

Appendix E – Approval Letter of Tree Removal Application and Tree Schedule

Urgent by Fax

HyD WMB/11-2 (M12013/02) (30/100)

MEMO

From District Lands Officer, Islands	To CHE/HKBCF, HyD
Ref. (10) in L/M(6) to DLO/IS 16/LMLC/2009	(Attn.: Mr. Kuen MA)
Tel. No. 2852 4292	Your Ref. () in
Fax No. 2850 5104	dated
Email esisnal@landsd.gov.hk	Fax No. 3188 6614
Date 27.12.2017	Total Pages 2

Contract No. HY/2013/02
Hong Kong-Zhuhai-Macau Bridge (HZMB)
Hong Kong Boundary Crossing Facilities (HKBCF) –
Infrastructure Works Stage I (Western Portion)
Tree Removal Application



Hong Kong International Airport
Chek Lap Kok Lot No. 3 ("the Lot")

I refer to the captioned Tree Removal Application (the Submission) submitted via letter dated 29.9.2017 from your consultant, AECOM, at the Lot in connection with the above project.

2. Your submission has been checked and we have no objection under Special Condition No. (14) of the lease conditions governing the Lot for felling 10 nos. of trees (T1 to T9 & T17) as marked on Existing Tree Layout Plan No. CHEC/R&D/LA-SE-001 subject to the following conditions :-

- (a) With reference to the tree assessment schedule in Appendix B of the Submission, removal of 10 trees involves the loss of 1665mm in DBH. In general principle, implementation of compensatory tree planting, of a ratio not less than 1:1 in terms of quality and quantity, within the Lot would be acceptable. That is, the total numbers and the aggregated DBH of compensatory trees within the site should not be less than that of the lost trees. While 10 nos. of compensatory trees are proposed to achieve the compensatory ratio of 1:1 in terms of quantity, HyD should clarify if the compensatory ratio of 1:1 in terms of quality will be achieved.
- (b) The schedule of the compensatory trees as shown in the compensatory planting plan in Appendix E of the Submission shall be revised with reference to the information required under Item 4(b)(vii) of Section I, Appendix II of LAO PN No. 7/2007, i.e. to specify the size in terms of DBH, crown spread and overall height. HyD shall also specify the planting spacing and live-crown ratio of the proposed compensatory tree to facilitate compliance checking in due course.

- 2 -

- (c) Regarding the future maintenance of all trees including compensatory trees, you shall submit a maintenance schedule including but not limited to tree risk assessment to be conducted at appropriate time to facilitate proper tree management and maintenance. Useful information on tree management and maintenance including tree risk assessment can be viewed at the *Handbook on Tree Management*, at the greening website (<http://www.greening.gov.hk>).
- (d) HyD shall inform the Airport Authority (AA) of the tree removal works and consult AA on the proposed compensatory planting proposal in particular regarding the location & species of the compensatory trees and maintenance schedule as mentioned in para. No. 2(c) above.
- (e) HyD shall submit details of the proposed compensatory trees as mentioned in para. nos. 2(a) to 2(c) above within three months from the date of this memo.

(Marco LEUNG)
 for District Lands Officer, Islands

c.c.
 SLA/Tree Unit (Attn: Ms. May WONG)

Fax: 3151 7870

Tree Schedule

Prepared by Independent Tree Specialist (ISA Certified Arborist (HK-0560A))

Tree no.	Species		DBH (mm)	Overall Height (m)	crown spread (m)	Health (Good/Fair/Poor)	Form (Good/Fair/Poor)	Structural condition (Good/Fair/Poor)	Amenity value (High/ Med/ Low)	Suitability for transplanting (High/ Med/ Low)	Conservation Status	Remarks
	Scientific name	Chinese name										
T1	<i>Broussonetia papyrifera</i>	構樹	153 (multi-trunk)	5	4	Fair	Poor	Poor	Low	Low	Common	Slightly leaning; grew by structure; trunk in conflict with railing
T2	<i>Broussonetia papyrifera</i>	構樹	100	5	2	Fair	Poor	Poor	Low	Low	Common	Leaning trunk; trunk damaged by hoarding
T3	<i>Broussonetia papyrifera</i>	構樹	405 (multi-trunk)	7	6	Fair	Poor	Poor	Low	Low	Common	Low and included bark on branching point
T4	<i>Broussonetia papyrifera</i>	構樹	190 (multi-trunk)	7	4	Fair	Poor	Fair	Low	Low	Common	Slightly leaning; grew close to T3 and structure; wound on crossed branch and sign of wood borers
T5	<i>Broussonetia papyrifera</i>	構樹	130	5	2	Fair	Poor	Poor	Low	Low	Common	Asymmetric canopy; grew by structure
T6	<i>Broussonetia papyrifera</i>	構樹	100 (multi-trunk)	3	1	Fair	Poor	Poor	Low	Low	Common	Exposed dead wood on topped wound; grew close to T5
T7	<i>Broussonetia papyrifera</i>	構樹	120 (multi-trunk)	5	2	Fair	Poor	Fair	Low	Low	Common	Leaning ; close to T5 & T6; vines on branches
T8	<i>Broussonetia papyrifera</i>	構樹	100 (multi-trunk)	5	2	Fair	Poor	Poor	Low	Low	Common	Leaning; trunk damaged by hoarding
T9	<i>Leucaena leucocephala</i>	銀合歡	136 (multi-trunk)	5	3	Fair	Poor	Poor	Low	Low	Common	Leaning; trunk in conflict with railing; low and included bark on branching point
T17	<i>Broussonetia papyrifera</i>	構樹	189 (multi-trunk)	5	5	Fair	Poor	Fair	Low	Low	Common	significantly increased soil level; minor broken branch

NOTES:

 路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- INFRASTRUCTURE WORKS STAGE 1 (WESTERN PORTION)

TREE ASSESSMENT SCHEDULE

 
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

DRG. NO. LA-SK003
圖紙編號

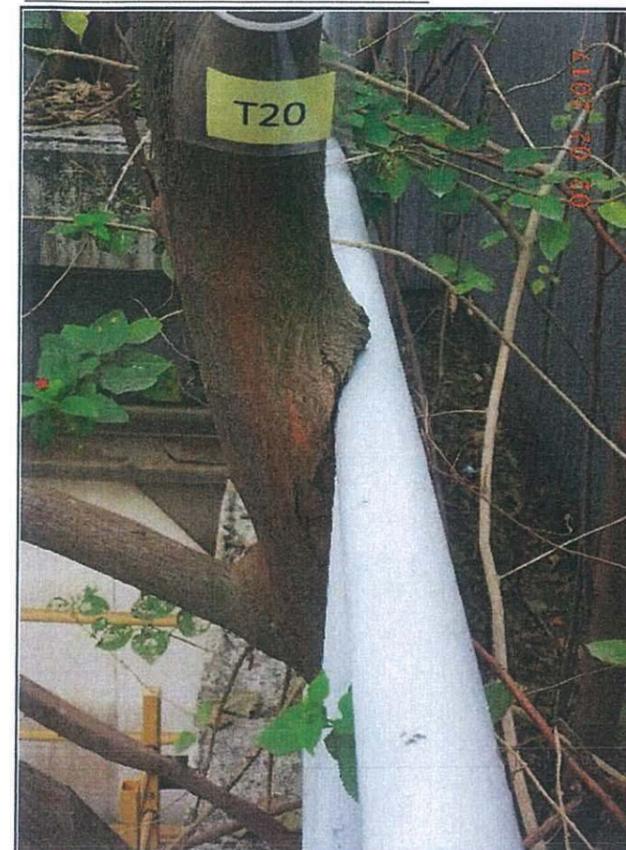
DESIGNED BY 設計	HOP	CONTRACT NO. 合約編號	HY/2013/02	P. OF. APPROVED 批准人	TKH
DRAWN BY 繪圖	HEJ	STATUS 階段	WORKING DRAWING		
SCALE 比例	A1 1 : 500	DIMENSIONS ARE IN 尺寸單位			
		METERS © COPYRIGHT RESERVED 版權所有			



T1	<i>Broussonetia papyrifera</i>	構樹	T1	<i>Broussonetia papyrifera</i>	構樹
Description :	Tree tag		Description :	Feature for identification	



T1	<i>Broussonetia papyrifera</i>	構樹	T1	<i>Broussonetia papyrifera</i>	構樹
Description :	Root collar condition Conflict with structure		Description :	General view	



