

JOB No.: TCS00491/09

DSD CONTRACT No.: DC/2009/08



CONSTRUCTION OF YUEN LONG SOUTH BRANCH
SEWERS AND EXPANSION OF HA TSUEN SEWAGE
PUMPING STATION

THE TENTH RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING
FOR NOVEMBER 2010 (No.10)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING
(HONG KONG) COMPANY LIMITED

Quality Index

Date	Reference No.	Prepared By	Certified By
17 Oct 2011	TCS00491/09/600/R00291v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)
			

Version	Date	Description
1	17 Oct 2011	First submission

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27 October 2011

By Post

Action-United Environmental Services &
Consulting
Unit A, 20/F, Gold King Industrial Building,
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Kwai Chung,
New Territories,
Hong Kong.

Your Ref:

Our Ref: EB000586-F/THW11-2558

For attention of: Mr. T. W. Tam

Dear Mr. Tam,

Contract No.: DC/2009/08

**Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage
Pumping Station**

**Monthly EM&A Report for Designated Project, Landscape and Visual Impact Sections, July
2010 to March 2011 – IEC Verification**

With reference to ET's captioned Landscape and Visual Impact section of monthly EM&A reports for nine reporting months, July 2010 to March 2011 inclusive (ET's ref.: TCS00491/09/600/R0287v1, TCS00491/09/600/R0288v1, TCS00491/09/600/R0289v1, TCS00491/09/600/R0290v1, TCS00491/09/600/R0291v1, TCS00491/09/600/R0292v1, TCS00491/09/600/R0295v1, TCS00491/09/600/R0296v1 and TCS00491/09/600/R0297v1, all dated 17 October 2011) received on 26 October 2011, we have no comment and hereby verify the captioned Landscape and Visual Impact section of monthly EM&A reports.

Should there be any queries, please feel free to contact our William Law on 2911 2511.

Yours sincerely

F.C. TSANG
Independent Environmental Checker
HYDER CONSULTING LIMITED

FCT/WL/my

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1. INTRODUCTION

- 1.01 This Results of Landscape and Visual Impact Monitoring (hereinafter “the LVIM Results”) is part of the monthly EM&A report under DSD Contract No.: DC/2009/08 Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station: *Results of Landscape and Visual Impact* of Chapter 4 *Impact Monitoring Results*. The LVIM Results should therefore be read in conjunction with the corresponding monthly EM&A reports.
- 1.02 Pursuant to Chapter 6 *Landscape and Visual* of the EM&A Manual, EM&A for landscape and visual resources is considered to be a key aspect during both the construction and operational phases of the Project. The implementation and maintenance of landscape compensatory planting measures should therefore be checked to ensure that they are fully realized and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures.
- 1.03 Monitoring of the recommended implementation of the mitigation measures is required to be conducted throughout the construction phase of the Project.
- 1.04 As a member of the ET, the landscape architect is responsible for the implementation of landscape construction works and subsequent maintenance operations during the 12 month establishment period. The establishment works should be undertaken throughout the Contractor's one year maintenance period which will be within the first operational year of the Project.
- 1.05 All measures undertaken by both the Contractor and the Landscape Contractor during the construction phase and first year of the operational phase should be audited by the landscape architect on a regular basis to ensure compliance with the intended aims of the measures.
- 1.06 Site inspections should be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.
- 1.07 The LVIM Results has been prepared by the landscape architect and compiled by the ET upon receipt for submission to EPD after verification by the IEC.
- 1.08 To cater to closer compliance of the EM&A reporting with the EP requirements, it has been agreed among the RE, IEC and ET that The LVIM Results is submitted separately as a stand-alone submission.
- 1.09 This is the tenth (No. 10) LVIM Results, covering the construction period from 1 to 30 November 2010 (hereinafter “the Result Period”).

CONTENT OF THE LVIM RESULTS

- 2.01 This LVIM Results contains the site inspection checklist for the Result Period, where landscape and visual impact monitoring results are presented and where necessary, the associated recommendations are included.
- 2.02 The site inspection checklist is enclosed in *Appendix A*.

