CONSTRUCTION COST REVIEW

RESIDENTIAL DEVELOPMENT SHOTTENDANE ROAD, MARGATE, KENT

DIXON SEARLE PARTNERSHIP

DATE: 16.10.2020

2598-ERMC-00-00-CR-Q-001





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INTRODUCTION

ERMC has been commissioned by Dixon Searle Partnership to carry out an independent review of the construction costs used in a 'Financial Viability Assessment', produced by Jones Land LaSalle (JLL) and submitted in connection with a planning application for a proposed residential development at "Land at Shottendane Road", Thanet, Kent.

This report does not consider planning policy or the wider aspects of the Viability Assessment. ERMC's focus is on the submitted build cost assumptions and therefore the outcomes associated with that aspect of the overall viability.

THE SCHEME

Site Location and Description

The site is located within the administrative area of Thanet District Council. It measures 19.53ha and is located approximately 1.6km south of the centre of Margate old town and Margate beach, immediately adjacent to the existing built edge of Margate. The Site, which is not publicly accessible, comprises two undulating arable fields either side of Shottendane Road.

The proposed Development comprises up to 450 dwellings of varying sizes, types and tenures (including a proportion of affordable housing); a new distributor link road; vehicular, pedestrian and cycle access provided in the form of two new roundabouts and a further priority junction; retention and enhancement of the majority of trees and hedgerows; new publicly accessible landscaped open spaces and a sustainable drainage system.

The proposed number of units indicates efficient use of the site and provides a dwelling density of 23 dwellings per hectare (dph) based on the gross site area. Thanet District Council's draft policy for the site allocated 550 dwellings for the combined parcels of land. The lower number of dwellings proposed in this application reflects the existing increase in public open space proposed.

BUILD COSTS

Proposed Development

Construction costs included in the viability assessment are split between residential and "Additional Costs". Given the outline nature of the planning application the residential costs are derived from a rate per square metre being applied to the gross internal area of an indicative housing mix. The text implies that the "Additional Costs" were provided by an external consultant, but no details are provided. For reference the breakdown is appended herewith (Appendix 3).

The developer has submitted a gross construction cost of Seventy-Six Million, Six Hundred and Seventy-Five Thousand, Seven Hundred and Fifteen Pounds (£76,675,715).



This is broken down as follows:

Construction Costs	
Residential Construction Costs	£52,724,020
Additional Costs	
Standard site works	£1,800,000
Roads and sewers	£3,850,000
Public open space	£600,000
Plot abnormals	£2,700,000
Site abnormals	£4,889,470
Link roads	£5,657,500
Garages	£803,500
	£73,024,490
Contingency (5%)	£3,651,225
Say	£76,675,715

The residential construction costs have been calculated using BCIS average price data rates applied to the gross internal floor areas of the various dwelling types. The 'Additional Costs' have been split into sub-elements with rates being applied to approximate quantities and lump sums against specific items. These 'Additional Costs' account for just over a quarter of the total.

An allowance for 'Contingency' has been added as percentages to the net totals.

No separate allowances for 'Preliminaries' and/or 'Overheads & Profit' have been identified in the viability assessment, including the Appraisal Summary at Appendix 8. These items are deemed to be included in the BCIS rates per m² and it is assumed the rates/lump sums used in the 'Additional Costs' also include the relevant allowances.

A review of the pricing used in the cost estimates is included below.

COST REVIEW

Proposed Development

As stated, the residential construction costs used by JLL are derived from BCIS average price data. The base build rate used in the viability assessment is £1,327/ m^2 . This is the 'Median' rate for "New build Housing, mixed developments – Generally" rebased to a Kent location. The extract of BCIS data provided does not indicate what date factor has been used but it is assumed to be 2^{nd} quarter 2020 to match the date of the assessment. It has not been possible to verify their figure as current data for the same location and date indicates a slightly higher rate of £1,357/ m^2 .

BCIS data is produced for individual local authority areas, not just on a wider county basis. Consequently, it is possible to obtain an average price for the Thanet area. The 'Median' rate for "New build Housing, mixed developments – Generally" rebased to 2nd quarter 2020 and a Thanet location is £1,320/m², slightly lower than that used. However, for the same date and location, the median rate for <u>all</u> "New Build Housing, mixed developments" is £1,328/m², directly comparable to the rate used. Given the level of design development of the housing element of the scheme the JJL rate used is considered reasonable.

The "Additional Costs" can be split between conventional infrastructure/external works that are required on any similar residential development and 'Abnormal' costs associated with this particular site. The abnormals noted are the substantial highways works and extra over costs connected with re-profiling the site and



'abnormal' foundations. The costs have been calculated by applying rates per metre/square metre to approximate quantities for each element of work and the insertion of lump sums against the larger highway infrastructure elements. Although we have conducted a brief sense check, the review has been carried out on the assumption the quantities used are correct.

