

Wollar - Wellington 330 kV Transmission Line: Access Track Log

Soils:	Sydney Basin Soils (Wollar to Ulan) - Dominated by Yellow and Red Podzolic
	Granite Soils (Ulan to Castlereagh Highway, Spicers Creek Road to Structure 257) - Dominated by Siliceous Sand
	Hill End Trough Soils (Castlereagh Highway to Spicers Creek Road)
	Molong Geanticline Soils (Structure 257 to Wellington Substation) - Dominated by Euchrozems

Category of Track:

Non Formed Generally involves driving along the transmission line easement or following a fence line in a open paddock.

- A Upgrading of existing tracks. This will generally involve widening, draining and resurfacing. The standard of the track is to be suitable for the purpose for which it was originally constructed. In some cases, it will be necessary to import material.
- B Tracks traversing flat plains country. These areas require grader formed tracks with the crown 300 mm above the natural ground surface and constructed with table drains on both sides;
- C Tracks traversing flat or gently undulating open or sparsely timbered and/or rocky areas;
- D Tracks traversing flat or gently timbered areas;
- E Tracks traversing swampy and/or unstable soil conditions. Tracks formed in these areas could require the removal of unstable soil and replacement with hard fill and/or geotextile fabric. In such cases, the track is to be topped with approved gravel with a compacted thickness of 50 mm, leaving the track 150 mm above natural ground level;
- F Tracks traversing heavily undulating sparsely timbered and/or rocky areas;
- G Tracks traversing heavily undulating timbered and/or rocky areas;
- H Tracks traversing rugged sloping timbered and/or rocky areas where the average natural grade of the slope is greater than 1:4 but less than 1:2;
- I Tracks traversing rugged steeply sloping areas involving large changes in elevation where the average natural grade of the slope is steeper than 1:2.

Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
	1 & 2	1 to Bargan Road Via Substation Site	1000 Metres	Substation Access Road			Acknowledged and Agreed	Access road to be constructed as part of the substation development and will be assessed separately. The location of the access road will generally be located within the existing easement for the Bayswater to Mt Piper 500kV transmission line.
1	1 & 2	1 to 2	310 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base			Cleared paddock. Access along the transmission line easement.
2	1 & 2	2 to 3	390 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base	One single Gate Required		Access along easement. Isolated trees within easement to be removal (Light Veg)
3	1 & 2	3 to 4	480 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base	Two single gates required		Access along easement. Line route crosses the north eastern corner of property No. 2A. Isolated trees within easment to be removed (Light Veg).
4	1 & 2	4 to 5	650 Metres	Non-formed track. Rock crossing with gravel approaches to be installed in gully.	Undulating Terrain , Shaley Clay Base			Access along easement. Isolated tree to be removed from easement.
5	1 & 2	5 to 6	450 Metres	Non-formed track. Rock crossing with gravel approaches to be installed in gully.	Undulating Terrain , Shaley Clay Base			Access to generally follow transmission line and cross gully at suitable location. No clearing required.
6	1 & 2	6 to 7	580 Metres	Non-formed track.	Undulating Terrain , Shaley Clay Base			No clearing required. Access to follow ground contour.
7	1 & 2	7 to 8	880 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base	Two single gates required		Access to follow ground contour and existing farm tracks. No clearing required.
8	1 & 2	8 to 9	460 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base			Access to follow ground contour and existing farm tracks. No clearing required.
	1 & 2	Stock Route to 9	1800 Metres	Existing farm tracks	Undulating Terrain , Shaley Clay Base			Access via existing farm tracks.
9	1 & 2	9 to 10	380 Metres	Non-formed tack	Undulating Terrain , Shaley Clay Base	Single gate required		Access along the easemen. Minor clearing of vegetation required near structure 10.
10	1 & 2	10 to 11	500 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base			Access to follow ground contour and use existing farm tracks and gate.
	1 & 2	Stock Route to 11	840 Metres	Existing farm track	Undulating Terrain , Shaley Clay Base			Existing track follows existing fence line.
11	1 & 2	11 to 12	745 Metres	Non-formed track	Undulating Terrain , Shaley Clay Base			Track to follow ground contour. No clearing required.
12	1 & 2	12 to 13	840 Metres	800m Category B , 40m Category E	Undulating Terrain , Shaley Clay Base			Track to follow suitable ground contour.
	1 & 2	Stock Route to 13	1800 Metres	1000m Category C , 800m Category A(ii)	Undulating Terrain , Shaley Clay Base	One double gates required		Upgrading of existing farm tracks along fence lines
13	1 & 2	13 to 14	480 Metres	Category C	Undulating Terrain , Shaley Clay Base	One single Gate Required		Access via existing farm tracks. Isolated trees to be removed from easement area.
14	1 & 2	14 Via Upper Cumbo Road to 15	1000 Metres	500m Category B , 500m Category G	Hilly Terrain , Rocky Shaley Base.	One single Gate Required		Upgrade existing track. Transmission line route crosses escarpment involving removal of trees (Heavy Veg)
15	1 & 2	15 to 16	500 Metres	Category F	Steep Terrain , Rocky Shaley Base			Upgrade existing farm track. Transmission line route requires removal of trees (Heavy Veg).
16	1 & 2	16 Light Vehicle Access to 17	580 Metres	Category F (Light Vehicle Access)	Steep Terrain , Rocky Shaley Base			Access along transmission line easement. Transmission line route requires removal of trees (Heavy Veg).