T1	<i>Broussonetia papyrifera</i>	構樹
Description :	Middle trunk in conflict with railing	

Not Used

Not Used

Not Used

Description :	
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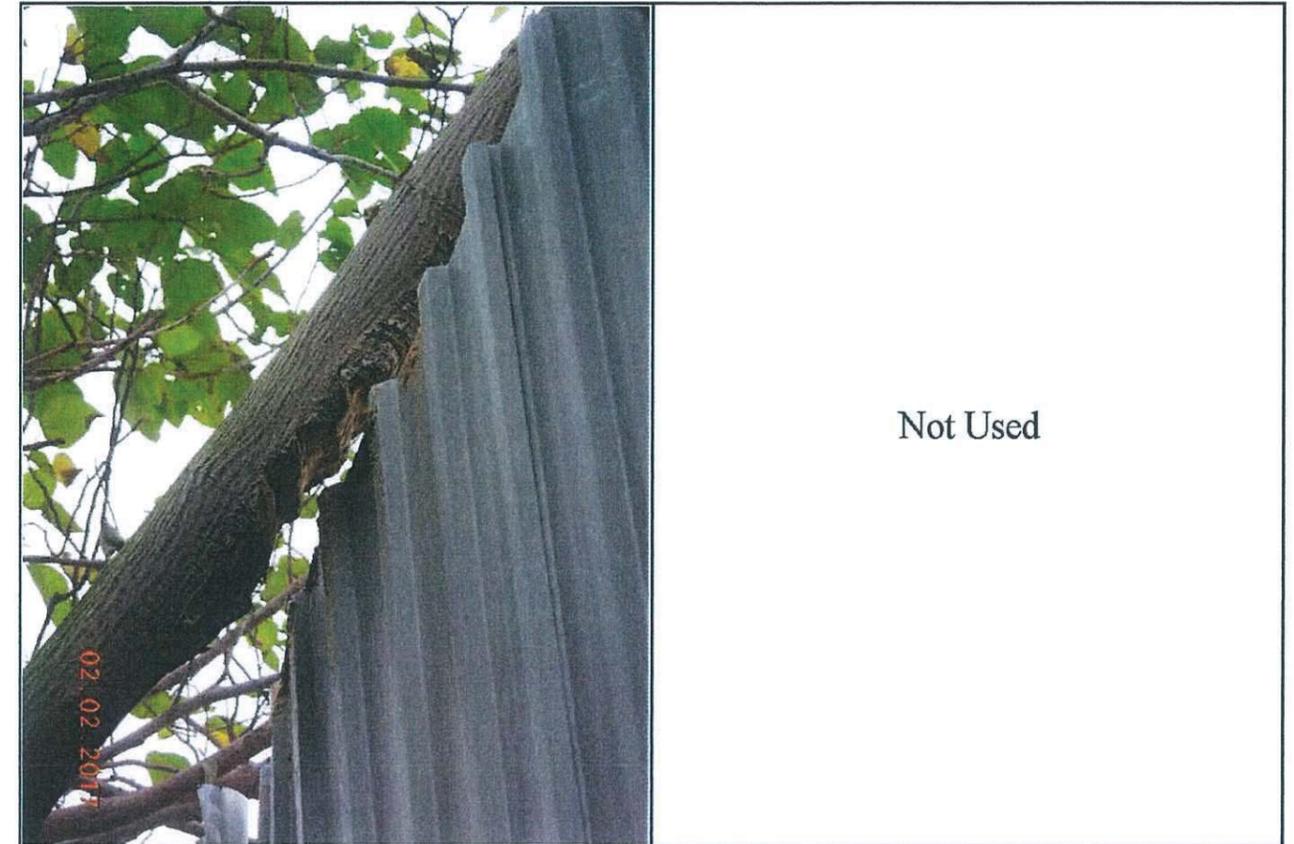
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T2	<i>Broussonetia papyrifera</i>	構樹
Description :	Tree tag	
T2	<i>Broussonetia papyrifera</i>	構樹
Description :	Feature for identification	

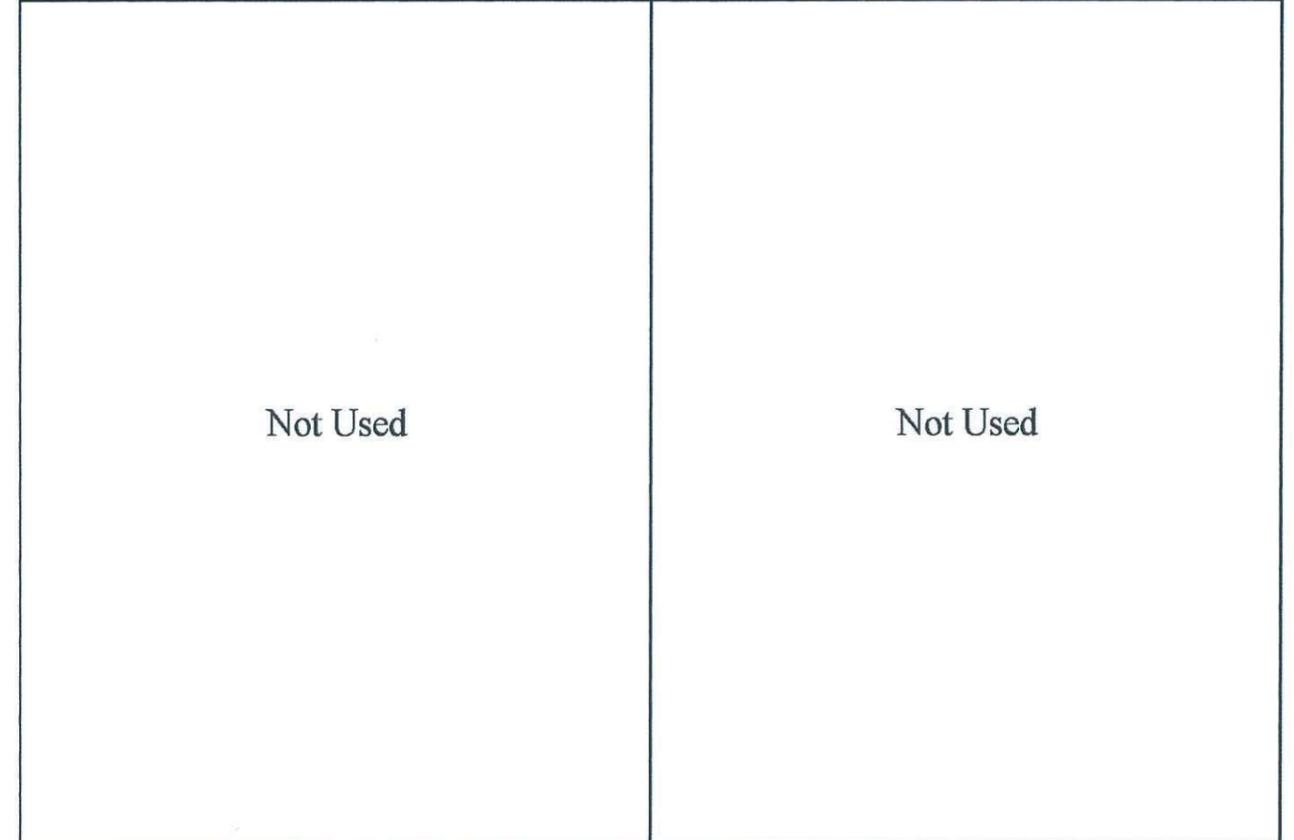


T2	<i>Broussonetia papyrifera</i>	構樹
Description :	Root collar condition	
T2	<i>Broussonetia papyrifera</i>	構樹
Description :	General view	



T2	<i>Broussonetia papyrifera</i>	構樹
Description :	Damaged trunk by hoarding	Description :