The rate used are generally considered reasonable with a few exceptions regarding the drainage (recalculated based on the area of the residential element) and highway infrastructure. We also consider the lump sum inserted for "Traffic islands..." to be inflated. Our adjustments are highlighted on the cost review attached at Appendix 5.

JLL's viability assessment includes an allowance of 5% of the net build costs for 'Contingency'. This is considered reasonable.

Considering the comments above our opinion of the construction cost is:

Construction Costs	
Residential Construction Costs	£52,724,020
Additional Costs	
Standard site works	£1,800,000
Roads and sewers	£3,262,500
Public open space	£600,000
Plot abnormals	£2,643,750
Site abnormals	£4,889,470
Link roads	£2,829,500
Garages	£803,500
	£69,552,740
Contingency (5%)	£3,477,637
Say	£73,030,377

Based on the review of the rates and consequent adjustment of the percentage addition we consider the total cost of the works submitted by the developer to be overstated by at least £3,645,000.

BENCH MARKING ANALYSIS

To assess whether the submitted construction cost for the dwellings is reasonable a calculated rate per square metre is compared with BCIS average price data, rebased for the relevant location factor and date. In this case the construction cost has been calculated using BCIS data so they can be considered in line with similar residential developments.

The rates used to calculate the "Additional Costs" have been compared with approximate estimating rates contained in the BCIS Major Work Schedule of Rates, again rebased for location and date.

REPORT SUMMARY

The gross construction cost of the development as submitted by the developer is Seventy-Six Million, Six Hundred and Seventy-Five Thousand, Seven Hundred and Fifteen Pounds (£76,675,715).

Given the level of design development the use of average price data to calculate the construction cost of the dwellings is acceptable.

The "Additional Costs" included reflect the work required but the cost is slightly inflated.



Following our review, we consider a realistic gross construction cost to be Seventy-Three Million, Thirty Thousand, Three Hundred and Seventy-Seven Pounds (£73,030,377).

We consider the overall construction costs submitted by the developer to be overstated by approximately £3,600,000.



APPENDIX 1 - SCHEDULE OF ACCOMMODATION

Schedule of Accommodation

Land North and South of Shottendane Road, Margate

Date: June 2020

Code	Beds	Type 1	Type 2	Type – Gladman	Garage Type	Storeys	sqm	sqft	No. Units	Total Sqft
A2	2 bed	House	Mews/Terrace	2 bed mews	-	2 st	63	679	88	59,752
apt	2 bed	Flat	Flat	2 bed apt	-	-	64	690	48	33,120
С	3 bed	House	Mews/Terrace	3 bed mews	-	2 st	89	958	108	103,464
E	3 bed	House	Detached	3 bed det	-	2 st	86	930	10	9,300
F	3 bed	House	Semi-detached	3 bed semi/mews	-	2 st	89	958	43	41,194
1	3 bed	House	Semi-detached	3 bed semi/mews	-	2.5 st	102	1,095	76	83,220
М	4 bed	House	Detached	4 bed det	Integral	2 st	112	1,210	13	15,730
AA	4 bed	House	Detached	4 bed det	s. det	2 st	107	1,152	13	14,976
ВВ	4 bed	House	Detached	4 bed det	s. det	2 st	119	1,285	5	6,425
G	4 bed	House	Detached	4 bed det	Integral	2 st	97	1,045	13	13,585
K	4 bed	House	Detached	4 bed det	s. det	2 st	108	1,159	14	16,226
Р	4 bed	House	Detached	4 bed det	s. det	2 st	125	1,350	13	17,550
P1	4 bed	House	Detached	4 bed det	s. det	2 st	125	1,341	4	5,364
R	4 bed	House	Detached	4 bed det	d. attached	2 st	130	1,399	2	2,798
	_	_								
TOTAL / AVG							1,417	298	450	422,704

