

### CLIENT

Mr Atul Kumar Managing Director Signature Projects Australia Pty Ltd Telephone: (02) 8316 4775 Email: atul@signaturepropertydevelopers.com.au

### **QUANTITY SURVEYOR**

Mr William Lau Director Hugh B Gage Pty Ltd Suite 6, 374 Church Street PARRAMATTA NSW 2150 Telephone: (02) 9890 1090 Fax: (02) 9890 1092

### PROPOSED STORMWATER CULVERT WORKS AT



### **1. INTRODUCTION**

Hugh B Gage Pty Ltd has been instructed by Mr Atul Kumar of Signature Projects Australia Pty Ltd to undertake a Preliminary Cost Estimate for the proposed stormwater culvert at 93 & 98 Hambledon Road, The Ponds NSW 2769.

To this end, Hugh B Gage has carried out the following:

- 1. Review of available relevant documents
- 2. Independent assessment of construction cost by adopting detailed measurement and pricing based on available documents, market price and/or relevant cost data from our Cost Data Bank of projects of similar nature and magnitude.



This Preliminary Cost Estimate has been prepared for the exclusive use by Signature Projects Australia Pty Ltd for an indicative market construction cost of the proposed stormwater culvert works for internal feasibility purposes. Hugh B Gage Pty Ltd accepts no responsibility to third parties nor does it contemplate that this report can be relied upon by third parties. We invite other parties who may come into possession of this report to seek our written consent to them relying upon this report, and we reserve our rights to review the contents in the event that our consent is sought.

### 3. PRELIMINARY DEVELOPMENT COST SUMMARY

ITEM	<u>iye baya an an a da da ba dan a saya ay anya ya y</u>
98 Hambledon Road (Signature Projects)	
Stormwater Culvert - Subject Site	\$1,159,371.00
Stormwater Culvert - South Boundary	\$72,135.00
Stormwater Culvert - Hambledon Road	Excluded
Preliminaries	\$160,096.00
Builder's Profit	\$97,413.00
TOTAL CONSTRUCTION COST (Excl. GST)	\$1,489,015.00
93 Hambledon Road (Universal Property Group)	
Stormwater Culvert - Subject Site	\$2,430,423.00
Stormwater Culvert - Hambledon Road	Excluded
Preliminaries	\$315,955.00
Builder's Profit	\$192,247.00
TOTAL CONSTRUCTION COST (Excl. GST)	\$2,938,625.00
TOTAL CONSTRUCTION COST (98	
& 93 HAMBLEDON ROAD (Excl. GST)	\$4,427,640.00

### Exclusions

The following items are excluded from our estimate:-

- Goods & Services Tax (GST)
- Cost escalation beyond May 2017
- Design and Contract Contingency
- All other costs related to the proposed subdivision works (including connection of future stormwater drainage pipes to new culvert)
- Marketing costs and legal fees
- Delay costs
- Upgrading of services
- Archaeological dig or study
- Rock excavation and latent conditions, if encountered
- Site remediation and removal of contaminated materials, if any

### Exclusions – cont'd

- Costs related to neighbouring works
- Night work/work outside normal working hours
- Council & authorities fees, charges and contributions
- Consultants' fees
- Retaining walls
- Road restoration/reconstruction to affected road areas and construction of future roads (with the exception of Hambledon Road)
- Works related to existing stormwater drainage channel except stormwater culvert area
- Stormwater Culvert works on Hambledon Road

### 4. BASIS OF INITIAL COST ESTIMATE

### 5.10 General

For the completion of our Preliminary Construction Cost Estimate, we have made certain reasonable assumptions, as stated in our detailed estimate. Note that detailed engineering drawings or geotechnical investigation report were not made available at the time of this report. It is strongly suggested that our cost estimate be reviewed when the full set of design documents are made available.