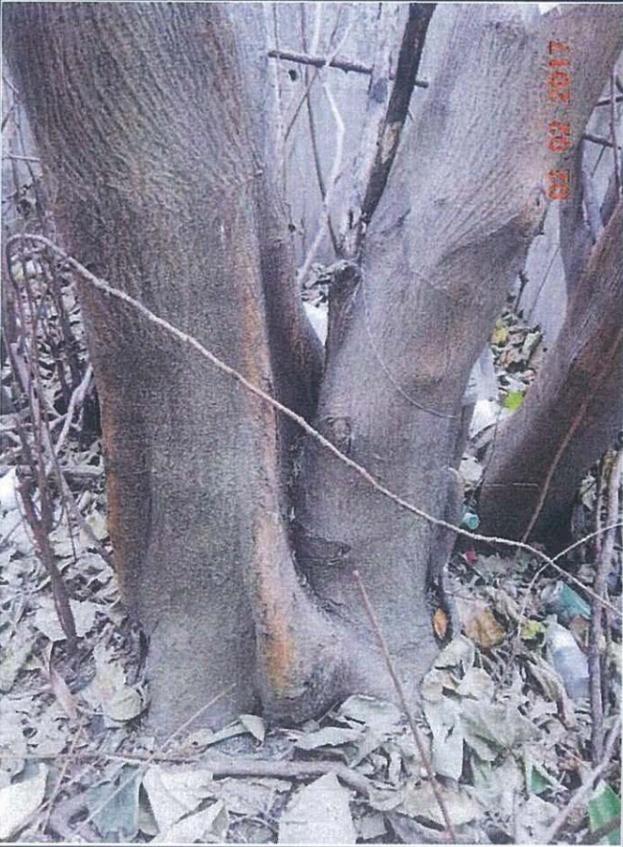
Not Used



Not Used

Not Used

Description :		Description :
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T3 <i>Broussonetia papyrifera</i> 構樹 Description : Tree tag	T3 <i>Broussonetia papyrifera</i> 構樹 Description : Feature for identification
	
T3 <i>Broussonetia papyrifera</i> 構樹 Description : Root collar condition Included bark	T3 <i>Broussonetia papyrifera</i> 構樹 Description : General view

	Not Used	
T3 <i>Broussonetia papyrifera</i> 構樹 Description : General view	Description :	
Not Used		Not Used
Description :	Description :	



T4 *Broussonetia papyrifera* 構樹
 Description : Tree tag

T4 *Broussonetia papyrifera* 構樹
 Description : Feature for identification



T4 *Broussonetia papyrifera* 構樹
 Description : Root collar condition
 Close to T3 and structure

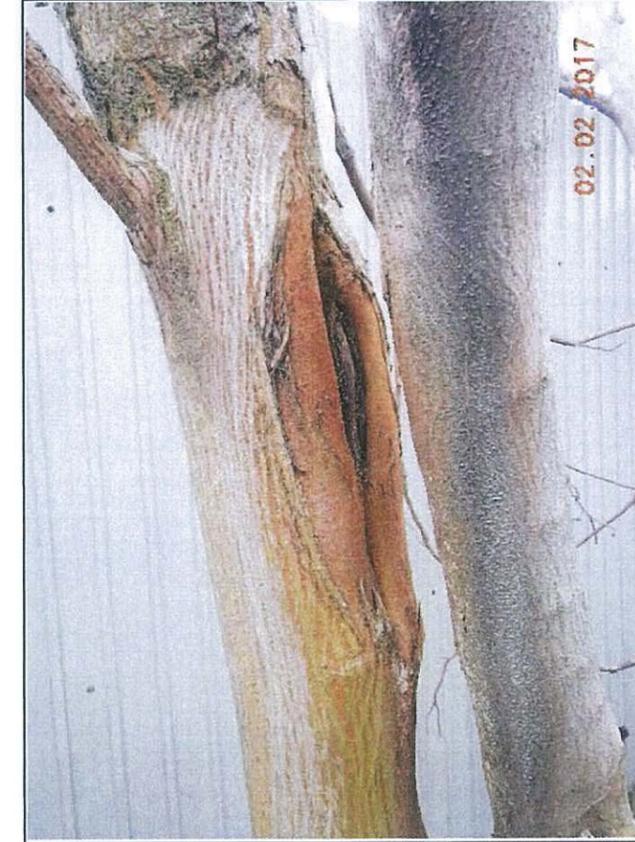


T4 *Broussonetia papyrifera* 構樹
 Description : General view

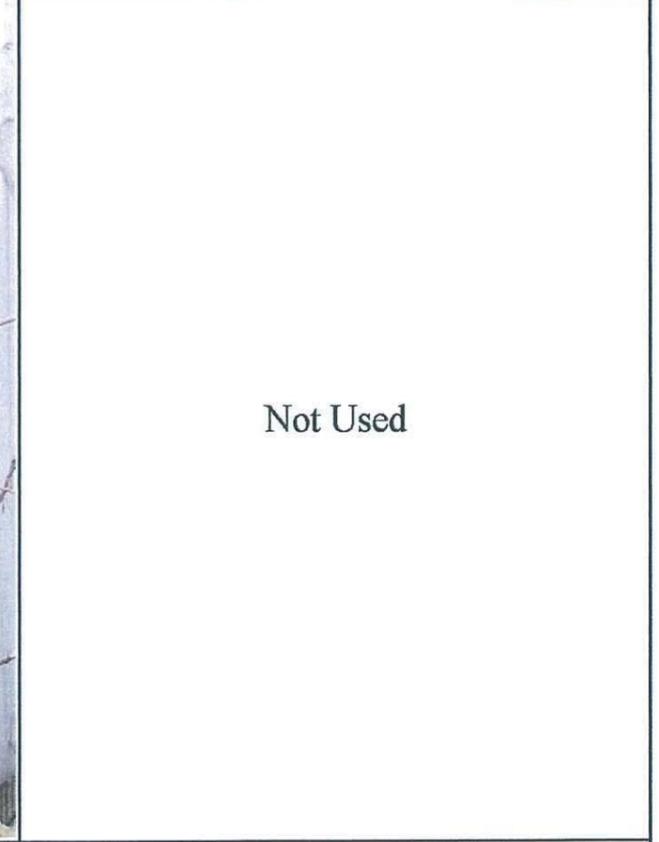


T4 *Broussonetia papyrifera* 構樹
 Description : General view

T4 *Broussonetia papyrifera* 構樹
 Description : Sign of wood borers on exposed wood



