

Indicative Cost Options

for

**Hertfordshire County
Council**

for

**South West Herts
Secondary School
Site Access**

8 February 2012
LN23840

rlf | CONSTRUCTION
AND PROPERTY
CONSULTANTS
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1.0 INTRODUCTION

- 1.1 We received an instruction from Duncan Stoten of Stomor Civil Engineering Consultants on 26 January 2012 to provide indicative budgets for comparison purposes in respect of access to proposed school sites including associated highway works.

2.0 BASIS OF INDICATIVE BUDGETS

- 2.1 Information provided by Stomor is covered by the following drawings: ST-2123/114 , 115, 118, 126, 127, 128 and 129
- 2.2 The base date for the budget is February 2012.
- 2.3 The budgets are indicative and reflect the early stage information available. It is recommended that the budgets are refined as the design develops.
- 2.4 The cost of lowering, relocating or diverting Statutory Utility services is excluded from the budgets as are fees associated with supervising the Stats works. A provisional allowance has been included for work in connection. Budgets are obtainable from Statutory Utilities but they would require a fee for assisting with the work. There is a high cost risk associated with this item.
- 2.5 An allowance of up to 20% for detailed design, site supervision and CDMC has been included.
- 2.6 The budget includes general allowances for the relocation of bus shelters and signage.
- 2.6 The budget includes general allowances for surface water drainage.
- 2.7 Value added tax has been excluded from the budget.

3.0 SUMMARY OF OPTIONS

3.1 The indicative budgets for the defined options are set out below. As instructed the 'Overlay' figures have been separated.

<u>Option</u>	<u>Base works</u>	<u>Overlay option</u>	<u>Total £</u>
S (a)	142,000	37,000	179,000
S (b) -1	59,000	30,000	89,000
S (b) -2	742,000	0	742,000
S (c)	215,000	18,000	233,000

Please refer to paragraph 2.4 above in respect of the cost risk associated with Statutory Services.

APPENDIX A

BUILD UP SHEETS

Site S(a)

Ref	Description	Qty	Unit	Rate	Amount
	ROADWORKS GENERAL				
	Site Clearance				
	General site clearance	1	item	500.00	500.00
	Remove trees and grub up roots say	10	nr	500.00	5,000.00
	Take up kerbs/drainage channels and foundations and dispose off site	190	m	10.00	1,900.00
	Take down lighting columns and remove	1	item	500.00	500.00
	Take down street signs and set aside for reuse	1	item	500.00	500.00
	Allow for removal of gullies and drainage including setting covers/gratings aside for reuse	1	PS	1,000.00	1,000.00
	Allow for removal and relocation of ducts and supplies to lighting columns	1	PS	1,000.00	1,000.00
	Allow for careful excavation to expose utilities services under path/verge and protect/divert	1	PS	2,000.00	2,000.00
	Remove and set aside bus shelter and later reinstate to new position	1	PS	2,500.00	2,500.00
	Excavation and earthworks				
	Excavate for path say 500mm deep and dispose of surplus from site	80	m3	30.00	2,400.00
	Excavate for road widening say 750mm deep and dispose of surplus from site	386	m3	30.00	11,587.50
	Extra over excavation for excavation in hard material - existing surfacing	75	m2	5.00	375.00
	Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems				
	Kerb to carriageway with foundation etc	185	m	30.00	5,550.00
	Edging to pavement with foundation etc	80	m	20.00	1,600.00
	Pavements				
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - carriageway	365	m2	60.00	21,900.00
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - school access road	150	m2	55.00	8,250.00
	Prepare formation, granular sub-base 100mm, macadam base 40mm and surface course 20mm - footpath	160	m2	25.00	4,000.00
	Plane/burn off and new surface course where indicated on each right turn lane option	1625	m2	15.00	24,375.00

Site S(a)