Appendix A

Site Inspection Checklist

Landscape and Visual Impact Assessment

Site Inspection Checklist

Contract No.: DC/2009/08
Contract title: Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station
Contractor: China State Construction Engrg. (HK) Ltd.
Location: Ha Tsuen Sewage Pumping Station
Inspection Date: 15-Nov-2010

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.	Keep well maintenance of hoarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.	All construction works are carried out within site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.	Carry out the initial tree survey prior to construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5.	Provide tree labels according to tree survey records	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

All trees were labelled as requirement.

II. Transplanting Works

1. All transplanting works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The transplanted trees are kept in regular inspection within the establishment period	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Item 1
3. The transplanted trees are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

There had total 73 nos. of transplanted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

Watering and weeding should be undertaken periodically.

III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The landscaping plants are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Landscape and Visual Impact Assessment

Site Inspection Checklist

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

No landscaping works were carried out in the reporting month

IV. Preservation and Protection of Trees

1. All preserved trees are protected in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All preserved trees are fenced off properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. No construction activities are carried out in the protection zone of the preserved trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

All retained trees were fenced off and protected properly within the works area of the site.

Keep in review of the piling works with the impacts on the retained trees within the works area.

Conclusion

Generally, the overall conditions are normal in the transplanting and visual impact at Ha Tsuen Sewage Pumping Station. The conditions of hoarding was satisfactory. The protection works maintained for the transplanted and the preserved trees. The health conditions of some transplanted trees should be reviewed in the regular inspection as per attached. We are found out the trees was dead in HSPS, We are monitoring health of the tree regularly and continuous to make protection for the the tree.

Remarks

1. The regular inspection for the transplanted trees was scheduled at the end of the reporting month.

Tree Nos.	Health	Tree Form	Comments	Suggested treatment
HA216	Poor	Fair	Dead branch	Pruning the dead branch
HA257	Poor	Fair	Dead branch	Pruning the dead branch
HA259	Poor	Fair	Dead branch	Pruning the dead branch
HA260	Poor	Poor	Dead branch	Pruning the dead branch
HA245	Dead	Dead	Removed from the site	To plant a new tree
HA255	Dead	Dead	Removed from the site	To plant a new tree

Signatures:

Senior Landscape Architect



(Name: David Bloxham MLI (UK Chartered))

Contract No.: DC/2009/08
Contract title: Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station
Contractor: China State Construction Engrg. (HK) Ltd.
Location: Ha Tsuen Sewage Pumping Station
Inspection Date: 30-Nov-2010

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.	Keep well maintenance of hoarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.	All construction works are carried out within site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.	Carry out the initial tree survey prior to construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.	Provide tree labels according to tree survey records	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

The construction has no implication to protected tree. Close monitoring the implication of piling works to protected tree is required

II. Transplanting Works

1. All transplanting works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The transplanted trees are kept in regular inspection within the establishment period	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Item 1
3. The transplanted trees are kept in maintenance throughout the establishment period as followings:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

There had total 73 nos. of transplanted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

Watering should be undertaken periodically. More pruning for die branch is required

III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The landscaping plants are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

No landscaping works were carried out in the reporting month

IV. Preservation and Protection of Trees

1. All preserved trees are protected in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All preserved trees are fenced off properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. No construction activities are carried out in the protection zone of the preserved trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

All retained trees were fenced off and protected properly within the works area of the site.

Conclusion

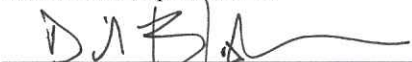
Generally, the overall conditions are normal in the transplanting and visual impact at Ha Tsuen Sewage Pumping Station. The condition of hoarding was satisfactory. The protection works maintained for the transplanted and the preserved trees. The health conditions of the transplanted trees should be reviewed in the regular inspection in the establishment period.