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	1 & 2	16 Heavy Vehicle Access to Wollar - Mudgee Road	1000 Metres	Category F, (Heavy Vehicle Access)	Undulating Terrain , Rocky Shaley Base	One double gates required		Trees to be Removed (Heavy Veg) , Access Gate to Wollar Road to be Moved 185 Metres Towards Wollar for safety reasons.
17	1 & 2	Wollar - Mudgee Road to 17	140 Metres	100 Metres B , 40 Metres A(ii)	Undulating Terrain , Rocky Shaley Base	One double gates required		Trees to be Removed (Heavy Veg)
	3,4 & 6	18 to Wollar Mudgee Road	320 Metres	Category B, Existing Track	Undulating Terrain , Rocky Shaley Base		Acknowledged and Agreed	Upgrade existing farm track for access. Transmission line route will require tree removal near crossing of Wollar Road (Heavy Veg).
18	3,4 & 6	18 to 19	500 Metres	Category C Track Upgrade	Undulating Terrain , Rocky Shaley Base.			Upgrade existing farm track. No vegetation clearing required.
19	3,4 & 6	19 to 20	400 Metres	Category C Track Upgrade	Undulating Terrain , Rocky Shaley Base.			Upgrade existing farm track. No vegetation clearing required. Bench required at structure 19
20	3,4 & 6	20 to 21	420 Metres	Category C Track Upgrade	Undulating Terrain , Rocky Shaley Base			Upgrade upgrade existing farm track. Transmission line route require some removal of isolated trees from easement (Light Veg).
21	3,4 & 6	21 to 22	455 Metres	335m Category C Track Upgrade , 120m Category F	Undulating Terrain , Rocky Shaley Base	Double gates required		Upgrade existing farm track. Transmission line route requires some tree removal near structures 20 and 21 (Medium Veg).
22	3, 4 & 6	22 to 22.1	420 Metres	Category F Track and upgrade existing track.	Undulating Terrain, Rocky Shaley Base, Bench Required at Structure 22.	One double gates required		Access along the easement. Upgrade existing track near structure 22. Transmission line route requires vegetation removal.
22.1	3,4 & 6	22.1 to 23	416 Metres	Category F	Undulating Terrain , Rocky Shaley Base.			Access along the easement. Isolated trees to be removed for easement.
23	3,4 & 6	23 to 24	255 Metres	Category F	Undulating Terrain , Rocky Shaley Base			Access along transmission line easement.
24	3,4 & 6	24 to 25	416 Metres	Category F	Undulating Terrain , Rocky Shaley Base			Access along transmission line easement.
25	3,4 & 6	25 to 26	465 Metres	Category F	Undulating Terrain , Rocky Shaley Base			Access along transmission line easement.
	3,4 & 6	26 to Ulan-Wollar Road	760 Metres	Category F	Undulating Terrain , Rocky Shaley Base ,	Gateway entrance to be extended 30 metres into paddock		Access to follow ground contour to existing gate.
26	3,4 & 6	26 to 27	420 Metres	Category F	Undulating Terrain , Rocky Shaley Base			Access along transmission line easement. Isolated tree to be removed from easement.
27	3,4 & 6	27 to 28	365 Metres	Category F	Undulating Terrain , Rocky Shaley Base			Access to follow ground contour along the transmission line easement. Trees to be removed from easement area (Light Veg).
28	3,4 & 6	28 to 28.1	0 Metres	Access Via Ulan-Wollar Road	Flat Terrain ,Shaley Soil			Trees to be removed on Ulan - Wollar Road (Medium Veg). Bench required at Structure 28
28.1	002C	28.1 to 28.2	380 Metres	Non formed Track	Flat Terrain ,Shaley Soil	One double gates required	Acknowledged and Agreed	Access to follow railway fence. Access to structure 28.1 via existing track from Ulan - Wollar Road.
28.2	002C	28.2 to 29	430 Metres	Non formed Track	Flat Terrain , Shaley Soil	Two single gates required		Isolated trees to be removed from easement (Light Veg). Access to follow railway fence.
29	3,4 & 6	29 to 30	460 Metres	Non formed Track	Flat Terrain ,Composite Soils		Acknowledged and Agreed	Access along transmission line easement.
30	3,4 & 6	30 to 31	440 Metres	400m Category B Non formed Track, 40 Metre Concrete Causeway and rock crossing with gravel approaches near structure 31.	Flat Terrain ,Composite Soils			Isolated tree to be removed from easement (Light Veg). Access to follow ground contour.
31	3,4 & 6	31 to 32	450 Metres	Category B	Flat Terrain ,Composite Soils	One single Gate Required		Access to follow ground contour and existing access.
32	3,4 & 6	32 to 33	420 Metres	Non formed Track	Flat Terrain ,Composite Soils	One single Gate Required		Isolated trees to be removed from easement (Light Veg). Access from Ulan-Wollar Road.
33	3,4 & 6	33 to 34	415 Metres	Non formed Track	Flat Terrain ,Composite Soils			Access along the transmission line easement.
34	3,4 & 6	34 to 35	385 Metres	Non formed Track.	Flat Terrain ,Composite Soils. (Artifacts * 2)	One single Gate Required		Isolated trees to be removed from easement (Light Veg) Access to transmission line easement from Ulan-Wollar Road Via existing farm track.
35	3,4 & 6	35 to 36	710 Metres	660m Category B , 40 Metre Concrete Causeway , 10 Metre Rock Crossing , Install One Contour Bank Crossing	Flat Terrain ,Composite Soils.	Three single gates, One double gate and repair two single gates.		Transmission line route isolated trees to be removed from easement (Light Veg). Access from Ulan-Wollar Road.
36	3,4 & 6	36 to 37	420 Metres	420m Category B. Concrete causeway to be installed at crossing of Wilpinjong Creek.	Flat Terrain ,Composite Soils.	Two single gates required		Isolated tree to be removed from easement (Light Veg). Access to follow ground contour.
37	3,4 & 6	37 to 38	520 Metres	470m Category B , 30 Metre Concrete Causeway , 20 Metre Concrete Causeway	Flat Terrain ,Composite Soils			Isolated trees to be removed from easement (LightVeg). Access from Ulan-Wollar Road. Access to follow ground contour and existing farm tracks.
38	3,4 & 6	38 to 39	325 Metres	Non formed Track	Flat Terrain ,Composite Soils			Access along transmission line easement.
39	3,4 & 6	39 to 40	350 Metres	Non formed Track	Flat Terrain ,Composite Soils			Access along transmission line easement.
40	3,4 & 6	40 to 41	480 Metres	400m Category B , 80m Category E	Flat Terrain ,Composite Soils.	One double gate required. Repair two double gates.		Isolated trees to be removed from easement (LightVeg).
41	3,4 & 6	41 to 42	380 Metres	340m Category B , 40m Category E	Flat Terrain ,Composite Soils			Access to follow ground contour.
42	3,4 & 6	42 to 43	380 Metres	Category B	Flat Terrain ,Composite Soils.	One single gate required		Access along the easement.
43	3,4 & 6	43 to 44	400 Metres	Category B	Flat Terrain ,Composite Soils.	Three single gates required.		Isolated trees to be removed from easement (Light Veg). Access along the easement.
44	3,4 & 6	44 to 45	380 Metres	Category B	Flat Terrain ,Composite Soils.	Two single gates required		Isolated trees to be removed from easement (Light Veg). Access along the easement.
45	3,4 & 6	45 to 46	370 Metres	350m Category B , 20m Category E. Rock crossing with gravel approaches.	Flat Terrain ,Composite Soils.	One double gate required.		Isolated trees to be removed form easement (Light Veg). Access along easement.
46	3,4 & 6	46 to 47	460 Metres	410m Category B , 50m Category E. Two rock crossings with gravel approaches	Flat Terrain ,Composite Soils			Isolated trees to be removed from easement (Light Veg). Access available from Ulan-Wollar Road. Access along the easement. Existing house to be removed.
47	3,4 & 6	47 to 48	400 Metres	Category F	Flat Terrain ,Composite Soils			Isolated trees to be removed from easement (Light Veg). Access along the easement.

