

Naenae Station Upgrade (Contract 222917/01)

All earthworks volumes are insitu measure

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Preliminary and General				
2	Preliminary and General. Amount to include establishment, access, traffic control, safety, programme, temporary works, setting out, permit fees and insurances, project administration, security fencing and hoardings, temporary fencing, establishment, project management, as built records, prevention of contamination of track and ballast and tidy up.	LS	1	\$ 65,735.00	\$ 65,735.00
3	Site security. Provide a security guard onsite at all times when construction staff are absent throughout the construction period.	hr	1200	\$ 29.70	\$ 35,640.00
4	Installation and removal of temporary track crossings at either end of the platform. Crossing to comprise a Bidim A44 geotextile or equivalent, ballast and AP20 topcourse. Crossing to allow trains to pass. Provide for removal on completion of the works.	ea	2	\$ 1,620.00	\$ 3,240.00
5					
6	Demolition				
7	Detect and mark out existing services within the platform and isolate electrical services. Existing services to be protected and maintained unless indicated as to be abandoned on the drawings or advised by the Engineer.	LS	1	\$ 810.00	\$ 810.00
8	Remove existing CCTV cameras and equipment and retain for reinstallation by others	LS	1	\$ -	\$ -
9	Demolish existing station building and dispose of materials offsite.	LS	1	\$ 25,920.00	\$ 25,920.00
10	Demolish subway and stair roof to allow installation of new stairway.	LS	1	\$ 19,764.00	\$ 19,764.00
11				\$ -	\$ -
12	Shelter Structure			\$ -	\$ -
13	Pile foundations including floor slab for room.	LS	1	\$ 28,077.49	\$ 28,077.49
14	Construct new shelter structure as per drawings. Railway sleepers will be a principal supplied item, allow for collection from Wellington Railway and processing for inclusion on the building.	LS	1	\$ 209,861.51	\$ 209,861.51
15	Platform surface under the roof area to architects specification excl slab for room.	LS	1	\$ 17,219.56	\$ 17,219.56
16	Grind and seal the existing foundation slab outside of the new shelter footprint. Slab to remain as a site feature.	LS	1	\$ 5,734.80	\$ 5,734.80
17					
18	Subway Modifications				
19	Modify subway structure as per drawings S01-01 and S03-01. Include for stairs, surfacing, balustrade, handrails, modification to sump room access, painting.	LS	1	\$ 53,127.58	\$ 53,127.58
20	Frontage Remedial Woks				
21	Dowel frontage with 3 x D20 bars per 6m panel at 750mm centres where frontage has cracked horizontally. Include for 50mm dia core drill to 850mm depth, D20 bar and approved grout. Dowels are to be installed to thickening of precast units where recessed cavity in back of unit is not present, at the ends and centre.	ea	9	\$ 322.85	\$ 2,905.63
22	Cast new 300mm by 300mm concrete capping beam behind existing down frontage as detailed in drawing in C-006. Include for excavation, disposal, concrete, reinforcing and reid bar threaded anchors.	m	155	\$ 102.95	\$ 15,957.70
23	Supply and install deadmen anchors and reid bar connection to concrete beam on down platform to restrain frontages as detailed in drawing C-006. Railway sleepers will be a principal supplied item with the contractor to allow to pickup and deliver to site from the Wellington Railyards.	ea	33	\$ 508.46	\$ 16,779.07
24	Cast new 500mm by 400mm concrete capping beam behind existing down frontage over subway roof as detailed in drawing C-006. Include for excavation, disposal, concrete, reinforcing and reid bar threaded anchors.	m	15	\$ 228.11	\$ 3,421.71