### 5.20 Documents

Our Preliminary Construction Cost Estimate is based on the following documentation:-

- Contours, Details & Levels Plan Ref No. 1609 Sheets 1 4 dated 30 January 2016 prepared by D.J. Hore Pty Ltd
- Plan of Section 94 Works Dwg Nö, P98=C01-200 Issue P02 dated 18 July 2016 prepared by ARUP Pty Ltd
- Roadworks & Drainage Setout Plan No.P98-C01-201, 202 & 203 Issue P02 dated 18 July 2016 prepared by ARUP Pty Ltd
- Road Longitudinal Sections Dwg No. P98-C01-204, 205 & 206 Issue P02 dated 18 July 2016 prepared by ARUP Rty Ltd.
- Drainage Gulvert Longitudinal Sections, Special Pit Details & Slab Details Dwg No. P98-C01=300, 301 & 302-Issue P02 dated 18 July 2016 prepared by ARUP Pty Ltd
- Roadworks & Drainage Setout Plan No.P93-C01-200, 201, 202 & 203 Issue P01 dated 27 May 2016 prepared by ARUP Pty Ltd
- Road Longitudinal Sections Dwg No. P93-C01-204 & 205 Issue P01 dated 27 May 2016 prepared by ARUP Pty Ltd.
- Drainage Culvert Longitudinal Section P93-C01-300Issue P01 dated 27 May 2016 prepared by ARUP Pty Ltd

Yours faithfully HUGH B GAGE PTY LIMITED

### WILLIAM LAU AAIQS (No. 2283) DIRECTOR

Encl: 1. Full Cost Estimate

### PRELIMINARY COST ESTIMATE

Job Name :	5335R1 CULVERT
Client's Name:	Signature Projects Aus Pty Ltd
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<u>Job Description</u> Conversion of drainage zone to low density residential - Stormwater culvert works (REV1)

Trd	<b>Trade Description</b>	Trade	Cost/m2	Sub Total	Mark	Trade
No.		%			Up %	Total
1	STORMWATER CULVERT -	27.81	1	1,231,506		1,231,506
	SUBJECT SITE & SOUTH			-		
	BOUNDARY (98 HAMBLEDON					
	ROAD) SIGNATURE					
	PROJECTS					
2	PRELIMINARIES (13%)	3.62		160,096		160,096
3	BUILDER'S PROFIT (7%)	2.20		97,412		97,413
4	TOTAL CONSTRUCTION					1,489,015
	COST (98 HAMBLEDON					
	ROAD)					
5	STORMWATER CULVERT (93	54.89		2,430,423		2,430,423
	HAMBLEDON ROAD)					
	UNIVERSAL					
	PROPERTY GROUP					
6	PRELIMINARIES (13%)	7.14		315,955		315,955
7	BUILDERS PROFIT (7%)	4.34		192,246		192,247
8	TOTAL CONSTRUCTION					2,938,625
	COST (EXCL. GST)	1		ĺ		
9	EXCLUSIONS					
		100.00		4,427,638	<b>i</b>	4,427,640