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48	3,4 & 6	48 to 49	440 Metres	Category F	Flat Terrain ,Composite Soils			Trees to be removed from easement (Medium Veg). Access to follow ground contour and existing farm access.
49	3,4 & 6	49 to 50	360 Metres	Category F	Flat Terrain ,Composite Soils			Trees to be removed from easement (Medium Veg). Access along easement.
50	3,4 & 6	50 to 51	200 Metres	Category C Existing track.	Flat Terrain ,Composite Soils. (Artifacts * 2)	One single gate required.		Isolated trees to be removed from easement (Light Veg). Access to follow ground contour.
51	9	51 to 52	500 Metres	Category A existing track, rock crossing with gravel approach	Undulating Terrain		Acknowledged and Agreed	Trees to be removed from easement (Medium Veg).
52	9	52 to 53	1160 Metres	Category A upgrade existing track. Upgrade existing crossing with rock and gravel approach.	Undulating Terrain			Upgrade existing track. Trees to be removed from easement (Light Veg).
53	9	53 to 54	250 Metres	Category A existing track and traverse open ground. Concrete causeway.	Undulating Terrain	One single gate required.		Trees to be removed from easement (Light Veg and Riparian Zone). Access to follow ground contour and existing farm tracks.
54	9	54 to 55	580 Metres	Category A existing tracks. Concrete causeway on existing crossing.	Undulating Terrain	Two single gates required		Trees to be removed from easement (Light Veg and Riparian Zone). Access along existing tracks.
55	9	55 to 56	500 Metres	Concrete causeway. Cat C 250m. Cat F 250m.	Heavily Undulating,timbered and Rocky			Trees to be removed from easement (Heavy Veg). Access to follow ground contour.
56	9	56 to 57	315 Metres	Category F	Heavily undulating, timbered and rocky	Single gate required.		Trees to be removed (Heavy Veg). Access along easement.
57	9	57 to 58	400 Metres	Category F	Heavily undulating, timbered and rocky			Trees to be removed (Heavy Veg). Access to follow ground contour.
58	9	58 to 59	540 Metres	Category F	Heavily undulating, timbered and rocky	One single gate required.		Trees to be removed (Heavy Veg). Access to follow ground contour.
59	11	59 to 60					Requirements Acknowledged - Not yet Finalised	Access not available
60	11	60 to 61						Access not available.
61	11	61 to 62						Access not available.
62	13	62 to 63					Requirements Acknowledged - Not yet Finalised	Access not available.
63	14	63 to 64					Requirements Acknowledged - Not yet Finalised	Access not available.
64	9	64 to 65	380 Metres	Non formed track.		Three new double gates required.		Isolated trees to be removed from easement (Light Veg). Access along the easement.
65	9	65 to 66	365 Metres	Non formed track				Scattered Timber to be cleared from easement (Light Veg). Access along the easement.
66	9	66 to 70	320 Metres	Non formed track		One single gate required.		Scattered Timber to be cleared (Light Veg). Access along the easement. Structures 67, 68 and 69 do not exist.
70	9	70 to 71	320 Metres	Non formed track.				Cleared. Access along the easement. Keep clear of steep drain.
71	9	71 to 72	400 Metres	Non formed track.		One single gate required.		Cleared. Access along the easement.
72	9	72 to 72.1	390 Metres	Non formed track.		One single gate required.		Cleared. Access along the easement.
72.1	9	72.1 to 73	290 Metres	Non formed track.		Double gates required.		Cleared. Access via Ulan and road and existing mining company tracks.
73	9	73 to 74	390 Metres	Non formed tracks				Cleared. Access along the easement.
74	9	74 to 75	420 Metres	Non formed track. Rock Armour existing drainage crossing.				Cleared. Access along the easement.
75	9	75 to 76	430 Metres	Access from Ulan Road.		Double gate required		Scattered Timber to be cleared. Structure located on screening batter.
76	9	76 to 77	440 Metres	Ulan Road Crossing provides access.				Scattered Timber to be cleared
77	9	77 to 78	400 Metres	Non formed track		Double gate required		Scattered Timber to be cleared. Access along the easement.
78	9	78 to 79	490 Metres	Non formed track.				Scattered Timber to be cleared. Access along the easement.
79	9	79 to 80	500 Metres	No crossing on Moolarben Creek. Non formed track.				Scattered Timber to be cleared
80	15	80 to 81	365 Metres	Non formed track		Double gate required	Requirements Acknowledged - Not yet Finalised	Scattered Timber to be cleared. Access along the easement.
81	15	81 to 82	250 Metres	Non formed track		Double gate required		Heavily Timbered, clearing required. Access via existing council roads and non formed access.
82	9	82 to 83	540 Metres	Non formed track.			Requirements Acknowledged - Not yet Finalised	Heavily Timbered, clearing required along easement.
83	5	83 to 84	100 Metres	Category F			Acknowledged and Agreed	Heavily Timbered, clearing required. Access for structure 83 from Cope Road.
84	5	84 to 85	1100 Metres	Category F	Steeply Sloping.	Single gate required		Heavily Timbered, clearing required along transmission line easement. Access to follow ground contour will minor clearing required.Access to structure 84 from Cope Road.
85	9	85 to 86	450 Metres	Category F	Steeply Sloping.	Single gate required	Acknowledged and Agreed	Heavily Timbered, clearing required along transmission line easement. Access to follow ground contour with minor clearing required.
86	9	86 to 87	840 Metres	Category F	Steeply Sloping.	Two single gates required		Heavily Timbered, clearing required along easement. Access to follow ground contour with minor clearing required.
87	9	87 to 88	1,540 Metres	Category A	Steeply Sloping.	Existing locked gate.		Heavily Timbered, clearing required along easement. Access to follow ground contour with minor clearing required. Access tracks for 132kV line to be upgraded.
88	9	88 to 89	400 Metres	Category A	Steeply Sloping.	Single gate required		Heavily Timbered, clearing required along easement. Upgrade existing tracks for 132kV transmission line.
89	9	89 to 90	370 Metres	Category A	Moderately Sloping			Heavily Timbered, clearing required. Access along easement.
90	9	90 to 91	470 Metres	Category A	Moderately Sloping			Heavily Timbered, clearing required. Access along existing tracks. Upgrade existing tracks.
91	19	91 to 92	920 Metres	420m Category C Track Upgrade , 400m Category A(ii) , 100m Category E , Concrete Causeway	Poor Granite Soil , Undulating Terrain (Swampy)		Acknowledged and Agreed	Heavy Shrub Vegetation (Swamp Area). Concrete Causeway & Two Rock Flumes on Water Inlets at Crossing Required. Upgrade existing tracks for 132kV transmission line.
92	19	92 to 93	320 Metres	Category A(ii)	Poor Granite Soil , Undulating Terrain (Swampy).	Single gate required		Light Vegetation to be removed from easement. Upgrade existing track for 132kV line.

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93	19	93 to 94	480 Metres	400m Category A(ii) , 80m Category E	Poor Granite Soil , Undulating Terrain (Swampy).	Single gate required		Lght Vegetation to be removed from easement. Upgrade existing access track for 132kV line.
94	21	94 to 95	350 Metres	300m Category B , 50m Category E	Undulating granite terrain	Single gate required	Acknowledged and Agreed	Isolated tree to be removed from easement.
	21	95 to Front Entrance Gate	1000	300m Category A Existing access track, 700m Category C.				Upgrade existing track plus drainage to Cope Road.
95	21	95 to 96	1090	900m Category A Existing Track, 100m Category B , 40m Category E, 50m Non formed	Undulating Granite Terrain.	Single gate required		Ok to put TG lock at Front Gate Entrance using link connection. Isolated tree to be removed from easement, OK to erect finger boards.
96	23	96 to 97	475 Metres	Category A Existing Track	Granite Soil , Undulating Terrain.	Single gate required	Acknowledged and Agreed	Light Vegetation to be removed from easement. Upgrade existing track.
97	23	97 to 98	340 Metres	Category A Existing Track	Granite Soil , Undulating Terrain			Light Vegetation to be removed from easement. Upgrade existing track
98	23	98 to 99	650 Metres	80m Category C , 570m Category A Existing Track	Granite Soil , Undualting Terrain	Single gate required		Upgrade existing track.
99	23	99 to 100	600 Metres	80m Category C , 520m Category A Existing Track	Granite Soil , Undualting Terrain			Vegetation Removal from easement. Upgrade existing access tracks.
100	23	100 to 101	500 Metres	80m Category A(ii) with Gravel , 420m Category A Existing Track	Granite Soil , Undualting Terrain.	Single gate required		Gravel fill over rocks on access track. Upgrade existing track. Vegetation removal from easement.
101	23	101 to 102	480 Metres	80m Category E , 400m Category B	Granite Soil , Undualting Terrain			Vegetation removal from easement. Upgrade existing track.
102	Crown Land Cope SF	102 to 103	490 Metres	Category A Existing Track.	Undulating Terrain Granite Base		Acknowledged and Agreed	Heavy vegetation (Iron Bark) to be removed from easement. Clearing within Cope State Forest. Upgrade existing tracks as required.
103	24	103 to 104	409 Meters	Category A Existing Track	Undulating Terrain Granite Base	Single gate required	Acknowledged and Agreed	Heavy vegetation (Iron Bark) to be removed from easement. Clearing within Cope State Forest. Upgrade existing tracks as required.
104	24	104 to 105	1000 Metres	Category A existing track	Flat Terrain Granite Base (Crop Paddock)	Double gate required		Access to skirt cultivation area.
105	24	105 to 106	520 Metres	Non formed track	Undulating Terrain Granite Base	Two double gates required.		Access along the easement.
106	24	106 to 107	580 Metres	500m Non formed track, 80m Category F.	Undulating Terrain Granite Base	Two double gates required.		Isolated trees to be removed from easement. Access to follow ground contour.
107	24	107 to 108	1040 Metres	640m Existing Track Upgrade Category A(ii) and Category C , 400m Category F	Hilly Terrain, Shale/Granite Base			Heavy vegetation to be removed from easement. Upgrade existing tracks as required.
108	24	108 to 109	1140 Metres	320m Major Track Upgrade (Raise Level One Metre) Category A(ii) & C , 820m Existing Track	Slight Gradient, Granite Base			Isolated trees to be removed from easement.
109	24	109 to 110	480 Metres	460 Metres Unformed Track OK, Contour Bank Crossing A(ii) , 20 Metres E	Undulating Terrain Granite Base	Double gate required		Isolated trees mid span to be removed from easement.
	24	109 to Blue Springs Road	1385 Metres	950m Category C , 180m Category E , 200m Category A(ii) , One Concrete Causeway 15 Metres , One Rock Causeway 40 Metres	Undulating Terrain Granite Base.	Double gate required		Two apple gums to be lopped. Access to Blue Springs Road.
110	24	110 to 111	250 Metres	Non formed Track.	Undulating Terrain Granite Base			Crop Paddock. Access along easement.
111	24	111 to 112	360 Metres	Non formed Track (Crop Paddock)	Undulating Terrain Granite Base			Crop Paddock (vegetation Nil). Access along fence line to skirt crop area.
112	Crown Land	112 to 113	30 Metres	Category F	Slight Slope Granite Base			Vegetation removal within Crown Reserve.
	25	112 to Blue Springs Road	1130 Metres	160m Category A(ii) , 920m Category C , 50m Category E , Rock Crossing Upgrade , Upgrade Concrete Causeway (Extend Pipes)	Undulating to Steep Granite Base			Cross Banks to be Installed Where Necessary
113	26	113 to 114	285 Metres	Category A Existing Track	Slight Slope Granite Base		Acknowledged and Agreed	Medium Vegetation to be removed from easement. Upgrade existing track as required.
114	26	114 to 115	350 Metres	320m Category A Existing Track, 30m Category A (ii) Creek Crossing - rock & gravel	Slight Slope Granite Base		Acknowledged and Agreed	Access along easement. Existing access for 132kV line to be used.
115	28	115 to 116	395 Metres	Category A Existing Track	Flat Granite Soil		Acknowledged and Agreed	Two gums to be removed from easement. Existing access for 132kV line to be used.
116	28	116 to 117	360 Metres	330m Category A Existing Track, 30m Category E	Flat Granite Soil		Acknowledged and Agreed	Existing access for 132kV line to be used.
117	27	117 to 118	450 Metres	Category A Existing Track	Undulating Granite Base.	Double gate required	Acknowledged and Agreed	Minimal vegetation to be removed from easement. Existing access for 132kV line to be used.
118	27	118 to 119	460 Metres	430m Category A Existing Track, 30m Rock Crossing	Slight Slope Granite Base			Medium vegetation to be removal from easement. Existing access for 132kV line to be used.
119	27	119 to 120	450 Metres	Category A Existing Track	Slight Slope Granite Base			Existing access for 132kV line to be used.
120	29	120 to 121	480 Metres	Category A Existing Track	Slight Slope Granite Base.	Two single gates with wooden posts required.		Existing access for 132kV line to be used.
121	29	121 to 122	404 Metres	Non formed track	Slight Slope Granite Base.		Acknowledged and Agreed	Access along the easement.
122	30	122 to 123	430 Metres	Non formed track.	Slight Slope Granite Base		Acknowledged and Agreed	Access along the easement.
123	30	123 to 124	430 Metres	Non formed track.	Slight Slope Granite Base.	Single gate required		Isolated trees removal to be removed from easement.
124	30	124 to 125	450 Metres	Category A Existing Track	Slight Slope Granit Base.	Double gate required		Isolated tree removal to be removed from easement.