Some of the die branch needed to be removed and frequency watering is required

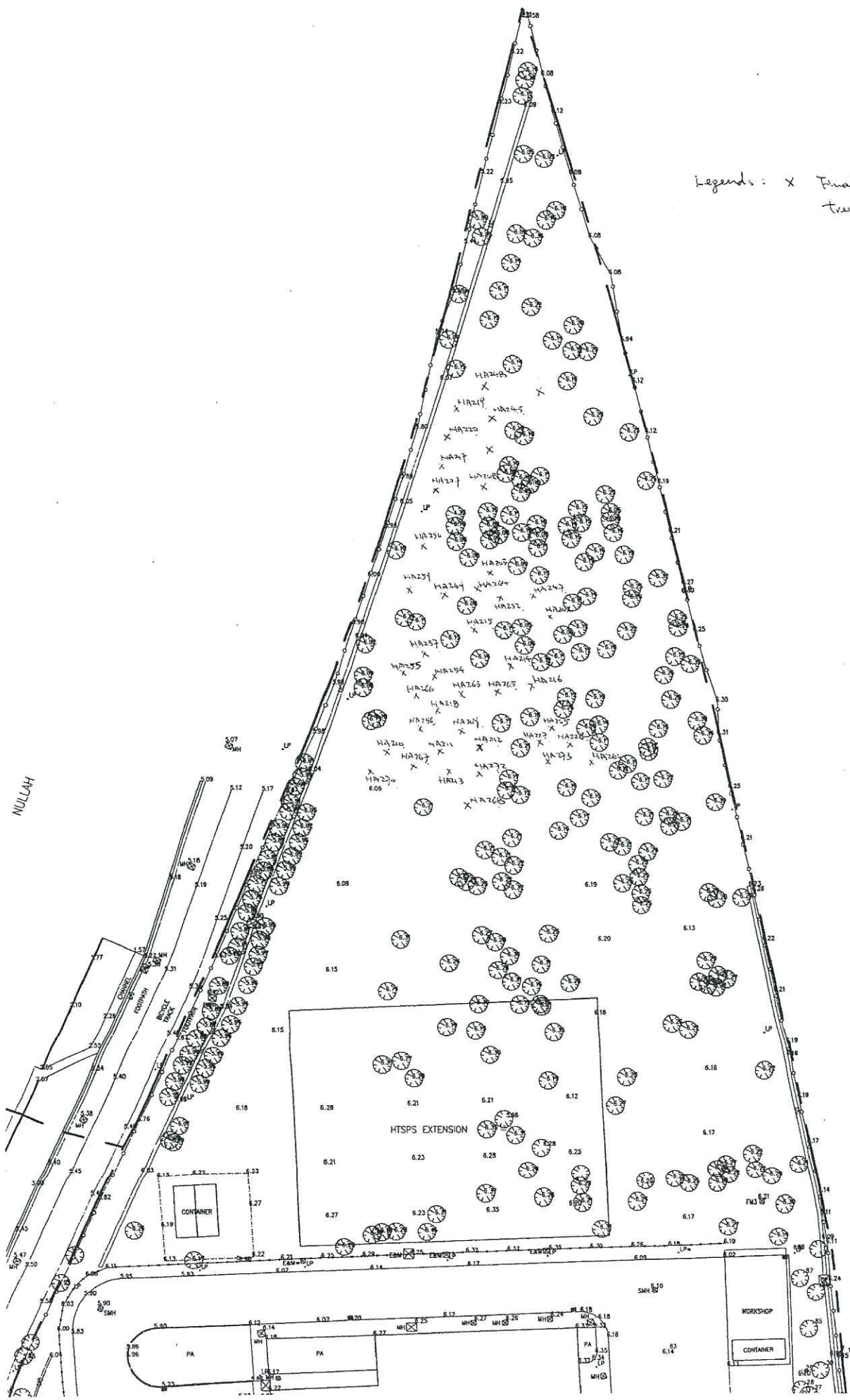
Remarks

Signatures:

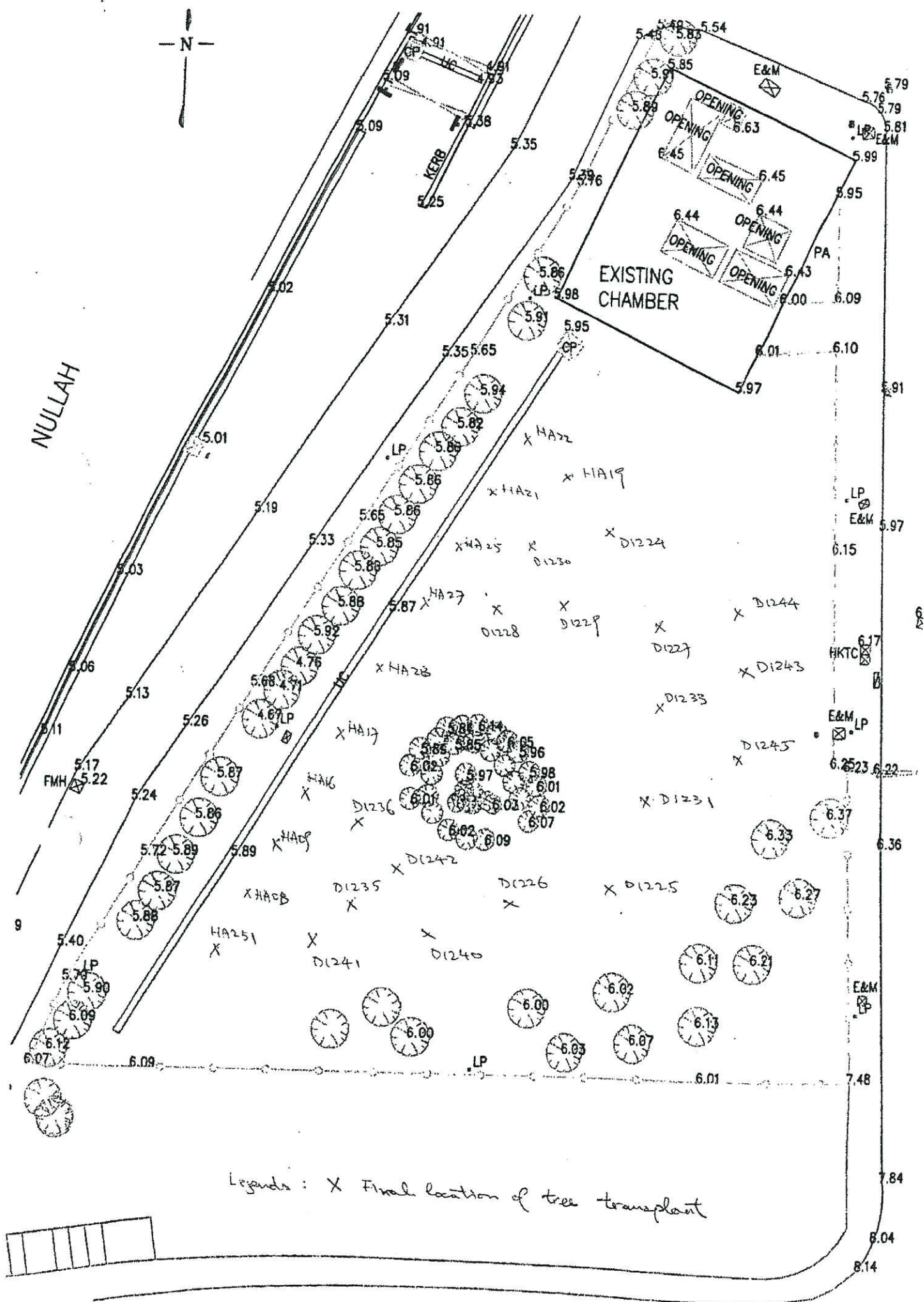
Senior Landscape Architect

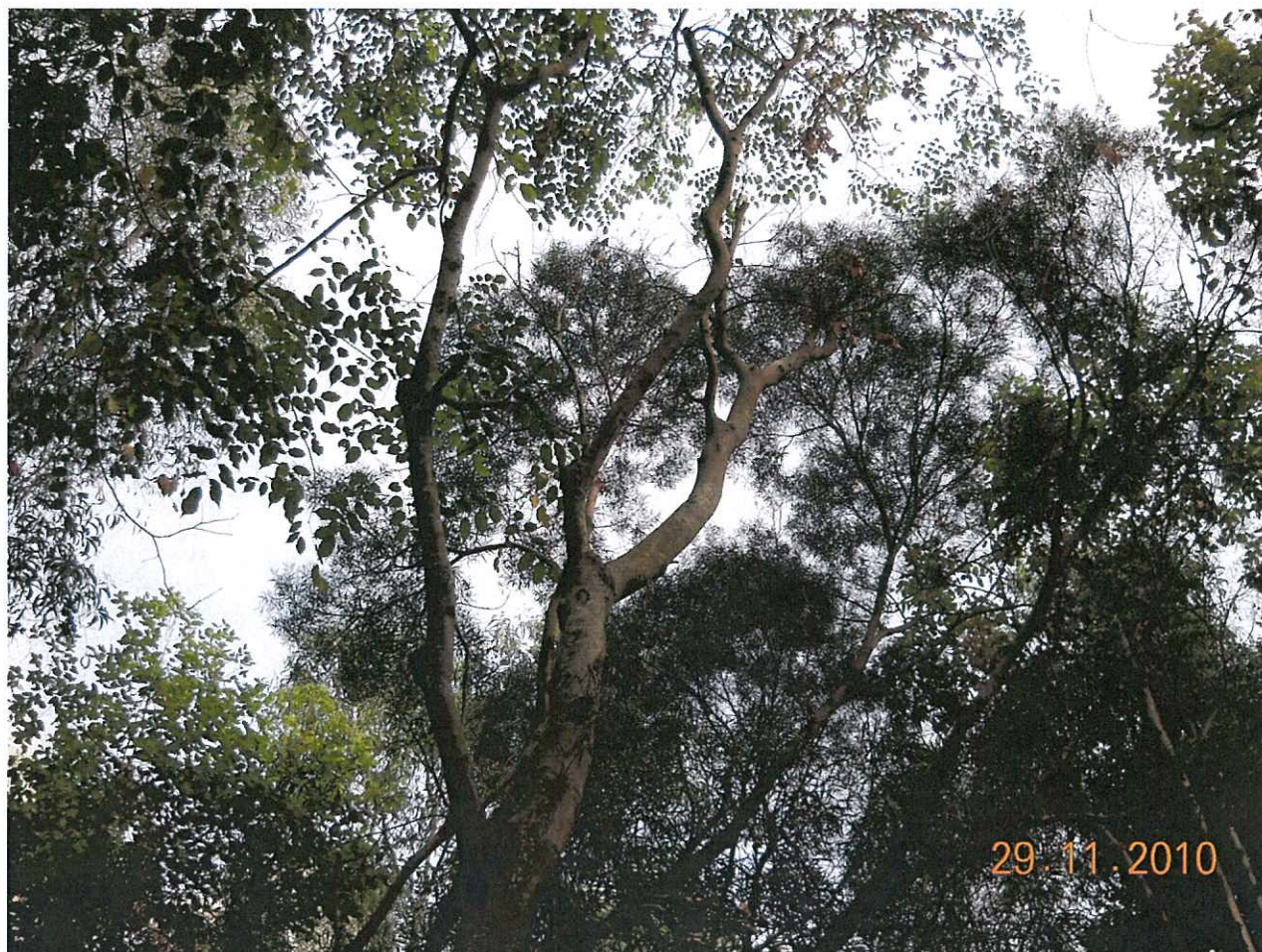


(Name: David Bloxham MLI (UK Chartered))



Legends: X Final location of tree transplant







Contract No. DC/2009/08
Yuen Long South sewerage and expansion of
Ha Tsuen sewage pumping station

Watering photos for November 2010



Hong Kong Landscaping Co. Ltd.

Contract No. DC/2009/08
Yuen Long South sewerage and expansion of
Ha Tsuen sewage pumping station

Watering photos for November 2010



Contract No. DC/2009/08
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Ha Tsuen sewage pumping station

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Hong Kong Landscaping Co. Ltd.

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Hong Kong Landscaping Co. Ltd.