

Contract No. HY/2009/18 Central – Wan Chai Bypass – Central Interchange

Landscape Plan

Prepared by:

Anfernee Chow

Environmental Officer

Approved by:

Site Agent

Contract No. HY/2009/18 Central-Wan Chai Bypass - Central Interchange Landscape Plan

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Revision History and Plan Approval

Revision	Date	Prepared by:	Approved by:	Updated Sections
00	03 Dec 10	Anfernee Chow	Brian Gillon	-
01	24 Dec 10	Anfernee Chow	Brian Gillon	Introduction, Parts A2, C1, D & Appendices
02	15 Jan 11	Anfernee Chow	Brian Gillon	Introduction, Part A2
03	23 May 11	Anfernee Chow	Brian Gillon	Revised according to EPD's initial observations
04	28 Jul 11	Anfernee Chow	Brian Gillon	Revised according to ETL's and IEC's comments

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Response to EPD's Initial Observations

No.	EPD's Initial Observations	Response
1.	With reference to the Urban Design Study for the New Central Harbourfront (UDS), the proposed planting scheme as indicated in the "Tree Planting Plan - Drawing No. 60095653/CI/9013B (Oct 10)" should also take note of the development and associated landscaped deck proposal at Sites 1 and 2 recommended under the UDS. Plausible transplanting might need to be addressed in the future in order to accommodate upon development at Sites 1 and 2 in the UDS area.	With reference to the Urban Design Study for the New Central Harbourfront (UDS), it is noted that the development in the UDS area might require associated transplanting to be addressed in the future. However, the development works in the UDS is not covered in the project scope of HY/2009/18.
2.	Typical sections/elevations should be included to indicate the proposed landscape mitigation measures.	Noted. Hard Landscape Sections and Details were provided in Appendix G. Those sections and details are subjected to change and updated version(s), if any, would be submitted accordingly.
3.	Only Tree Preservation, Transplanting and Felling Plans are provided in the current submission while Tree Survey Schedules and Tree Photos are missing.	Noted. Tree Survey Report with Tree Photos was submitted to the Engineer's Representative for approval. The report is under review by the Engineer's Representative. A CD copy of the report is enclosed herewith for reference.
4.	Some tree labels are overlapping/illegible to indicate the tree No. in the Tree Preservation, Transplanting and Felling Plans. The graphic quality of the presentation should be improved.	Noted. The plans were reproduced in larger size to improve the quality. Those plans are subjected to change and updated version(s), if any, would be submitted accordingly.
5.	According to the approved EIA report for CWB&IECL (Reg. No. AEIAR-041/2001 / App. No. EIA-057/2001), it is stated that in Table 7.5 and indicated on Figure 7.6.1 that there is proposed "soft landscape treatment under elevated structures", however, such treatment is missing from the current submission.	Noted. Tree Planting Plans and Shrubs Planting Plans were provided in Appendices E & F. Hard Landscape Sections and Details were provided in Appendix G. Soft landscape treatment under elevated structures (approach ramp to the Rumsey Street Flyover) was included in the said appendices. The plans, sections and details are subjected to change and updated version(s), if any, would

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		be submitted accordingly.
6.	There are only 4 species of proposed trees stated on the Tree Planting Plan that are much less than those stated in the approved EIA report for CWB&IECL also, planting schedules and plans for all planting materials, not just only trees, should be provided.	The compensatory planting indicative species list in the approved EIA report covers the whole CWB&IECL section, while the species of the proposed trees and shrubs stated on the Tree Planting Plans and Shrub Planting Plans covers the project scope of HY/2009/18 only. Tree Planting Plans and Shrubs Planting Plans were provided in Appendices E & F in this submission.

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Introduction

This Landscape Plan shows the details, locations, implementation programme, maintenance and management schedules, and drawings of the landscape and visual mitigation measures for mitigation of the landscape and visual impact arising from the construction of the Central-Wan Chai Bypass - Central Interchange Project. Layout plans showing the site boundary and locations of the sensitive receivers are attached in Appendix A.

The Figure 7.5 in Appendix A was extracted from the Central – Wan Chai Bypass and IEC Link EIA Report (Register No.: AEIAR-041/2001) (EIA Report) and the locations of key visual sensitive receivers refer to Table 7.4 of the EIA Report for summary of visual impact assessment - impacts on visual receivers.

It is identified that VSR numbers 1-26, 28-29, 78-85 and 98-99 would be the key visual sensitive receivers related to this Project.

With reference to the Urban Design Study for the New Central Harbourfront (UDS), it is noted that the development in the UDS area might require associated transplanting to be addressed in the future. However, the development works in the USD is not covered in the project scope of HY/2009/18.

Part A - Landscape Works

1. Soil Mix

- 1.1. New soil mix shall be used for new planting areas.
- 1.2. Soil mix shall be tested by HOKLAS accredited laboratory and submitted to the Engineer's Representative for approval before installation.

2. Tree Preservation, Transplanting, Felling and Planting

- Initial tree survey was carried out before the commencement of major works of the 2.1. Project and the tree survey report with schedules and photos was submitted to the Engineer's Representative for approval.
- 2.2. The existing trees recommended to be retained shall be protected by means of fencing to prevent vehicular, construction machines or pedestrian intrusion which may potentially damage tree canopies, trunks and root zones.
- 2.3. Tree inspection would be carried out bi-monthly for retained trees and reports would be submitted to the Engineer's Representative.
- 2.4. The method statement for tree preservation and protection is attached in *Appendix*
- 2.5. The tree preservation, transplanting and felling plans for the Project are attached in Appendix C.
- 2.6. The existing trees which are recommended for transplanting in situation that the final location would be available before the construction works would be relocated directly to the receptor site.
- 2.7. The existing trees which are recommended for transplanting in situation that the final location would be available after the construction works would be relocated to suitable nursery approved by the Engineer's Representative.
- Tree inspection would be carried out monthly for transplanting trees and reports 2.8. would be submitted to the Engineer's Representative.
- 2.9. The method statement for tree transplanting is attached in *Appendix D*.
- 2.10. The tree planting plans for the Project are attached in Appendix E.
- 2.11. The shrub planting plans for the Project are attached in *Appendix F*.
- 2.12. The hard landscape sections and details are attached in Appendix G.
- 2.13. In case of additional trees required to be felled during the construction phase, proposal and compensation scheme will be submitted to relevant government department(s) for approval and implemented accordingly upon receipt of approval.

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Part B - Hoarding

1. Screen Hoarding

- Screen hoarding with height of at least 2m shall be erected in stages according to the procession of site area and progress of the Works.
- The hoarding plans (in stages) for the Project are attached in *Appendix H*. 1.2.

2. Hoarding Surface Treatment

- Surface treatment suitable to the urban context shall be applied to the screen hoarding.
- 2.2. The surface treatment figures are attached in Appendix I.

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Part C - Control of Night Lighting

1. Night Lighting Arrangement

- Spotlights shall be used as night lighting for the site. Unnecessary lighting would be switched off.
- The spotlights shall be directed to the site area and controlled to divert from 1.2. adjoining residential and hotel development.

Part D - Implementation Programme, Maintenance and Management Schedule

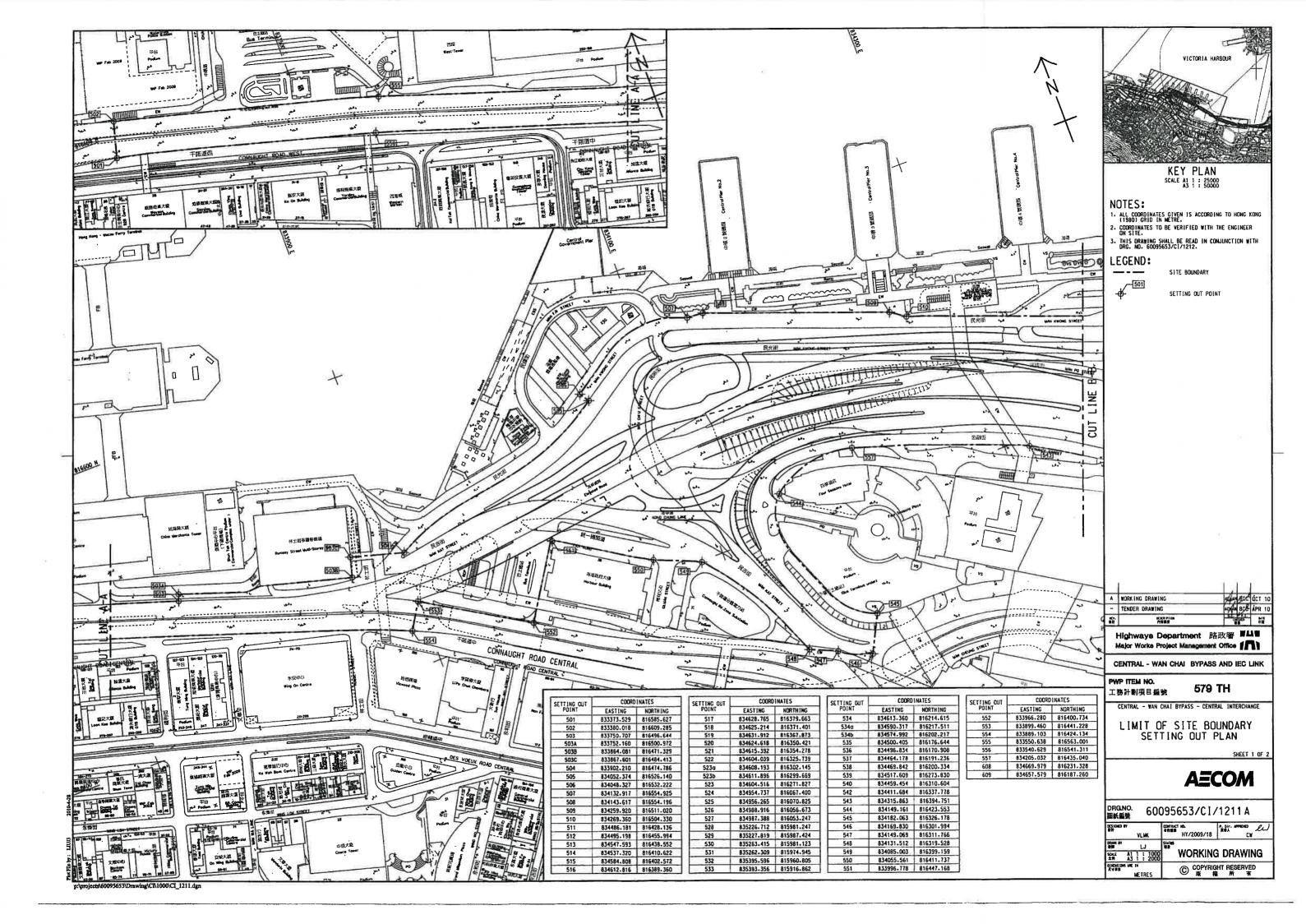
1. Implementation Programme

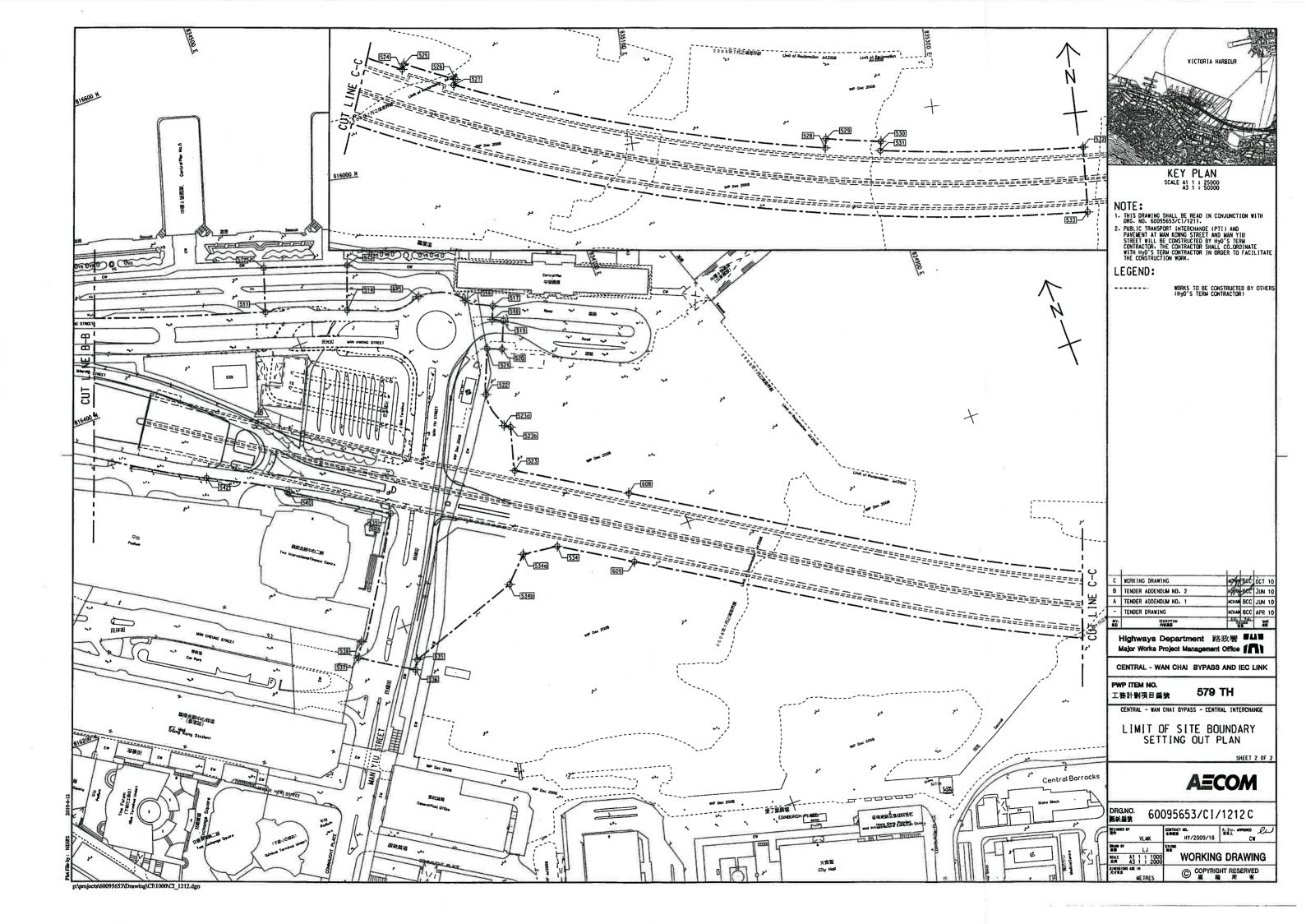
Item	Mitigation Measures	Location / Timing
A1.	Approved new soil-mix for new planting areas.	New planting areas /
		Entire construction period.
A2.	Retention and protection of existing trees where	Entire works area /
	feasible and transplanting of trees those are in	Entire construction period.
	conflict with the road works (where practical).	(tree protection and transplanting
	All in accordance with the tree preservation,	to be carried in stages to suit the
	transplanting and felling plans.	programme of the works)
B.	Screen hoarding to be installed, where	Entire works area /
	appropriate, with surface treatment suitable to	Entire construction period.
	the urban context.	(hoarding erection to be carried in stages to suit the programme of the works)
C.	Control of night time lighting.	Entire works area /
		Entire construction period.