Final Total : \$ 4,427,640

Job Name : Client's Name:	5335R1 CULVERT Signature Projects Aus Pty Ltd			Job Descri drainage zone to l lvert works (REV	ow density i	residential -
Item	Item Description	Quantity	Unit	Rate	Mark	Amount
No.					Up %	
Trade : 1	STORMWATER CULVERT - SUBJECT SI	TE & SOUTH	I BOUNDAR	Y (98 HAMBLED	ON	
	<u>ROAD) SIGNATURE PROJECTS</u>					
	I WORKS ON SUBJECT SITE					
Site Cleara						
I Clear the a	ffected area and strip topsoil & stockpile top	1,978.00	m2	5.00		9,890.00
	emoval of existing guide posts, retaining	1.00	Item	5,000.00		5,000.00
walls, turni	ng head, headwall					,
Excavation	1					
	ench in material OTR	2,726.00	m3	10.00		27,260.00
	me excavate half open channel		Note			* .ttt
Concrete V	Vorks		1			
5 300mm thic 2 No. box c	ck reinforced concrete base to 2.1m x 1.2m x	540.00	m2	250.00		135,000.00
	k reinforced concrete base to 2.4m x 1.2m x	394.00	m2	250.00		98,500.00
	lay 2.1m x 1.2m [2 No.] reinforced concrete	199.00	m	2,100.00		417,900.00
8 Ditto to 2.4	m x 1.2m [2 No.]	131.00	m	2,300.00		301,300.00
Culvert Co	nnection Structures					· · · · · · · · · · · · · · · · · · ·
9 Culvert junc	ction structure	2.00	No	35,000.00		70,000.00
10 Culvert inte	rmediate connection structure	4.00	No	15,000.00		60,000.00
Miscellaeno	DUIS					
11 Backfill and	l compaction	1,124.00	m3	5.00		5,620.00
12 Replace top	soil	1,978.00		3.00		5,934.00
13 Allow for hy	ydromulch/spray seeding	1,978.00	m2	1.50		2,967.00
14 Allow Provi	sional Sum for adjustment of services	-	Item	10,000.00		10,000.00
15 Allow Provi	sional Sum for dewatering	1.00	Item	10,000.00		10,000.00
16 Subtotal						, 1,159,371. <u>00</u>
CULVERT	WORKS CONNECTION (SOUTH)		,			
Excavation		•				
17 Excavate tre	nch in material OTR	288.00	m3	10.00		2,880.00
Culvert Co	nnection Structures		,			
18 Culvert inter	mediate connection structure	1.00	No	30,000.00		30,000.00
Concrete W	/orks			-		•
19 300mm thick box culvert	c reinforced concrete base to 2.4 x 0.75m	32.00	m2	250.00		8,000.00
20 Supply and 1	ay 2.4m x 0.75m reinforced concrete box mporary connection to new box culvert [1	10.00	m	2,000.00		20,000.00
Miscellaneo	us					
21, Backfill and	compaction	251.00	m3	5.00		1,255.00

Global Estimating System (32 Bit) - J

Job Name :	5335R1 CULVERT			Job Desci	ription	
Client's Name:	Signature Projects Aus Pty Ltd			drainage zone to lvert works (REV		residential -
Item	Item Description	Quantity	Unit	Rate	Mark	Amount
No.					Up %	
Trade : 1	STORMWATER CULVERT - SUBJECT SI ROAD) SIGNATURE PROJECTS	<u>TE &amp; SOUTH</u>	BOUNDAR	Y (98 HAMBLE	<u>DON</u>	(Continued)
	brick walls to be relocated from existing pit and divert flow to new box culvert		Item	10,000.00		10,000.00
	n of stormwater drainage from Barrington nsion to new culvert					EXCL
to new culv	mwater drainage pits & pipes and connection vert from Barrington Street extension to be Civil Works as part of Residential n Stage		Note			
25 Subtotal						72,135.00
	ATER CULVERT - SUBJECT SITE & SO	UTH BOUNI	DARY (98 HA	MBLEDON	Total :	1,231,506.00
<u>ROAD)</u>	SIGNATURE PROJECTS					
Trade : 2	<u>PRELIMINARIES (13%)</u>					
PRELIMIN	NARIES (13%)				Total :	
Trade : 3	BUILDER'S PROFIT (7%)					
1						
BUILDER	S PROFIT (7%)				Total :	
-						
Trade : 4 .	TOTAL CONSTRUCTION COST (98 HAME	<u>SLEDON RO.</u>	<u>4D)</u>	i		
	DNSTRUCTION COST (98 HAMBLEDON	ROAD)			Total :	
<u>× • × × × • • •</u>						
	<u>STORMWATER CULVERT (93 HAMBLED</u> PROPERTY GROUP	ON ROAD)		UNIVERSA	<u>L</u>	
	WORKS ON SUBJECT SITE		1			
Site Cleara	nce					
1 Clear the af soil	fected area and strip topsoil & stockpile top	5,975.00	m2	5.00		29,875.00
2 Allow for d	emolition of existing shed and removal of affected area	1.00	Item	5,000.00		5,000.00
3 Allow Provi material and	isional Sum to dewater, remove unsuitable I backfill existing dam	1.00	Item	15,000.00		15,000.00
Excavation						
	ench in material OTR	5,475.00	m3	10.00		54,750.00
Concrete V						
5 300mm thic 2 No. box ci	k reinforced concrete base to 2.1m x 1.2m x ulvert	964.00	m2	250.00		241,000.00