Ref	Description	Qty	Unit	Rate	Amount
	Drainage and Service ducts				
	150 mm internal diameter drain in gully connections etc trench, bed and surround say not exceeding 2m deep to invert	50	m	35.00	1,750.00
	Gullies	5	nr	500.00	2,500.00
	Traffic Signs				
	General allowance	1	PS	2,000.00	2,000.00
	Road Markings				
	Allow for thermoplastic reflectorised material 150mm wide (say £/m2 of surfacing)	2300	m2	1.00	2,300.00
	Road lighting columns				
	Road lighting column of 10 m normal height with foundations and all electrical connections	2	nr	2,500.00	5,000.00
	STATUTORY UNDERTAKERS, PROVISIONAL SUMS				
	BT			excluded	
	Water			excluded	
	Electric			excluded	
	Gas			excluded	
	Allow for builders work and attendance in connection with Stats	1	PS	9,000.00	9,000.00
					117,487.50
	Temporary works and traffic controls	10%			11,748.75
					129,236.25
	Preliminaries OHP	15%			19,385.44
					148,621.69
	Fees	20%			29,724.34
	Total				178,346.03

Site S(b) - Option 1

Ref	Description	Qty	Unit	Rate	Amount
	ROADWORKS GENERAL				
	Site Clearance				
	General site clearance	1	item	250.00	250.00
	Take up kerbs/drainage channels and foundations and dispose off site	150	m	10.00	1,500.00
	Take down street signs and remove	1	item	500.00	500.00
	Allow for removal of gullies and drainage including setting covers/gratings aside for reuse	1	PS	250.00	250.00
	Allow for careful excavation to expose utilities services under path/verge and protect/divert	1	PS	1,000.00	1,000.00
	Excavation and earthworks				
	Excavate for road widening say 750mm deep and dispose of surplus from site	112.5	m3	30.00	3,375.00
	Extra over excavation for excavation in hard material - existing surfacing	150	m2	5.00	750.00
	Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems				
	Kerb to carriageway with foundation etc	150	m	30.00	4,500.00
	Pavements				
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - carriageway	150	m2	60.00	9,000.00
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - school access road	150	m2	55.00	8,250.00
	Plane/burn off and new surface course where indicated on each right turn lane option	1320	m2	15.00	19,800.00
	Drainage and Service ducts				
	150 mm internal diameter drain in gully connections etc trench, bed and surround say not exceeding 2m deep to invert	20	m	35.00	700.00
	Gullies	2	nr	500.00	1,000.00
	Traffic Signs				
	General allowance	1	PS	1,000.00	1,000.00
	Road Markings				
	Allow for thermoplastic reflectorised material 150mm wide (say £/m2 of surfacing)	1620	m2	1.00	1,620.00

Site S(b) - Option 1

Ref	Description	Qty	Unit	Rate	Amount
	Road lighting columns				
	Road lighting column of 10 m normal height with foundations and all electrical connections	2	nr	2,500.00	5,000.00
	STATUTORY UNDERTAKERS, PROVISIONAL SUMS				
	BT			excluded	
	Water			excluded	
	Electric			excluded	
	Gas			excluded	
	Allow for builders work and attendance in connection with Stats	1	PS	5,000.00	5,000.00
					58,495.00
	Temporary works and traffic controls	10%			5,849.50
					64,344.50
	Preliminaries OHP	15%			9,651.68
					73,996.18
	Fees	20%			14,799.24
	Total				88,795.41

Site S(b) - Option 2

Ref	Description	Qty	Unit	Rate	Amount
	ROADWORKS GENERAL				
	Site Clearance				
	General site clearance	1	item	4,000.00	4,000.00
	Remove trees and grub up roots say	20	nr	250.00	5,000.00
	Take up kerbs/drainage channels and foundations and dispose off site	550	m	10.00	5,500.00
	Take down lighting columns and remove	1	item	5,000.00	5,000.00
	Take down street signs and set aside for reuse	1	item	2,500.00	2,500.00
	Allow for removal of gullies and drainage including setting covers/gratings aside for reuse	1	PS	3,000.00	3,000.00
	Allow for removal and relocation of ducts and supplies to lighting columns	1	PS	20,000.00	20,000.00
	Allow for careful excavation to expose utilities services under path/verge and protect/divert	1	PS	5,000.00	5,000.00
	Excavation and earthworks				
	Excavate splitter verges say 900mm deep and dispose of surplus from site	1485	m3	30.00	44,550.00
	Excavate for road widening say 750mm deep and dispose of surplus from site	1042	m3	30.00	31,267.50
	Excavate for road widening say 750mm deep and set aside spoil for reuse	370	m3	10.00	3,700.00
	Extra over excavation for excavation in hard material - existing surfacing	2138	m2	5.00	10,690.00
	Filling to make up levels of roundabout island say 500mm thick	370	m3	5.00	1,850.00
	Imported filling to make up levels to road construction and verges	1750	m3	25.00	43,750.00
	Imported topsoil filling 150mm thick, grass seeding and grading to suit levels	2590	m2	5.25	13,597.50
	Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems				
	Kerb to carriageway with foundation etc	750	m	30.00	22,500.00
	Edging to pavement with foundation etc	0	m	20.00	
	Pavements				
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - carriageway	2385	m2	60.00	143,100.00