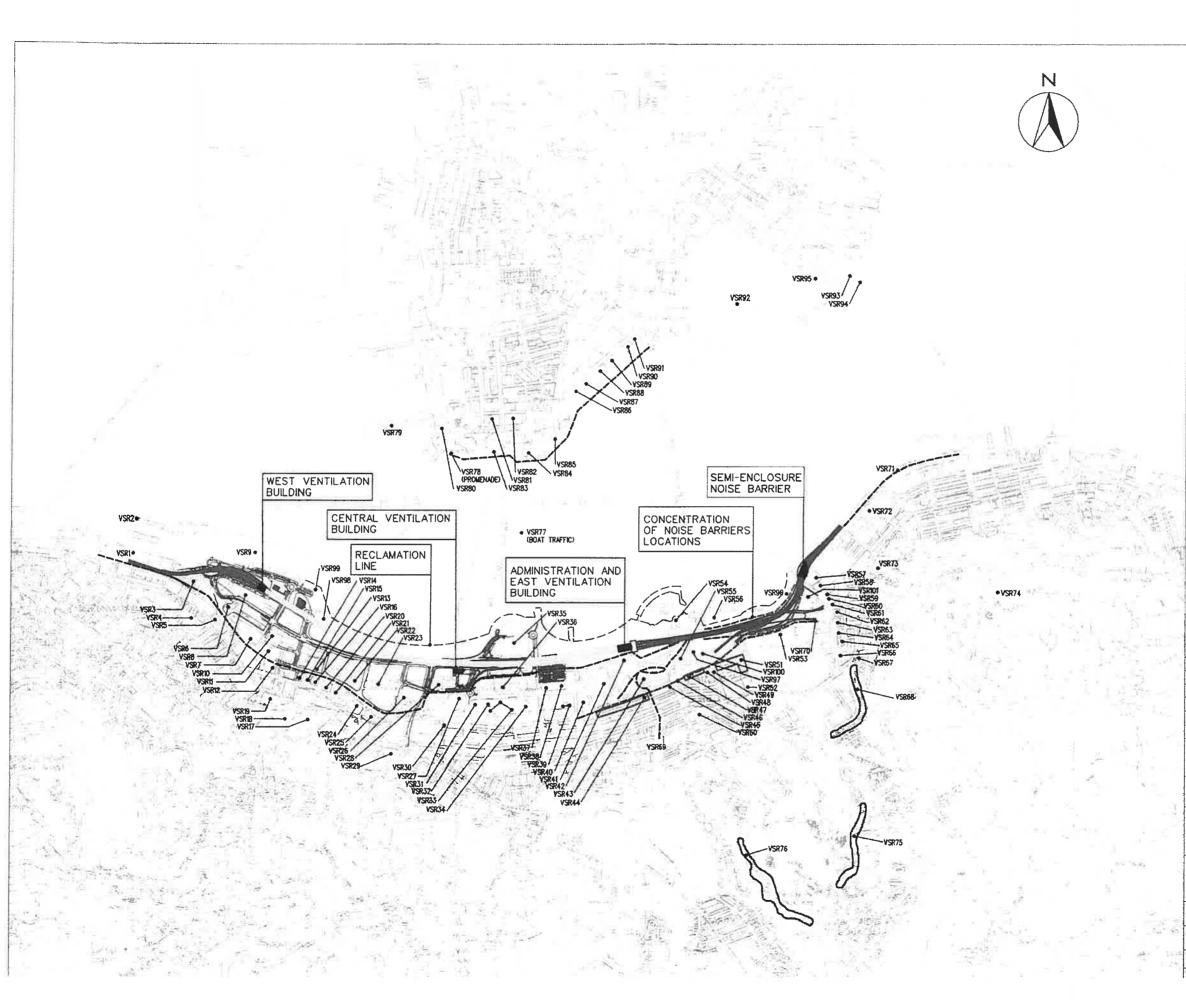
2. Maintenance and Management Schedule

2. Maintenance and Management Schedule				
ltem	Maintenance and Management Schedule			
A1.	Soil mix shall be tested and submitted to Engineer's Representative for approval before installation.			
A2.	Tree protection measures shall be checked during routine inspections and shall be repaired wherever necessary.			
	Tree transplanting works would only be carried out by experienced transplanting sub-contractor and under the supervision of a registered landscape architect / certified arborist / experienced transplanting supervisor approved by the Engineer's Representative.			
	Transplanted trees would be closely monitored and maintained by the experienced transplanting sub-contractor.			
B.	Screen hoarding and surface treatment figures shall be checked during routine inspections and shall be repaired wherever necessary.			
C.	Spotlights (if any) shall be checked every night to ensure that they are controlled to divert from adjoining residential and hotel development.			

Appendix A Layout Plans showing the Site Boundary and **Locations of Visual Sensitive Receivers**







LEGEND :

• VSR1 TO • VSR95 LOCATIONS OF KEY VISUAL SENSITIVE RECEIVERS REFER TO TABLE 7.4 FOR SUMMARY OF VISUAL IMPACT ASSESSMENT-IMPACTS ON VISUAL RECEIVERS



ELEVATED AND AT GRADE TRUNK ROAD AND SLIP ROADS

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TRUNK ROAD IN TUNNEL

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A	ADDITIONAL VSRs			JAN 0
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		-	1	

Highways Department 路政署 山山 Major Works Project Management Office 1

CENTRAL - WAN CHAI BYPASS AND IEC LINK PROJECTS REVIEW STUDY

LOCATIONS OF KEY VISUAL SENSITIVE RECEIVERS

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Appendix B Method Statement for Tree Preservation and Protection

1 Introduction

1.1 Overview

This Tree Preservation and Protection Plan is written for the Contract No. HY/2009/18 Central - Wan Chai Bypass Central Interchange to meet the contract requirements as stated in the General Specification Clause 26.02.

The works description for this Contract comprises the followings:

- a) Approach roads leading to the CWB tunnel west portal:
- b) At grade slip roads and associated roads;
- c) The bridge deck for the westbound carriageway of Rumsey Street Flyover Extension:
- d) The eastbound Slip Road D flyover;
- e) Modification/demolition of the existing dual 2-lane tunnel under Man Yiu Street;
- f) Cut-and cover tunnel between the CWB tunnel west portal and the limit of tunnel to be completed under the CRIII contract;
- g) Sub-structure, basement and foundations for the West Ventilation Building;
- h) Civil works provisions for tunnel Electrical & Mechanical and Traffic Control and Surveillance System works;
- i) Widening/modification of existing Man Yiu Street; and junction for road P1;
- i) Associated road works and drainage/sewerage works: and
- k) Landscaping works including tree transplanting.

1.2 Purpose of the Plan

This Plan provides guidance on the physical and appropriate precautionary measures required in order to reduce significant or detrimental impact on the health or amenity of retained and transplant trees.

Preservation and Protection 2

2.1 General

- a) The proper color label should be fixed on the tree trunk in order to identify the status of preservation, (Green – Retaining on Site)
- b) The existing trees recommened to be retained shall be protected by means of fencing to prevent vehicular, construction machines or pedestrian intrusion which may potentially damage tree canopies, trunk and root zones.
- c) The trees to be felled or transplant, which are adjacent to, or which lie within a continuous canopy of the preserved trees, shall be carefully removed, and if necessary in sections but not using bulldozers in any circumstances, so as not to cause damage to the preserved trees such as scraping bark off trunks or breaking branches of trees.
- d) No stripping of surface vegetation or top layer of soil, and no paving or earth filling shall be carried out within the tree protection zones unless otherwise agreed by the

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Engineer.

- e) Where it is necessary to clear the existing undergrowth within the tree protection zones to allow access and visibility for, and operation of any construction work.
- Shrubs shall be pruned and grass or other herbaceous plants shall be cut to a height of not less than 50 mm above the ground level but not pulled out by equipment in any circumstances
- The agreement of the Engineer shall be obtained before vegetation clearance commences
- f) No concrete mixing, gas tank filling, paintbrush and tool cleaning, or equipment maintenance shall be carried out within the tree protection zones,
- g) Allowance shall be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards the trees.
- h) All materials should be covered when idled.
- i) No accumulation of debris to excessive shall be permitted.
- i) Store the material in a designated area for temporary storage. The designated area should be kept a reasonable distance from the working area such that it will not obstruct the public and workers.
- k) Repair any damage to the trees in accordance with the requirements stipulated in General Specification 26.16.

2.2 **Tree Protection Zone**

- a) The tree protection zone of the retained trees will be the area within the dripline of the tree crown of individual tree.
- b) Use of temporary protective mulching to cover the entire tree protection zones.
- c) Any necessary scarification or cultivation within the tree protection zones shall be carried out carefully by hand so as not to cause damage to the trees, in particular the bark and the roots,

2.3 **Branch Cutting**

- a) Branch cutting with diameter more than 25 mm will be carried out according to the following situation. The individual Tree Assessment Report is required and to be approved by the Project Manger of the project.
- Hazardous branches is necessary to remove branches of a tree when they are damaged in order to give clearance e.g. for pedestrian and vehicular traffic by taking away the lower branches, to help the tree to form a balanced crown and to remove crossed branches.
- Defect branches are necessary to remove branches of a tree when they are diseased, dying or dead.
- b) Carefully lower all cut branches to the ground to prevent any damage to limbs being retained.
- c) The procedure of the branch cutting as followed.
- If the location of cutting branch is located at the height higher than 3 meter. The Lifting platform will be used to lift the skilled labour to a suitable level for branch cutting.
- Two ropes will be used to fix at the tip of the cut branch that will be held by 2

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- labours on the ground in order to guide the direction of the falling branches.
- Cutting of branches will be carried out using 3-cut method in order to prevent tearing of tree bark in branch cutting.
- Pre-cut is carried out at the under-side of the tree to about 1/4 of the diameter of the cutting branch.
- A safety rope will be used to fix the ends of the remaining portion for 2nd cut.

2.4 Tree surgery

- a) Cut out rotten wood from cavities, without exposing clean healthy wood.
- b) The contractor shall carry out all necessary work of repair of any damage to the preserved trees and other plants affected.

2.5 Treatment of Wounds

- a) All loose, dead or damaged barks should be removed. The back of crushed edges to undamaged wood should be trimmed with all margins round.
- b) Any cut or wound over 25mm diameter should be painted with an approved fungicidal bituminous sealing compound afterwards.

2.6 Post-planting Fertilizer

Post-planting fertilizer shall be applied after the tree pruning, weeding and treatment of wounds.

2.7 **Disease and Pest Control**

- The inspection will be carried out by the specialist bi-monthly and identify the infected area of tree body.
- b) The approved chemical pesticide and fungicide will be applied using manual or gasoline sprayer according manufacturer's instruction

2.8 **Tree Trunk Protection**

- a) The tree trunk should be wrapped and covered from the ground level and up to 2m of the tree trunk by armouring the Hessian Mat.
- b) Removal of temporary protective armouring and mulching upon completion of work.

2.9 **Bi-Monthly Inspection**

An inspection report comprising updated photographic records should be submitted in every two month to identify the required horticultural maintenance works.

3 Risk assessment

Risk assessment is an important tool to identify the hazards associated with work activities to be carried out on site, and to develop and implement appropriate control measures to eliminate / minimize the risk of accident / incident caused by these hazards.

In term of tree preservation and protection plan, the project management should carry out a detail assessment to identify the potential hazards (e.g. Hit by live traffic) and their causes (e.g. narrow road) in the planning stage for identifying the special arrangements and/or control measures to deal with such hazards.

Table 3-1 Risk Summary of the Tree Preservation and Protection

Hazard	Risk Level	Action
a) Hit by live traffic	Medium	 Enclose the work area with suitable barriers or traffic cones Flash light & signage arrangement should be strictly placed according to the approved TTA drawing Reflective vest shall be mandatory and be worn all time on site Provide trained banksman for traffic diversion if necessary All the workers should be briefed in daily basis to remind the job hazard and remedial measures
b) Hit by Falling branches / equipment	Medium	 Fence off the working area Provide competent tree surgeons Provide safety helmet with chinstrap to workers (meets EN397 or equivalent) Tie up the branch being cut off to control the fall and fasten up the equipment while in use Branches to be cut in small section
c) Hit by moving crane / cherry picker	Medium	 Flash light & signage arrangement should be strictly placed according to the approved TTA drawing Display sign and warning notices to aware the general public Properly fencing should be provided to fence off the public Secure the trees those near the trench work before excavation commence

d) Tree falling	Medium	- Flash light & signage arrangement
		should be strictly placed according to the
		approved TTA drawing
		- Display sign and warning notices to
		aware the general public
		- Properly fencing should be provided to
		fence off the public
		- Secure the trees those near the trench
		work before excavation commence
e) Tripping	Low	- Safety shoes shall be manadatory and
		be worn all the time on site
		- Provision of good housekeeping
f) Hand or back injury during	Low	- Provide sufficient labour force to carry
manual handling operation		out manual lifting works
3		- Conduct manual handling training /
		briefing
		- Split work into small sections, avoid
		bending for long periods
g) Long exposure under the	Medium	- Ensure workers carrry enough water
sun	cara	when working on site
		- Take short breaks if working for long
		periods
h) High noise level	Medium	- Conduct noise assessment and
,ge.e .e.e.	, icaiaiii	demarcate ear protection zone
		- Provide and ensure to wear approved
		type ear protector by person within ear
		protection zone (meets EN352 or
		equivalent)
i) Contact with overhead	Medium	- Check and ensure no work to be carried
lines / Use of electric hand	Mediaiii	
1		out in the vicinity of overhead line cables
tools		- Inspect the electrical hand tools by
		Registered Electrical Worker to ensure
		tools are in good working condition
		before use
	İ	- Use low voltage electric hand tools
	İ	(110V)
		- Use waterproof socket / plug, amour
	l	cable in outdoors
		- Provide fire extinguisher
1	Medium	- Provide and ensure to use safety eye
and wood dust getting into		protector (meet EN166 or equivalenet)
eyes		during work
		- Provide and ensure to use mouth mask
<u> </u>		(N95 or equivalent)
k) Cut by sharp tools	Medium	Provide proper gloves to workersProvide training briefing to the workers

I) Tampling of suggest the suggest that	Madium	There are the annual to an array at a late
I) Toppling of crane / cherry	Medium	- Inspect the ground to ensure stable
picker / Man cage failure		condition before setting up of crane
		- Appoint licensed crane operator to
		operate crane
		- Appoint trained cherry picker operator
		to operate cherry picker
		- Display valid test certificate on crane
		- Inspect the crane by operator on weekly
		basis, include ASLI
		- Inspect the cherry picker at regular
		intervals
		- Extend the outrigger completely of the
		crane if practicable
		- Use tested lifting gear with marking and
		safe working load
		- Apply colour code system to LG
		- Check condition of lifting gear before
		use
		- Provide and ensure to use fall arresting
		device (meets EN361 or equivalent)
m) Contact with chemicals	Medium	- Provide masks if required
		- Ensure tree surgeons wear hand gloves
İ		and proper PPE to avoid contact with skin
		- Provide goggles
		- Perform the safety precautions those
		· · ·
		listed in MSDS

4 **Emergency Contact**

All Preservation and Protection related accident/ incident occurred within works area of this project shall be promptly reported to project safety department. Rescue, investigation and further reporting procedures shall follow the requirements as stated in the Safety Management Plan.