Global Estimating System (32 Bit) - J

Job Name :	5335R1 CULVERT	·		Job Descri	ption	
Client's Name: S	Signature Projects Aus Pty Ltd			drainage zone to l lvert works (REV		y residential -
Item	Item Description	Quantity	Unit	Rate	Mark	Amount
No.					Up %	
Trade : 5 <u>ST</u> Ph	CORMWATER CULVERT (93 HAMBLED ROPERTY GROUP	ON ROAD)		UNIVERSA	<u>L</u>	(Continued)
	reinforced concrete base to 2.4m x 1.2m x	1,157.00	m2	250.00		289,250.00
7 Supply and la box culvert	y 2.1m x 1.2m [2 No.] reinforced concrete	355.00	m	2,100.00		745,500.00
8 Ditto to 2.4m	x 1.2m [2 No.]	384.00	m	2,300.00		883,200.00
Culvert Conr	lection Structures					
9 Culvert interm	ediate connection structure	4.00	No	15,000.00		60,000.00
10 Sealed Junctic	on Pit	1.00	No	10,000.00		10,000.00
11 Sone pitched I	neadwall (outlet)	1.00	No	50,000.00		50,000.00
Miscellaenou	S					
12 Backfill and c	ompaction	1,992.00	m3	5.00		9,960.00
13 Replace topso	1	5,975.00	m2	3.00		17,925.00
14 Allow for hydr	romulch/spray seeding	5,975.00	m2	1.50	· · · ·	8,962.50
15 Allow Provisio	onal Sum for adjustment of services	1.00	Item	10,000.00		10,000.00
16 Subtotal						2,430,422.50
PROPERTY ( Trade : 6 <u>PR</u>	ELIMINARIES (13%)					
<u>PRELIMINAI</u>	<u>RIES (13%)</u>				Fotal :	
Trade : 7 <u>BU</u>	ILDERS PROFIT (7%)	77a) <u></u>				
1		· · · · · · · · · · · · · · · · · · ·				
BUILDERS PH	<u> (7%)</u>			]	Fotal :	
Trade : 8 <u>TO</u>	TAL CONSTRUCTION COST (EXCL. GS	<u>T)</u>				
1				i		
TOTAL CONS	TRUCTION COST (EXCL. GST)	I		]	Cotal :	
Trade : 9 EXC	CLUSIONS	<b>, </b>				
	beyond March 2017	1	Note			
2 Design & Contr	5		Note		<u>.</u>	
	related to the proposed subdivision		Note			
	g connection of future stormwater		11010			
drainage pipes (						
4 Marketing costs 5 Delay costs			Note Note			

HUGH B. GAGE PTY LTD

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Global Estimating System (32 Bit) - J

Job Name : Client's Name:	<u>5335R1 CULVERT</u> Signature Projects Aus Pty Ltd			Job Des			
	Signature Projects Aus Pty Lto		onversion of drainage zone to low density residential - cormwater culvert works (REVI)				
Item	Item Description	Quantity	Unit	Rate	Mark	Amount	
No.					Up %		
Trade : 9	<u>EXCLUSIONS</u>					(Continued)	
6 Upgrading	of services		Note				
7 Archaeolog	gical dig or study		Note				
8 Rock exca	vation, if encountered		Note				
materials, i			Note				
10 Costs relate	ed to neighbouring works		Note				
11 Night work	/work outside the normal working hours		Note				
12 Council &	authorities fees, charges & contributions		Note				
13 Consultants	s' fees		Note				
14 Retaining v	valls		Note				
	ration/reconstruction to affected road areas action of future roads (with the exception of a Road)		Note				
drainage ch	g/other works related to existing stormwater annel, if required	-	Note				
17 Stormwater	culvert works on Hambledon Road		Note	· · · · · · · · · · · · · · · · · · ·		AI &	
EXCLUSIO	DNS		www		Total :		