T4 *Broussonetia papyrifera* 構樹
 Description : Damaged by crossed branch with T3



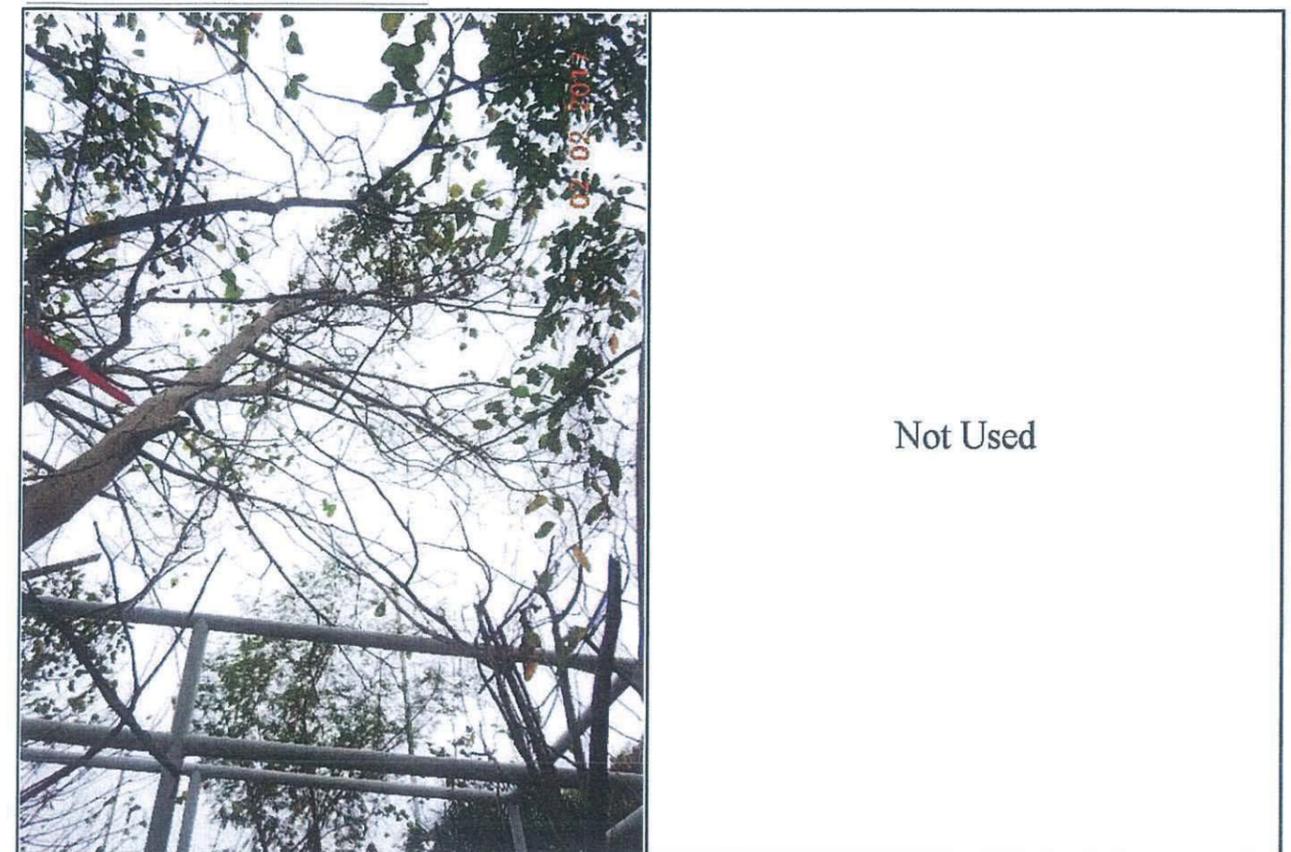
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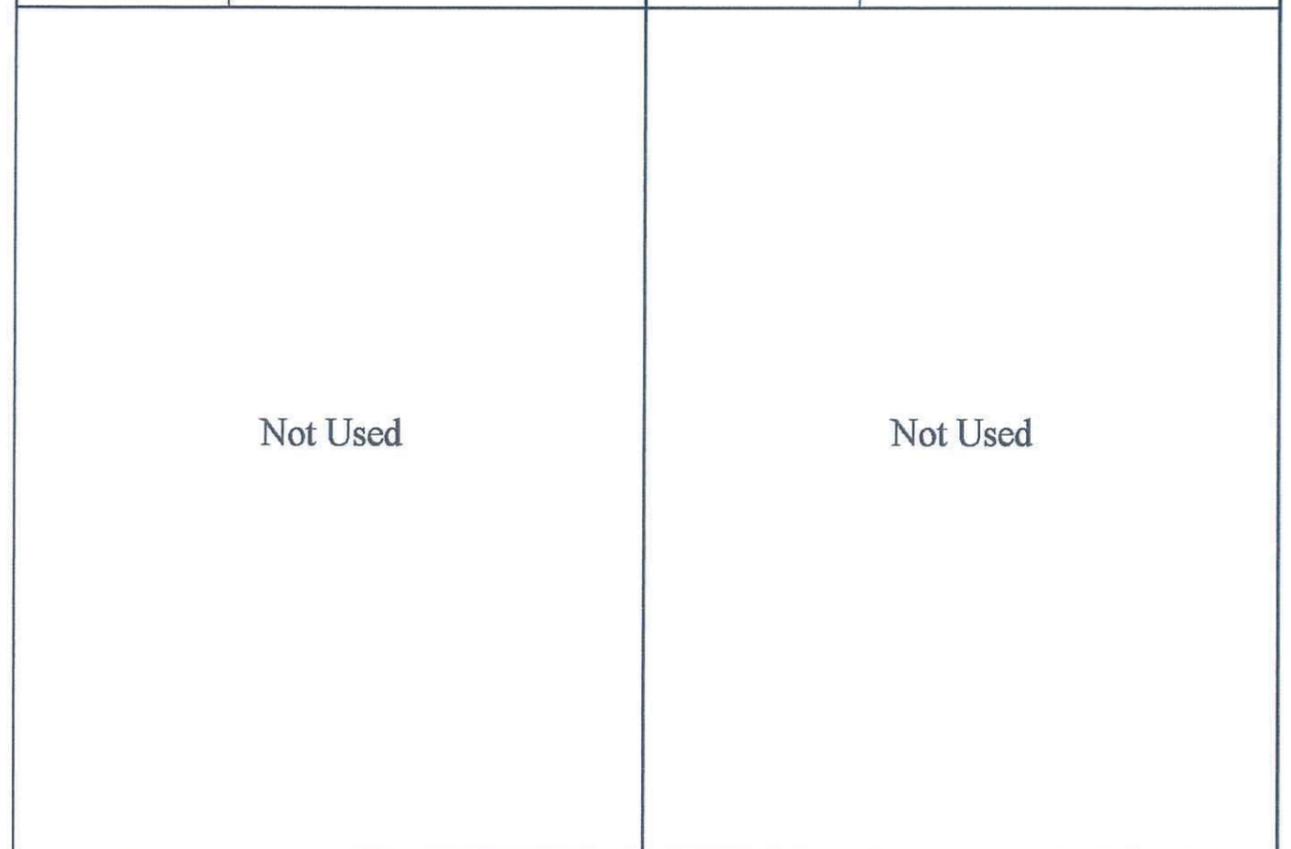
T5	<i>Broussonetia papyrifera</i>	構樹	T5	<i>Broussonetia papyrifera</i>	構樹
Description :	Tree tag		Description :	Feature for identification	



T5	<i>Broussonetia papyrifera</i>	構樹	T5	<i>Broussonetia papyrifera</i>	構樹
Description :	Root collar condition Close to structure		Description :	General view	



T5	<i>Broussonetia papyrifera</i>	構樹		
Description :	Asymmetric canopy		Description :	



Description :		Description :	
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T6 *Broussonetia papyrifera* 構樹
 Description : Tree tag

T6 *Broussonetia papyrifera* 構樹
 Description : Feature for identification



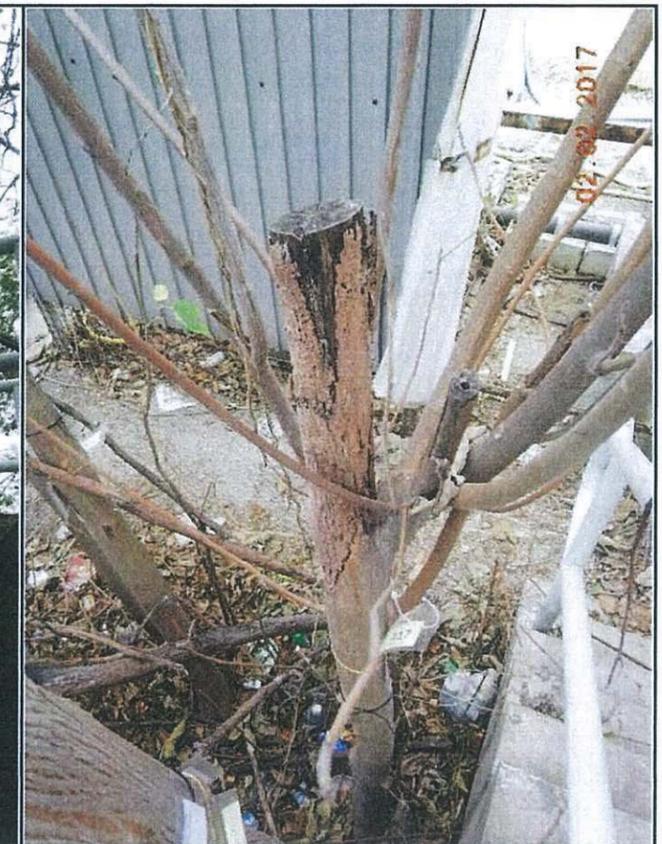
T6 *Broussonetia papyrifera* 構樹
 Description : Root collar condition
 Close to T5 and structure



T6 *Broussonetia papyrifera* 構樹
 Description : General view



T6 *Broussonetia papyrifera* 構樹
 Description : Topped



T6 *Broussonetia papyrifera* 構樹
 Description : Exposed dead wood

Not Used

Description :