Wollar - Wellington 330 kV Transmission Line: Access Track Log

Soils:	Sydney Basin Soils (Wollar to Ulan) - Dominated by Yellow and Red Podzolic
	Granite Soils (Ulan to Castlereagh Highway, Spicers Creek Road to Structure 257) - Dominated by Siliceous Sand
	Hill End Trough Soils (Castlereagh Highway to Spicers Creek Road)
	Molong Geanticline Soils (Structure 257 to Wellington Substation) - Dominated by Euchrozems

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- A Upgrading of existing tracks. This will generally involve widening, draining and resurfacing. The standard of the track is to be suitable for the purpose for which it was originally constructed. In some cases, it will be necessary to import material.
- B Tracks traversing flat plains country. These areas require grader formed tracks with the crown 300 mm above the natural ground surface and constructed with table drains on both sides;
- C Tracks traversing flat or gently undulating open or sparsely timbered and/or rocky areas;
- D Tracks traversing flat or gently timbered areas;
- E Tracks traversing swampy and/or unstable soil conditions. Tracks formed in these areas could require the removal of unstable soil and replacement with hard fill and/or geotextile fabric. In such cases, the track is to be topped with approved gravel with a compacted thickness of 50 mm, leaving the track 150 mm above natural ground level;
- F Tracks traversing heavily undulating sparsely timbered and/or rocky areas;
- G Tracks traversing heavily undulating timbered and/or rocky areas;
- H Tracks traversing rugged sloping timbered and/or rocky areas where the average natural grade of the slope is greater than 1:4 but less than 1:2;
- I Tracks traversing rugged steeply sloping areas involving large changes in elevation where the average natural grade of the slope is steeper than 1:2.

Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
125	30	125 to 126	520 Metres	Category A Existing Track	Slight Slope Granite Base.	Single gate required	Acknowledged and Agreed	Upgrade existing track as required.
126	30	126 to 127	520 Metres	Non formed track.	Slight Slope Granite Base			Two isolated trees to be removed from easement.
127	30	127 to 128	600 Metres	520m Non formed Track, 60m Category A(ii) & Category F, 20 Metres Concrete Causeway	Slight Slope Granite Base.	One single gate and one double gate required.		Trees to be removed or lopped in the easement. Crossing of Stubbo Creek.
	30	127 to Stubbo Road	1400 Metres	400m Category A(ii) & Category F, 1000m Category B.	Undulating Granite Base		Acknowledged and Agreed	Side Lopping/Removal Along Access. Access to skirt cultivation area.
128	31	128 to 129	920 Metres	Non formed track.	Granite Base Crop Paddock		Acknowledged and Agreed	Isolated trees to be removed or lopped.
129	31	129 to 130	1000 Metres	Non formed Track	Granite Base Crop Paddock	Double gate required		Access to skirt cultivation area.
130	31	130 to 131	1120 Metres	1040m Category A Existing Track, 80m Category E	Granite Base Crop Paddock, Contour Bank Crossing	Double gate required		Access to follow existing farm tracks and fence line.
131	31	131 to 132	400 Metres	Non formed track.	Granite Base Crop Paddock			Access to follow existing farm tracks, fence line.
132	31	132 to 133	420 Metres	Non formed track.	Granite Base Crop Paddock			Access along easement.
133	34	133 to 134	560 Metres	520m Non formed track, 40m Category F Creek Upgrade Rock Required	Granite Base, Undulating Grazing Land	Single gate required		Transmission line route crosses Barneys Reef Road.
134	32	134 to 135	560 Metres	437m Non formed track, 80m Category A(ii) & Category F, 43 Metres Rock Causeway	Granite Loam Base.	Single gate required	Acknowledged and Agreed	Access along the easement.
135	32	135 to 136	460 Metres	Non formed track	Granite Soil, Slight Slope.	One single gate and one double gate required.	Acknowledged and Agreed	Isolated tree to be removal from easement.
135	34	Barneys Reef Road to 135	957 Metres	800m Existing Track, 100m Category A(ii) & Category F, 57 Metres Concrete Causeway	Sandy Loam Soil, Undulating terrain.	Two Sets Double Gates, Repair Two Sets Double Gates		Casuarina Requires Lopping at Creek Crossing.
136	32	136 to 137	250 Metres	Non formed track.	Granite base, Slight Slope		Acknowledged and Agreed	Lopping or removal of trees in easement required.
136	33	136 to 137	160 Metres	Non formed track.	Granite Soil Base, Undulating Terrain.	Single gate required	Acknowledged and Agreed	Access along the easement.
137	33	137 to 138	450 Metres	400m Non formed track, 40m Category A(ii), 10m Category E, Rock Crossing	Granite Base, Undulating Terrain.	Two sets of double gates required.		Isolated tree to be removed from easement.
138	33	138 to 139	407 Metres	Non formed track	Granite Base, Undulating Terrain.	Single gate required		Access along the easement.
139	33	139 to 140	640 Metres	320m Category B, 320m Existing Track	Granite Base, Undulating Terrain	Single gate required		Cross Banks to be Installed Where Necessary
140	33	140 to 141	740 Metres	500m Existing Track, 240m Non formed track,	Granite Base, Undulating Terrain.	Two Single Gates Required, Two Sets Double Gates Required		Isolated tree to be removed from easement.
141	33	141 to 142	440 Metres	Non formed track	Granite Base, Undulating Terrain.	One Set Double Gates Required		Access along the easement.
	33	141 to Jackson's Lane	750 Metres	450m Category A(ii) Track Upgrade, 300m Category B	Granite Base, Undulating Terrain.	One Set Double Gates Required At Jackson Lane Entrance		Cross Banks to be Installed Where Necessary
142	33	142 to 143	460 Metres	Non formed Track	Granite Base, Undulating Terrain.	One Single Gate Required		Access along the easement.
143	33	143 To Jackson Lane	120 Metres	Non formed track	Granite Base, Undulating Terrain.	One Set Double Gates		Access along the easement.
144	37	144 to 145	435 Metres	Non formed track	Granite Soil, Undulating Terrain		Acknowledged and Agreed	Access along the easement.
	37	Jackson Lane to 144	260 Metres	Non formed track	Granite Soil, Undulating Terrain.	One Set Double Gates Required		Isolated trees to be removed at roadside.
145	37	145 to Pegoon Lane	780 Metres	760m Non formed track, 20m Category F at Gateway	Granite Soil, Undulating Terrain.	One Set Double Gates Required on Pegoon Road		
146	39	147 to 146	458 Metres	393m Non formed track, 65m Category E Swamp Track	Undulating Terrain, Granite Base.	One Set Double Gates Required	Acknowledged and Agreed	Trees to be removed or lopped in the easement.
147	39	148 to 147	740 Metres	Non formed track	Undulating Terrain, Granite Base.	Repair Gates (Weld Hinges), One Single Gate (Wooden Posts)		Lopp Over Hanging Branches Along Access Track
148	39	149 to 148	860 Metres	600m Existing Track, 250 Non formed track 10m Category A(ii) at Gateway	Granite Base, Slight Slope, Crop Paddock.	Repair Gates (Weld Hinges), One Single Gate (Wooden Posts)		Cross Banks to be Installed Where Necessary
149	39	150 to 149	1190 Metres	700m Existing Track, 415m Category B, 75m Category A(ii)	Granite Base, Slight Slope Grazing Paddock.			Lopping or removal of isolated trees for easement required. OK to install finger boards.
151	40	Trilby Lane to 151	375 Metres	Category A existing track	Granite Base, Slight Slope, Cleared Paddock.	Existing gate at Trilby Lane to be replaced with double gate. Existing gate at internal fence near structure 151 to be replaced with double gates.	Acknowledged and Agreed	No access from Castlereagh Highway.
150	40	151 to 150	275 Metres	Non formed track	Granite Base Slight Slope Cleared Paddock			Access along the easement.
152	40	152 to 151	680 Metres	480m Category A upgrade existing track along fence, 200m Non formed track.	Cleared Paddock	Double gate required		Access to follow fence lines to avoid cultivation areas.
153	40	153 to 152	490 Metres	430m Category A upgrade existing track, Non formed along existing fence line.	Cleared Paddock			Access to follow fence lines to avoid cultivation areas.
154	40	154 to 153	550 Metres	450m Category A upgrade existing track, 100m Non formed track.	Cleared Paddock			Access to follow fence lines to avoid cultivation areas.
155	40	155 to 154	315 Metres	200m Category A upgrade existing track, 115m Category E	Cleared Paddock	Double gate required		Access to follow fence lines to avoid cultivation areas.
156	40	156 to 155	680 Metres	Non formed track	Cleared Paddock	Three double gates required.		Access to follow fence lines to avoid cultivation areas.
157	40	157 to 156	430 Metres	Non formed track	Cleared Paddock	Double gate required		Access to follow fence lines to avoid cultivation areas.
	40	157 to Spring Ridge Road	1700 Metres	Category A upgrade existing track.	Cleared Paddock	Three double gates required.		Access to Spring Ridge Road passes near Managers house and yards.

