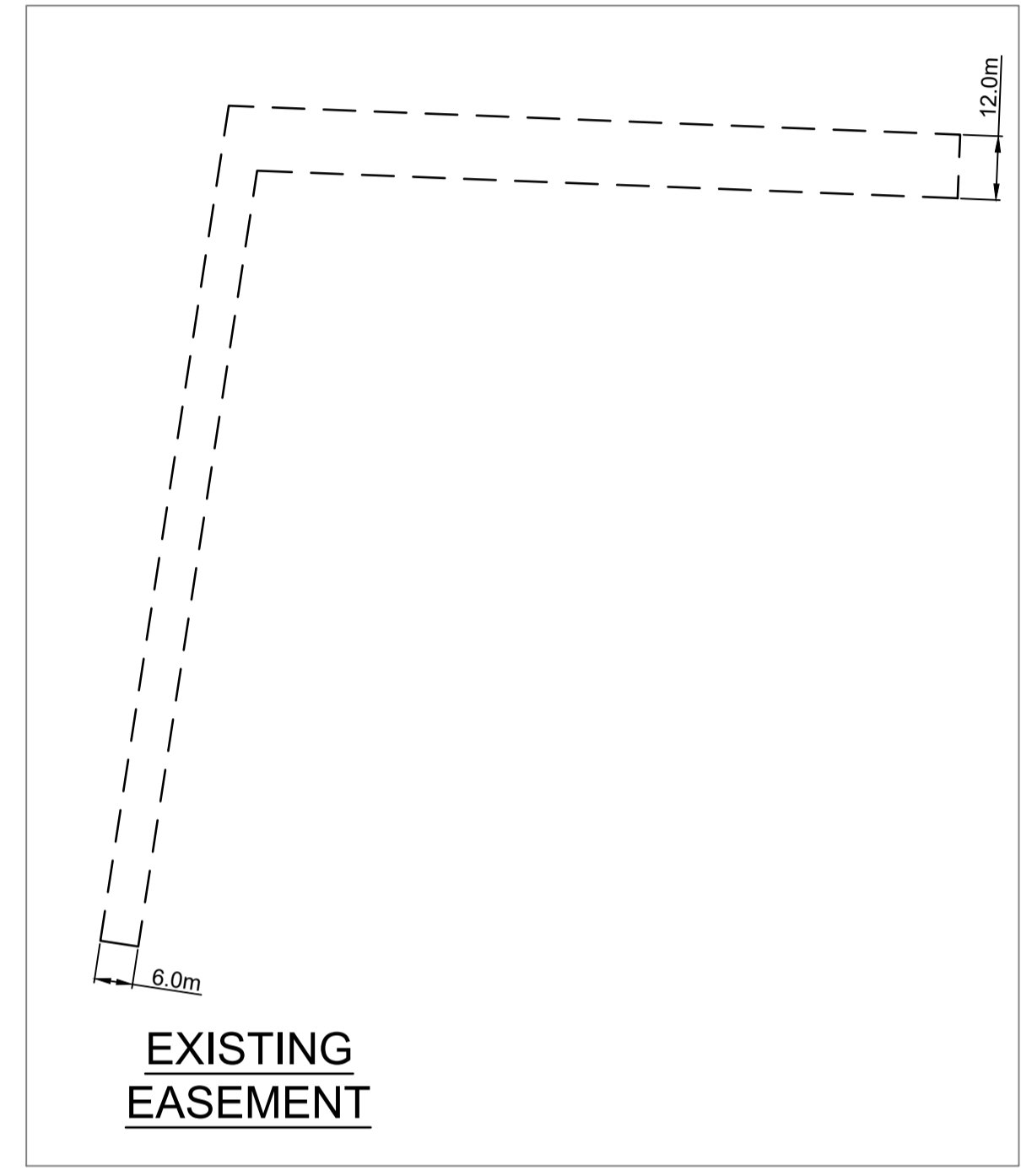
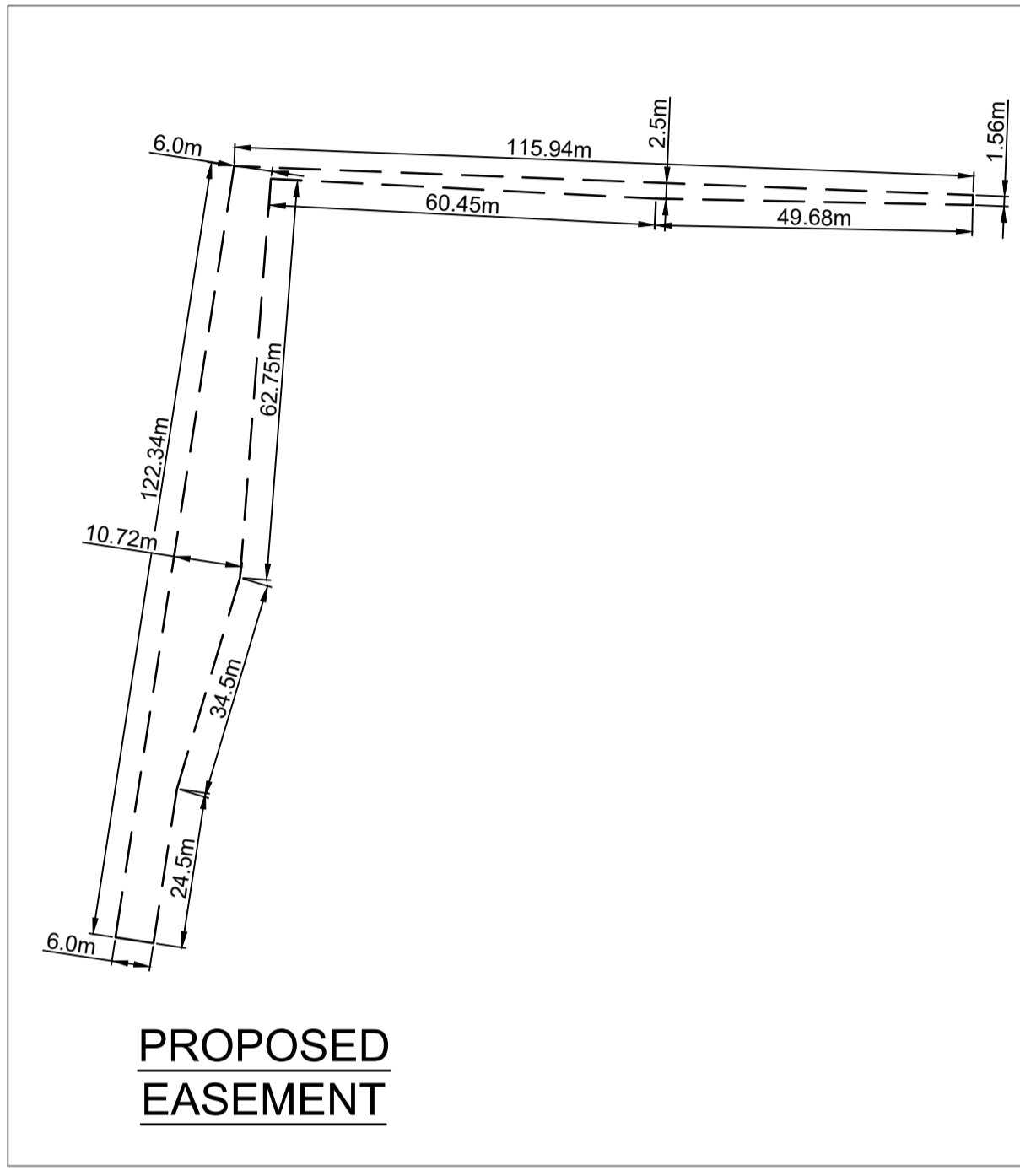
PO Box 531
Buddina QLD 4575
auspowerconnect.com.au