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APPENDIX 2 - SITE LAYOUT



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APPENDIX 3 – COST ESTIMATE

"Additional Costs" only

SQFT	SQM	£PSM/Unit	Within Initial 25%	Within Initial 50%	On going
	Standard site works				<u> </u>
4844	450	£2,500			£1,125,000
4844	450	£1,000			£450,000
4844	450	£500			£225,000
	Roads and sewers				
23681	2200	£1,750			£3,850,000
	Public open space				
	1	£75,000		£75,000	
	1	£50,000		£50,000	
	5	£20,000			£100,000
	75000	£5			£375,000
	Plot abnormals				
2422	225	£7,500			£1,687,500
2422	225	£1,500			£337,500
1615	150	£3,000			£450,000
24219	2250	£100			£225,000
	Site abnormals				
1345488	125000	£10	£1,250,000		
1140973	106000	£7			
204514	19000	£35	£665,000		
	1250	£1,500	,		£1,875,000
		,			,,
8999	836	£20	£16,720		
23573	2190	£50	£109,500		
	1	£200.000	£200.000		
2691	250	£125	·		
	Link Road		•		
	2	£500,000	£1,000,000		
	1	£250,000	£250,000		
	1	£125.000			
7104	660	£3,250	,	£2,145,000	
80729	7500	£45		£337.500	
				·	
3767	350				
				, ,,,,,,,	
		£6,000			£156,000
		,			£647,500
			£4,389,470	£4,407.500	£11,503,500
			,,	,,	£20,300,470
					£45,112
	2422 2422 2422 1615 24219 1345488 1140973 204514 8999 23573	Standard site works	Standard site works	Standard site works	Standard site works



APPENDIX 4 - BCIS AVERAGE PRICES





£/m2 study

Description: Rate per m2 gross internal floor area for the building Cost including prelims. **Last updated:** 26-Sep-2020 00:47

> Rebased to 2Q 2020 (332) and Thanet (107; sample 15)

Maximum age of results: Default period

Building function			£/m² gross in	nternal floor a	irea		Sample
(Maximum age of projects)	Mean	Lowest	Lower quartiles	Median	Upper quartiles	Highest	Campio
New build							
810. Housing, mixed developments (15)	1,367	697	1,189	1,328	1,494	3,117	1253
810.1 Estate housing							
Generally (15)	1,367	659	1,170	1,320	1,494	4,750	1599
Single storey (15)	1,535	867	1,301	1,474	1,726	4,750	262
2-storey (15)	1,323	659	1,154	1,288	1,444	2,887	1228
3-storey (15)	1,394	849	1,150	1,333	1,566	2,823	104
4-storey or above (15)	2,883	1,392	2,303	2,572	3,869	4,282	5
810.11 Estate housing detached (15)	1,769	1,020	1,338	1,527	1,785	4,750	21
810.12 Estate housing semi detached							
Generally (15)	1,361	802	1,173	1,331	1,495	2,529	378
Single storey (15)	1,506	974	1,287	1,480	1,678	2,529	75
2-storey (15)	1,327	802	1,171	1,306	1,454	2,309	289
3-storey (15)	1,302	972	1,054	1,285	1,388	1,985	14
810.13 Estate housing terraced							
Generally (15)	1,406	849	1,166	1,332	1,547	4,282	313
Single storey (15)	1,585	1,049	1,335	1,493	1,870	2,246	33
2-storey (15)	1,358	861	1,147	1,308	1,497	2,887	230
3-storey (15)	1,401	849	1,136	1,325	1,544	2,823	48
4-storey or above (10)	4,075	3,869	-	-	-	4,282	2
816. Flats (apartments)							
Generally (15)	1,602	798	1,335	1,524	1,801	5,565	908
1-2 storey (15)	1,521	934	1,293	1,455	1,688	2,761	215
3-5 storey (15)	1,577	798	1,329	1,522	1,783	3,396	592
6 storey or above (15)	1,935	1,169	1,579	1,806	2,093	5,565	98







What is included in the figures from the average prices studies?

23-Jul-2018

What do the costs shown in the BCIS Average prices studies include, and what is excluded?

There are five different average prices studies, and though there are some differences, they generally include and exclude the same things.

carrie aminger							
	£/m2 study		Group element prices	Element cost per m2	Element unit rate study		
Preliminaries		Yes			No		
Main contractor's overheads and profit		Yes			e shown in the contract documents there may be actor's overheads and profit included		
Risk (client's contingencies)	5			No			
VAT				No			
Fees				No			
External works and facilitating works	i			No			
Other development/projec costs	No t						
Fittings and furnishings	and the fitting	Only to the extent that these have been included in the projects included in the sample. Individual projects vary and there will be differences in practice between different employers. Some schemes will be delivered with all fittings and furnishings and others will have little or none and the employer will provide them after the building contract is complete.					
Lifts and othe features	r To the	e extent that th	nese features	were included in the projects sar	mpled and will vary by category.		
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APPENDIX 5 - ERMC COST COMPARISON

JJL COSTS

Residential Construction costs

ERMC COSTS DIFFERENCE

Items	SQFT	SQM	£PSft/Unit	Within Initial 25%	Within Initial 50%	On going
Dwellings	427677	39732	£1,327			£52,724,021
Total				£0	£0	£52,724,021
Overall Total						£52,724,021
Total per unit						£117,164

