

CRETS
Transport Strategy - Typical Cross Sections
Cost Estimate

Item	Description	Unit	Quantity	Rate \$	Amount \$
1.0	Section 1 Road Construction (4 Lane - Greenfields)				
1.1	Excavate Road and form new watertables	Cu.m	17.4	12.00	208.80
1.2	Supply, uplift, cart, spread, construct and trim subbasecourse to nom. 300 depth. Rate per cubic metre solid	Cu.m	8.5	30.00	255.00
1.3	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	7.85	42.00	329.70
1.4	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	4.45	72.00	320.40
1.5	Two coat chipseal (4/6) to new road edges	Sq.m	22	6.40	140.80
1.6	Pavement marking	m	1	1.20	1.20
1.7	Topsoiling watertables & sowing grass seed	Sq.m	18	9.60	172.80
1.8	Centre island rope barrier	m	2	102.00	204.00
1.9	Post and wire fence both sides including all hardware	m	2	18.00	36.00
Total Cost per metre run					1,668.70
2.0	Section 2 Road Construction (4 Lane - 11m existing seal)				
2.1	Undercut Road edges, excavate for centre island and form new watertables	Cu.m	15	12.00	180.00
2.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	4.2	42.00	176.40
2.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2.1	72.00	151.20
2.4	Two coat chipseal (4/6) to new road edges	Sq.m	14	6.40	89.60
2.5	Single coat seal to existing roadway	Sq.m	8	4.20	33.60
2.6	Pavement marking	m	1	1.20	1.20
2.7	Topsoiling watertables & sowing grass seed	Sq.m	17	9.60	163.20
2.8	Centre island wire rope barrier	m	2	102.00	204.00
2.10	Replace Existing Clear Fibre Optic Cable	m	1	275.00	275.00
2.11	Install 11kV line	m	1	275.00	275.00
2.12	Post and wire fence both sides including Gates and all hardware	m	2	18.00	36.00
Total Cost per metre run					1,077.60
3.0	Section 3 Road Construction (2 Lane - Greenfields)				
3.1	Excavate Road and form new watertables	Cu.m	10	12.00	120.00
3.2	Supply, uplift, cart, spread, construct and trim subbasecourse to nom. 300 depth. Rate per cubic metre solid	Cu.m	3.6	30.00	108.00
3.3	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	3.8	42.00	159.60
3.4	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2.45	72.00	176.40
3.5	Two coat chipseal (4/6) to new road	Sq.m	10	6.40	64.00
3.6	Pavement marking	m	1	1.20	1.20
3.7	Topsoiling watertables & sowing grass seed	Sq.m	12	9.60	115.20
3.8	Post and wire fence both sides including all hardware	m	2	18.00	36.00
Total Cost per metre run					780.40
4.0	Section 4 Road Construction (2 Lane - 8.2m existing seal - 10m new seal)				

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Item	Description	Unit	Quantity	Rate	\$	Amount	\$
4.1	Undercut Road edges and form new watertables	Cu.m	7.5	12.00		90.00	
4.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.7	42.00		71.40	
4.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.85	72.00		61.20	
4.4	Two coat chipseal (4/6) to new road edges	Sq.m	1.8	6.40		11.52	
4.5	Single coat seal to existing roadway	Sq.m	8.2	4.20		34.44	
4.6	Pavement marking	m	3	0.30		0.90	
4.7	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00		96.00	
Total Cost per metre run						365.46	
5.0	Section 5 Road Construction (2 Lane - 6.0m existing seal - 10m new seal)						
5.1	Undercut Road edges and form new watertables	Cu.m	8.3	12.00		99.60	
5.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2.25	42.00		94.50	
5.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.25	72.00		90.00	
5.4	Two coat chipseal (4/6) to new road edges	Sq.m	4	6.40		25.60	
5.5	Single coat seal to existing roadway	Sq.m	6	4.20		25.20	
5.6	Pavement marking	m	3	0.30		0.90	
5.7	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00		96.00	
Total Cost per metre run						431.80	
6.0	Section 6 Not Used						
7.1	Section 7 Lowes Road existing=9 widen=14						
7.1.1	Undercut Road edges	Cu.m	2.5	12.00		30.00	
7.1.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.4	42.00		58.80	
7.1.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2	72.00		144.00	
7.1.4	Two coat chipseal (4/6) to new road edges	Sq.m	9.5	6.40		60.80	
7.1.5	Pavement marking	m	2	0.30		0.60	
7.1.6	New Kerb and Channel	m	1	55.00		55.00	
7.1.7	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	1.5	42.00		63.00	
Total Cost per metre run						412.20	
7.2	Section 7 Lowes Road existing=6.5 widen=14						
7.2.1	Undercut Road edges	Cu.m	3.9	12.00		46.80	