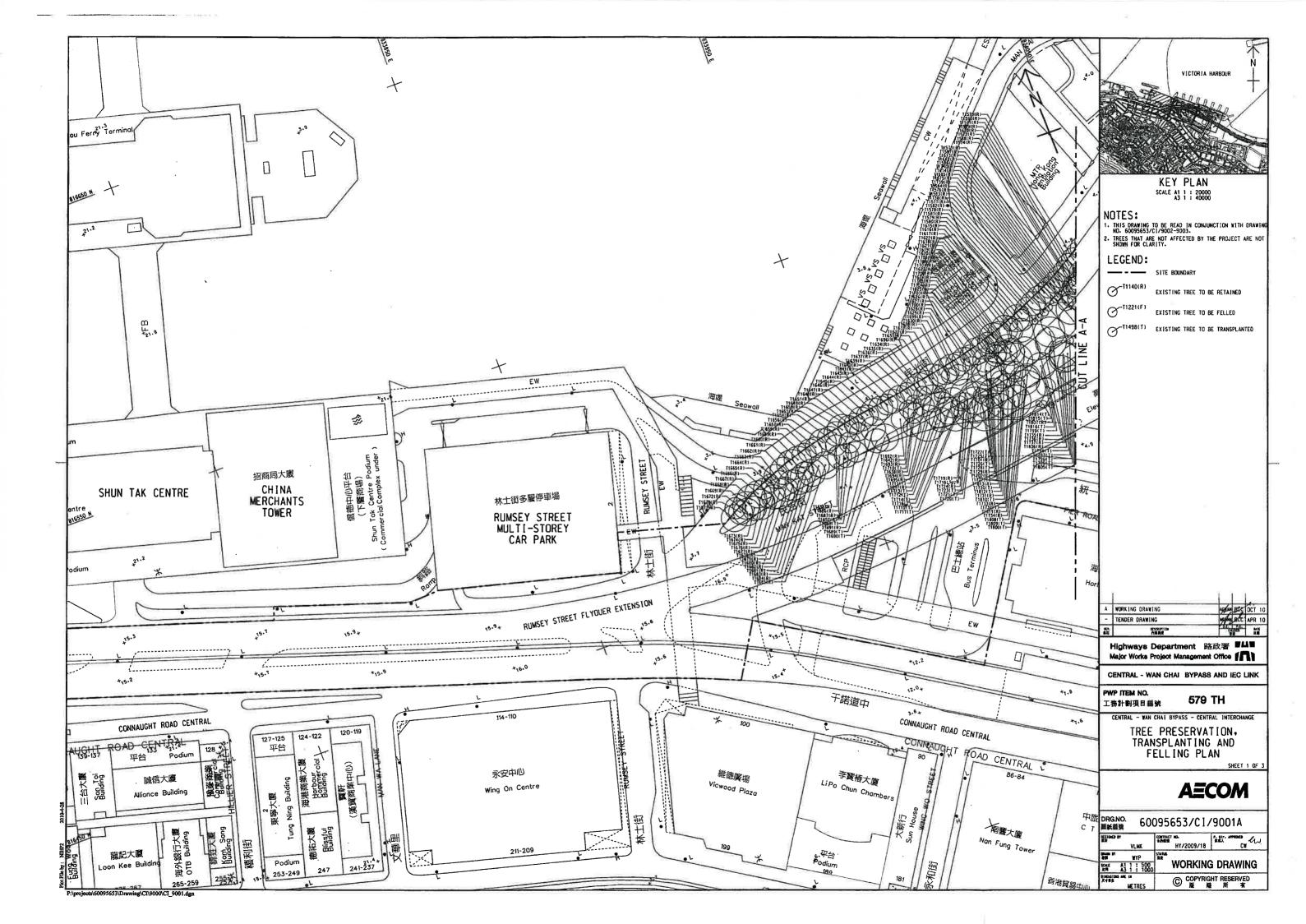
5 **Inspection and Testing Requirements**

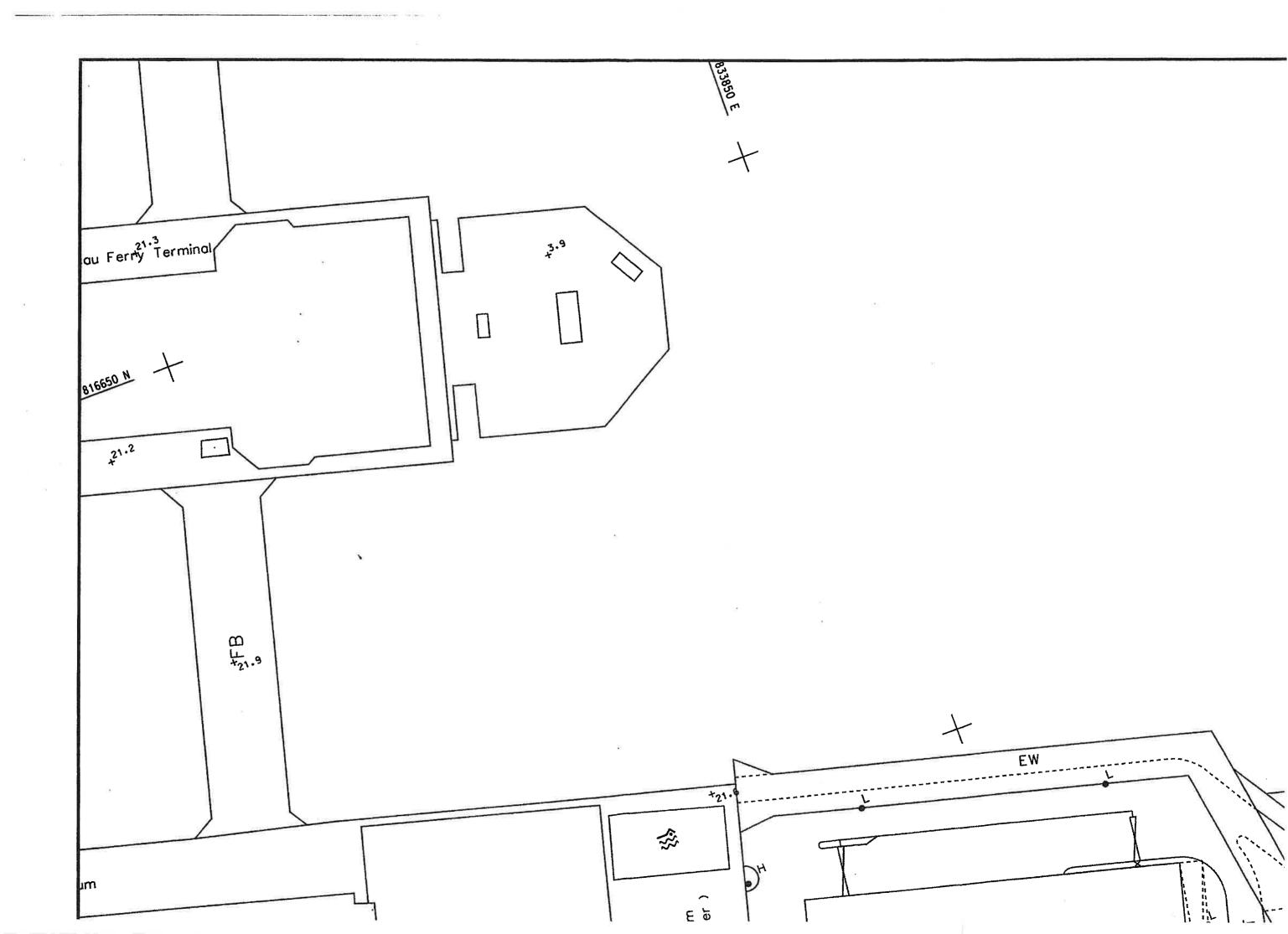
Complete photograph record of entire transplanting operation at various stages of works. ER will be informed to participate at various stages.

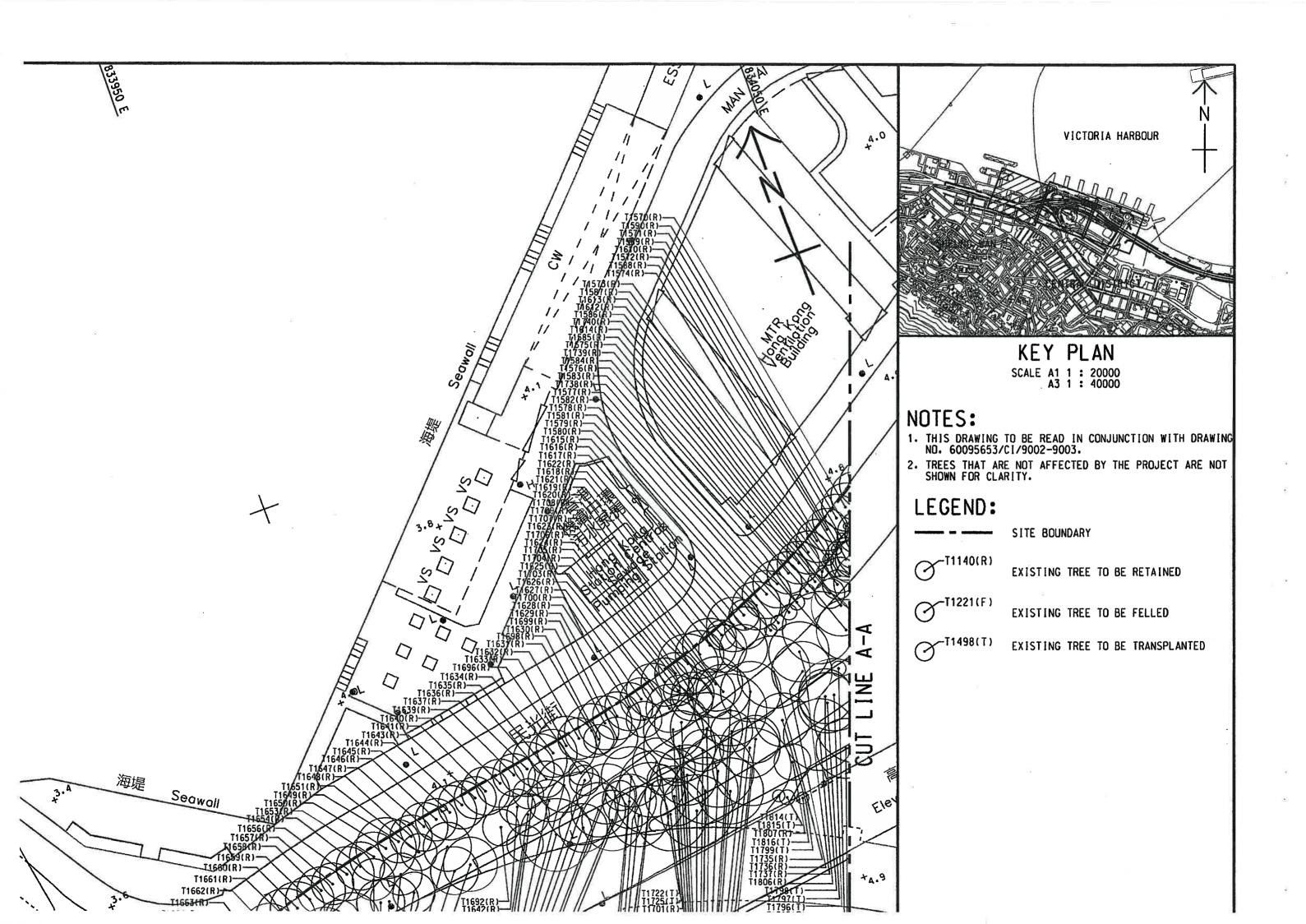
Appendix C Tree Preservation, Transplanting and Felling Plans

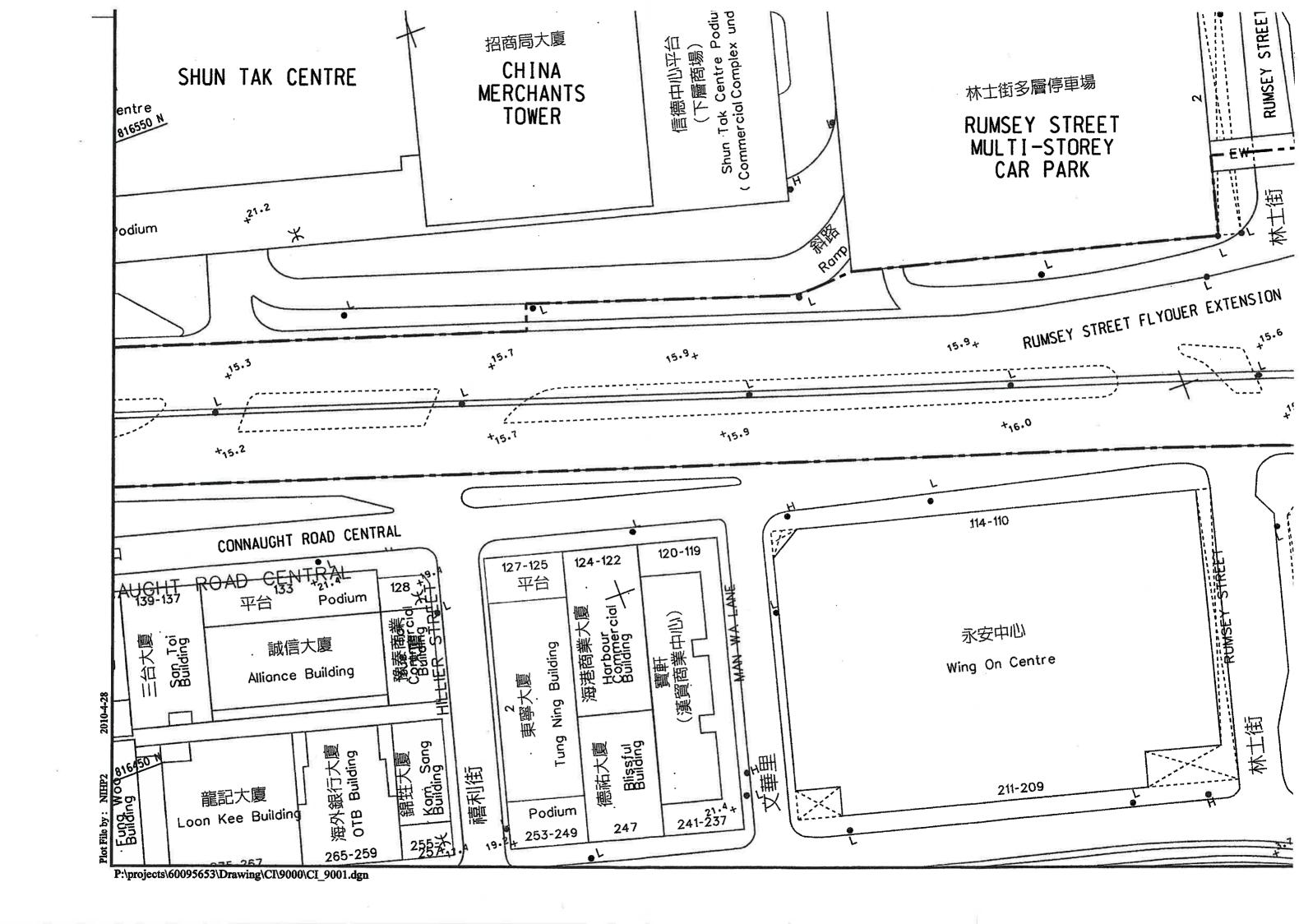
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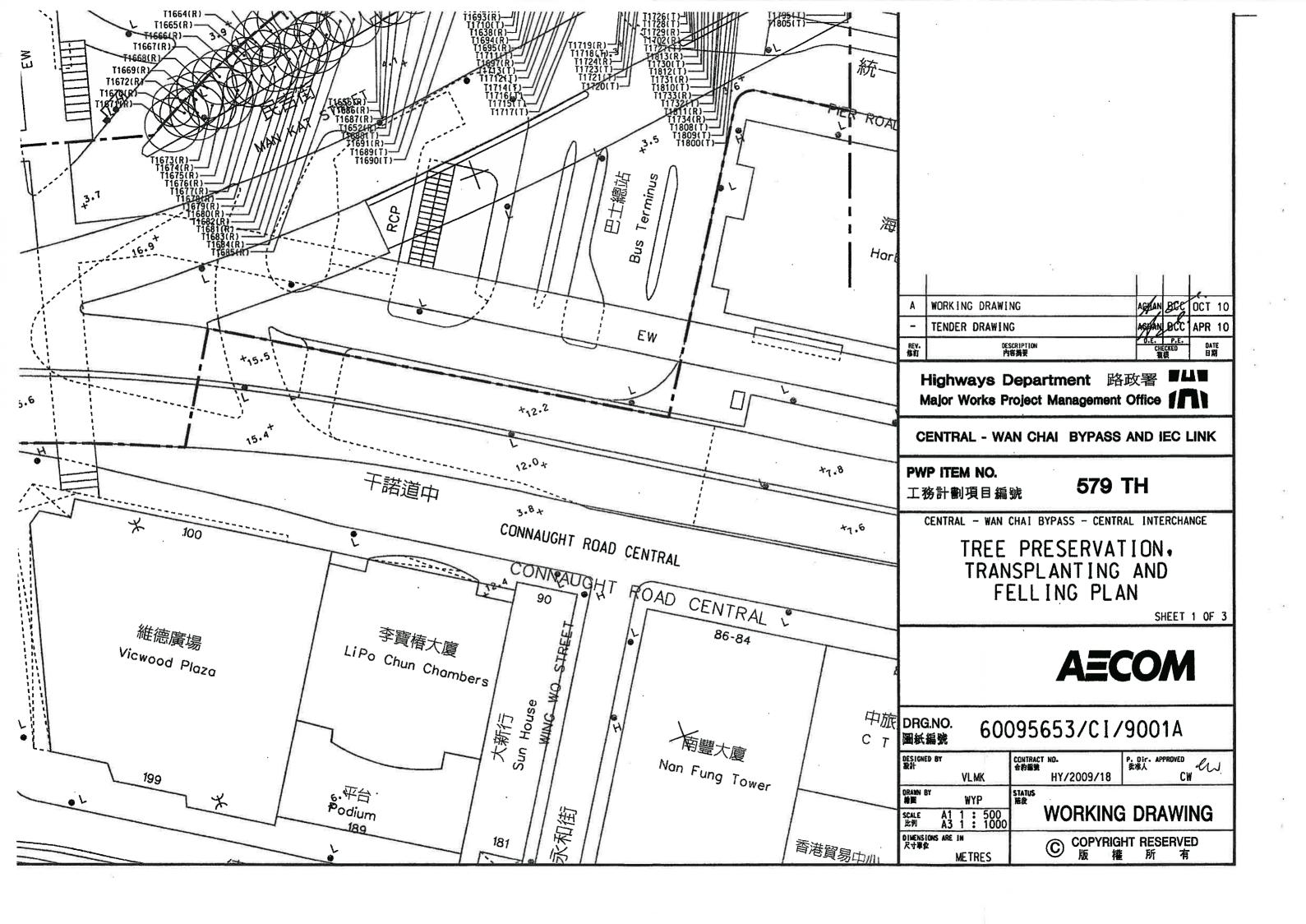
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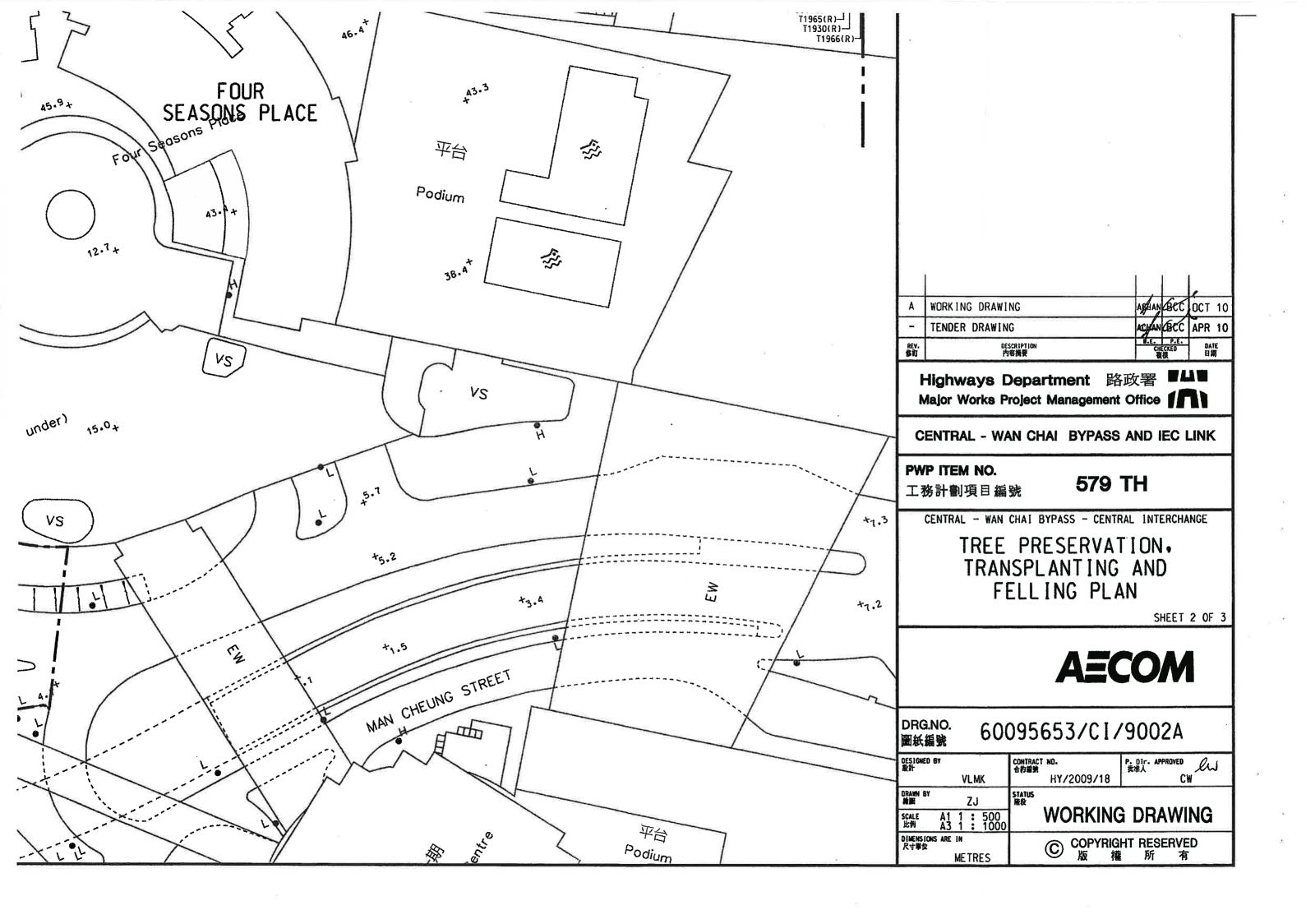