Wollar - Wellington 330 kV Transmission Line: Access Track Log

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	Granite Soils (Ulan to Castlereagh Highway, Spicers Creek Road to Structure 257) - Dominated by Siliceous Sand
	Hill End Trough Soils (Castlereagh Highway to Spicers Creek Road)
	Molong Geanticline Soils (Structure 257 to Wellington Substation) - Dominated by Euchrozems

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- E Tracks traversing swampy and/or unstable soil conditions. Tracks formed in these areas could require the removal of unstable soil and replacement with hard fill and/or geotextile fabric. In such cases, the track is to be topped with approved gravel with a compacted thickness of 50 mm, leaving the track 150 mm above natural ground level;
- F Tracks traversing heavily undulating sparsely timbered and/or rocky areas;
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- H Tracks traversing rugged sloping timbered and/or rocky areas where the average natural grade of the slope is greater than 1:4 but less than 1:2;
- I Tracks traversing rugged steeply sloping areas involving large changes in elevation where the average natural grade of the slope is steeper than 1:2.

Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
158	40	Spring Ridge Road to 158	975 Metres	Non formed track	Cleared Paddock	Two single gates required.		No additional gates to be installed in boundary fence with Spring Ridge Road. Access along fence fallen timber and debris to be removed.
159	41	Spring Ridge Road to 159	380 Metres	Non formed track	Cleared Paddock	One double gate and one single gate required.	Acknowledged and Agreed	Access along fence line to avoid cultivation area. Removal of trees required at crossing of Spring Ridge Road.
160	41	159 to 160	520 Metres	220m Non formed track, 300m Category F.	Cleared Paddock	Single gate required		Access to be along fence line in cultivated areas. Isolated trees to be removed.
161	41	160 to 161	320 Metres	Category F	Rocky steep terrain.			Access track crosses rock exposed ridge line. Isolated trees to be removed.
162	41	161 to 162	370 Metres	Category F	Rocky steep terrain.			Track construction in rocky area. Scattered vegetation removed.
163	41	162 to 163	1085 Metres	835m Category A, 250m Category F	Rocky steep terrain.	Two double gates required		Double gate to be installed at alternative access from lane along northern boundary. Light vegetation removal required.
164	41	163 to 164	975 Metres	830m Category A, 145m Category F	Rocky Terrain, Slight Slope	Two double gates required		Main access onto property to be via existing gate near old buildings. Upgrade existing track between structures 163 and 164. Light vegetation removal required.
165	41	164 to 165	345 Metres	275m Category A, 70m Non formed	Rocky Terrain, Slight Slope	Double gate required		Upgrading of existing track will involve importation of gravel. Heavy vegetation removal required.
166		165 to 166	1000 Metres	Non formed track.	Cultivated paddock.	Single gate required		Gate to be installed on boundary fence. Access to skirt cultivation areas and use existing farm tracks.
167	43	167 to 166	800 metres	600m Category C, 200m Category F	Cultivated paddock.		Acknowledged and Agreed	Undulating Terrain, Sparse vegetation. Bench installation required at structure 166
168	42	168 to 167	1580 metres	1000m Category C, 300m Category A(ii) access from Mebul Rd, 280m Category B	Sloping terrain sparse vegetation.	Two sets of double gates required.	Acknowledged and Agreed	Access track from Mebul Rd needs upgrade.
169	42	169 to 168	500 Metres	Non formed track	Flat terrain, Cultivation paddock.			Sparse Vegetation. Access along easement.
170	42	170 to 169	640 Metres	Non formed track	Flat terrain, Grazing paddock.			Sparse Vegetation. Access to follow ground contour and fence line.
170	42	171 to 170	460 Metres	300m Category B, 160m Category F	Flat terrain, Cleared paddock.	One set of double gates and one single gate required.		Sparse Vegetation. Access along easement.
171	46	171 to Mebul Rd	100 Metres	80m Unformed Track, 20m Category F. Rock armoured creek crossing to be installed.	Flat terrain. Cultivation paddock.	Double gate required at Mebul Road access.	Acknowledged and Agreed	OK to install finger boards. Sparse Vegetation.
172	48	172 to 173	1120 Metres	420m Category F from Gum Gully Rd access, 700m Category F. Install rock creek crossing.	Hilly terrain.		Acknowledged and Agreed	Heavy Timbered. OK to install tower signs.
	48	Mebul Rd to 172	400 Metres	300m Category F, 100m Category B	Hilly terrain.	Double gates required at Mebul Road.		Hilly Terrain, Cross Banks to be Installed Where Necessary
173	48	173 to 174	520 Metres	200m Category F, 320m Category B, Rock crossing to be installed.	Hilly terrain.	Single gate required		Access to follow ground contour.
174	48	174 to Gum Gully Rd	100 Metres	Category B	Flat terrain.	Double gates required at Gum Gully Road.		Access along easement.
175	47	175 to 176	400 metres	Category F	Hilly terrain.		Acknowledged and Agreed	Heavy Timbered to be removed from easement. Bench installation required at Structure 176.
175	47	Gum Gully Rd to 175	300 Metres	Category F	Hilly terrain.	Single gate required at Gum Gully Road.		Heavy Timbered to be removed from easement.
176	47	176 to Gum Gully Rd	240 Metres	Category F	Hilly terrain.	Single gate required at Gum Gully Road.		Medium vegetation to be removed from easement.
177	47	177 to 178	500 Metres	Category G Unformed Track	Hilly Terrain.	Single Gate.	Acknowledged and Agreed	Cross Banks to be Installed Where Necessary, Tree Removal (heavy)
	48	Gum Gully Rd to 177	1420 Metres	700m Category A(ii), 200m Category B, 520m Category F	Hilly terrain.	Cattle grid required. Single Gate required.	Acknowledged and Agreed	Medium Vegetation to be removed from easement, Bench installation required at Structure 177.
178	49	Gum Gully Rd to 178	1170 Metres	Category F	Hilly terrain	Single gate required	Acknowledged and Agreed	Construction access for structure 178 to be from Gum Gully Road.
179	49	178 to 179	340 Metres	Non formed track	Undulating terrain			Medium vegetation to be removed from easement. Access to follow ground contour.
180	49	179 to 180	460 Metres	280m Non formed, 180 Category A upgrade existing farm track.	Undulating terrain	Single gate required.		Isolated trees to be removed from easement (Light Veg). Access to follow ground contour.
	49	180 to Property Boundary	770	Category A Upgrade existing farm track. Existing causeway requires concrete dressing.	Undulating terrain	Single gate required.		Isolated trees to be removed from easement (Light Veg). Access along existing farm tracks.
181	50	Property Boundary to 181					Requirements Acknowledged - Not yet Finalised	Access not available.
182	50	182 to 183						Access not available
183	50	183 to 184						Access not available
184	50	184 to 185						Access not available
185	50	185 to Property Boundary						Access not available
	53	186 to Boundary Fence	360 Metres	320m Unformed Track, 100m Category F, Install Rock Creek Crossing 40m Category A(ii)	Undulating Terrain, Rocky Clay Base.	Two single gates required	Acknowledged and Agreed	Isolated trees to be removal from easement (Med Veg).
186	53	187 to 186	630 Metres	Non formed track	Undulating Terrain, Rocky Clay Base.	Double gates required.		Access to follow ground contour and existing fence lines.
187	53	188 to 187	360 Metres	320m Unformed Track, 40m Category A(ii) Upgrade Gate Approaches	Undulating Terrain, Rocky Clay Base.	Repair double gate at Goodima Road.		Tree Removal on Fence Line (Bad Vision When Entering Main Road), Tree Removal Required on Roadside (Med Veg).
188	53	Boundary Fence to 188	1640 Metres	850m Category B Unformed Track, 640m Non formed track, 50m Category F, 3 Contour Crossings 60m Category A(ii), Upgrade Creek Crossing 40 Metres with Concrete Pad	Undulating Terrain, Rocky Clay Base.	Double gates required.	Acknowledged and Agreed	Cross Banks to be Installed Where Necessary
189	50	189 to 190					Requirements Acknowledged - Not yet Finalised	Access not available
190	50	190 to Boundary Fence						Access not available
191	56	191 to Boundary Fence	400 Metres	Non formed track	Flat Terrain Rocky Clay Base.	Double gates required	Acknowledged and Agreed	Cross Banks to be Installed Where Necessary
191	56	192 to 191	425 Metres	Non formed track	Flat Terrain Rocky Clay Base.	Two single gates required.		Trees to be removed from easement (Light Veg). Access along easement.