Auspower

Connect Pty Ltd
ABN 74 166 366 883

Reference AC1115-E

LEGEND	
SYMBOL	DESCRIPTION
①	STATION NUMBER
—	EXISTING OH CONDUCTOR
—	PROPOSED OH CONDUCTOR
○	HV POLE
⊗	POLE TRANSFORMER
⊗	HV AIR BREAK OPEN
⊗	HV AIR BREAK CLOSED
⊗	LV DISC LINK OPEN
⊗	LV DISC LINK CLOSED
⊗	HV POLE TERMINATION
⊗	LV POLE TERMINATION
—	ACCESS TRACK
- - - -	EXISTING EASEMENT
- - - -	PROPOSED EASEMENT
■	EXISTING SUPPLY PILLAR
■	PROPOSED SUPPLY PILLAR
■	LINK PILLAR
⊗	PADMOUNTED TRANSFORMER
⊗	EXISTING CABLE IN CONDUIT
⊗	PROPOSED CABLE IN CONDUIT
⊗	MEN (EARTH GROUND STAKE)
⊗	ELECTRICAL CABLE MARKER
⊗	CUSTOMER SWITCHBOARD
⊗	PIT
⊗	S70 STREET LIGHT
⊗	CFL 32 STREET LIGHT
⊗	LV SWITCH FUSE UNIT
⊗	TREE
▨	ENERGEX EXCLUSION ZONE
▨	ENERGEX WORK AREA



- GENERAL NOTES**
- ALL WORK AREAS SURROUNDING POLES ARE POSITIONED PARALLEL TO FENCE AND SHARE DIMENSIONS 20.0m X 2.5m.
 - WORKING PLATFORMS TO ALLOW FOR THE FOLLOWING:
 - 12-15m HEAVY RIGID BOGEY WHEEL DRIVE VEHICLE.
 - ADDITIONAL 5m CLEARANCE FOR CRANE SLEW.
 - HYDRAULIC LANDING LEGS (EXTENDABLE).
 - LEVEL GROUND MUST NOT EXCEED 7°.
 - 5.5m VERTICAL CLEARANCE TO OVERHEAD CONDUCTORS IS ACHIEVED AT EXISTING GROUND LINE (110°C 33kV, 75°C 11kV).
 - 3.0m HORIZONTAL EXCLUSION ZONE INCLUDES BLOW OUT ('WIND' LOAD CONDITION 15°C).
 - VEHICLE ACCESS TRACK TO COMPLY WITH ENERGEX WORK CATEGORY SPECIFICATION WCS1.5.