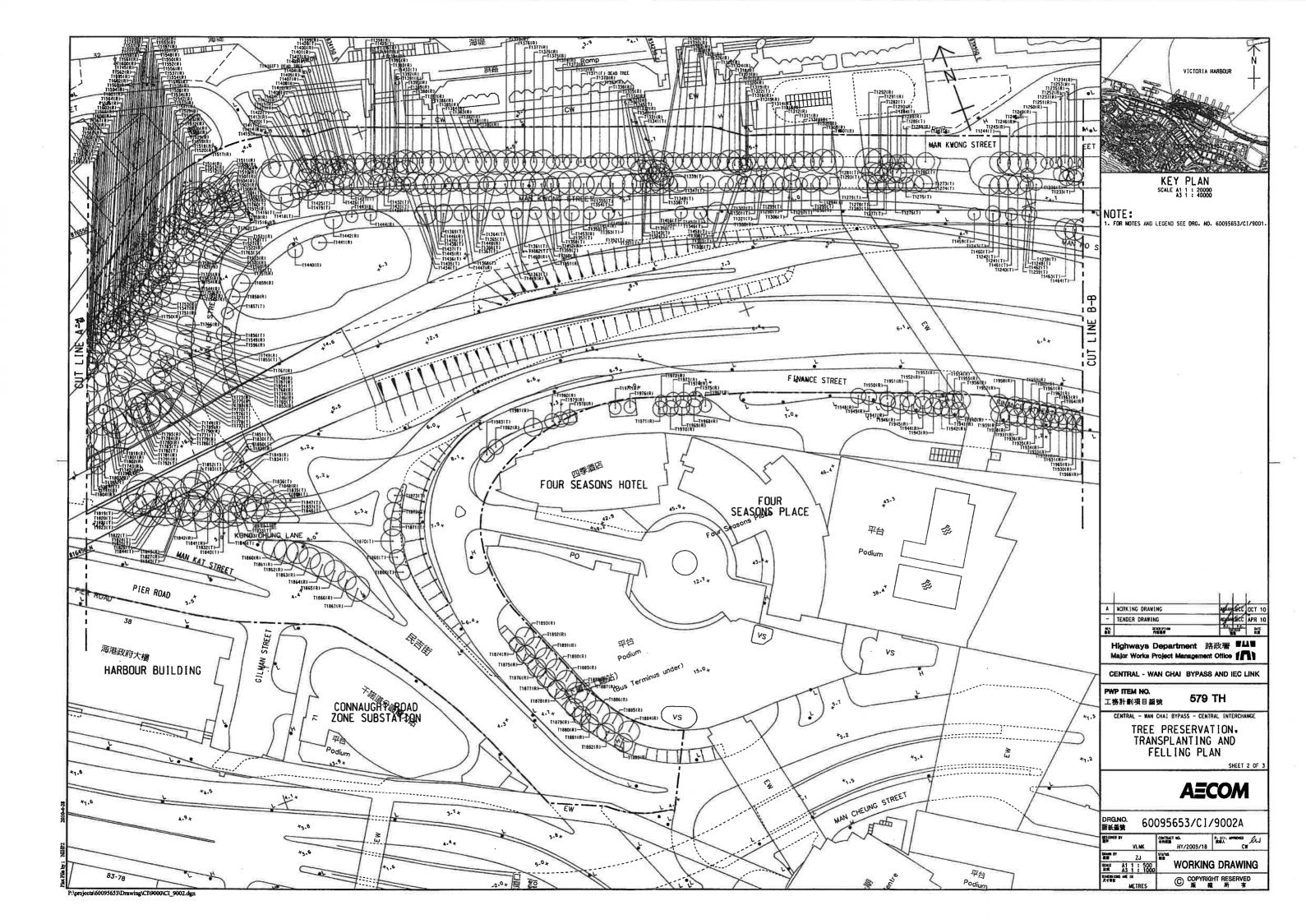


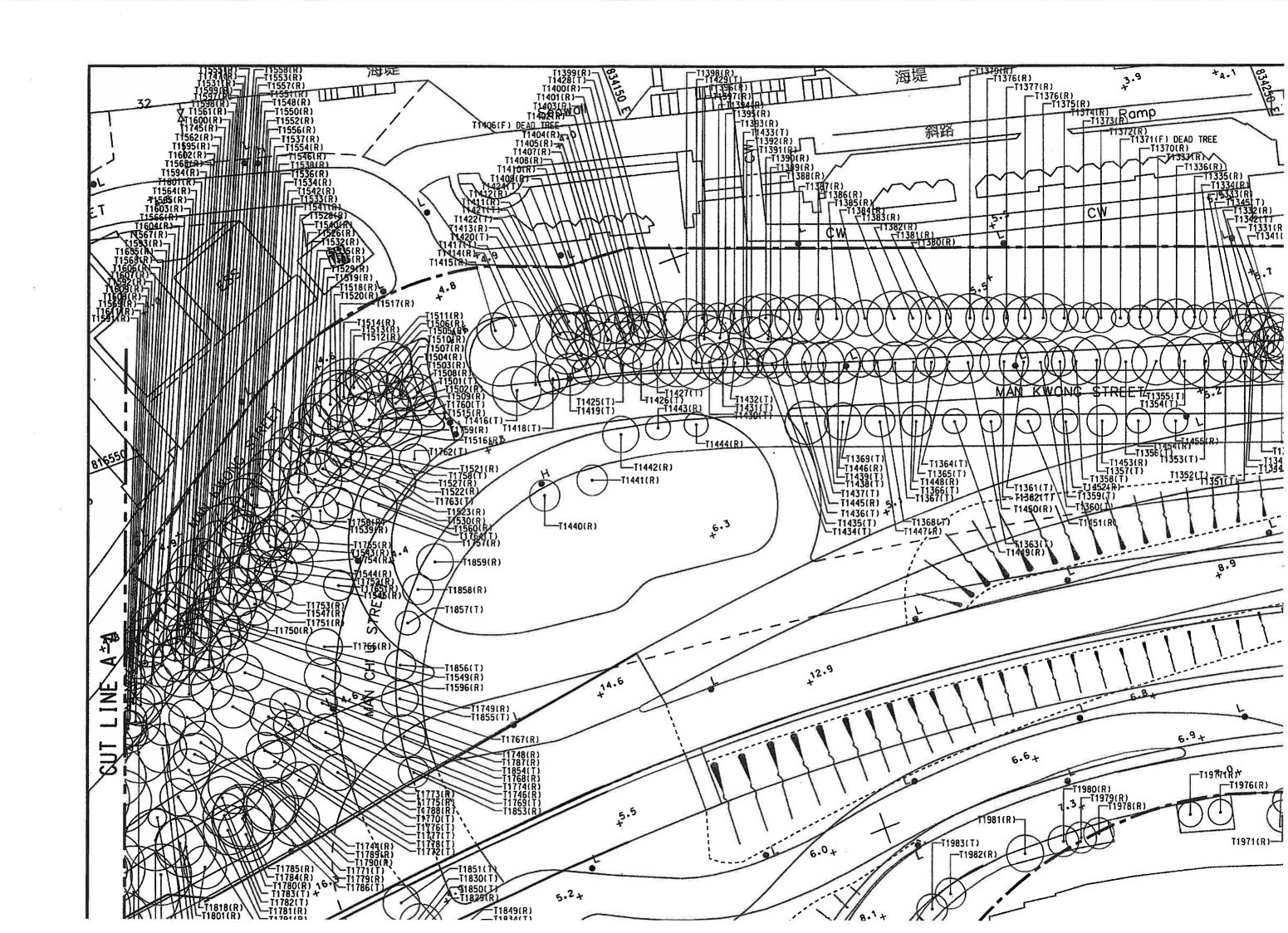


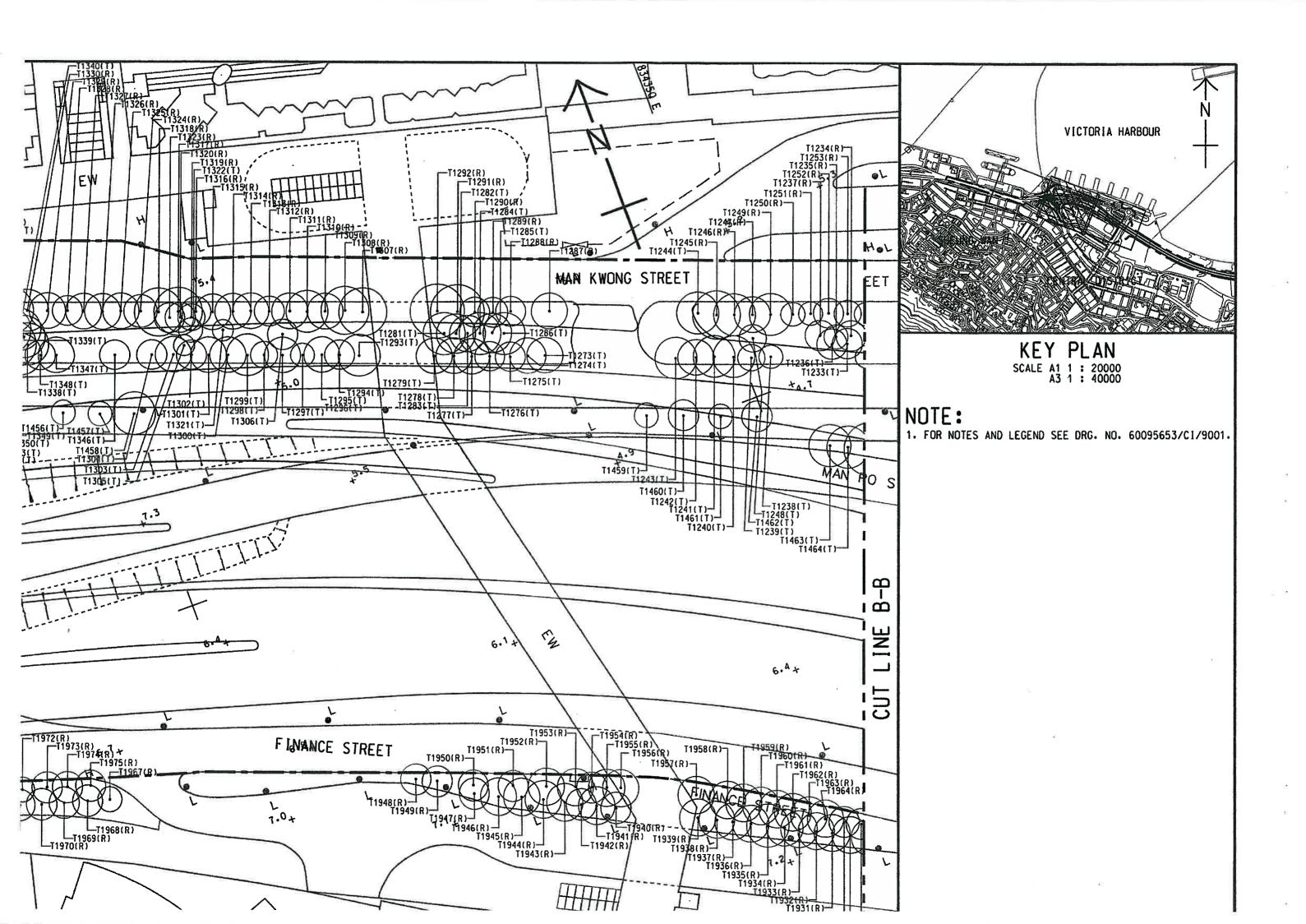


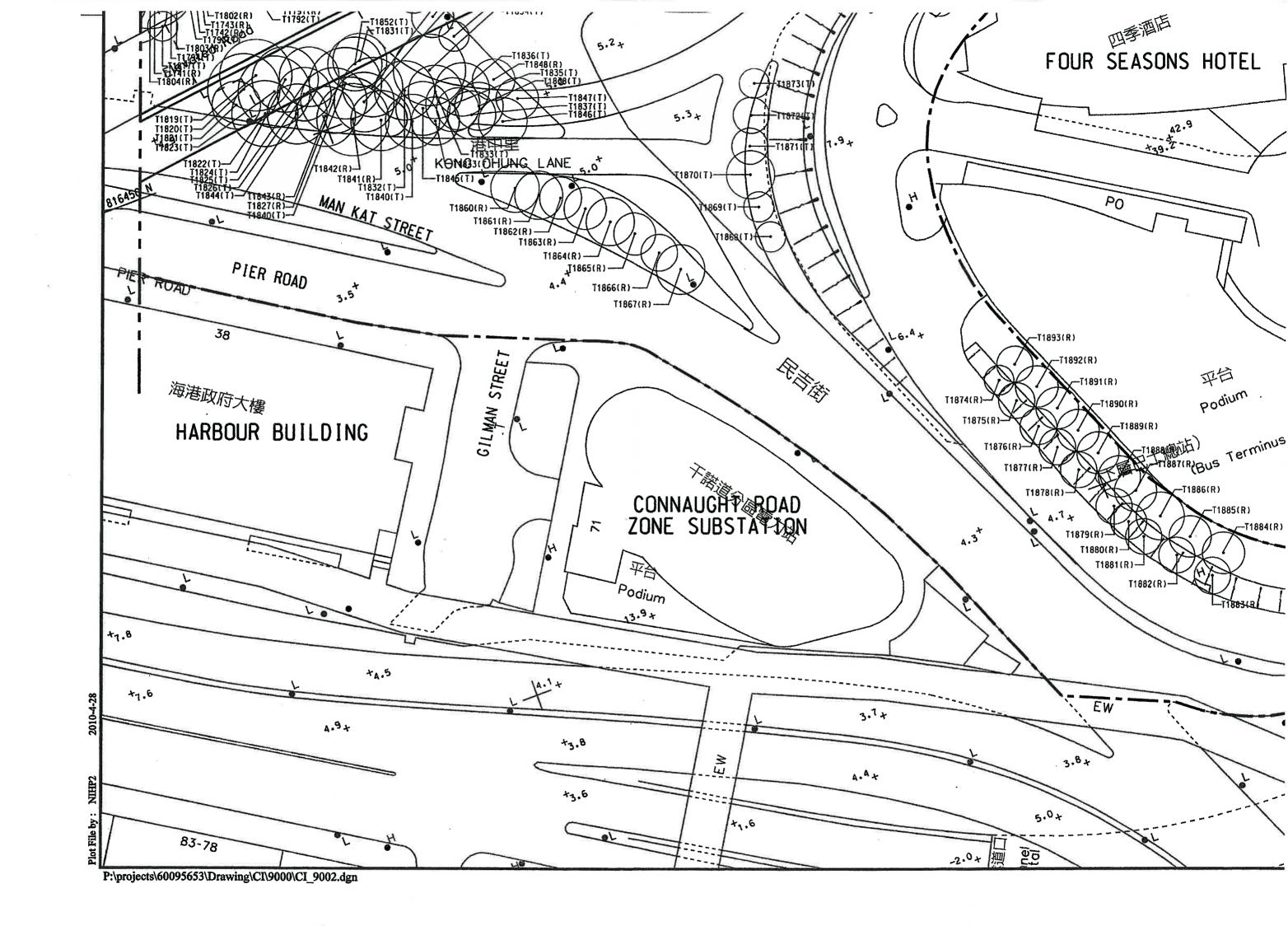


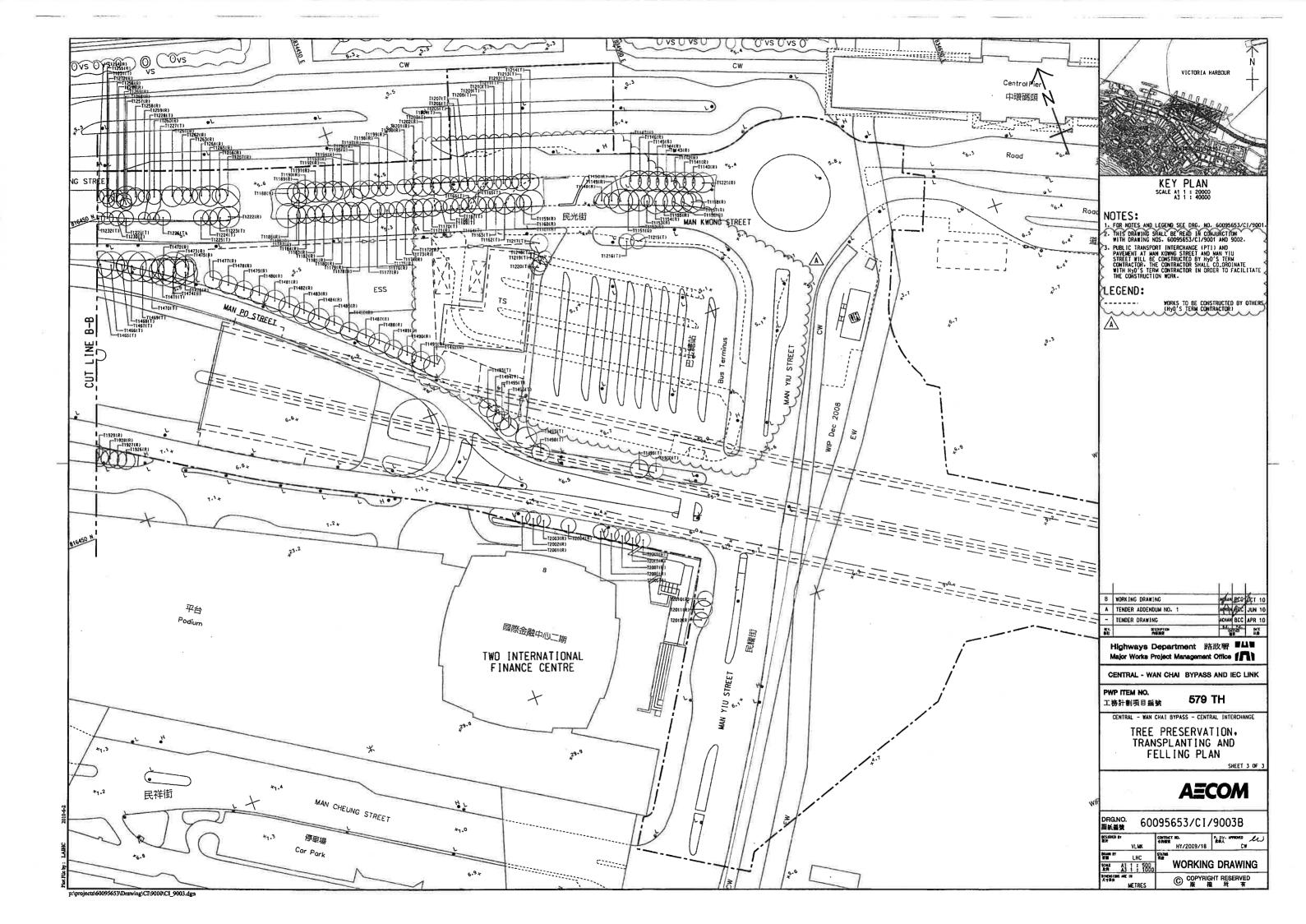


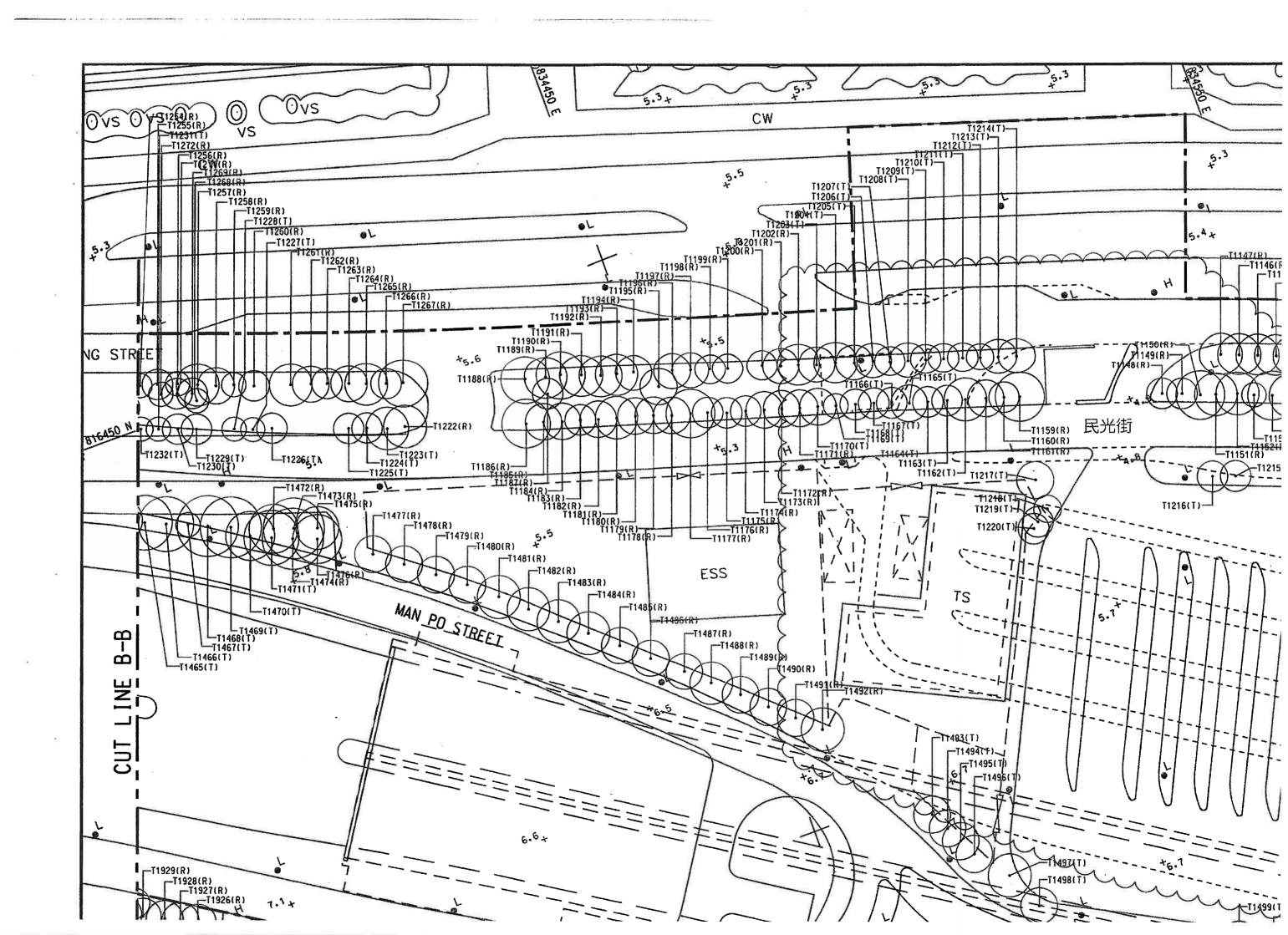


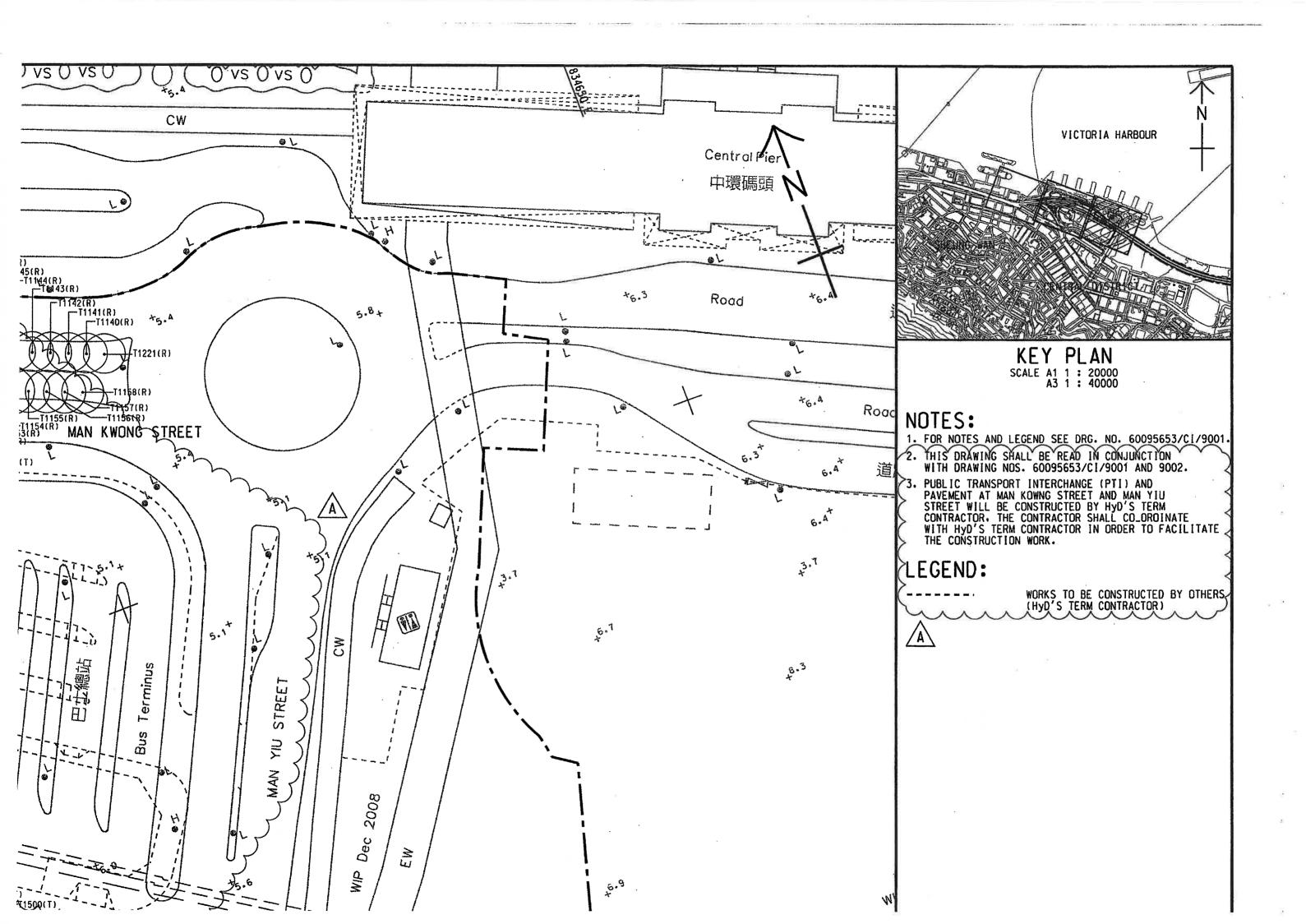


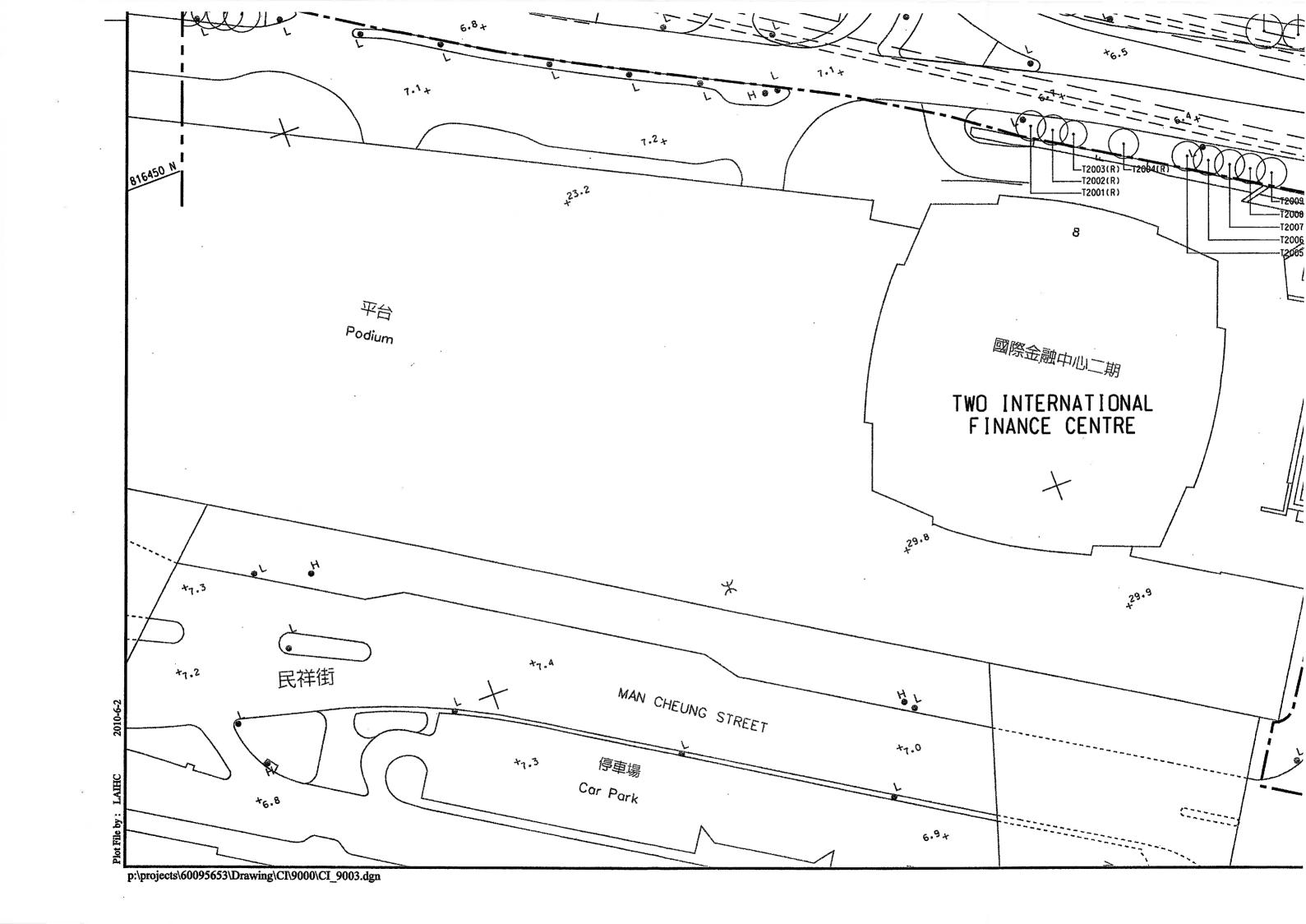


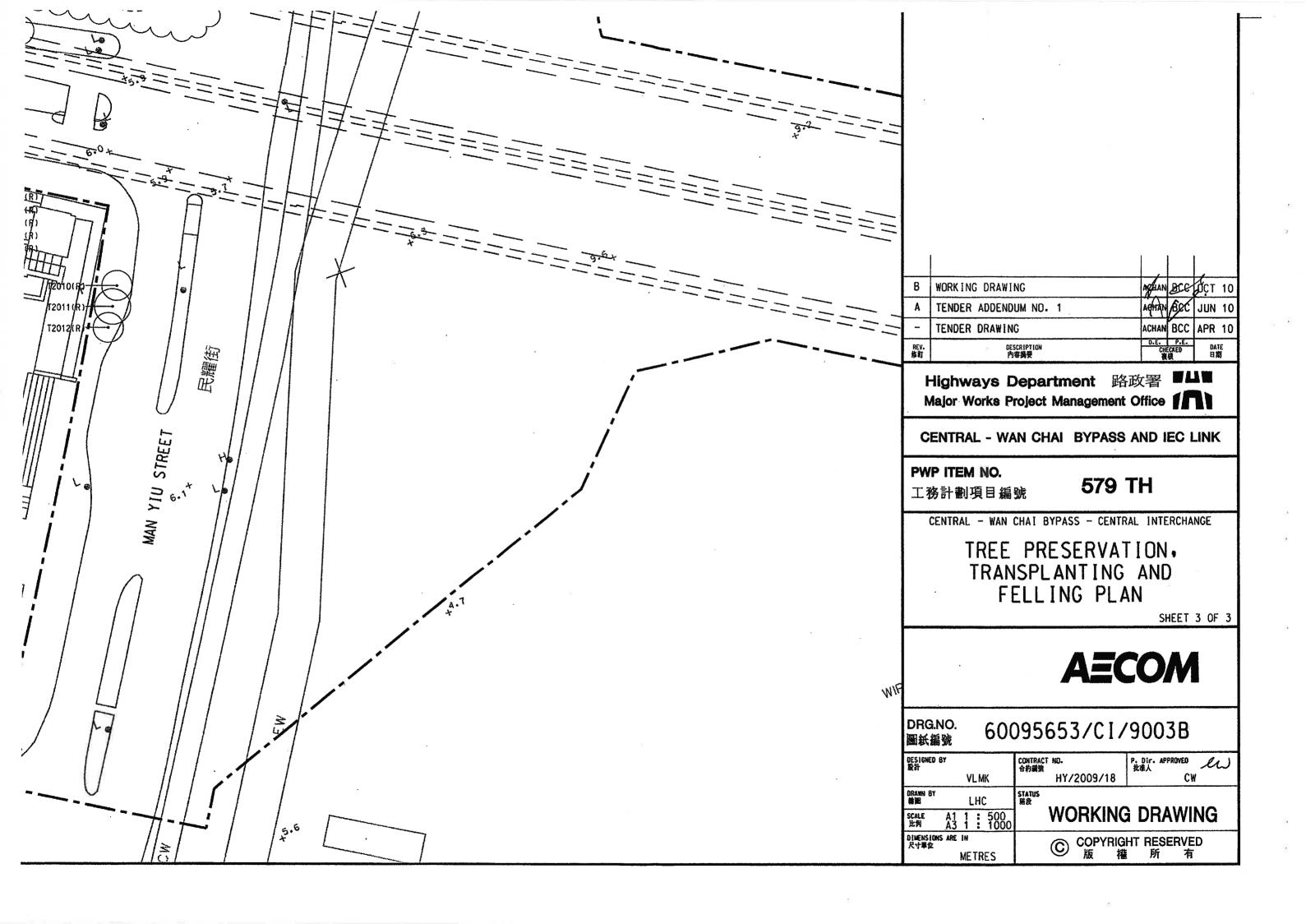












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Appendix D Method Statement for Tree Transplanting

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Tree Transplanting Works

Method statement number: H2540-MS-OPR-014 Rev.1

Prepared by:	TOYO Greenland Company Ltd.	4 Jan 2011
	Name Rachel Yan	date
Reviewed by:	Eric Yuen lim Graduate Engineer	4 Jan 2011
Reviewed by:	Casey Lau K. C. Lance Construction Manager	4/1/2011 date
Reviewed by:	CK Chan Safety Manager	4-1-2011 date
Reviewed by:	Stephen Moc Quality Manager	4 JAW 2011
Reviewed by:	Anfernee Chow Environment Officer	04/01/2011
Reviewed by:	Michael Ryan M. G. Engineering Manager	04/01/2011 date
Approved by:	Brian Gilon Site Agent	date

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1. Scope

This Method Statement provides guidance on the physical and appropriate precautionary measures required in order to reduce significant or detrimental impact on the health or amenity of transplant trees.

2. **Construction Procedure**

2.1 Preparatory Work

- 1) All safety equipments will be checked before use.
- 2) All safety tools and machinery certificates will be checked before use.
- 3) All the temporary traffic arrangements should be set up.
- 4) Safety precautions shall be taken to protect those engaged in operation as well as people and properties in the vicinity. Safety fence/barrier will be set up around the working area at outer 2 meters to avoid people walking closely and against the hazards of the falling objects.
- 5) Working area shall be restricted from outsiders.
- 6) The correct tree label with unique color should be marked in order to identify the correct tree to be transplanted.
- 7) All works should be supervised by our on-site tree work supervisor.
- 8) The extent of branch pruning should be identified as per the attachment prior to the pruning work.

2.2 Crown Pruning

- 1) To reduce water loss through transpiration by removal of foliage as necessary. The natural shape and form of a balanced crown shall be preserved. A crown may be reduced to not more than 1/3 of its original crown by selective pruning such as the removal of crossing or malformed branches.
- 2) During the branch pruning operation, a natural shape and form of a balanced crown shall be preserved.
- 3) Large branches shall be cut and removed by 3-cut method. In the beginning stage with the removal of the main weight of the branch with the final cut as close as to the main stem as possible without damaging the bark.
- 4) Small branches and twist shall be cut and removed by using clean, sharp implements to give a single, sloping surface, the ragged edges of bark shall be trimmed with hand saws or secateurs.
- 5) All cuts shall be made to avoid splintering or tearing of the bark.
- 6) Cracks, cavities or rotten wood shall be cut back to living tissue.
- 7) The dead and/or damaged branches of transplanting tree shall be pruned to produce a well-shaped balance crown.
- 8) The extent of the crown thinning shall be determined and approved by the ER as stipulated in PS 3.97(19).

2.3 Root Pruning

- 1) Provision shall be included to secure the trees on the site immediately during the root pruning.
- 2) The diameter of root ball to be cut shall be determined by the Contractor and approved by the ER. The rootball to be cut should be 8-10 times the trunk diameter at breast height and