25								
26	Platform Shaping and Surfacing							
27	Remove existing asphalt layer and dispose offsite	m ²	1775	\$	4.38	\$	7,783.02	
28	Excavate platform to create falls to drains. Dispose of material offsite	m ³	150	\$	79.92	\$	11,988.00	
29	Excavate 100mm layer of platform surface and dispose of offsite	m ³	180	\$	85.32	\$	15,357.60	
30	Supply and lay 100mm AP40 over platform surface. Include for compaction	m ³	1880	\$	12.96	\$	24,364.80	
31	Supply and lay 25mm NZTA M/10 Mix 6 asphaltic concrete surfacing on platform and end ramps.	m ²	1880	\$	30.46	\$	57,257.28	
32	Supply and place 100x 25 H5 RS timber edging for asphalt at base of end ramps.	m	25	\$	21.60	\$	540.00	
33	Remove and retain existing station name signs. Signs to be transported to location indicated by GWRC for storage.	ea	2	\$	648.00	\$	1,296.00	
34	Install new client-supplied pole-mounted signs	ea	8	\$	540.00	\$	4,320.00	
35								
36	Platform Lighting							
37	Remove and reinstall existing 6m ground planted Spunlite poles and light fittings. Allow for safe storage onsite and reinstatement with new foundation and temporary lighting .	ea	6	\$	594.00	\$	3,564.00	
38	Supply and install 6m ground planted Spunlite square 110x110 pole. Light fitting covered in electrical schedule.	ea	1	\$	2,450.15	\$	2,450.15	
39	Install 50mm heavy duty conduit for lighting 700mm deep in trench with 100mm ducts (item 4.01). Include for detector tape.	m	55	\$	42.45	\$	2,334.78	
40	Install 50mm heavy duty conduit for lighting in separate trench. Included for trenching, laying, detector tape, ducting and backfill.	m	85	\$	66.21	\$	5,627.99	
41	Install 2 x 50mm heavy duty conduit for lighting in separate trench. Included for trenching, laying, detector tape, ducting and backfill.	m	30	\$	86.90	\$	2,606.90	
42	Supply and pull 2 x 4.0sqmm PVC/PVC + NS cable through laid ducts.	m	170	\$	8.58	\$	1,457.78	
43								
44	Electrical Schedule							
45	Add subtotal for Electrical items from separate schedule							
46								
47	Platform Edge Treatment							
48	Apply a nominal 5mm layer (450mm wide) of Duracon or similar approved non-slip epoxy coating to top surface of platform frontage (including ramps). Include for surface prep. Coating must comply with coating specification (refer contract specification)	m	350	\$	82.62	\$	28,917.00	
49	Apply a train stop numbering with a nominal 5mm layer (450mm wide) of Duracon or similar approved non-slip epoxy coating to top surface of platform frontage. Include for surface prep. Coating must comply with coating specification (refer contract specification). White numbers on a black background. Allow for cateye marker.	ea	8	\$	155.52	\$	1,244.16	
50	Paint "WAIT BEHIND THIS LINE UNTIL TRAIN HAS STOPPED" in 100mm high yellow letters at 10m intervals immediately behind tactile studs.	ea	32	\$	41.04	\$	1,313.28	
51	Supply and install tactile stud hazard indicators along length of platforms and at top of stairways. Studs to be interference fit, spaced 50mm apart and 600mm wide epoxied into asphalt	m	390	\$	145.69	\$	56,819.88	
52	Supply and install tactile stud hazard indicators along bottom of stairs. Studs to be interference fit, spaced 50mm apart and 600mm wide epoxied into concrete	m	10	\$	145.69	\$	1,456.92	
53	Supply and install tactile stud directional indicators across the platform. Studs to be interference fit, spaced 50mm apart and 600mm wide epoxied into asphalt	m	15	\$	145.69	\$	2,185.38	