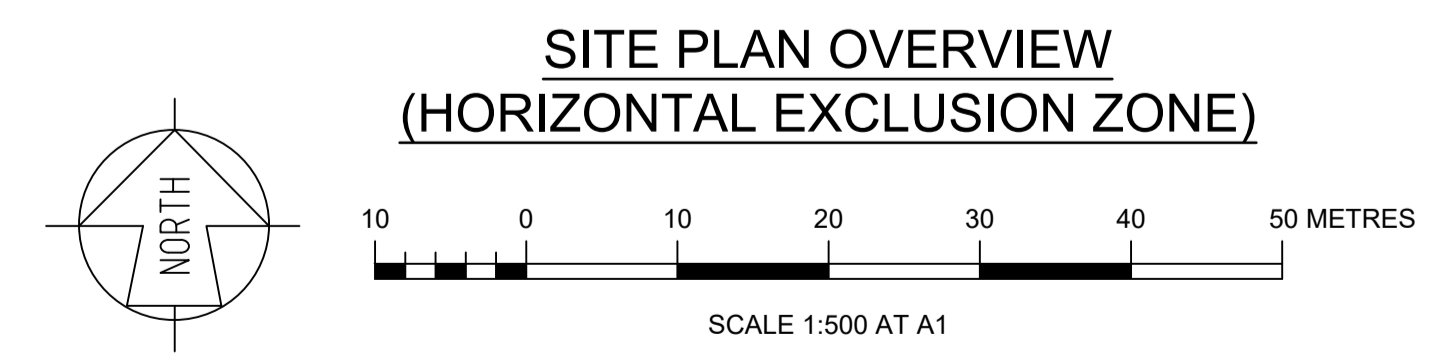
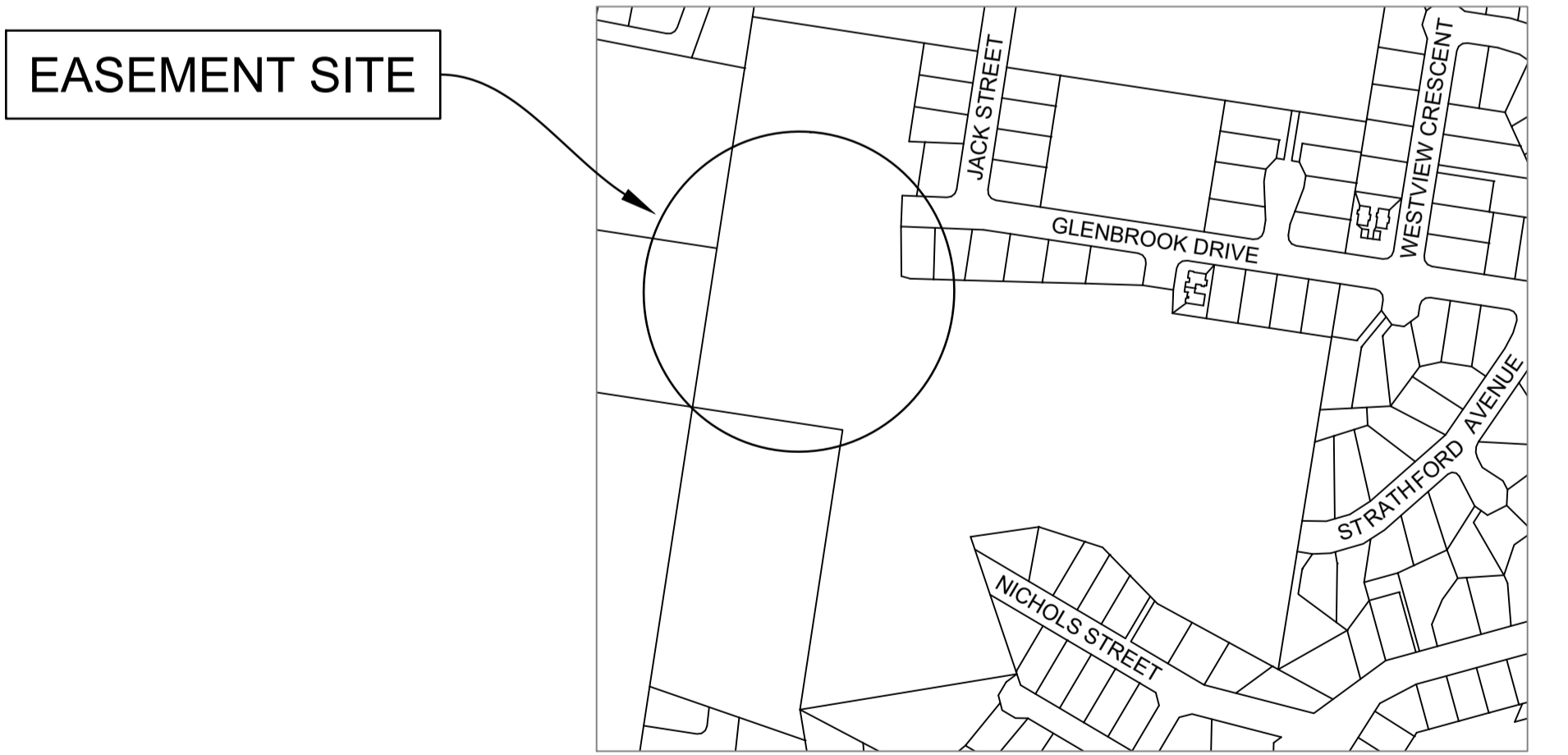
STANDARDS AND SPECIFICATIONS