not less than 1500mm diameter, and 750 - 1000mm deep. A maximum size of root ball will be maintained whereas practical and necessary to ensure the higher survival rate for transplanted trees. The rootball size will be determined and marked on the ground around the tree to get approval of the ER before root pruning

- 3) Roots which are severed in the course of root pruning shall be cut cleanly.
- 4) After completion of each stage of root pruning, trenches shall be backfilled with soil mix to encourage new growth of roots.
- 5) Root activator shall be applied at regular intervals according to the manufacturer's instruction.
- 6) Root pruning and lifting shall be carried out in four stages at one-month interval.
- 7) The circle will be divided into 6 equal segments. Before lifting, the outer edge of the previously dug trenches shall be loosened from the surrounding soil and the root ball will be undercut to allow the tree to be lifted free from the ground with the root ball intact.
- The first stage shall involve digging a trench on the outside of the marked circumference, in only two opposing segments
- The second stage shall involve digging a trench on the outside of the marked circumference, in only two opposing segments.
- The third stage shall involve digging a trench on the outside of the marked circumference in the last remaining two opposing segments.
- The last stage shall be the cutting of the underside of the root ball, followed by uplifting and transplanting.
- 8) The trunk and lower branches will be wrapped with approved hessian and tied with jute string at least one day prior to rootball preparation.
- 9) After the completion of each stage of root pruning, trenches made are to be backfilled with soil mix. Root ball shall be watered and kept moist from time to time during the preparatory period to stimulate re-generation of new roots.
- 10) At each stage of root pruning, those trees to be transplanted shall be inspected for signs of deterioration in their health. Any such signs shall be brought to the attention of the Engineer.

2.4 Preparation in Holding Nursery

- 1) Wooden or metal box shall be prepared in holding nursery before uplifting of transplanting tree.
- 2) Box shall have dimensions which are 500 mm greater than the size of the root ball of the tree to be transplanted.

2.5 Tree Lifting and transportation

- 1) Coir mat shall be used to wrap and protect the trunk, large branches and root ball.
- 2) Prior to lifting, the root ball shall have been thoroughly soaked with clean water. A crane lorry shall be used to lift trees using nylon straps fastened securely on the rootball.
- 3) Upon lifting, the root ball shall be wrapped and tied with coir mat and kept moist from the time of lifting until it is transplanted.
- 4) Trees shall be transplanted to the designated pit within 2 hours after lifting. The lifted trees will be placed lying flat on the truck platform. The whole tree including the aerial parts shall be immediately covered with a tarpaulin to protect against excessive sunlight, wind and drought. Care shall be taken in packing to prevent over-heating with its resultant loss of foliage.

2.6 Planting in Holding Nursery

- 1) The root balls must be supported by soil underneath to break-up for 300mm and then settled by water.
- 2) Trees shall be off loaded carefully to ensure that no damage is done to the root ball, trunk or branches. Trees will be planted in an upright position, allowing adequate space for growth.
- 3) Soil mix shall be used to backfill the prepared root ball box. Backfilling shall be done in layers each being firmly consolidated to eliminate air pockets.
- 4) Metal Tripod will be fixed in order to secure the transplanted tree.