54									
55	Ducted Services								
56	Supply and lay 'KiwiRail' 1200L x 600W cable duct pits complete with Sika Class D Security Access Cover Set. Allow for excavation, supply, placement, backfill, sealing around duct penetrations and tidy finishing in accordance with KiwiRail Spec E1315.	ea	3	\$	4,860.00	\$	14,580.00		
57	Supply and lay 3 x 100mm uPVC SN6 cable ducts between duct pits . Ducting to be installed as per KiwiRail Spec E1315. Ducting to be inspected by KiwiRail prior to platform sealing.	m	190	\$	162.00	\$	30,780.00		
58	Supply and lay 4 x 100mm uPVC SN6 cable ducts between central duct pit and the shelter electrical room cables to penetrate through the floor slab . Ducting to be installed as per KiwiRail Spec E1315. Ducting to be inspected by KiwiRail prior to platform sealing.	m	4	\$	172.80	\$	691.20		
59	Supply and lay 600L x 600W cable duct pits for electrical supply complete with Sika Class D Security Access Cover Set. Allow for excavation, supply, placement, backfill, sealing around duct penetrations and tidy finishing in accordance with KiwiRail Spec E1315.	ea	2	\$	2,970.00	\$	5,940.00		
60	Re-lay power supply from platform entry point to shelter electrical room. Include for excavation, cable,connections, uPVC SN6 conduit 700mm deep in trench, detector tape and backfill.	m	45	\$	238.00	\$	10,709.98		
61									
62	Stormwater								
63	Supply and install trapped 900mm dia manhole. Include for excavation, supply and placement, backfilling, sealing, benching, lead connection, bends, junctions and caps.	ea	1	\$	2,268.00	\$	2,268.00		
64	Supply and install 900mm dia manhole. Include for excavation, supply and placement, backfilling, sealing, benching, lead connection, bends, junctions and caps.	ea	4	\$	1,944.00	\$	7,776.00		
65	Supply and install precast yard sump. Include for excavation, supply and placement, backfilling, grate and lead connection.	ea	4	\$	1,296.00	\$	5,184.00		
66	Supply and install 225mm uPVC SN16 stormwater pipe within the platform. Include for trenching, laying, backfill and connection to sumps and manholes	m	160	\$	248.40	\$	39,744.00		
67	Supply and install 225mm uPVC SN16 stormwater pipe with concrete cap within platform as per C-007. Include for trenching, laying, backfill, concrete and connection to sumps and manholes	m	9	\$	280.80	\$	2,527.20		
68	Supply and install 150mm uPVC SN16 stormwater pipe within platform. Include for trenching, laying, backfill and connection to sumps and manholes	m	55	\$	172.80	\$	9,504.00		
69	Construct concrete dish channel 500mm wide as per C-007	m	70	\$	75.60	\$	5,292.00		
70	Connect 225mm uPVC SN16 pipe to existing HCC sump at south end, including capping of existing pipework to be abandoned	LS	1	\$	864.00	\$	864.00		
71									
72	Furniture and Misc								
73	Supply and install Metshelter 'Palliser' perforated steel seating with 4 individual seats and backrests. Allow for supply, foundation and fixing.	ea	4	\$	2,667.60	\$	10,670.40		
74	Supply and install Metshelter 'Palliser' hardwood seating with 4 individual seats and backrests. Allow for supply, foundation and fixing.	ea	4	\$	3,353.40	\$	13,413.60		
75	Provide a water hose tap connection to the subway sump room. Allow for location of existing water supply, connection, 20m of 32OD PE pipe, coring, trenching, backfilling and tapware.	LS	1	\$	1,944.00	\$	1,944.00		
76									
77	Provisional Items								
78	Construct new concrete foundation for station name signs and install signs.	ea	2	\$	540.00	\$	1,080.00		
79	Provide ITD-R staff to protect site outside of CSB hours(if available)	hr	150	\$	75.00	\$	11,250.00		

80	Crack repair at isolated locations along platform frontage.	PS	1	\$	20,000.00	\$	20,000.00
81	Fill voids in existing building slab with site concrete	PS	1	\$	5,000.00	\$	5,000.00
82	Supply and place half round galvanised gutter to direct subway leakage to edge drains	PS	1	\$	1,500.00	\$	1,500.00
83	Lay new 110OD PE duct under tracks on Up Main from new 600 x 600 cable pit, to penetrate through the floor slab of the shelter electrical room.	m	11	\$	648.00	\$	7,128.00
84	Contingency						
85	Contingency. To be expended only on written instruction of the Engineer.	LS	1	\$	-	\$	100,000.00
TOTAL							\$ 1,044,925.37

NB - A separate schedule of day works for plant and labour associated with provisional items work is to be submitted with tender documents.