THIS WORKS PLAN IS TO BE READ IN CONJUNCTION AND COMPLY WITH THE FOLLOWING ENERGEX MANUALS AND SPECIFICATIONS:

- OVERHEAD DESIGN MANUAL

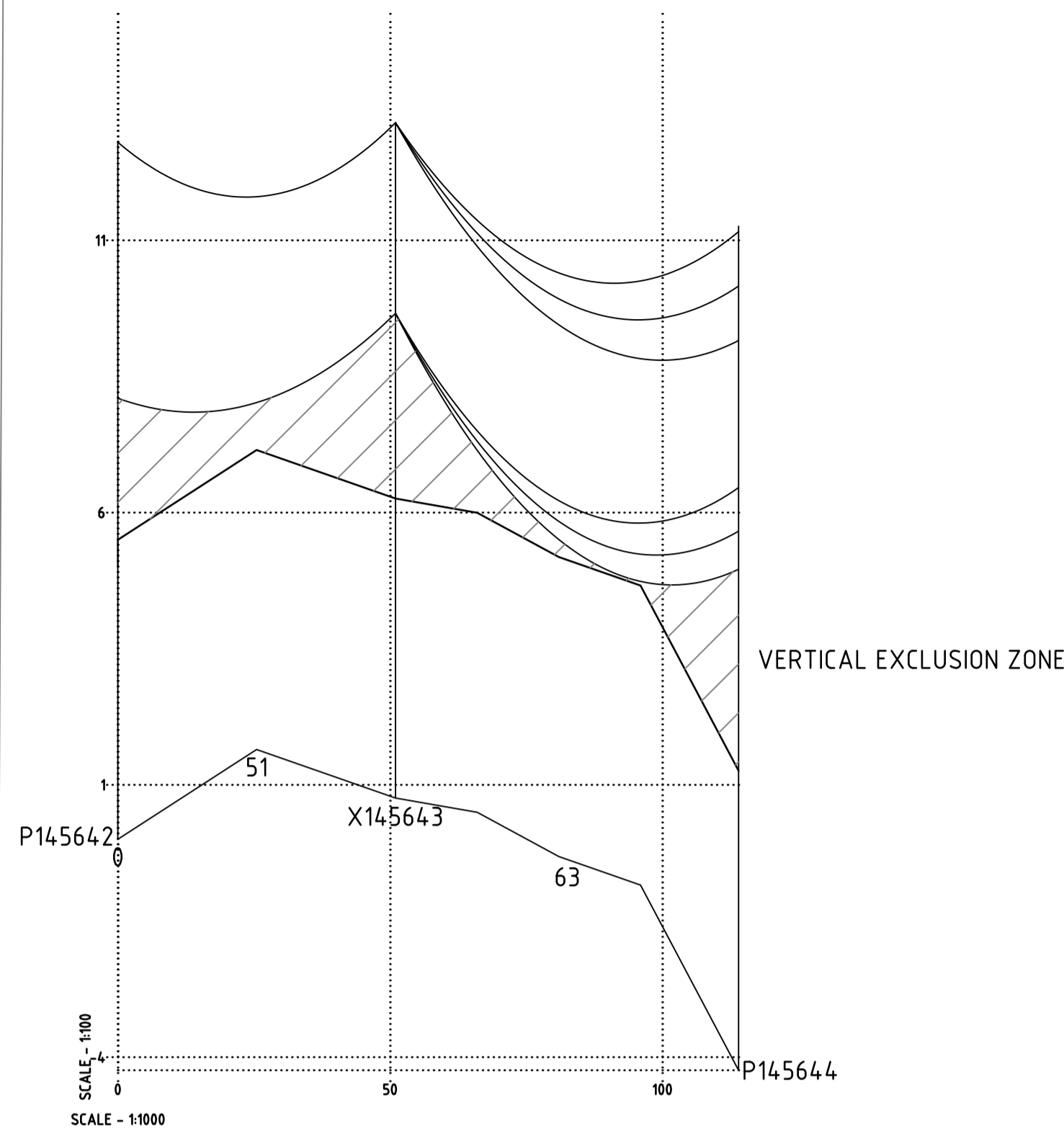
SURVEY DETAILS

PRINCIPAL'S SURVEYOR TO PEG ALL EASEMENT BOUNDARIES.



ISSUE	DESCRIPTION	DATE	DEVELOPER DETAILS			ALIGNMENTS	WORKS COORDINATOR	APPROVED:	ENERGEX EASEMENT - EMT A RP865281	AUSPOWER CONNECT PROJECT NO.
A	ORIGINAL	20/01/2021	Auspower Connect Pty Ltd PO Box 531 Buddina, QLD 4575 Mob 0419 707 166 auspowerconnect@bigpond.com ABN 74 166 366 883 <i>This drawing is the property of Auspower Connect Pty Ltd and must not be used, retained or copied without written permission</i>			PARKER PROPERTY NINGI PTY LTD ENERGY OH 3.0m ENERGY UG - STREETLIGHTS - TELSTRA - GAS - HP GAS - WATER - STORMWATER - SEWER -	PARENT PROJECT NO. - WORK REQUEST NO. - LOTS - LOT 2 SP273404 CANCELLING LOTS - D.A. OPW20/0535 LOCAL AUTHORITY Sunshine Coast Regional Council UBD REF Map 55 N13 PEGGED By Surveyor	JDM APPROVED DATE: 20/01/2021 CHECKED: J McKenna DESIGNER: S Whittaker PHONE: 0419 707 166 ISSUE DATE: 20/01/2021	D.A: OPW20/0535 ENERGY EASEMENT - OVERVIEW 41 GLENBROOK DRIVE, NAMBOUR 4560	AC1115-E SCALE: 1:500 HBD 7076510 ISSUE NO. A SHEET 1 OF 2 A1

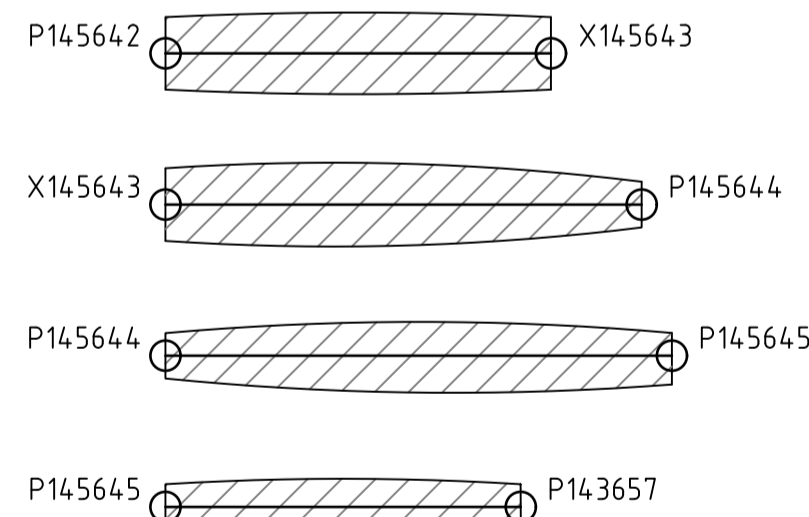
**FEEDER 345 (33kV) &
FEEDER NBR12A (11kV)
P145642 - P145644
LINE PROFILE**