2.7 Maintenance Work in Holding Nursery

- 1) Watering shall be carried out daily with automatic irrigation system
- 2) Weed removal and pest control will be carried out as necessary.
- 3) Monthly inspection and reporting will be carried out.

2.8 Tree Pit Preparation in Final Location

- 1) The location of the planting pit shall be agreed with the Engineer's representative at least 7 days' in advance prior to the transplanting work.
- 2) Tree pits shall be prepared in final location before uplifting for those trees required to be transplanted.
- 3) The depth of the tree pit should be 300-500mm greater than the size of the root ball of the tree to be transplanted. The base of tree pit shall be broken to a depth of 150mm and filled with water 24 hours before planting to ensure free drainage.

2.9 Planting at Final Location

- 1) Coco peat with 1/3 of the excavated soil shall be thoroughly incorporated into the existing soil excavated from the pits prior to backfilling.
- 2) The root balls must be supported by soil underneath to breakup to 300mm and settled by water.
- 3) Trees shall be off loaded carefully to ensure that no damage is done to the root ball, trunk or branches. Tree will be planted in an upright position, allowing adequate space for growth.
- 4) Once placed in the prepared pit, soil mix shall be used to backfill the prepared pit. Backfilling shall be done in layers each being firmly consolidated to eliminate air pockets.
- 5) Each tree shall be secured using 3 nos. of iron stake or wire guy.
- 6) The tree shall be thoroughly watered after planting.

3. **Health and Safety Aspects**

- 1) All personnel shall wear appropriate PPE when carrying out the works including but not limited to Safety Hat, High Visibility Vest and Safety Boots when carrying out the works.
- 2) Certified Competent Person will conduct the utilities detection.
- 3) All working areas, access points and dangerous openings shall be properly secured. fenced off from the general public and illuminated.
- 4) Any unsafe obstruction such accumulation of debris or shrubs shall be removed to enable the competent person to carry out the survey in a safe manner.
- 5) A detailed risk assessment will be conducted prior to the commencement of the works to assess all of the potential risk and its remedial measures to ensure that the works are carried out in a safe manner.
- 6) At no time will the competent person be allowed to conduct surveying public roads without the appropriate TTA in place to ensure his safety.

7) Safety is the highest priority for all project at Leighton's. The ultimate aim of strive for L.I.F.E is to change the safety behaviour of all staff and workers on site. As part of this programme, all personnel will be required to attend a 1 day "Advance Safety Induction Certificate Training" at Leighton's training facility at Strive for Life Knowledge and Skills **Training Center**

14th Floor, Unit B, Wyler Center 2 Tai Lin Pai Road Kwai Fong

- 8) All personnel shall also undertake site specific induction and be briefed on the system of works to ensure that all members including the subcontractor and its employees are aware of the risk involved.
- 9) Ad-hoc site tool box meetings shall be conducted to continuously refresh personnel to the associated risks and control measures in order to maintain a safe working environment. Training records of the workers shall be submitted to SO for record.
- 10) Ensure all works to be carried out in accordance with the current statutory regulations regarding safety and health at work.

4. **Environmental Protection Requirements**

Air: Regular cleaning of loading & unloading area and general surrounding areas to reduce dust emission.