Not Used

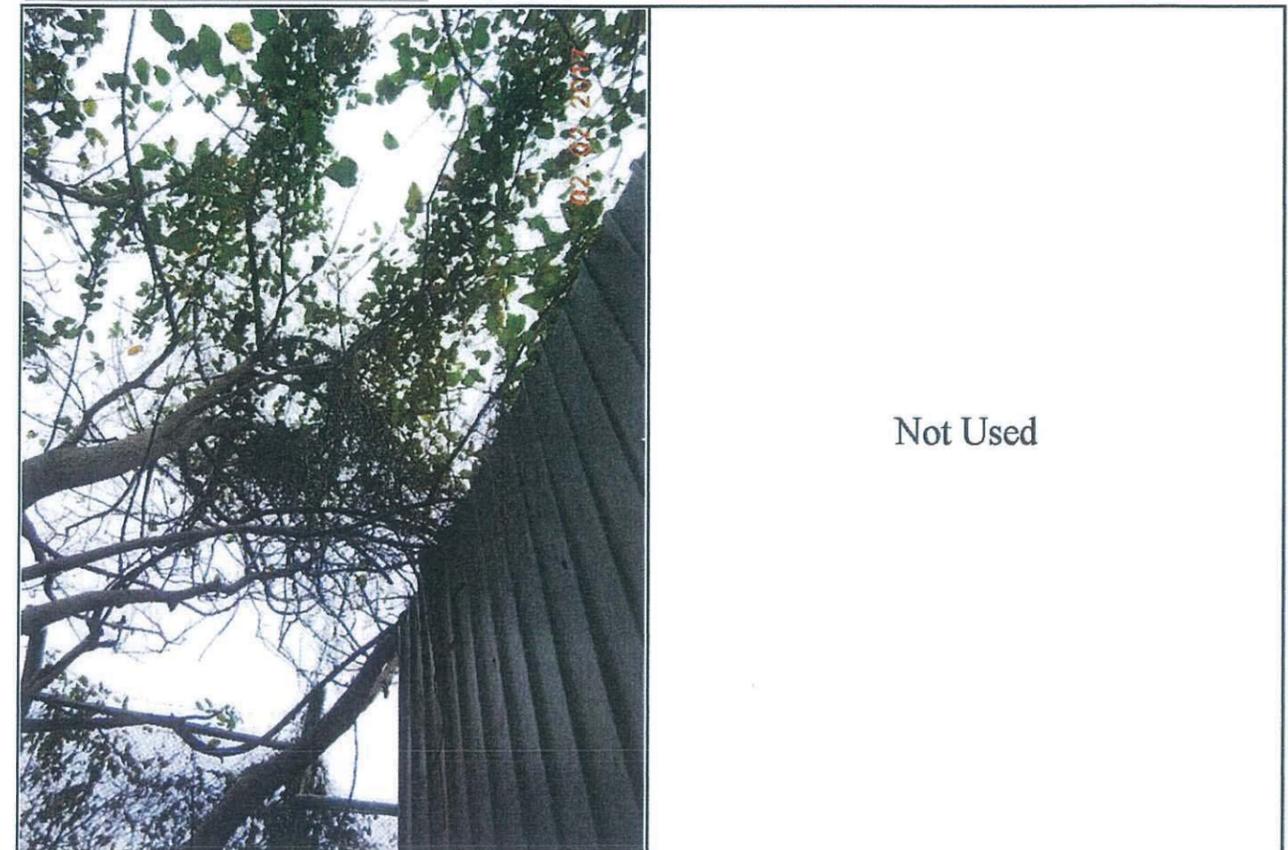
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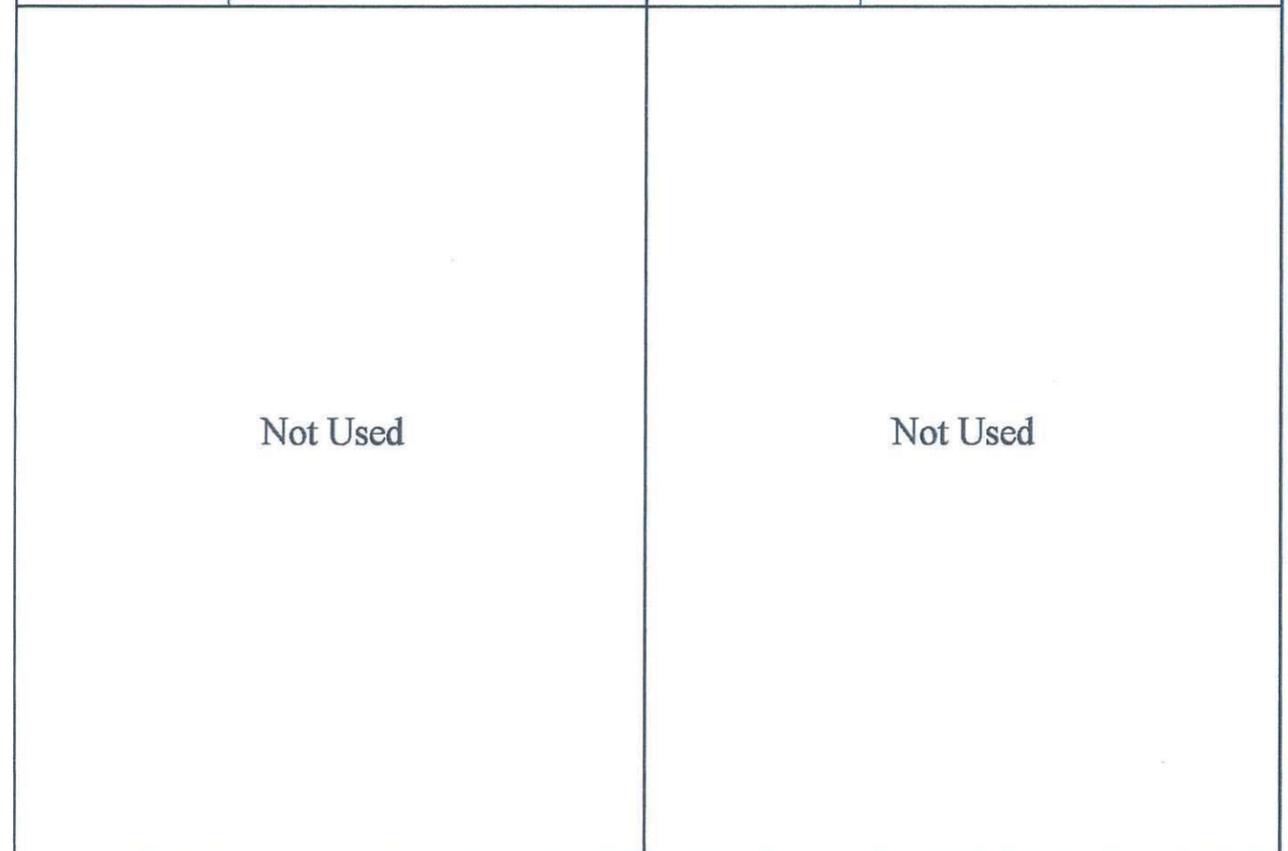
T7	<i>Broussonetia papyrifera</i>	構樹
Description :	Tree tag	
T7	<i>Broussonetia papyrifera</i>	構樹
Description :	Feature for identification	



T7	<i>Broussonetia papyrifera</i>	構樹
Description :	Root collar condition Close to T5 and structure	
T7	<i>Broussonetia papyrifera</i>	構樹
Description :	General view	



T7	<i>Broussonetia papyrifera</i>	構樹
Description :	Vines on branches	
Description :		



Description :		Description :	
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T8 *Broussonetia papyrifera* 構樹
 Description : Tree tag

T8 *Broussonetia papyrifera* 構樹
 Description : Feature for identification



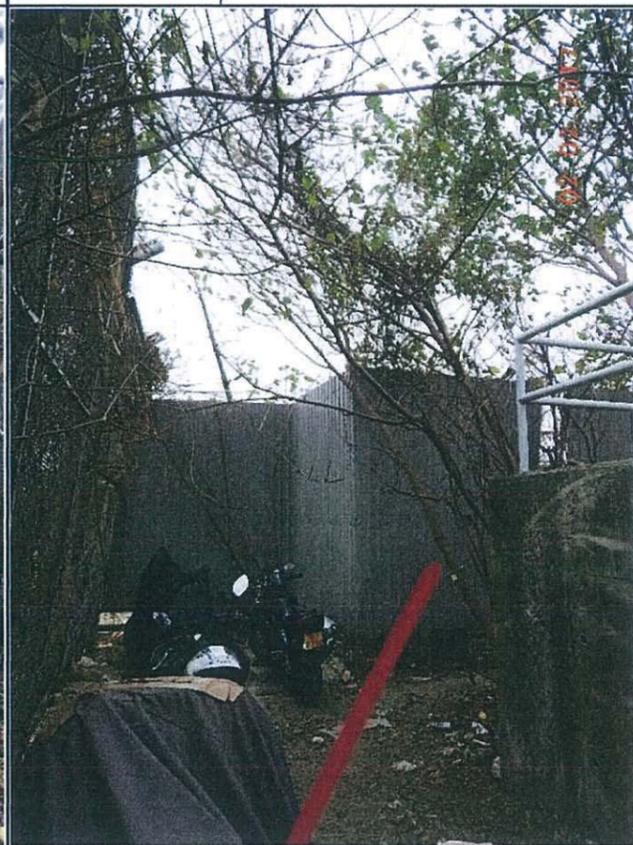
T8 *Broussonetia papyrifera* 構樹
 Description : Damaged trunk by hoarding