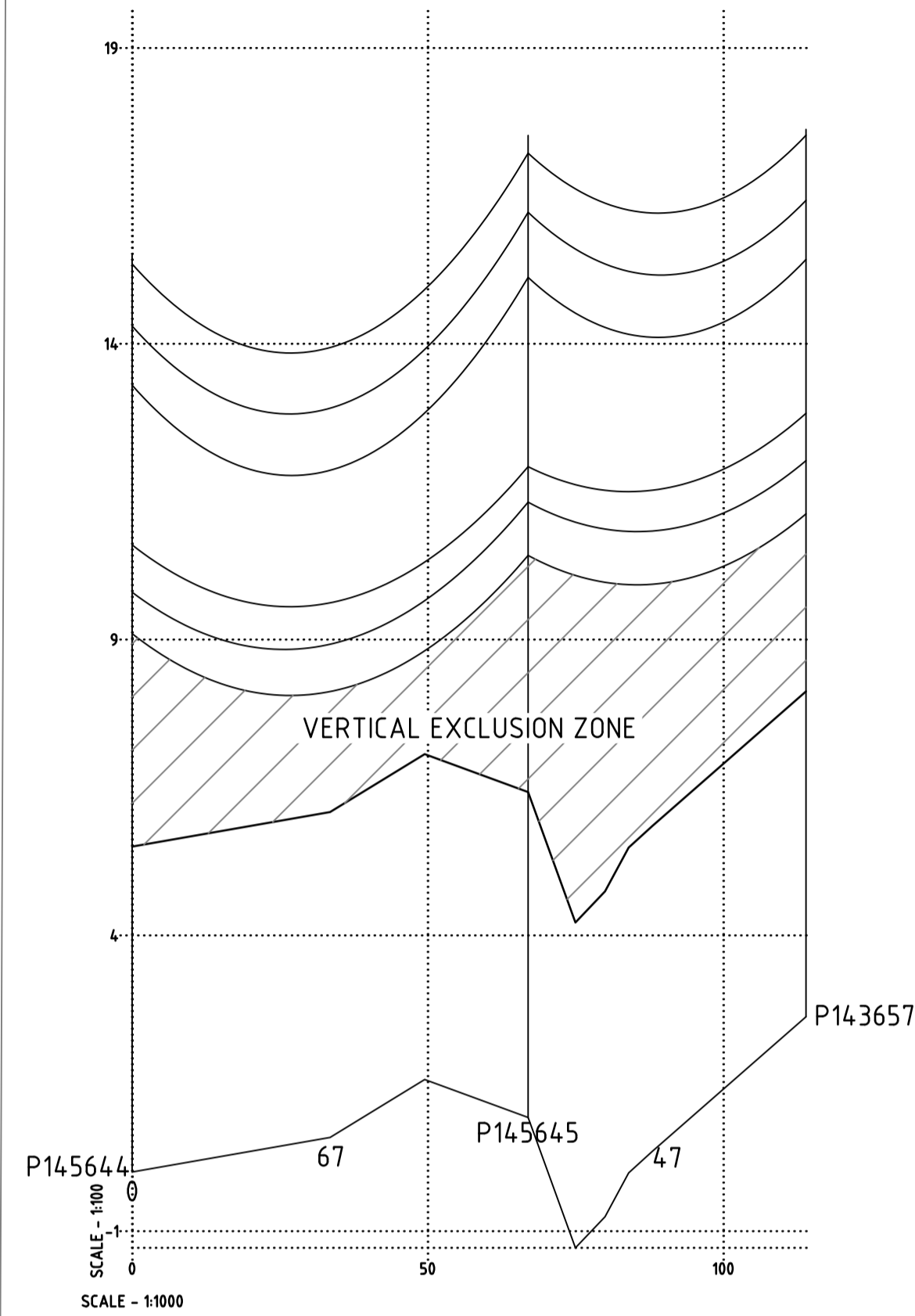
Circuit ID	L pole	L att ht	R pole	R att ht	Conductor	Sag	Span	Temperature	MES/RS	Tension	Tension Units	Segment	Actual no wind tens	Min clearance @ Ch	Blowout
hot	P145642	12.8	X145643	12.4	MO	1.18	50.99	110	54.8	76	Table	SS1	0.911	10.17 @ 26.01	1.28
hot	X145643	12.4	P145644	15.4	MO	1.81	63	110	54.8	76	Table	SS2	0.911	10.68 @ 76	1.958
hot	X145643	12.4	P145644	14.4	MO	1.81	63	110	54.8	76	Table	SS3	0.911	10.2 @ 86	1.96
hot	X145643	12.4	P145644	13.4	MO	1.81	63	110	54.8	76	Table	SS4	0.911	9.61 @ 90	1.963
hot	P145642	8.1	X145643	8.9	MO	0.86	50.99	75	62.8	105	Table	SS5	1.251	6.39 @ 25.01	0.996
hot	X145643	8.9	P145644	10.7	MO	1.92	63	75	63	328	Table	SS6	0.861	6.48 @ 87	1.975
hot	X145643	8.9	P145644	9.9	MO	1.92	63	75	63	328	Table	SS7	0.861	6 @ 90	1.977
hot	X145643	8.9	P145644	9.2	MO	1.92	63	75	63	328	Table	SS8	0.861	5.56 @ 93	1.98