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Item	Description	Unit	Quantity	Rate \$	Amount \$
7.2.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2.1	42.00	88.20
7.2.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.75	72.00	126.00
7.2.4	Two coat chipseal (4/6) to new road edges	Sq.m	7.5	6.40	48.00
7.2.5	Pavement marking	m	3	0.30	0.90
7.2.6	New Kerb and Channel	m	2	55.00	110.00
7.2.7	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	3	42.00	126.00
7.2.8	Undergrounding of overhead cables	Lin.m	1	70.00	70.00
7.2.9	New Streetlighting	Lin.m	1	55.00	55.00
Total Cost per metre run					670.90
7.3	Section 7 Rolleston Drive Nth existing=12 widen=16.0				
7.3.1	Undercut Road edges	Cu.m	4.1	12.00	49.20
7.3.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	2.25	42.00	94.50
7.3.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.93	72.00	66.96
7.3.4	Two coat chipseal (4/6) to new road edges	Sq.m	4	6.40	25.60
7.3.5	Pavement marking	m	3	0.30	0.90
7.3.6	Remove Kerb and Channel	m	1	20.00	20.00
7.3.7	New Kerb and Channel	m	1	55.00	55.00
7.3.8	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	0	42.00	-
7.3.9	Relocate existing post and wire fence	m	1	10.00	10.00
7.3.10	Relocate existing streetlighting	Lin.m	1	10.00	10.00
Total Cost per metre run					332.16
7.4	Section 7 Rolleston Drive existing=13 widen=16.0				
7.4.1	Undercut Road edges	Cu.m	1.8	12.00	21.60
7.4.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1	42.00	42.00
7.4.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.8	72.00	57.60
7.4.4	Two coat chipseal (4/6) to new road edges	Sq.m	3	6.40	19.20
7.4.5	Pavement marking	m	3	0.30	0.90
7.4.6	Remove Kerb and Channel	m	2	20.00	40.00
7.4.7	New Kerb and Channel	m	2	55.00	110.00
7.4.8	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	3	42.00	126.00
7.4.9	Relocate existing post and wire fence	m	1	10.00	10.00
7.4.10	Relocate existing streetlighting	Lin.m	1	10.00	10.00
Total Cost per metre run					437.30
7.5	Section 7 New Road Construction Rolleston (Greenfields 14m wide)				
7.5.1	Excavate Road	Cu.m	6.8	12.00	81.60