Not Used

Description :



T8 *Broussonetia papyrifera* 構樹
 Description : Root collar condition
 Leaned trunk



T8 *Broussonetia papyrifera* 構樹
 Description : General view

Not Used

Description :

Not Used

Description :



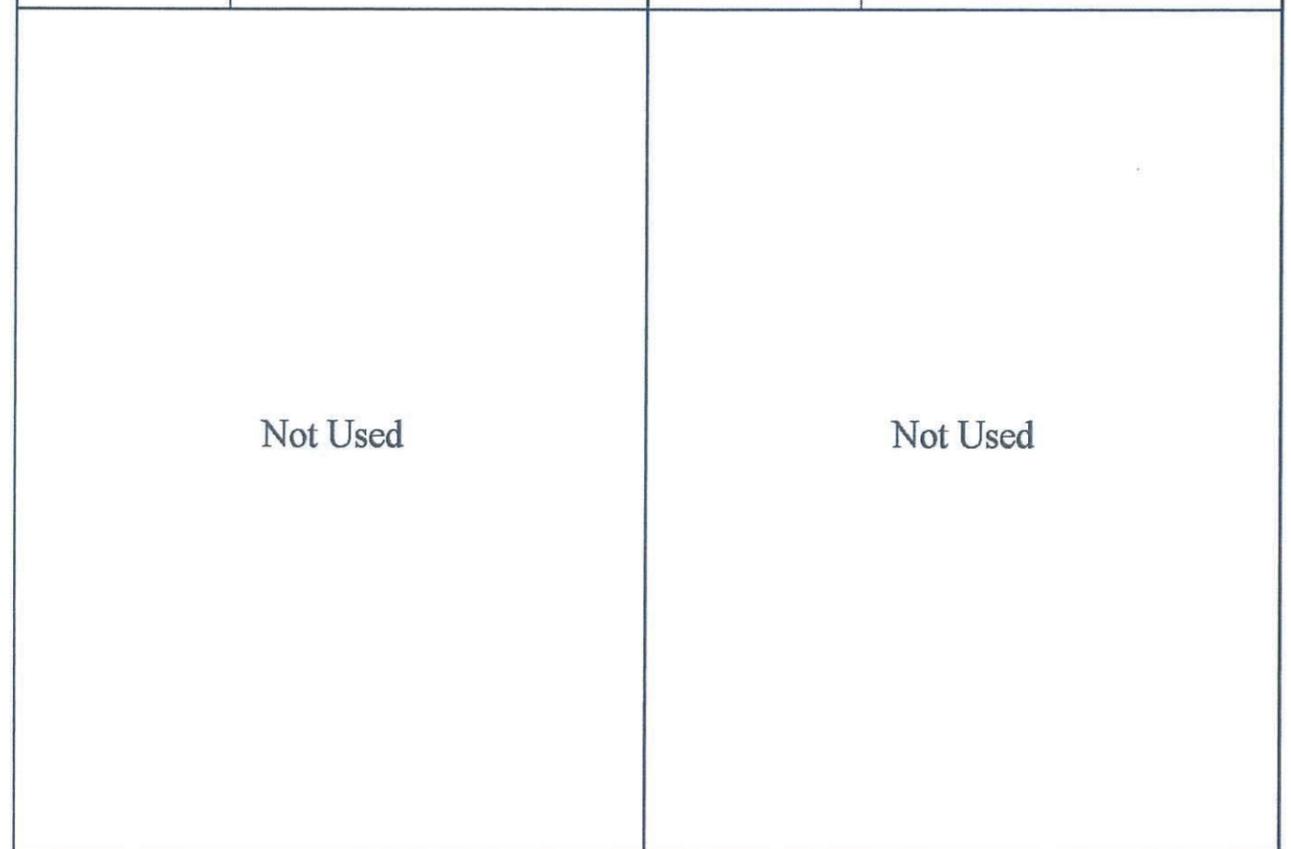
T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	Tree tag	
T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	Feature for identification	



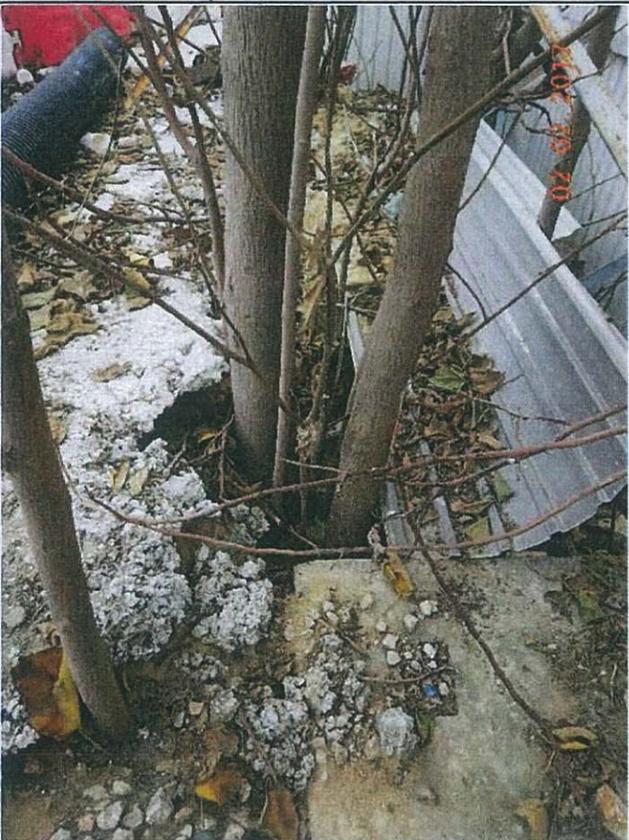
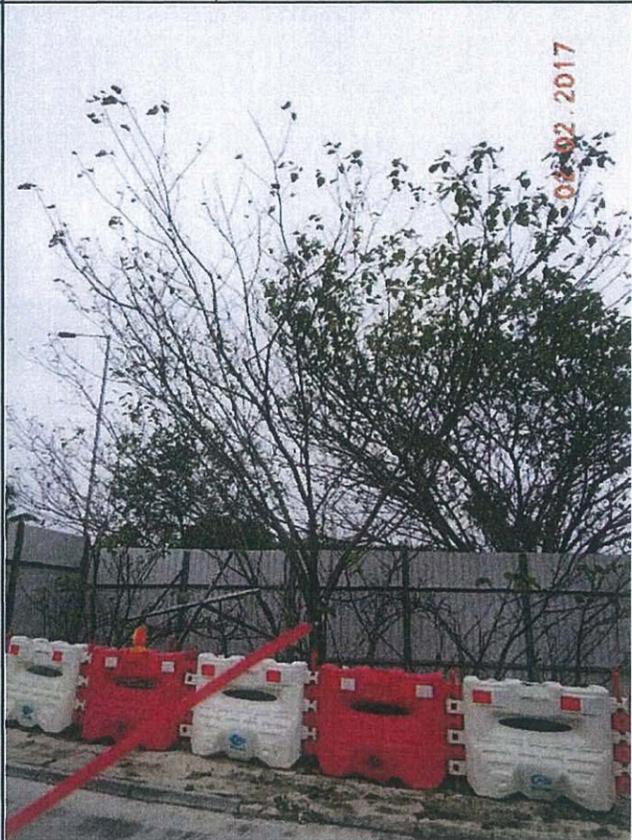
T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	Root collar condition In conflict with structure	
T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	General view	