Wollar - Wellington 330 kV Transmission Line: Access Track Log

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Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
192	56	193 to 192	460 Metres	Category B Non formed track.	Flat Terrain , Rocky Clay Base.	Double gates required.	Acknowledged and Agreed	Trees to be removed from easement (Heavy Veg). Access along the easement.
193	56	194 to 193	800 Metres	Category B Non formed track.	Undulating Terrain, Rocky Clay Base.	Two sets of double gates required.		Access via Gorrie's Lane track to follow ground contours and existing fence lines.
194	56	195 to 194	600 Metres	Category B Non formed track	Steep & Rocky Terrain , Shaley Clay Base.	Single gate required.		Trees to be removed from easement (Heavy Veg). Access to follow ground contour.
195	57	195 to Uamby Road	640 Metres	Category F Track Upgrade	Steep & Rocky Terrain , Shaley Base		Acknowledged and Agreed	Upgrade existing track
196	57	196 to 195	640 Metres	Category F Track Upgrade	Steep & Rocky Terrain , Shale Base.			Trees to be removed from easement area (Heavy Veg). Access to follow ground contour.
197	57	198 to 197	220 Metres	100m Non formed Track, 120m Category B	Undulating , Shaley Clay Base,			Telstra Cable Located On Tower Site Str 198
198	57	198 to 197	200 Metres	100m Non formed Track, 100m Category B	Undulating , Shaley Clay Base.			Trees to be removed from easement (Light Veg). Access from Uamby Lane.
199	59	199 to 200	640 Metres	Category F Non formed track. Rock crossings required.	Hilly Terrian.	Double gate required.	Requirements Acknowledged - Not yet Finalised	Tree removal from easement (Heavy Veg). Access to follow ground contour.
	59	Uamby Road to STR 199	400 Metres	Category F Non formed track.	Hilly Terrian.	Single gate required.		Tree removal from easement (Heavy Veg). Access to follow ground contour.
		Uamby Road to STR 201	1500 Metres	Category F	Hilly Terrian.	Four single gates required		Access to follow ground contour.
200	59	200 to 201	550 Metres	Category F Track Upgrade	Hilly Terrian.	Single gate required.	Acknowledged and Agreed	Tree removal from easement (Heavy Veg). Access to follow ground contour.
		Mt Molly to Uamby Lane Entrance	520 Metres	500m Category A (ii) , Concrete Causeway 20 Metres , Concrete Causeway 10 Metres	Steep & Rocky Terrain , Shaley Clay Base.	Two single gates required.	Acknowledged and Agreed	
201	58	201 to 202	800 Metres	Category F	Steep & Rocky Terrain , Shaley Clay Base.		Acknowledged and Agreed	Trees to be removed from easement. Bench required at structure 202.
202	58	202 to 203	1120 Metres	720m Category F, 400m Category B , Rock Crossing Required	Steep & Rocky Terrain , Shaley Clay Base			Trees to be removed from easement.
203	58	203 to 204	320 Metres	Category B	Steep & Rocky Terrain , Shaley Clay Base			Trees to be removed from easement.
204	58	204 to 205	880 Metres	520m Category A (ii) , 360m Category F	Steep & Rocky Terrain , Shaley Clay Base.			Trees to be removed from easement. Bench required at structure 205. Erosion control works required.
205	58	205 to 206	560 Metres	Category F	Steep & Rocky Terrain , Shaley Clay Base.			Trees to be removed from easement (Medium Veg).
206	58	206 to 207	460 Metres	Category F. Rock base creek crossing.	Steep & Rocky Terrain , Shaley Clay Base			Trees to be removed from easement (Medium Veg). Bench required at structure 207.
207	60	207 to 208	200 Metres	Category F. Rock base and armour creek crossing upgrade	Steep & Rocky Terrain , Shaley Clay Base		Acknowledged and Agreed	Trees to be removed from easement (Medium Veg).
208	60	208 to 209	920 Metres	200 metres of Category G, 720 Category F	Steep & Rocky Terrain , Shaley Clay Base			Heavily Timbered, clearing required. Bench required at structure 209.
209	60	209 to 210	200 Metres	Category F	Steep & Rocky Terrain , Shaley Clay Base	Single gate required.		Heavy timbered clearing required. Fence to be relocated around access track.
210	60	210 to 211	1350 Metres	Category F	Steep & Rocky Terrain , Shaley Clay Base			Scattered Timber to be cleared from easement (Light Veg).
211	60	211 to 212	500 Metres	Category A Existing Track	Undulating terrain.			Scattered timbered to be removed from easement. Existing track for 132kV transmission line.
212	61	213 to 212	450 Metres	200m Category A Existing Track, 250m Category B	Undulating terrain		Acknowledged and Agreed	Tree Removal,Safety Clearance for Crane when travelling under 132kV. Existing tracks for 132kV line.
213	61	214 to 213	470 Metres	320m Category A Existing Track, 150m Category B. Rock based creek crossing	Undulating terrain.			Safety Clearance for Crane when travelling under 132kV. Existing track for 132kV line.
214	61	215 to 214	400 Metres	Category A Existing Track				Tree Removal,Safety Clearance for Crane when travelling under 132kV. Existing tracks for 132kV line.
215	61	216 to 215	850 Metres	50m Category B gravel at gate entrance, 100m Category A(ii), 300m Category F, 400m Existing Track		2 Sets of Double Gates required		Tree Removal,Safety Clearance for Crane when travelling under 132kV. Existing tracks for 132kV line.
216	61	217 to 216	370 Metres	(120 Metres H same as 218 to 217) 250 Metres F				Existing access for 132kV line.
217	61	218 to 217	1270 Metres	350m Existing Track, 800m Category F, 120m Category H. 40m Category E swamp track to be installed.				Tree removal from easement (Scattered Veg). Existing tracks for 132kV line.
	61	218 to Twelve Mile Rd	1500 Metres	Upgrade creek crossing, 950m Existing Track, 350m Category B, 100m Category A (ii), 100m Category E, Two rock creek crossings		Double gates required for access from Twelve Mile Road.		Existing tracks for 132kV line.
218	61	219 to 218	500 Metres	Upgrade creek crossing, 100m Category F, 400m Category B				OK for finger boards, Tree removal from easement. Existing access for 132kV transmission line. Bench required at Structure 218
219	62	220 to 219	470 Metres	100m Existing Track, 150m Category E, 220m Category F			Acknowledged and Agreed	Kurrajong tree at lower base & other tree removal. Existing access for 132kV line.
220	62	221 to 220	460 Metres	60m Existing Track, 200m Category E, 200m Category F				Tree removal from easement area. Bench required at structure 221.
221	62	222 to 221	420 Metres	300m Existing Track, 120m Category F				Tree removal from easement. Existing access for 132kV line. Tower bench required at structure 222.
222	62	223 to 222	520 Metres	360m Existing Track, 160m Category B				OK for finger boards. Existing access for 132kV line.
223	62	223 to 224	520 Metres	120m Existing Track, 400m Category F				11kV undercrossing needs to be repositioned. Existing access for 132kV line.
223	63	223 to 224	400 Metres	Category F	Slightly sloping terrain		Acknowledged and Agreed	Timber to be removed from easement (Medium Veg). Existing access for 132kV line.
224	63	224 to 225	500 Metres	400m Category C, 100m Category F	Steep and rocky terrain.			Timber to be removed from easement (Heavy Veg). Bench required at structure 225. Existing access for 132kV line.
225	63	225 to 226	400 Metres	Category B	Slightly undulating	Two single gates required		Timber to be removed from easement (Light Veg). Existing access for 132kV line.
226	63	226 to 227	730 Metres	570m Category B, 160m Category A(ii)	Steep and rocky terrain.	Single gate required.		Timber to be removed from easement (Heavy Veg). Existing access for 132kV line.