ID	Conductor	RS	Tension	Temperatures	Poles
SS1	3 x MO - Moon	54.8	76 (Table)	cold (-5), uplift (0), standard (15), hot (110)	P145642, X145643
SS2	1 x MO - Moon	54.8	76 (Table)	cold (-5), uplift (0), standard (15), hot (110)	X145643, P145644
SS3	1 x MO - Moon	54.8	76 (Table)	cold (-5), uplift (0), standard (15), hot (110)	X145643, P145644
SS4	1 x MO - Moon	54.8	76 (Table)	cold (-5), uplift (0), standard (15), hot (110)	X145643, P145644
SS5	3 x MO - Moon	62.8	105 (Table)	cold (-5), uplift (0), standard (15), hot (75)	P145642, X145643
SS6	1 x MO - Moon	63	328 (Table)	cold (-5), uplift (0), standard (15), hot (75)	X145643, P145644
SS7	1 x MO - Moon	63	328 (Table)	cold (-5), uplift (0), standard (15), hot (75)	X145643, P145644
SS8	1 x MO - Moon	63	328 (Table)	cold (-5), uplift (0), standard (15), hot (75)	X145643, P145644

**3.0m HORIZONTAL EXCLUSION ZONES
(15°C BLOWOUT INCLUDED)**



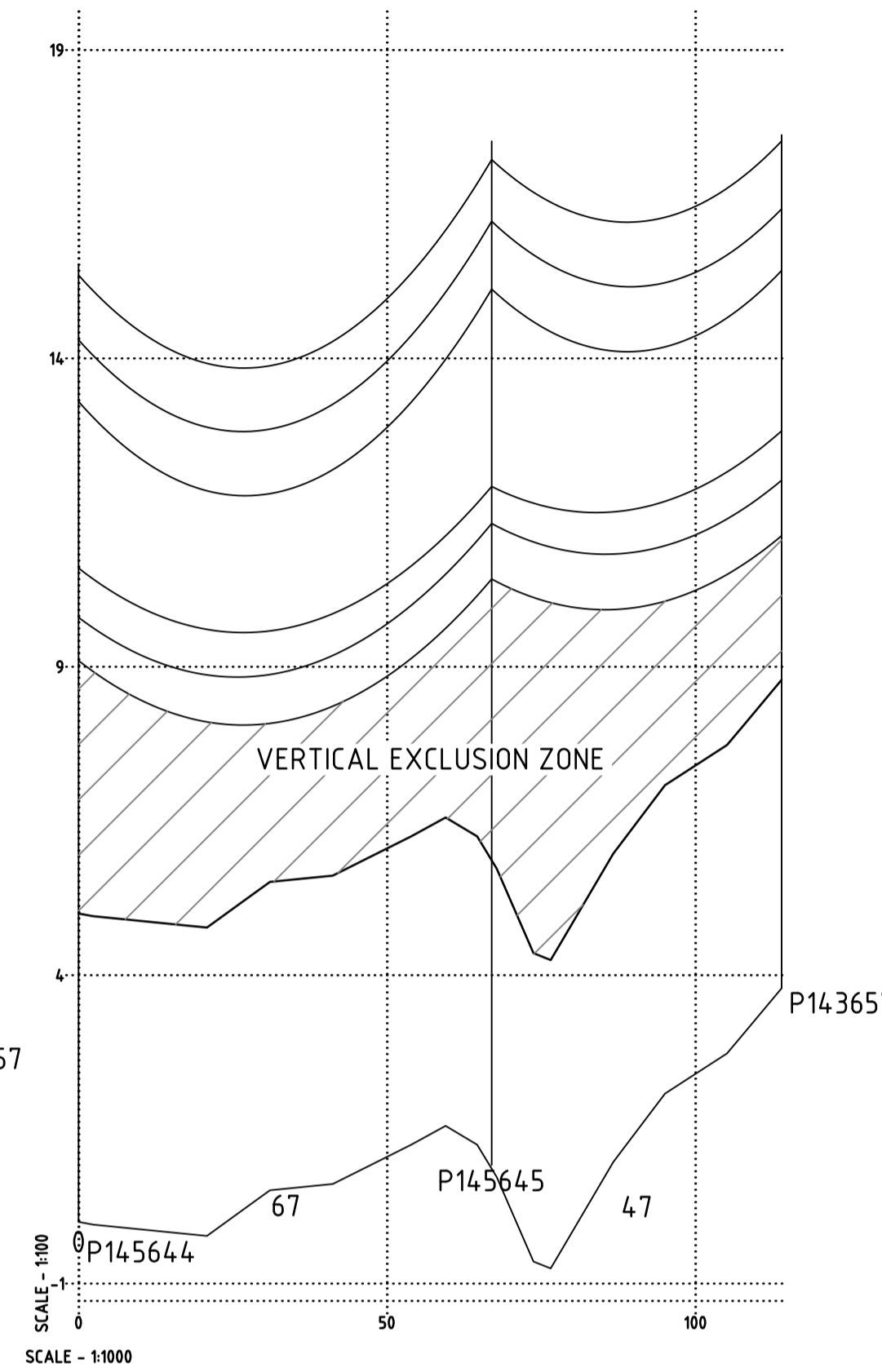
**FEEDER 345 (33kV) &
FEEDER NBR12A (11kV)
P145644 - P143657
LINE PROFILE
(EXISTING SURFACE LEVEL)**