SQFT	SQM	£PSft/Unit	Within Initial 25%	Within Initial 50%	On going
427677	39732	£1,327			£52,724,021
			£0	£0	£52,724,021
					£52,724,021
					£117,164

£0

Additional Costs above BCIS
Margate - June 2020

Items	SQFT	SQM	£PSM/Unit	Within Initial 25%	Within Initial 50%	On going
		Standard site works				
Drives/pavings/turf/planting	4844	450	£2,500			£1,125,000
Plot drainage	4844	450	£1,000			£450,000
Double handling topsoil	4844	450	£500			£225,000
		Roads and sewers				
On site	23681	2200	£1,750			£3,850,000
		Public open space				
NEAP		1	£75,000		£75,000	
LEAP		1	£50,000		£50,000	
LAP		5	£20,000			£100,000
Planting and seeding to POS areas		75000	£5			£375,000
		Plot abnormals				
Abnormal foundations						
Driven piling	2422	225	£7,500			£1,687,500
Reinforced strip footings	2422	225	£1,500			£337,500
Deep bore soakaways	1615	150	£3,000			£450,000
Conc bed and surround to drainage in fill	24219	2250	£100			£225,000
-		Site abnormals				
Earthworks/ cut and fill						
Bulk excavate and cart	1345488	125000	£10	£1,250,000		
Place and compact in layers	1140973	106000	£7	£742,000		
Off site disposal	204514	19000	£35	£665,000		
Retaining walls		1250	£1,500	1003,000		£1,875,000
Surface water attenuation			•			
Swales	8999	836	£20	£16,720		
Infiltration trench/ponds	23573	2190	£50	£109,500		
Foul pumping station		1	£200,000	£200,000		
Rising main	2691	250	£125	£31,250		
		Link Road		131,230		
Traffic islands to Manston Rd and Shottendane Rd		2	£500,000	£1,000,000		
Associated service diversions		1	£250,000	£250,000		
Priority access to Hartsdown Rd		1	£125,000	£125,000		
Link road	7104	660	£3,250	1123,000	£2,145,000	
Additional depth stone under rds.	80729	7500	£45		£337,500	
Culvert to allow overland flows	33723	1	£50,000		£50,000	
Re-align Shottendane Rd	3767	350	£5,000		£1,750,000	
ne digit shotteridane na	3707	Garages	13,000		11,730,000	
Integral (26)		Garages	£6,000			£156,000
Semi-detached/detached (51)			10,000			£647,500
Total				£4 200 470	£4 407 E00	
Overall Total				£4,389,470	£4,407,500	£11,503,500
						£20,300,470
Total per unit						£45,112

SQFT	Quantity	£PSM/Unit	Within Initial 25%	Within Initial 50%	On going
	Standard site works				
4844	450	£2,500			£1,125,000
4844	450	£1,000			£450,000
4844	450	£500			£225,000
	Roads and sewers				
Site area	130500	£25			£3,262,500
	Public open space				
	1	£75,000		£75,000	
	1	£50,000		£50,000	
	5	£20,000		•	£100,000
	75000	£5			£375,000
	Plot abnormals				,
2422	225	£7,500			£1,687,500
2422	225	£1,500			£337,500
1615	150	£3,000			£450,000
24219	2250	£75			£168,750
	Site abnormals				
1345488	125000	£10	£1,250,000		
1140973	106000	£7			
204514	19000	£35	£742,000		
201311	1250	£1,500	£665,000		£1,875,000
	1230	21,300			11,073,000
8999	836	£20	616 720		
23573	2190	£50	£16,720		
23373	1	£200,000	£109,500		
2691	250	£125	£200,000		
2031	Link Road	1123	£31,250		
	2	£375,000	£750,000		
	1	£250,000	£250,000		
	1	£125,000	£125,000		
7104	660	£1,200	1123,000	£792,000	
80729	7500	£1,200 £45		£337,500	
00/23		£50,000			
2767	1			£50,000	
3767	350	£1,500		£525,000	
	Garages	£6,000			£1E6 000
		£6,000			£156,000
		£12,696	64 420 470	64 020 500	£647,500
			£4,139,470	£1,829,500	£10,859,750
					£16,828,720
					£37,397

£0 £0 £0 -£587,500 £0 £0 £0 £0 £0 £0 £0 £0 -£56,250 £0 £0 £0 £0 £0 £0 £0 £0 £0 -£250,000 £0 £0 -£1,353,000 £0 -£1,225,000 £0 £0 -£3,471,750

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