Wollar - Wellington 330 kV Transmission Line: Access Track Log

Soils:	Sydney Basin Soils (Wollar to Ulan) - Dominated by Yellow and Red Podzolic
	Granite Soils (Ulan to Castlereagh Highway, Spicers Creek Road to Structure 257) - Dominated by Siliceous Sand
	Hill End Trough Soils (Castlereagh Highway to Spicers Creek Road)
	Molong Geanticline Soils (Structure 257 to Wellington Substation) - Dominated by Euchrozems

Category of Track:

Non Formed Generally involves driving along the transmission line easement or following a fence line in a open paddock.

- A Upgrading of existing tracks. This will generally involve widening, draining and resurfacing. The standard of the track is to be suitable for the purpose for which it was originally constructed. In some cases, it will be necessary to import material.
- B Tracks traversing flat plains country. These areas require grader formed tracks with the crown 300 mm above the natural ground surface and constructed with table drains on both sides;
- C Tracks traversing flat or gently undulating open or sparsely timbered and/or rocky areas;
- D Tracks traversing flat or gently timbered areas;
- E Tracks traversing swampy and/or unstable soil conditions. Tracks formed in these areas could require the removal of unstable soil and replacement with hard fill and/or geotextile fabric. In such cases, the track is to be topped with approved gravel with a compacted thickness of 50 mm, leaving the track 150 mm above natural ground level;
- F Tracks traversing heavily undulating sparsely timbered and/or rocky areas;
- G Tracks traversing heavily undulating timbered and/or rocky areas;
- H Tracks traversing rugged sloping timbered and/or rocky areas where the average natural grade of the slope is greater than 1:4 but less than 1:2;
- I Tracks traversing rugged steeply sloping areas involving large changes in elevation where the average natural grade of the slope is steeper than 1:2.

Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
	63	226 to Twelve Mile Rd	1.2Kms	600m Category B, 400m Category A(ii), 200m Existing Track	Steep and rocky terrain.	Alterations to gateway required. Double gates required.		Grey Gum requires Crown Reduction Underground Telstra Cable at Gateway. Existing access for 132kV line.
227	63	227 to 228	400 Metres	Category B	Steep and rocky terrain.	Single gate required.		100 Metres Heavy Vegetation to be removed from easement. Existing access for 132kV line.
228	63	228 to 229	850 Metres	830m Category C, 20m Category A(ii)	Rocky and undulating terrain.			200 Metres heavy vegetation to be removed from easement. Existing access for 132kV line.
229	63	229 to 230	420 Metres	Category A Existing Track	Undulating terrain	Repair existing gate.		Vegetation removal from easement. Existing access for 132kV line.
	63	229 to Twelve Mile Rd	600 Metres	Category A Existing Track	Undulating terrain	Single gate required		Existing access for 132kV line.
230	63	230 to 231	430 Metres	Non formed track	Undulating terrain			Vegetation removal from easement area. Access along easement. Existing access for 132kV line.
231	63	231 to 232	450 Metres	Non formed track.	Undulating terrain			Vegetation removal from easement area. Access along the easement. Existing access for 132kV line.
232	63	232 to 233	360 Metres	Non formed track	Undulating terrain			Vegetation removal from easement. Access along the easement. Existing access for 132kV line.
233	63	233 to 234	470 Metres	Non formed track	Undulating terrain			Access along easement. Existing access for 132kV line.
234	64	234 to 235	260 Metres	Non formed track	Flat to undulating. Granite Soil Conditions	New Gate Required	Requirements Acknowledged - Not yet Finalised	Tree Stumps to be removed from 132kV T/L
235	64	235 to 236	700 Metres	Unformed track, rock based creek crossing	Flat to undulating. Granite Soil Conditions			Cleared
236	64	236 to 237	1000 Metres	Unformed Track and Property Track.	Flat to undulating. Granite Soil Conditions			Cleared
237	64	237 to 238	420 Metres	Unformed Track	Flat to undulating. Granite Soil Conditions			Cleared
238	64	238 to 239	410 Metres	Unformed Track	Flat to undulating. Granite Soil Conditions	New Gate Required, Timber Posts.		Single tree to be removed
239	64	239 to 240	340 Metres	Unformed Track	Flat to undulating. Granite Soil Conditions	New Gate Required, Timber Posts.		Cleared
240	64	240 to 241	280 Metres	Unformed Track	Flat to undulating. Granite Soil Conditions			Vegetation Removal Required
241	64	241 to 242	390 Metres	Unformed Track and 200 metres Cat A	Flat to undulating. Granite Soil Conditions			Vegetation Removal Required and 2 existing stumps under 132 line., erosion control required for track.
242	64	242 to 243	430 Metres	180 m unformed track + 250 metres existing track.	Flat to undulating. Granite Soil Conditions			
243	65	244 to 243	580 Metres	Category B . Existing creek crossing	Undulating Granite Terrain.	One set of double gates required.	Acknowledged and Agreed	Creek Crossing OK ,Vegetation to be removed from easement. Existing access for 132kV line.
244	65	245 to 244	415 Metres	Category B	Undulating Granite Terrain			Vegetation removal from easement. Access along the easement. Existing access for 132kV line.
	65	Front Gate on Twelve Mile Road to 244	660 Metres	560m Existing Track, 100m Category A(ii) gravel required	Undulating Granite Terrain			Existing access for 132kV line.
245	65	246 to 245	400 Metres	400m Category B, Contour Bank Crossing A(i) Gravel	Undulating terrain. Crop Paddock	Double gates required.		Tree removal required from easement. Existing access for 132kV line.
246	66 & 75	246 to 247	630 Metres	580m Non formed track, 50m Category A (ii) Creek crossing upgrade	Granite Undulating Terrain	Double gates required	Acknowledged and Agreed	Ok to install finger boards. Kurrajong trees crown reduction only. Remove Eucalyptus trees and remove stump. Box trees to be cut up for fence post and firewood, stump to be removed.
247	66 & 75	247 to 248	1000 Metres	Non formed track	Rocky Terrain	Double gates required		Isolated tree mid span to be removed.
248	66 & 75	248 to 249	460 Metres	410m Unformed Track, 50m Category A(ii) Gravel required. Creek crossing upgrade.	Undulating Terrain.			Reminant vegetation to be removed from easement. Existing access for 132kV line.
	66 & 75	248 to Main Road	2.6 Km's	600m Category A, 200m Category A(ii) with gravel, 1800m Category C. Upgrade creek crossing.	Undulating Terrain.	Double gates required.		Access to Goolma Road.
249	66 & 75	249 to 250	450 Metres	Unformed Track	Crop Paddock.	Single gate required		Isolated trees to be removed from easement. Existing access for 132kV line.
250	66 & 75	250 to 251	690 Metres	640m Existing Track, 50m Category A(ii) with gravel. Creek crossing upgrade required.	Undulating terrain	Single gate required		Access to follow ground contour and existing farm tracks. Existing access for 132kV line.
251	66 & 75	251 to 252	600 Metres	Non formed track	Crop Paddock Undulating terrain	Single gate required.		Isolated tree to be removed from easement. Access to follow existing farm tracks and fence lines where possible. Existing access for 132kV line.
252	66 & 75	252 to 253	480 Metres	Non formed track	Crop Paddock. Undulating terrain.			Isolated trees to be removed from easement. Access to follow existing farm tracks and for 132kV line.
253	66 & 75	253 to 254	700 Metres	Non formed track.	Undulating Terrain	Double gates required		Access to follow existing farm tracks and access for 132kV line.
	66 & 75	253 to Homestead	1200 Metres	Existing Track	Flat Terrain			Vehicles to Drive to the Side of Airstrip.
254	66 & 75	254 to 255	710 Metres	360m Non formed track, 300m Category B, 50m Category E swamp track	Undulating terrain			Isolated trees to be removed from easement. Access to follow ground contour and access for 132kV line.
255	66 & 75	255 to 256	600 Metres	200m Category B Existing Track 400m Non formed track	Open Paddock			Access to follow ground contour and existing farm tracks.
256	66 & 75	256 to 257	800 Metres	Non formed track	Crop Paddock	Double gates to be installed at boundary fence.		Access to follow contour banks.
256	67	256 to 257	200 Metres	Category F. Upgrade creek crossing - rock based	Rocky Terrian, Slight Slope		Acknowledged and Agreed	Cross Banks to be Installed Where Necessary
257	67	257 to 258	400 Metres	Non formed track	Crop Paddock.	Single gate required at boundary fence.	Acknowledged and Agreed	Access along the easement.
257	65	257 to 258	130 Metres	Non formed track	Crop Paddock		Acknowledged and Agreed	Access along the easement.
258	65	258 to 259	400 Metres	360m Existing Track, 40m Category A(ii) with gravel.	Crop Paddock			Two contour bank crossings to be installed
	65	258 to Twelve Mile Road	2140 Metres	840m Existing Track, 1300m Category A(ii) with gravel	Hilly Terrain			Build up access track in low areas & install drains.
259	65	259 to 260	700 Metres	200m Existing Track, 500m Category C	Hilly Terrain	Single gate required		Scattered trees to be removed from easement (Light Veg). Access along existing farm tracks and access for 132kV line.

