

Indicative rates for civils and services infrastructure

	unit	cost range £
Roads		
Two lane road 7.3 m wide, rural location	m	1,050–1,300
Extra for: features (total cost of features / m of motorway)	item	550
Two lane road 7.3 m wide, urban link road	m	1,600–2,100
Extra for: features (total cost of features / m of motorway)	item	720
Four lane road, dual carriageway, 25.6 m wide overall, rural location	m	1,500–1850
Extra for: features (total cost of features / m of motorway)	item	1150
Four lane road, dual carriageway, 23.1 m wide overall, urban location	m	1500–1900
Extra for: features (total cost of features / m of motorway)	item	2450
NB: Costs are based on normal ground conditions and include all earthworks, drainage, pavements, lighting, signs, fencing and safety barriers (where necessary). The maximum depth of cut assumed is 1 m. Costs of features represent average cost per metre of all roadway features. Costs of features such as; interchanges, side roads, bridges and so on.		

Civil structures

Road bridge: insitu concrete		
15 m maximum span between abutments	m ²	1200–1300
20 m maximum span between abutments	m ²	1100–1200
Road bridge: in-situ concrete with precast concrete beams		
12 m maximum span between abutments	m ²	1250–1350
17 m maximum span between abutments	m ²	1200–1250
27 m maximum span between abutments	m ²	1100–1200
Road bridge: insitu concrete with prefabricated steel beams		
20 m maximum span between abutments	m ²	1200–1300
40 m maximum span between abutments	m ²	1100–1200
Footbridge: insitu concrete with precast concrete beams		
10 m maximum span between abutments	m ²	1000–1050
20 m maximum span between abutments	m ²	1050–1100
Extra over cost of features constructed as part of the road construction programme:		
Pedestrian underpass: 3 m × 2.5 m high	m	3500–4200
Vehicle underpass: 7 m × 5 m high	m	17,500–21,200

Road crossings and signage

Roundabout, traffic signal controlled	item	40,000–65,000
Four way traffic signal installation	item	40,000–55,500
Zebra crossing	item	4,500–5,000
Pelican crossing	item	17,250–18,500
(For both crossing types costs include road markings, beacons, luminaires and signs)		
Traffic signage: reflective	item	100–200
Traffic signage: internally illuminated	item	200–300
Traffic signage: externally illuminated	item	450–1300
Pedestrian crossing LED, recessed in ground includes installation in ground – excavation, forming recess, backfill and so on	item	750–830

Car parking

Surface car parking (20–23 m ² /car)	m ²	55–80
Surface car parking: landscaped (20–25 m ² /car)	m ²	65–130
Grade and upper level car parking (23–32 m ² /car)	m ²	200–320
Multistorey flat slab (24–32 m ² /car)	m ²	300–600
Semi basement with natural ventilation (24–32 m ² /car)	m ²	500–750

Ground remediation

Removal: non-hazardous	m ³	80–150
Removal: hazardous	m ³	135–365
Clean cover: 500 mm depth	m ²	25–60
On-site encapsulation (rate based on volume of material)	m ³	30–95
Bio-remediation (rate based on mass of treated material)	t	35–100
Soil washing (rate based on mass of treated material)	t	50–100
Soil flushing (rate based on mass of treated material)	t	70–130
Vacuum extraction (rate based on mass of treated material)	t	60–130
Thermal treatment (rate based on mass of treated material)	t	900–1,500

Ground stabilisation and site levelling

Erosion control mat: topsoil	m ²	6–8
Revetment: stone filled mattress gabions, 1 m thick	m ²	85–120
Retaining wall: timber cribwall	m ²	130–250
Retaining wall: precast concrete cribwall	m ²	240–275
Retaining wall: precast concrete; complete	m ²	310–350
Retaining wall: insitu concrete; complete	m ²	330–420
Filling to make of levels: material retained on site	m ³	3–5
Excavation to revised formation level: disposal of material off site, London	m ³	30–45
Excavation to revised formation level; as above, rest of UK	m ³	15–27

Land drainage

Land drain: 150 mm dia, depth to invert 450–600 mm	m	15–20
Land drain: 150 mm dia, depth to invert 450–600 mm, Dispose surplus off site	m	20–25
Sump for land drain: depth to 1.2m	item	650–675

Below-ground drainage: Highways

Average rate for drainage including trench, pipework and accessories	m	120–190
Manholes installation complete, rate based on 2 m depth	item	1,000–1,800

Below-ground drainage: Public realm

Average rate for drainage including trench, pipework and drainage channels	m	200–325
Polypropylene inspection chambers: Granular bed & surround, 475 mm dia, average depth 1000 m	item	350–400
Drainage channel: ACO type, PD100 including cover, Class C	m	70–100
Drainage Channel: ACO type, PD100 sump Class C	item	140–160

Below-ground services: Trench rates

600 mm drain, average depth to inv 1900, granular bed and surround, granular backfill, dispose surplus off site	m	130–150
450 mm drain, average depth to inv 1520 granular bed and surround, granular backfill, dispose surplus off site	m	80–100
300 mm drain, average depth to inv 1200, granular bed and surround, granular backfill, dispose surplus off site	m	50–70

Water main

PVCu water main: 75 mm; in 150 mm cast-iron pipe as duct	m	50–90
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Electric main

600/1000 volt cable, 100 mm clayware duct; granular bed and surround	m	31–37
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On site LV distribution

Armoured LV cable in trench: 3 core 2.5mm cable; trench backfilled with excavated material	m	10–17
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Gas main

MDPE pipe: 15 mm; on granular bed and surround	m	50–65
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Telecommunications

PVCu duct: 4 × 100mm; on granular bed and surround; backfill with excavated material; marker tape	m	22–40
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High-voltage electricity

11 kV overhead power lines (cost per run)	km	30,000–40,000
11 kV underground power lines (cost per run)	km	95,000–105,000