Regular maintenance of the plant equipments to reduce the generation of undesirable exhausts fumes.

5. **Subcontractors and Suppliers**

Toyo Greenland Company Limited works closely with the landscaping works undertakers, contractors in a number of Landscaping contracts for the HKSAR Government Departments such as Highways Department (HD), Civil Engineering and Development (CEDD) etc.

Landscaping job Reference:

- Smithfield Extension The Link & Pofulam Open Space (HY/94/20)
- Highways Department Term Contract (Management and Maintenance of High Speed Roads in New Territories West and Kowloon, and Roads in the Hong Kong Port Area 2008-2016)
- Greening Works in Kowloon City (CV/2009/04)
- Greening Works in Wong Tai Sin (CV/2009/05)
- Enhancement of Footbridges in Tsim Sha Tsui East (HY/2007/15)
- Provision of Lifts to Three Footbridges (HY/2009/07)
- Greening Works in Sham Shui Po (CV/2009/03)
- Greening Works in Western District (CV/2009/07)

6. Plant and Equipment

- Crane lorry
- Gasoline saws
- Hand saws
- Iron stakes
- Metal bar

- Metal tripod
- Nylon straps
- Secateurs
- **Shovels**
- Soil mix
- Wooden Broad

7. **Materials**

- **Peatmoss**
- Root activator
- **Tarpaulins**

8. Storage and Handling

- 1) All materials should be covered when idled.
- 2) No accumulation of debris to excessive shall be permitted.
- 3) Store the material in a designated area for temporary storage. The designated area should be kept a reasonable distance from the working area such that it will not obstruct the public and workers.

9. **Inspection and Testing Requirements**

Complete photograph record of entire transplanting operation at various stages of works. ER and landscape specialist will be informed to participate at various stages.

10. Risks

Refer to Appendix A - Risk Assessment

11. References

11.1 Attachments

- Appendix A Risk Assessment
- Appendix B Inspection and Test Plan (Reference No. H2540/ITP/003-0)



Appendix A

Risk Assessment



Leighton Contractors (Asia) Limited RISK ASSESSMENT REPORT

Job No. / Name Doc. Ref. No.	H2540 Central - W	H2540 Central - Wan Chai Bypass - Central Interchange	ange			Assessor(s):		Caseo Lau. Eric Yuen. Benjamin Sung. MC cheng	ıcn. Benjamin	Sung. MC Chic	/ ਵ	
Activity:	Tree	Tree Transplanting Works	Anticipated commencement date: 20 Dec 2010	encement date			Assessment purpose : (Preparation/Supplementary to method statement /Following accident, review etc.)	acthod statement /Fc	ollowing accid	lent, review etc	7	
	People			Pre-	Prc-assessment			Responsible	Re	Re-assessment		
Job / Tusk	at Risk	1	Adverse Effect	Likelihood	Severity	RFN	Control Measure	Person	Likclihood	Severity	æ	Further Control Measure
1. Preparation and Crown Pruning	Tree surgeons / labour	Falling branches / equipment	Body injury / Property damage	ea.	4	12 a)) Fence off the working area	Foreman	_	3	m	
						(q	Provide competent tree surgeons	Sub agent / Foreman				
						(S)	Provide trained signaller if required	Sub agent / Foreman				
	· · · · · · · · · · · · · · · · · · ·				*	ਓ \$	d) Tie up the branch being cut off to control the fall and fasten up the equipment while in use	Foreman				
				- <u>-</u>		<u> </u>	Branches to be cut in small section	Labour / Foreman				
					-	<u> </u>	Provide safety helmet with chinstrap to workers (meets EN397 or equivalent)	Foreman			 	
					·	ଲ ଅ	g) Check and ensure no work to be carried out in the vicinity of overhead line cables	Foreman				
	Tree surgeons	Contact with overhead lines / Use of electric hand tools	Body injury / Electric shock	2	v.	10 a)	a) Check and ensure no work to be earried out in the vicinity of overhead line cables	Foreman	-	E	3	
			111			(e to	b) Inspect the electrical hand tooks by Registered Flectrical Worker to ensure tools are in good working condition before use	Foreman				
						<u> </u>	Use low voltage electric hand tools (110V)	Foreman				
						- 5	Use waterproof socket / plug, amour cable in outdoors	Foreman				
						ີ ວົ	Provide fire extinguisher	Foreman				
	Tree surgeons / Labour / Operator	Toppling of crane / cherry picker / Man cage failure	Fall of person / Body injury / Plant damage	3	4	12 n)	Inspect the ground to ensure stable condition before setting up of crane	Foreman	-	4	4	
						<u> </u>	Appoint licensed crane operator to operate crane	Foreman				
						<u> </u>	Appoint trained chorry picker operator to operate cherry picker	Foreman				
						- 9 -	Display valid test certificate on cranc	Foreman				
						- 0 -	Inspect the crane by operator on weekly basis, include ASLI	Foreman / Operator				

	Pcople			Pre	Pre-assessment	-		Bosnonsihlo	6	O CO		
Job / Task	at Risk	Cause to Adverse Effect	Adverse Effect	Likelihood	Severity	RFN	Control Measure	Person	Likelihood	Severity	RR	Further Control Measure
· · · · · · · · · · · · · · · · · · ·						<u>c</u>	Inspect the cherry picker at regular intervals	Foreman / Operator				
						<u> </u>	Extend the outrigger completely of the crane if practicable	Foreman / Operator	-			
						≘	Use tested lifting gear with marking and safe working load	Foreman				
						≘	Apply colour cade system to LG	Foreman				
				- Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Carlos Car			Check condition of lifting year before use	Foreman / Rigger				
						_≊	Provide and ensure to use fall arresting device (meets EN361 or equivalent)	Foreman				
	Labour, People nearby	Hit by moving crane / cherry picker	Body injury	2	4	8	Fence off the working area	Foreman	_	4	4	
				•		<u> </u>	Appoint trained signalfer to direct the movement of crane / cherry picker	Sub agent/ Foreman				
T-iland	······································					ं	Appoint licensed crane operator to operate crane	Sub agent / Foreman				
						-ਓ	Appoint trained cherry picker operator to operate cherry picker	Sub agent / Foreman				
	Tree surgeons / Labour	Cut by chainsaw / hand saw	Body injury	2	4	(e 8	Install guard to dangerous parts of the chainsaw	Foreman	2	7	4	
						<u> </u>	Provide and ensure to use eye protector (meets EN 166 or equivalent)	Foreman				
	······································					ି _	Provide proper gloves to workers if required	Foreman				
	Tree surgeons / Labour	High noise level	Potential hearing loss	7	4	(F) 8	Conduct noise assessment and demarcate car protection zone.	Foreman / Safety Officer	7	2	4	
				-		<u> </u>	 b) Provide and ensure to wear approved type car protector by person within ear protection zone (meets EN352 or equivalent) 	Foreman				
2. Root Pruning	Tree surgeons / labour	Manual excavation and back filling	Body injury	3	2	9	Provide sufficient labour force to carry out manual lifting works.	Foreman	2	2	4	
						<u>Q</u>	Conduct manual handling training	Foreman / Safety Officer		•		
	Tree surgeons / Labour	Cut by chainsaw / hand saw	Body injury	7	4	(t) 8	Install guard to dangerous parts of the chainsaw	Foreman	2	2	4	
				<u></u>		<u> </u>	Provide and ensure to use eye protector (meets FN166 or equivalent)	Foreman				
						<u> </u>	Provide proper gloves to workers if required	Foreman				
	Tree surgeons / Labour	High noise level	Potential hearing loss	2	4	8 a)	Conduct noise assessment and demarcate car protection zone	Foreman / Safety Officer	2	2	4	

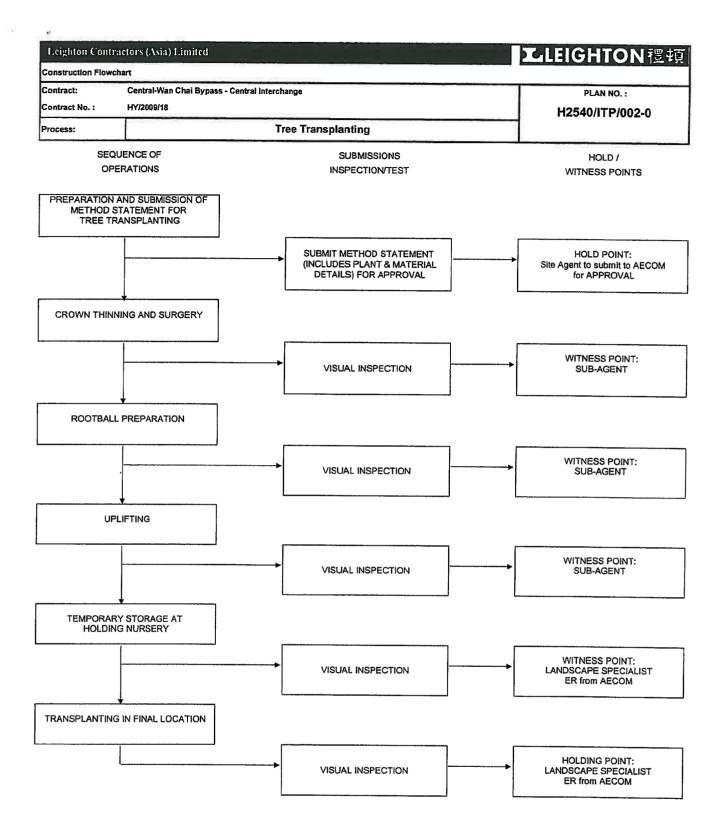


Appendix B

Inspection and Test Plan (Reference No. H2540/ITP/003-0)

Leighton Contractors (Asia) Limited 工LEIGHTON 禮頓 Inspection and Test Plan Central-Wan Chai Bypass - Central Interchange Contract: PLAN NO.: Contract No.: HY/2009/18 H2540/ITP/002-0 Process: **Tree Transplanting** SCOPE: Transplanting and temporary storage in Toyo Greenland Co., Ltd.'s holding nursery at Lots in DD 106 and 113 of Kam Tin, N.T., -33,000 sq m CONTENTS 1. CONSTRUCTION FLOWCHART 2. SUBMISSION, INSPECTION AND TESTING REQUIREMENTS **ATTACHMENTS** - Request for inspection form **TERMINOLOGY** Prepared by: eric yuen Reviewed by: Casey Lau Approved by: Signature: 16th Dec 2010 Date: 16/12/2010 Date: Date: Revision status Revision Date Section/Description Authorized by 16-Dec-10 First issue

Project manager



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Submission, Inspection and Testing Requirements

Central-Wan Chai Bypass - Central Interchange

Contract:

H2540/ITP/002-0 PLAN NO.: Tree Transplanting HY/2009/18 Contract No.: Process:

5	INSPECTION /TEST DETAILS	HOLD/WITNESS POINT	TNESS	METHOD	CONFORMANCE	FREDIENCY	NOITACIBIGEN	Se rock
윤		Ξ	3		CRITERIA		RECORD	
₩	Submit Method Statement	Ξ		Submission to Engineer (AECOM)	P.S. 3.97	Once before tree transplanting works commence	Letter	Site Agent
8	Root pruning		```	Visual inspection	P.S. 3.98	3 limes	Photo	Sub agent
က	Crown thinning and surgery		3	Visual Inspection	P.S. 3.103	Опсе	Photo	Sub agent
4	Rootball preparation		}	Visual Inspection	P.S. 3.97	Once	Photo	Sub agent
S	Uplifting		≥	Visual Inspection	P.S. 3.99	Once	Photo	Sub agent
9	Temporary storage at holding nursery	I		Visual Inspection	P.S. 3.101	Once	Monthly inspection report and photo	Landscape specialist ER from AECOM
7	Transplanting in new location	ΙI		Visual Inspection	P.S. 3.100	Once	As-bullt drawing	Landscape specialist ER from AECOM

page 3

Contract No. HY/2009/18 Central – Wanchai Bypass, Central Interchange



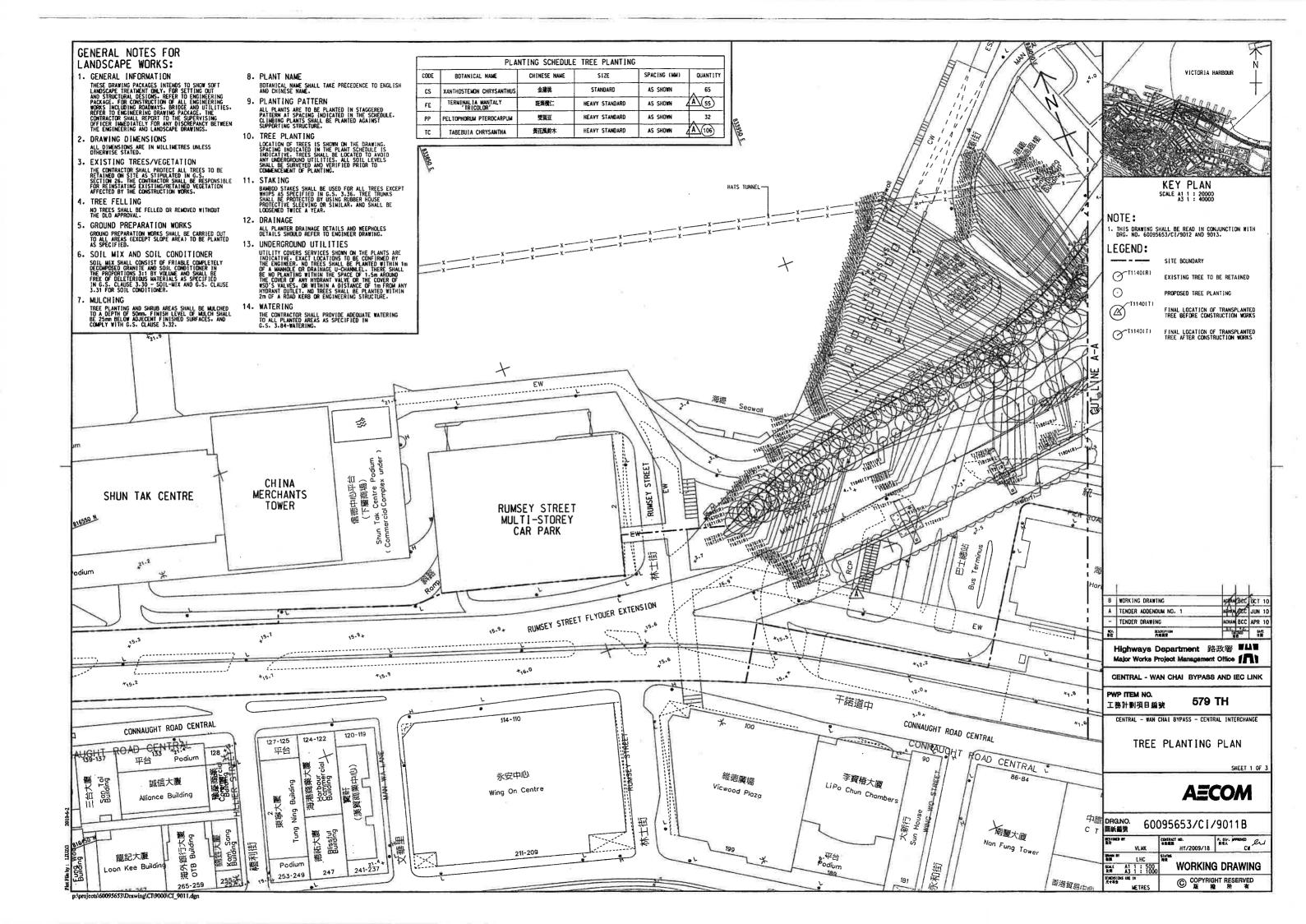
INSPECTION REQUEST FORM

To Engineer's Representative		RISC No.:
(1) Location of Work		Date & Time
(2) Work to be Inspected:		
(3) Work Proposed after Approval of (2):		
(4) Remarks (if this is a re-submission st	rate work carried out since last survey);	Enclosure: Yes / No*
REQUESTED BY: DESIGNATION:		TIME :
		DATE :
Filled in by ER/SIOW Mr :	Please arrar	SIGNED :
not given* for the following reason(s):	inspected. Permission to carry out propose	
This in no way limits or alters the C	contractor's obligations under the Contraction at time stated below.	ct.
		TIME :
# COUNTERSIGNED:		DATE:
DESIGNATION :		DATE:
Received on behalf of Contractor by NAME:		
		TIME :
I.B. Top copy -White; E.R. Duplicates -Blue: Contractor;	Pink: ER; Yellow: Contractor	

- * Delete where inappropriate
- # Countersigned by Resident Engineer may be required for critical items

Appendix E Tree Planting Plans

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GENERAL NOTES FOR LANDSCAPE WORKS:

1. GENERAL INFORMATION

THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS. REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS. BRIDGE AND UTILITIES. REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.