### **93 HAMBLEDON ROAD, THE PONDS**

# **OPTION 1: OVERLAND FLOW PATH OPTION - PAYABLE BY COUNCIL**

Note: All figures are excluding GST

		σ						A
4 Land acquisition cost savings	2 3 Total land area	COUNCIL'S LAND ACQUISITION COST SAVINGS 1 Lot 72 DP 28833	5 Total S94 Contribution Allowance	4 CPI - All Groups Sydney	3 Sub-Total	2 Cost for 28m wide landscaped open channel	1 Cost for culvert under future road	COUNCIL'S S94 CONTRIBUTION ALLOWANCE
<b>\$2,060,100</b> Using current land rates of \$420/m2	4,905 m2	4,905 m2	\$2,480,146	102.4% Dec. Qtr 2016 = 110.9/108.3 base	\$2,422,000	\$1,796,000 As noted in S94 contributions Plan No 20, Appendix A7 of 19, Page 36, Site No F2.5.	\$626,000 As noted in S94 contributions Plan No 20, Appendix A7 of 19, Page 36, Site No F2.4.	

## **OPTION 2: BOX CULVERT OPTION CALCULATIONS**

**5 TOTAL SECTION 94 ALLOWANCE FOR OVERLAND** 

\$4,540,246

FLOW PATH OPTION

Note: All figures are excluding GST

1 Construction of box culvert	\$2,938,625 Per Hugh B Gage cost estimate dated 4 May 2017
2 Consultants	\$88,159 Assume 3% of construction cost
3 Supervision	\$60,000 3% of construction cost as noted in S94 contributions Plan No 20 Page 26 (maximum \$60,000
	as advised by Council)
4 Sub Total	\$3,086,784
5 20% Contingency	\$617,357 As requested by Council
6 Total	\$3,704,141
7 TOTAL SAVING TO COUNCIL'S SECTION 94	\$836,105 Section 94 allowance for overland flow option including land acquisition less cost of box
CONTRIBUTIONS PLAN	culvert option

### 98 HAMBLEDON ROAD, THE PONDS

# **OPTION 1: OVERLAND FLOW PATH OPTION - PAYABLE BY COUNCIL**

Note: All figures are excluding GST

ω	⊳
COUNCIL'S LAND ACQUISITION COST SAVINGS 1 Lot 2 DP 1193235 2 Lot 30 DP 1209414 3 Total land area	<ul> <li><u>COUNCIL'S S94 CONTRIBUTION ALLOWANCE</u></li> <li>1 Cost for gross pollutant trap at inlet to channel</li> <li>2 Cost for 28m wide landscaped open channel</li> <li>3 Sub-Total</li> <li>4 CPI - All Groups Sydney</li> <li>5 Total S94 Contribution Allowance</li> </ul>
3,088 m2 1,071 m2 4,159 m2	<ul> <li>\$228,000 As noted in S94 contributions Plan No 20, Appendix A7 of 19, Page 39, Site No F2.7.</li> <li>\$1,925,000 As noted in S94 contributions Plan No 20, Appendix A7 of 19, Page 36, Site No F2.6.</li> <li>\$2,153,000 102.4% Dec. Qtr 2016 = 110.9/108.3 base</li> <li>\$2,204,688</li> </ul>

## **OPTION 2: BOX CULVERT OPTION CALCULATIONS**

**5 TOTAL SECTION 94 ALLOWANCE FOR OVERLAND** 

\$3,951,468

\$1,746,780 Using current land rates of \$420/m2

FLOW PATH OPTION

4 Land acquisition cost savings

Note: All figures are excluding GST

1 Construction of box culvert	\$1,489,015 Per Hugh B Gage cost estimate dated 4 May 2017
2 Consultants	\$44,670 Assume 3% of construction cost
3 Supervision	\$44,670 3% of construction cost as noted in \$94 contributions Plan No 20 Page 26 (maximum \$60,000
	as advised by Council)
4 Sub Total	\$1,578,356
5 20% Contingency	\$315,671 As requested by Council
6 Total	\$1,894,027
7 TOTAL SAVING TO COUNCIL'S SECTION 94	\$2,057,441 Section 94 allowance for overland flow option including land acquisition less cost of box
CONTRIBUTIONS PLAN	culvert option