Circuit ID	L pole	L att ht	R pole	R att ht	Conductor	Sag	Span	Temperature	MES/RS	Tension	Tension Units	Segment	Actual no wind tens	Min clearance @ Ch	Blowout
hot	P145644	15.35	P145645	16.3	MO	2.35	66.99	110	59.6	236	Table	SS1	0.794	13.22 @ 4.101	2.403
hot	P145645	16.3	P143657	14.9	MO	1.16	4.7	110	59.6	236	Table	SS1	0.794	14.86 @ 110	1.181
hot	P145644	14.3	P145645	15.3	MO	2.35	66.99	110	59.6	236	Table	SS2	0.794	12.2 @ 4.101	2.403
hot	P145645	15.3	P143657	13.8	MO	1.16	4.7	110	59.6	236	Table	SS2	0.794	13.77 @ 110	1.181
hot	P145644	13.3	P145645	14.2	MO	2.35	66.99	110	59.6	236	Table	SS3	0.794	11.14 @ 4.201	2.403
hot	P145645	14.2	P143657	12.8	MO	1.16	4.7	110	59.6	236	Table	SS3	0.794	12.76 @ 110	1.181
hot	P145644	10.6	P145645	11	MO	1.64	66.99	75	59.6	128	Table	SS4	1.134	8.74 @ 4.801	1.862
hot	P145645	11	P143657	10.2	MO	0.81	4.7	75	59.6	128	Table	SS4	1.134	10.2 @ 114	0.916
hot	P145644	9.8	P145645	10.4	MO	1.64	66.99	75	59.6	128	Table	SS5	1.134	8.08 @ 4.701	1.862
hot	P145645	10.4	P143657	9.4	MO	0.81	4.7	75	59.6	128	Table	SS5	1.134	9.4 @ 114	0.916
hot	P145644	9.1	P145645	9.5	MO	1.64	66.99	75	59.6	128	Table	SS6	1.134	7.24 @ 4.801	1.862
hot	P145645	9.5	P143657	8.5	MO	0.81	4.7	75	59.6	128	Table	SS6	1.134	8.5 @ 114	0.916

ID	Conductor	RS	Tension	Temperatures	Poles
SS1	1 x MO - Moon	59.6	236 (Table)	cold (-5), uplift (0), standard (15), hot (110)	P145644, P145645, P143657
SS2	1 x MO - Moon	59.6	236 (Table)	cold (-5), uplift (0), standard (15), hot (110)	P145644, P145645, P143657
SS3	1 x MO - Moon	59.6	236 (Table)	cold (-5), uplift (0), standard (15), hot (110)	P145644, P145645, P143657
SS4	1 x MO - Moon	59.6	128 (Table)	cold (-5), uplift (0), standard (15), hot (75)	P145644, P145645, P143657
SS5	1 x MO - Moon	59.6	128 (Table)	cold (-5), uplift (0), standard (15), hot (75)	P145644, P145645, P143657
SS6	1 x MO - Moon	59.6	128 (Table)	cold (-5), uplift (0), standard (15), hot (75)	P145644, P145645, P143657

**FEEDER 345 (33kV) &
FEEDER NBR12A (11kV)
P145644 - P143657
LINE PROFILE
(PROPOSED FINISHED LEVEL)**



ISSUE	DESCRIPTION	DATE
A	ORIGINAL	20/01/2021

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DEVELOPER DETAILS	ALIGNMENTS	WORKS COORDINATOR
Parker Property Ningi Pty Ltd	ENERGEX OH	-
Matthew Clarke	ENERGEX UG	-
0403 244 894	STREETLIGHTS	-
matthew@parkerpropertygroup.com	TELSTRA	-
PROJECT MANAGER DETAILS	GAS	-
Parker Property Ningi Pty Ltd	HP GAS	-
Matthew Clarke	WATER	-
0403 244 894	STORMWATER	-
matthew@parkerpropertygroup.com	SEWER	-

LOCAL AUTHORITY	LOCAL AUTHORITY	LOCAL AUTHORITY
Sunshine Coast Regional Council	Sunshine Coast Regional Council	Sunshine Coast Regional Council
Map 55 N13	Map 55 N13	Map 55 N13
By Surveyor	By Surveyor	By Surveyor

APPROVED:	APPROVED DATE:	CHECKED:	DESIGNER:	ISSUE DATE:
<i>J McKenna</i>	20/01/2021	J McKenna	S Whittaker	20/01/2021

ENERGEX EASEMENT - EMT A RP865281 D.A: OPW20/0535	ENERGEX EASEMENT - ENGINEERING INFORMATION
41 GLENBROOK DRIVE, NAMBOUR 4560	

AUSPOWER CONNECT PROJECT NO.	SCALE:	ENERGEX REFERENCE NO.
AC1115-E	1:500	HBD 7076510
ISSUE NO. A	SHEET 2 OF 2	A1