Wollar - Wellington 330 kV Transmission Line: Access Track Log

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	Hill End Trough Soils (Castlereagh Highway to Spicers Creek Road)
	Molong Geanticline Soils (Structure 257 to Wellington Substation) - Dominated by Euchrozems

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Structure No.	Property #	Span #	Track Length (m)	Category of Track / Crossings	Soil & Terrain Notes	Gate Requirements	Property Owner Requests	Comments
260	65	260 to 261	330 Metres	100m Category F , 230m Category B	Hilly terrain	Single gate required		Scattered trees to be removed from easement (Light Veg). Access along existing farm tracks and access for 132kV line.
261	65	261 to 262	560 Metres	350m Category F, 200m Category B , 10m Category A(ii) with gravel	Hilly Terrain	Single gate required.		Access to follow ground contour. Isolated trees to be removed from transmission line easement.
262	65	262 to 263	640 Metres	240m Non formed track, 400m Category B. Rock based creek crossing.	Steep Terrain			Scattered trees to be removed from easement (Light Veg). Light vehicle access only. Access track to follow ground contour.
263	65	263 to 264	240 Metres	Category B	Rocky Terrain	Double gate at Twelve Mile Road access.		Access from Twelve Mile Road.
263	77	263 to 264	160 Metres	Non formed track	Crop Paddock	Double gate at Twelve Mile Road access.	Acknowledged and Agreed	11 kV Undercrossing , OK to install Finger Boards , Isolated trees to be removed from easement. Access from Twelve Mile Road.
264	77	264 to 265	460 Metres	320m Unformed Track , 80m Category F , 60m Category A(ii) Upgrade creek crossing & gravel approaches	Crop Paddock to Steep Hill.	Single gate required at Structure 265.		Isolated trees to be removed from transmission line easement. Access to follow ground contour.
265	77	265 to 266	940 Metres	480m Category C , 300m Category B , 160m Category G	Hilly & Steep Terrain ,			Isolated trees to be removed from easement. Deep Cut on Bench Site at Str 266 Approximately 2 Metres Deep , Batters to be Top Soiled , Jute Mesh & Cold Tar to be Applied , Seed Restoration Required.
265	77	Twelve Mile Road to 265	900 Metres	740m Category C , 160m Category A(ii) with gravel	Hilly Terrain	Double gates required at Twelve Mile Road access.		Existing track to be upgraded.
266	77	266 to 267	650 Metres	Category F	Hilly & Steep Terrain.	Single gate required.		Isolated trees to be removed from transmission line easement.
267	77	267 to 268	220 Metres	Category F	Heavy Basalt , Hilly Terrain		Acknowledged and Agreed	Trees to be removed from transmission line easement (Heavy Veg).
268	77	268 to 269	580 Metres	Category F	Heavy Basalt , Hilly Terrain	Two single gate required		Trees to be removed from transmission line easement (Heavy Veg).
269	78	269 to 270	1240 Metres	640m Existing Track, 500m Category B , 100m Category F	One Single Gate , Heavy Basalt , Hilly Terrain , Bench Installation Str 269	Two single gates required.		Trees to be removed from transmission line easement (Heavy Veg). Existing Creek Crossing OK
270	78	270 to 271	480 Metres	400m Existing Track, 80m Category F	Heavy Basalt , Hilly Terrain.			Trees to be removed from transmission line easement (Heavy Veg) Bench to be installed at Structure 270.
271	78	Twelve Mile Road to 271	820 Metres	600m Existing Track, 180m Category F, 40m Category A(ii)	Heavy Basalt , Hilly Terrain	Single gate and double gate required.		Cover Water Pipes with Gravel , Vegetation Clear
271	74	272 to 271	640 Metres	Category F	Hilly Rocky Terrain.	Two single gates required.	Acknowledged and Agreed	Trees to be removed from transmission line easement (Medium Veg).
272	74	273 to 272	1060 Metres	Category F	Hilly Rocky Terrain , Two Sets Double Gates Required	Two sets of double gates required.		Trees to be removed from transmission line easement (Medium Veg). Bench required at structure 272.
273	74	274 to 273	520 Metres	Category F. Fix approach to creek crossing	Hilly Rocky Terrain.	Double gates required.		Trees to be removed from transmission line easement (Medium Veg).
274	74	275 to 274	380 Metres	Category B	Undulating terrain, Basalt soil			Trees to be removed from transmission line easement (Medium Veg).
275	74	Twelve Mile Road to 275	1250 Metres	650m Existing Track, 320m Category A(ii) , 20m Rock Crossing , 260m Category B	Undulating terrain, Basalt soil.	Four single gates required		Access along existing farm tracks.