Naenae Station Upgrade (Contract 222917/01)
Electrical Works

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	DISTRIBUTION BOARD				
	Distribution Board complete with automatic external lighting control contactors and auto-off-manual by-pass switch	1	set	\$ 3,905.00	\$ 3,905.00
3					
4	LIGHT FITTINGS				
5	Continuous aluminium extrusion Light fitting:				
6	Option 1: With LED Light Source	49	m	\$ 813.77	\$ 39,674.70
7	Option 2: With 1x35W T5 light source, electronic ballast	49	m	\$ 645.70	\$ 31,639.32
8	F3 - 2x35 fluorescent batten with electronic controlgear light fitting	2	ea	\$ 159.66	\$ 319.32
9	F3 - 2x35 fluorescent batten with steel reflector and electronic controlgear light fitting	2	ea	\$ 192.90	\$ 365.79
	F3E - 2x35 fluorescent batten with steel reflector, electronic controlgear and battery for 1.5hours maintained emergency light fitting	1	ea	\$ 376.06	\$ 376.06
11	F4 - 150W pole-mounted metal halide floodlight	1	ea	\$ 1,045.00	\$ 2,090.00
12					
13	CONDUITS and CABLE TRAY				
14	100mm. Diameter PVC conduit	100	L/M	\$ 11.25	\$ 1,125.00
15	50mm. Diameter PVC conduit	90	L/M	\$ 8.46	\$ 761.75
16	20mm. Diameter PVC conduit	30	L/M	\$ 12.84	\$ 365.13
17	300mm Cable Tray	5	L/M	\$ 73.30	\$ 366.50
18	CABLES				
19	1x4C 25sq.mm. XLPE/PVC	100	L/M	\$ 29.66	\$ 2,967.50
20	1x2C+E 10sq.mm. TPS	90	L/M	\$ 10.07	\$ 906.36
21	1x2C+E 4sq.mm. TPS	30	L/M	\$ 7.94	\$ 238.13
22	1x2C+E 2.5sq.mm. TPS	50	L/M	\$ 4.06	\$ 243.75
23	1x2C+E 1.5sq.mm. TPS	30	L/M	\$ 6.25	\$ 167.50
24	4-pair, Cat.6A UTP	50	L/M	\$ 3.65	\$ 192.50
25					
26	OUTLETS				
27	PIR wall-mounted automatic switch	1	ea	\$ 203.23	\$ 203.23
28	Double switch socket outlet	4	ea	\$ 46.20	\$ 192.80
29					
30	ISOLATORS				
31	20A, 1P, IP65 isolator	1	ea	\$ 97.94	\$ 97.94
32	20A, 1P, isolator	1	ea	\$ 83.36	\$ 83.36
33					
34	SWITCHES				
35	6m "Spunlite" lighting pole	1	ea	\$ 1,610.66	\$ 1,610.66
36	Daylight sensor switch	1	ea	\$ 194.36	\$ 194.36
37	PIR motion sensor wall switch	1	ea	\$ 265.00	\$ 265.00
38					
42	EARTHING SYSTEM				
43	Copper earth rod and inspection pit	1	set	\$ 537.50	\$ 537.50
44	1x1C 70sq.mm. PVC/PVC	20	l/m	\$ 32.44	\$ 648.75
45					
46	COMMS SERVICES				
47	100mm. Diameter PVC conduit	10	L/M	\$ 23.50	\$ 235.00
48	Double Cat. 6A RJ45 data outlet	4	ea	\$ 62.50	\$ 250.00
49	Comms Distribution Box complete with terminal block	1	set	\$ 285.00	\$ 285.00
				Option 1	\$ 58,916.63
				Option 2	\$ 50,681.24

2 Shown on plan 14 Week lead time

Naenae Station Upgrade (Contract 222917/01)

Unit Rates

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Supply and place AP40 hardfill	m ³	10	\$ 92.40	
2	Supply and place AP65 hardfill	m ³	10	\$ 86.90	
3	Supply and place 20MPa concrete	m ³	5	\$ 242.00	
4	Supply and place 7-14mm pea metal	m ³	10	\$ 85.80	
5	Excavate material and stockpile on site for reuse	m ³	10	\$ 22.00	
6	Excavate excess material and dispose of at a suitable location offsite.	m ³	10	\$ 52.80	
7	Excavation of hard rock as defined in the Contract Documents	m ³	10	\$ 110.00	
8	Backfill with stockpiled material	m ³	10	\$ 52.80	
9	Supply 12T excavator and operator	hr	1	\$ 132.00	
10	Supply 20T excavator and operator	hr	1	\$ 159.50	
11	Supply 6T truck and driver 10T	hr	1	\$ 132.00	
12	Labourer	hr	1	\$ 49.50	
13	Site Foreman	hr	1	\$ 71.50	