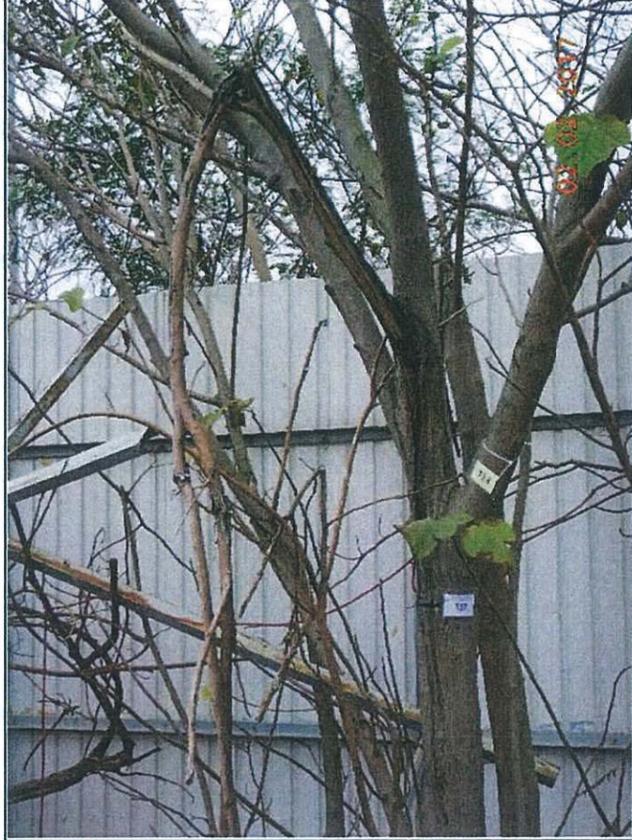


T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	Crossed branches and included bark	
T9	<i>Leucaena leucocephala</i>	銀合歡
Description :	Trunk in conflict with hoarding	



Not Used		Not Used	
Description :		Description :	

			
T17 <i>Broussonetia papyrifera</i> 構樹 Description : Tree tag		T17 <i>Broussonetia papyrifera</i> 構樹 Description : Feature for identification	
			
T17 <i>Broussonetia papyrifera</i> 構樹 Description : Root collar condition Increased soil level		T17 <i>Broussonetia papyrifera</i> 構樹 Description : General view	

		Not Used	
T17 <i>Broussonetia papyrifera</i> 構樹 Description : Minor broken branch		Description :	
Not Used		Not Used	
Description :		Description :	

Your Ref. :
Our Ref. : HKBCF/(I-WEST)/(HY/2013/02)/C55/100(00113)/B207090

12 March 2018

Lands Department
Lands Administration Office
District Lands Office, Islands
19th floor, Harbour Building,
38 Pier Road, Central, Hong Kong



Attn: Mr. LEUNG Hok Pang, Marco (Estate Surveyor/NA(1) (District Lands Office, Islands))

Dear Sirs,

Contract No. HY/2013/02
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage I (Western Portion)

Tree Removal Application - Hong Kong International Airport Chek Lap Kok Lot No. 3 – Response to Comment

I refer to the memo from Lands Department, District Lands Office, Islands dated 27 December 2017. (ref. (10) in L/M(6) to DLO/IS 16/LMLC/2009) Please find enclosed the response-to-comment and appendices regarding details of the proposed compensatory trees for your review and approval.

Please be informed that the compensatory tree proposal (i.e. 21 nos. *Bauhinia variegata*) has been accepted by the Airport Authority (AA). I trust this compensatory tree removal application can meet DLO's requirements.

Due to the tight construction progress, your earliest approval is appreciated.

Yours faithfully,
For and on behalf of
AECOM Asia Co. Ltd.

Ringo Tso
Chief Resident Engineer
HKBCF I-WEST

Encl.

RT/WKH/elk15

c.c. SE18/HZMB, HyD, - Attn.: Mr. Yu Chee-Kuen
E31/HZMB, HyD - Attn.: Mr. Derek Chung
AECOM - Attn.: Mr. Bevis Mak

b.c.c. SRE (3), SQS (2), SRE(P&C), SRLA, SRE (3), RLA (2), RE (6), ARLA (2), ARLA (3), RSFO (1), RSFO (2)

Contract No. HY/2013/02
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage I (Western Portion)

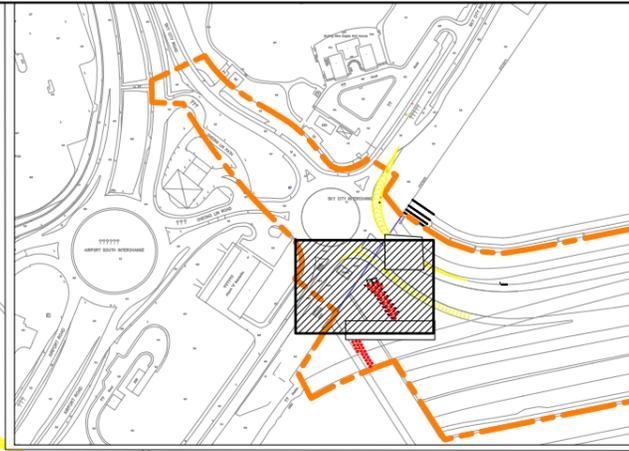
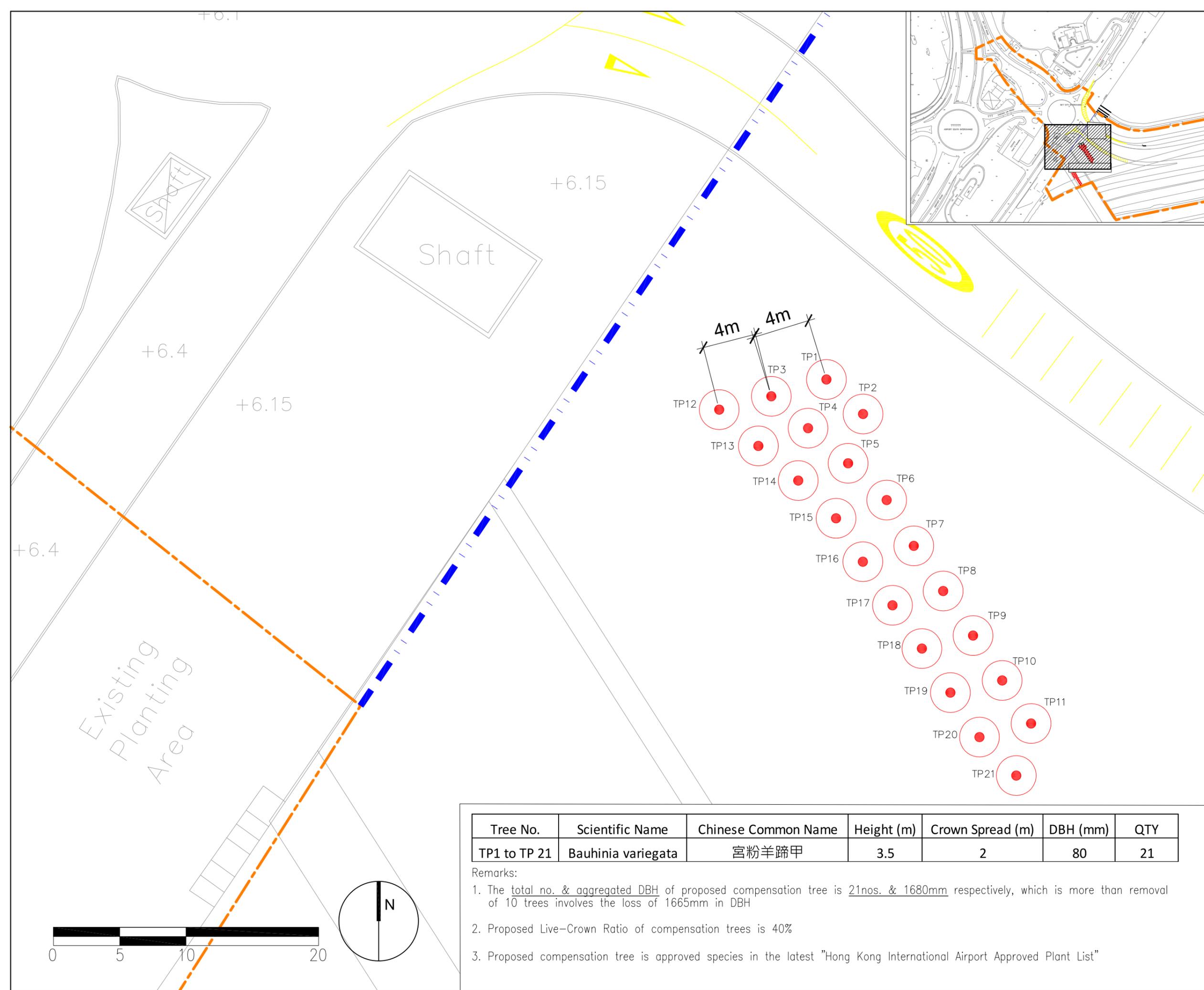
By Memo:

Date: 27 December, 2017
Department: Lands Department, District Lands Office, Islands
Comment by: Mr. LEUNG Hok Pang, Marco/ T: 2852 4292/ Email: esisna1@landsd.gov.hk

I refer to the memo from District Lands Officer, Islands (ref. (10) in L/M(6) to DLO/IS 16/LMLC/2009). The Consultant's attention is drawn to the following comment:

Item	LandsD/ DLO comment on 28 February 2018	Response to Comment
(a)	With reference to the tree assessment schedule in Appendix B of the Submission, removal of 10 trees involves the loss of 1665mm in DBH. In general principle, implementation of compensatory tree planning, of a ratio of not less than 1:1 in terms of quality and quantity, within the Lot would be acceptable. That is, the total numbers and the aggregated DBH of compensatory trees within the site should not be less than that of the lost trees. While 10 nos. of compensatory trees are proposed to achieve the compensatory ratio of 1:1 in terms of quantity, HyD should clarify if the compensatory ratio of 1:1 in terms of quality will be achieved.	The implementation of compensatory tree planning, of a ratio of not less than 1:1 in terms of quality and quantity is achieved. The total number and aggregated DBH of compensatory trees are 21 nos. and approximately 1680 mm respectively, which shall not be less than the compensatory ratio of 1:1 in terms of quality and quantity.
(b)	The schedule of the compensatory trees as shown in the compensatory planting plan in Appendix E of the Submission shall be revised with reference to the information required under Item 4(b) (vii) of Section I, Appendix II of LAO PN No. 7/2007, i.e. to specify the size in terms of DBH, crown spread and overall height. HyD shall also specify the planting spacing and live-crown ratio of the proposed compensatory tree to facilitate compliance checking in due course.	The schedule of the compensatory trees as shown in the compensatory planting plan in Appendix E of the Submission is revised with reference to the information required under Item 4(b) (vii) of Section I, Appendix II of LAO PN No. 7/2007. The schedule is summarized as follows: - DBH: 80 mm - Crown spread: 2000 mm - Overall height: 3500 mm - Planting spacing: 3000 mm - Live-crown ratio: 40 % Please refer to Proposed Compensatory Tree Plan (Revision C) and schedule of the compensatory trees at Appendix A as enclosed.

(c)	<p>Regarding the future maintenance of all trees including compensatory trees, you shall submit a maintenance schedule including but not limited to tree risk assessment to be conducted at appropriate time to facilitate proper tree management and maintenance. Useful information on tree management and maintenance including tree risk assessment can be viewed at the Handbook on Tree Management, at the greening website (http://www.greening.gov.hk)</p>	<p>Regarding the future maintenance of all trees including compensatory trees a maintenance schedule has been included in this submission, including but not limited to tree risk assessment to be conducted at appropriate time to facilitate proper tree management and maintenance.</p> <p>Please refer to Appendix B as enclosed.</p>
(d)	<p>HyD shall inform the Airport Authority (AA) of the tree removal works and consult AA on the proposed compensatory planting proposal in particular regarding the location & species of the compensatory trees and maintenance schedule as mentioned in para. No.2 (c) above.</p>	<p>Airport Authority (AA) was informed on the tree removal works near Sky City Interchange on 15 Nov 2017 at Appendix C as enclosed.</p> <p>Acceptance from Airport Authority (AA) dated 8 Mar 2018 on the proposed compensatory planting proposal in particular regarding the location & species of the compensatory trees and maintenance schedule. (Please refer to Appendix D)</p>
(e)	<p>HyD shall submit details of the proposed compensatory trees as mentioned in para. nos. 2(a) to 2(c) above within three months from the date of this memo.</p>	<p>Details of the proposed compensatory trees are submitted as mentioned in para. nos. 2(a) to 2(c) above within three months from the date of the memo.</p> <p>Please refer to above responses to para. nos. 2(a) to 2(c) above and Appendices A & B.</p>



REF:

NOTES:

1. ALL LEVELS ARE IN METRE ABOVE HONG KONG PRINCIPAL DATUM(mPD).
2. COORDINATES ARE RELATED TO STATION GRID SYSTEM.
3. THE EXACT LOCATIONS AND SETTING OUT OF TREE SHALL BE CONFIRMED ON SITE.

LEGEND:

- COMPENSATORY TREE
- - - SITE BOUNDARY
- - - BOUNDARY BETWEEN AA ISLAND AND HY/2013/02

Client	HIGHWAYS DEPARTMENT		
Contractor	CHINA HARBOUR ENGINEERING COMPANY LIMITED H. K. REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.		
Consultant	AECOM		
Project Title	HZMB : HKBCF INFRASTRUCTURE WORKS STAGE 1 (WESTERN PORTION)		
Drawing Title	PROPOSED COMPENSATORY TREE PLAN (REVISION D)		
EC Project Drawing No.			
Drawing No. / 圖號	CHEC/R&D/LA-SE-001D		
Designed	Drawn	Checked	Scale
Approved	Date	Status	AS SHOWN
	日期 28/05/18	號	

Tree No.	Scientific Name	Chinese Common Name	Height (m)	Crown Spread (m)	DBH (mm)	QTY
TP1 to TP 21	<i>Bauhinia variegata</i>	宮粉羊蹄甲	3.5	2	80	21

Remarks:

1. The total no. & aggregated DBH of proposed compensation tree is 21nos. & 1680mm respectively, which is more than removal of 10 trees involves the loss of 1665mm in DBH
2. Proposed Live-Crown Ratio of compensation trees is 40%
3. Proposed compensation tree is approved species in the latest "Hong Kong International Airport Approved Plant List"



地政總署
離島地政處
DISTRICT LANDS OFFICE, ISLANDS
LANDS DEPARTMENT
香港統一碼頭道38號海港政府大樓十九樓
19/F., HARBOUR BUILDING,
38 PIER ROAD, HONG KONG.

電話 Tel: 2852 4292
圖文傳真 Fax: 2850 5104
電郵地址 Email: esisna1@landsd.gov.hk
本署檔號 Our Ref.: (20) in L/M(6) to DLO/IS 16/LMLC/2009
來函檔號 Your Ref.: HKBCF/(1-WEST)/(HY/2013/02)/C55/100
(0064)/B206176

我們矢志努力不懈，提供盡善盡美的土地行政服務。
We strive to achieve excellence in land administration.

By fax (3152 5100) & by post

12 June 2018
12 JUN '18 16:20

AECOM
8/F, Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, N.T.
(Attn.: Mr. Ringo Tso/Mr Ken Law)

Dear Sir,

Contract No. HY/2013/02
Hong Kong-Zhuhai-Macau Bridge (HZMB)
Hong Kong Boundary Crossing Facilities (HKBCF) –
Infrastructure Works Stage I (Western Portion)
Tree Removal Application

Hong Kong International Airport
Chek Lap Kok Lot No. 3

Pursuant to our letter and e-mail dated 28 February and 7 May 2018 respectively to you on the captioned, we have no further comments on the revised Compensatory Planting Proposal Revision D (No. CHEC/R&D/LA-SE-001D) vide your e-mail dated 28 May 2018.

12 JUN 2018

Ref	Act	Cop	Info	Act	Cop	Info
C55/100						
USE			ESOWI			
ZPP			SEQS			
SRE (S)			ROS ()			
SRE ()			SRLS			
SRE (P&C)			RLS			
SRE (S&E)			RPTOC			
SRE (G)			RSTOC			
SRE (SW)			SRLA			
RE ()			PLA			
RE ()			RSFO			
RE ()			RCO			
Action taken						
Date						

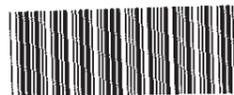
Yours faithfully,

(Marco LEUNG)
for District Lands Officer, Islands

c.c. PM/MW (SD), HyD

Fax : 3188 6614

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TOTAL P.01