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Item	Description	Unit	Quantity	Rate \$	Amount \$
7.5.2	Supply, uplift, cart, spread, construct and trim subbasecourse to nom. 300 depth. Rate per cubic metre solid	Cu.m	4.5	30.00	135.00
7.5.3	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	3.75	42.00	157.50
7.5.4	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	3	72.00	216.00
7.5.5	Two coat chipseal (4/6) to new road	Sq.m	14	6.40	89.60
7.5.6	Pavement marking	m	3	1.20	3.60
7.5.7	New Kerb and Channel	m	2	55.00	110.00
7.5.8	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	3	42.00	126.00
7.5.9	New Streetlighting	Lin.m	1	25.00	25.00
Total Cost per metre run					944.30
8.1	Section 8 Jones Road and Hoskyns Road existing=6.5 widen=10				
8.1.1	Undercut Road edges and form new watertables	Cu.m	7.5	12.00	90.00
8.1.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.85	42.00	77.70
8.1.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.94	72.00	67.68
8.1.4	Two coat chipseal (4/6) to new road edges	Sq.m	3.5	6.40	22.40
8.1.5	Pavement marking	m	3	0.30	0.90
8.1.6	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00	96.00
Total Cost per metre run					354.68
8.2	Section 8 Weedons Road existing=5.7 widen=10				
8.2.1	Undercut Road edges and form new watertables	Cu.m	4.4	12.00	52.80
8.2.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.94	42.00	81.48
8.2.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.1	72.00	79.20
8.2.4	Two coat chipseal (4/6) to new road edges	Sq.m	4.3	6.40	27.52
8.2.5	Pavement marking	m	3	0.30	0.90
8.2.6	Topsoiling watertables & sowing grass seed	Sq.m	4	8.00	32.00
Total Cost per metre run					273.90
8.3	Section 8 Levi Road existing=6.8 widen=10				
8.3.1	Undercut Road edges	Cu.m	1.7	12.00	20.40
8.3.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.93	42.00	39.06
8.3.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.75	72.00	54.00
8.3.4	Two coat chipseal (4/6) to new road edges	Sq.m	3.2	6.40	20.48
8.3.5	Pavement marking	m	2	0.30	0.60
8.3.6	New Kerb and Channel	m	1	55.00	55.00
8.3.7	New Footpath 1.5m wide with 25mm AC on 50mm M/4 on 100 AP65 with 75x25 H4 timber edging with 75x25 stakes @ 900 crs.	Sq.m	1.5	42.00	63.00
Total Cost per metre run					252.54
8.4	Section 8 Dunns Crossing Road existing=6.5 widen=8.5				
8.4.1	Undercut Road edges and form new watertables	Cu.m	6.9	12.00	82.80

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Item	Description	Unit	Quantity	Rate \$	Amount \$
8.4.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.45	42.00	60.90
8.4.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.66	72.00	47.52
8.4.4	Two coat chipseal (4/6) to new road edges	Sq.m	2	6.40	12.80
8.4.5	Pavement marking	m	3	0.30	0.90
8.4.6	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00	96.00
Total Cost per metre run					300.92
8.5	Section 8 Walkers Road existing=5.5 widen=7.0				
8.5.1	Undercut Road edges and form new watertables	Cu.m	6.7	12.00	80.40
8.5.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.65	42.00	27.30
8.5.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.27	72.00	19.44
8.5.4	Two coat chipseal (4/6) to new road edges	Sq.m	1.5	6.40	9.60
8.5.5	Pavement marking	m	3	0.30	0.90
8.5.6	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00	96.00
Total Cost per metre run					233.64
9.0	Section 9 Road Construction (2 Lane - 5.8m existing seal - 8.5m new seal)				
9.1	Undercut Road edges and form new watertables	Cu.m	7.85	12.00	94.20
9.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.925	42.00	80.85
9.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	1.12	72.00	80.64
9.4	Two coat chipseal (4/6) to new road edges	Sq.m	2.7	6.40	17.28
9.5	Single coat seal to existing roadway	Sq.m	5.8	4.20	24.36
9.6	Pavement marking	m	3	0.30	0.90
9.7	Topsoiling watertables & sowing grass seed	Sq.m	12	8.00	96.00
Total Cost per metre run					394.23
10.0	Section 10 Hoskyns Road existing = 5.8 widen = 7.0				
10.1	Undercut Road edges and form new watertables	Cu.m	1.45	12.00	17.40
10.2	Supply, uplift, cart, spread, construct and trim AP 65 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.73	42.00	30.66
10.3	Supply, uplift, cart and spread, construct and trim M/4 AP 20 basecourse to varying depths. Rate per cubic metre solid	Cu.m	0.18	72.00	12.96
10.4	Two coat chipseal (4/6) to new road edges	Sq.m	1.2	6.40	7.68
10.5	Pavement marking	m	3	0.30	0.90
10.6	Topsoiling watertables & sowing grass seed	Sq.m	5.5	8.00	44.00
Total Cost per metre run					113.60
11.0	Full Diamond Interchange	LS	1	6000000	6,000,000.00
12.0	Large Diameter Roundabout	LS	1	1200000	1,200,000.00
13.0	Existing Roads over. Depress Main includes bridge, Embankment and Cutting	LS	1	2160000	2,160,000.00
14.0	Traffic Signals 4 Lane	LS	1	240000	240,000.00
15.0	Existing Roads Left in Left out	LS	1	90000	90,000.00
16.0	Existing Roads Priority	LS	1	70000	70,000.00
17.0	Rebuild existing Intersection	LS	1	120000	120,000.00