Site S(b) - Option 2

Ref	Description	Qty	Unit	Rate	Amount
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - school access road	150	m2	55.00	8,250.00
	Drainage and Service ducts				
	150 mm internal diameter drain in gully connections etc trench, bed and surround say not exceeding 2m deep to invert	200	m	35.00	7,000.00
	Gullies	20	nr	500.00	10,000.00
	Traffic Signs				
	General allowance	1	PS	5,000.00	5,000.00
	Road Markings				
	Allow for thermoplastic reflectorised material 150mm wide (say £/m2 of surfacing)	2535	m2	1.00	2,535.00
	Road lighting columns				
	Road lighting column of 10 m normal height with foundations and all electrical connections	20	nr	2,500.00	50,000.00
	STATUTORY UNDERTAKERS, PROVISIONAL SUMS				
	BT			excluded	
	Water			excluded	
	Electric			excluded	
	Gas			excluded	
	Allow for builders work and attendance in connection with Stats	1	PS	38,000.00	38,000.00
					447,790.00
	Temporary works and traffic controls	20%			89,558.00
					537,348.00
	Preliminaries OHP	15%			80,602.20
					617,950.20
	Fees	20%			123,590.04
	Total				741,540.24

Site S(d)

Ref	Description	Qty	Unit	Rate	Amount
	ROADWORKS GENERAL				
	Site Clearance				
	General site clearance	1	item	500.00	500.00
	Take up kerbs/drainage channels and foundations and dispose off site	50	m	10.00	500.00
	Take down lighting columns and remove	1	item	250.00	250.00
	Allow for removal of gullies and drainage including setting covers/gratings aside for reuse	1	PS	1,000.00	1,000.00
	Allow for careful excavation to expose utilities services under path/verge and protect/divert	1	PS	2,500.00	2,500.00
	Excavation and earthworks				
	Excavate for path say 500mm deep and dispose of surplus from site	10	m3	30.00	300.00
	Excavate for road widening say 750mm deep and dispose of surplus from site	1260	m3	30.00	37,800.00
	Extra over excavation for excavation in hard material - existing surfacing	220	m2	5.00	1,100.00
	Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems				
	Kerb to carriageway with foundation etc	320	m	30.00	9,600.00
	Pavements				
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - carriageway	680	m2	60.00	40,800.00
	Prepare formation, granular sub-base, roadbase and macadam base and surface courses - school access road	800	m2	55.00	44,000.00
	Plane/burn off and new surface course where indicated on each right turn lane option	820	m2	15.00	12,300.00
	Sold traffic island with kerbs and concrete infill	1	item	2,500.00	2,500.00
	Drainage and Service ducts				
	150 mm internal diameter drain in gully connections etc trench, bed and surround say not exceeding 2m deep to invert	50	m	35.00	1,750.00
	Gullies	5	nr	500.00	2,500.00
	Traffic Signs				
	General allowance	1	PS	1,000.00	1,000.00

Site S(d)

Ref	Description	Qty	Unit	Rate	Amount
	Road Markings				
	Allow for thermoplastic reflectorised material 150mm wide (say £/m2 of surfacing)	2300	m2	1.00	2,300.00
	Road lighting columns				
	Road lighting column of 10 m normal height with foundations and all electrical connections	1	nr	2,500.00	2,500.00
	STATUTORY UNDERTAKERS, PROVISIONAL SUMS				
	BT			excluded	
	Water			excluded	
	Electric			excluded	
	Gas			excluded	
	Allow for builders work and attendance in connection with Stats	1	PS	10,000.00	10,000.00
					163,200.00
	Temporary works and traffic controls	7.5%			12,240.00
					175,440.00
	Preliminaries OHP	15%			26,316.00
					201,756.00
	Fees	15.0%			30,263.40
	Total				232,019.40