2. DRAWING DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

3. EXISTING TREES/VEGETATION

THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.

4. TREE FELLING

NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLO APPROVAL.

5. GROUND PREPARATION WORKS

GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.

6. SOIL MIX AND SOIL CONDITIONER

SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.

7. MULCHING

TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJECENT FINISHED SURFACES. AND COMPLY WITH G.S. CLAUSE 3.32.

8. PLANT NAME

BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.

9. PLANTING PATTERN

ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.

10. TREE PLANTING

LOCATION OF TREES IS SHOWN ON THE DRAWING.
SPACING INDICATED IN THE PLANT SCHEDULE IS
INDICATIVE. TREES SHALL BE LOCATED TO AVOID
ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS
SHALL BE SURVEYED AND VERIFIED PRIOR TO
COMMENCEMENT OF PLANTING.

11. STAKING

BAMBOD STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.

12. DRAINAGE

ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.

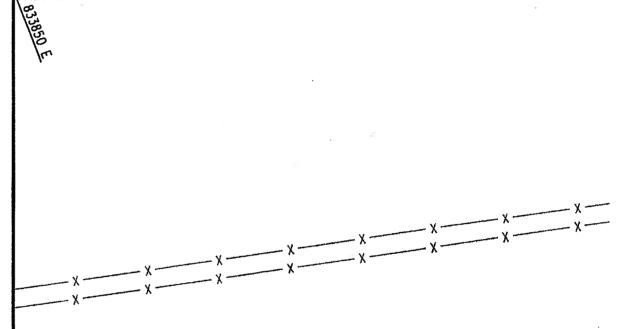
13. UNDERGROUND UTILITIES

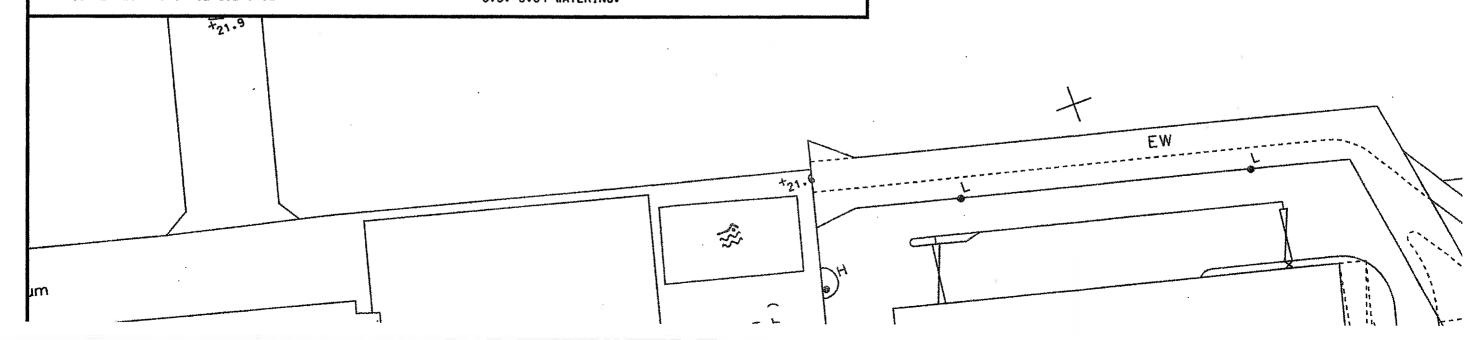
UTILITY COVERS SERVICES SHOWN ON THE PLANTS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNLEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES. OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.

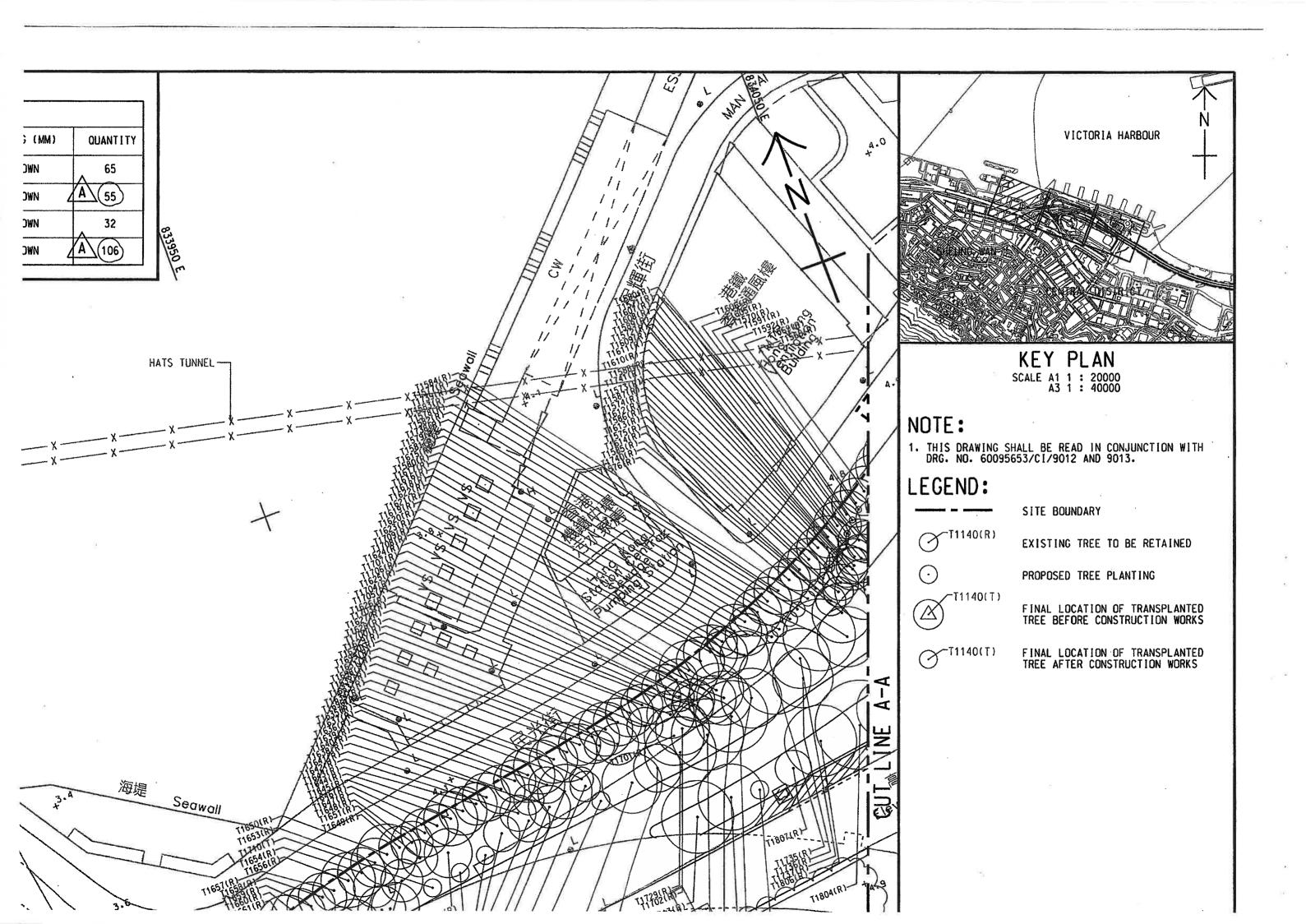
14. WATERING

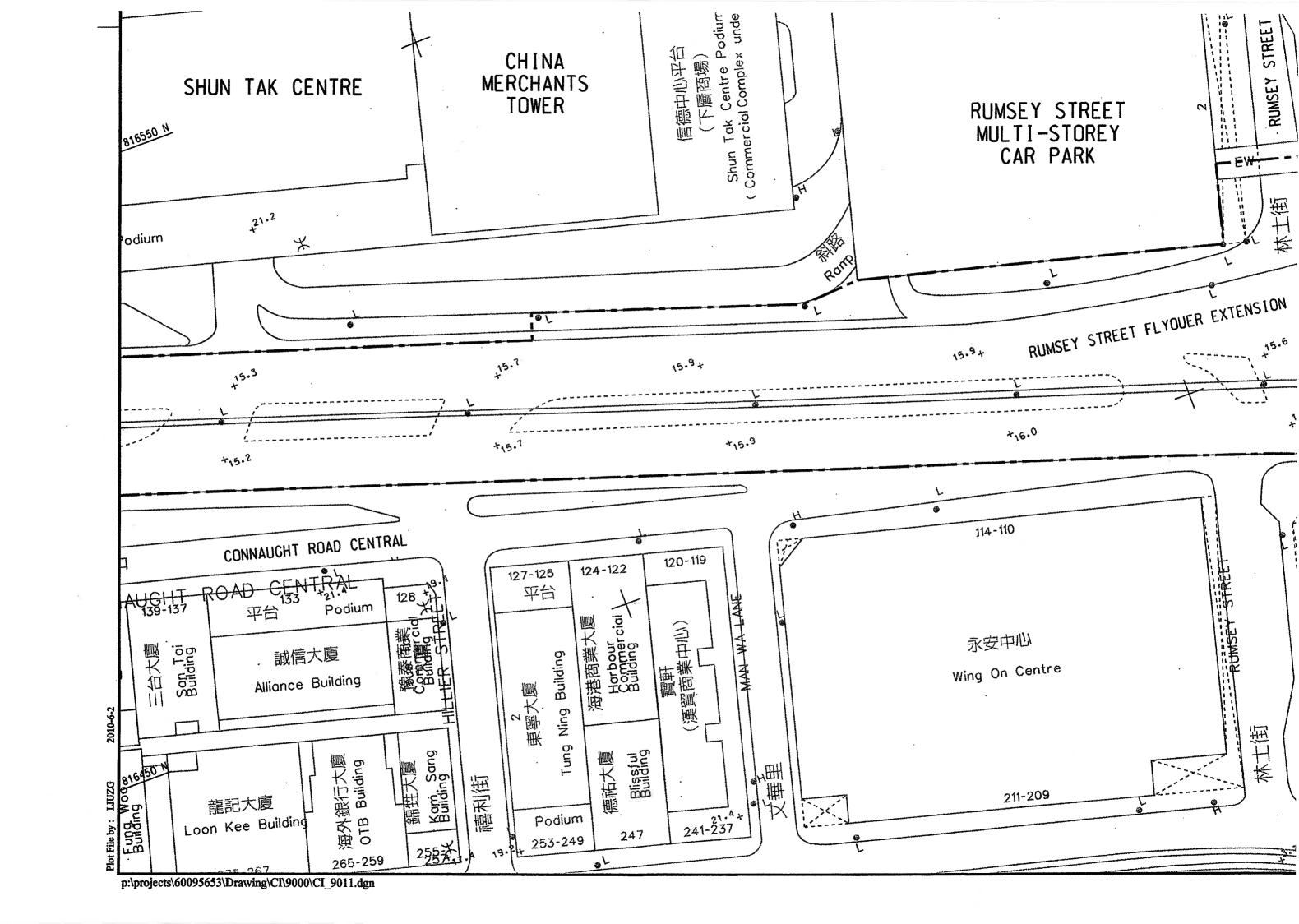
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

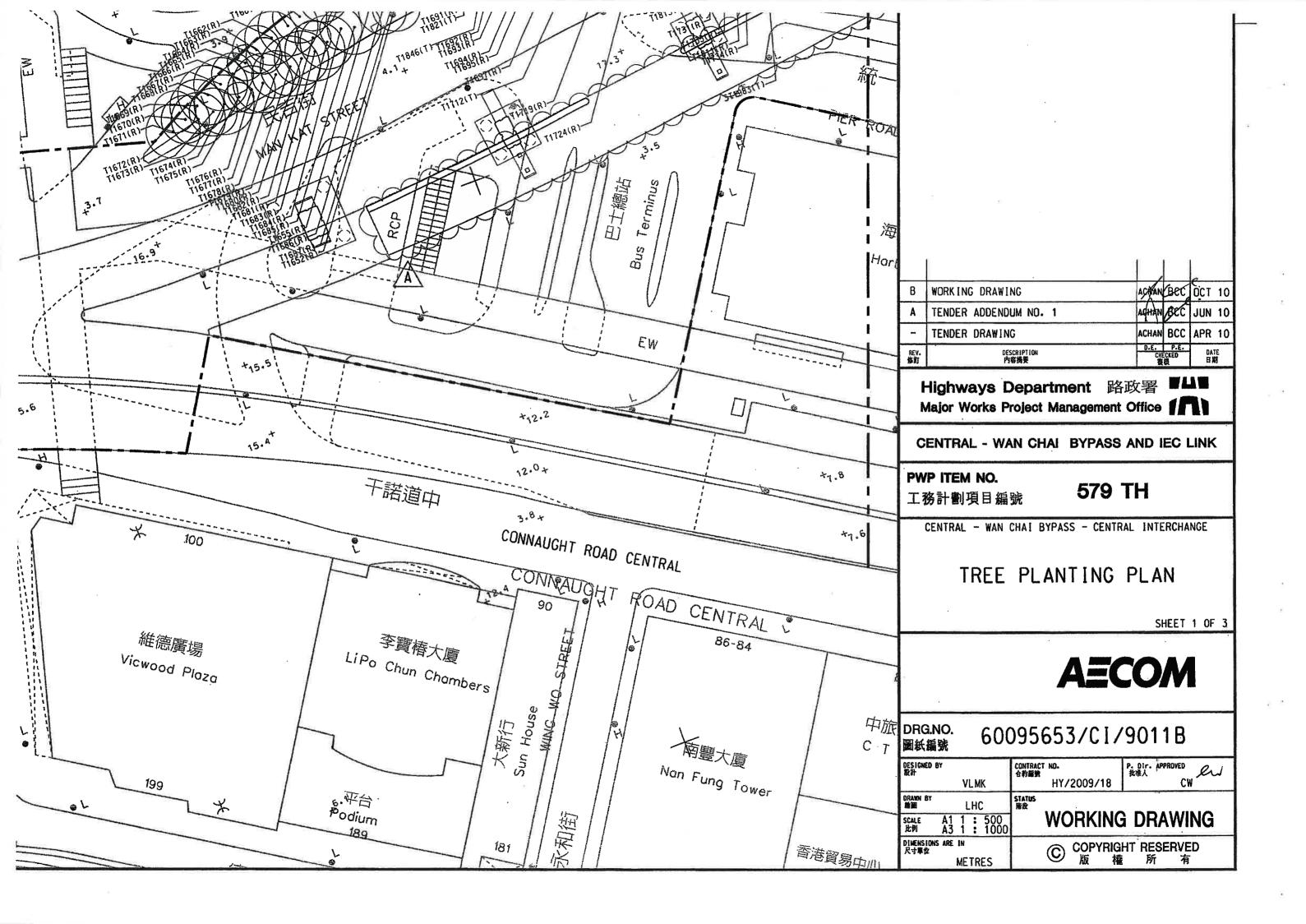
	PLA	NTING SCHEDUL	E TREE PLANTING	
CODE	BOTANICAL NAME	CHINESE NAME	SIZE	SPACIN(
CS	XANTHOSTEMON CHRYSANTHUS	金蒲桃	STANDARD	AS SHI
FE	TERMINALIA MANTALY 'TRICOLOR'	斑葉欖仁	HEAVY STANDARD	AS SHI
PP	PELTOPHORUM PTEROCARPUM	雙翼豆	HEAVY STANDARD	AS SHO
TC	TABEBUIA CHRYSANTHA	黃花風鈴木	HEAVY STANDARD	AS SHI

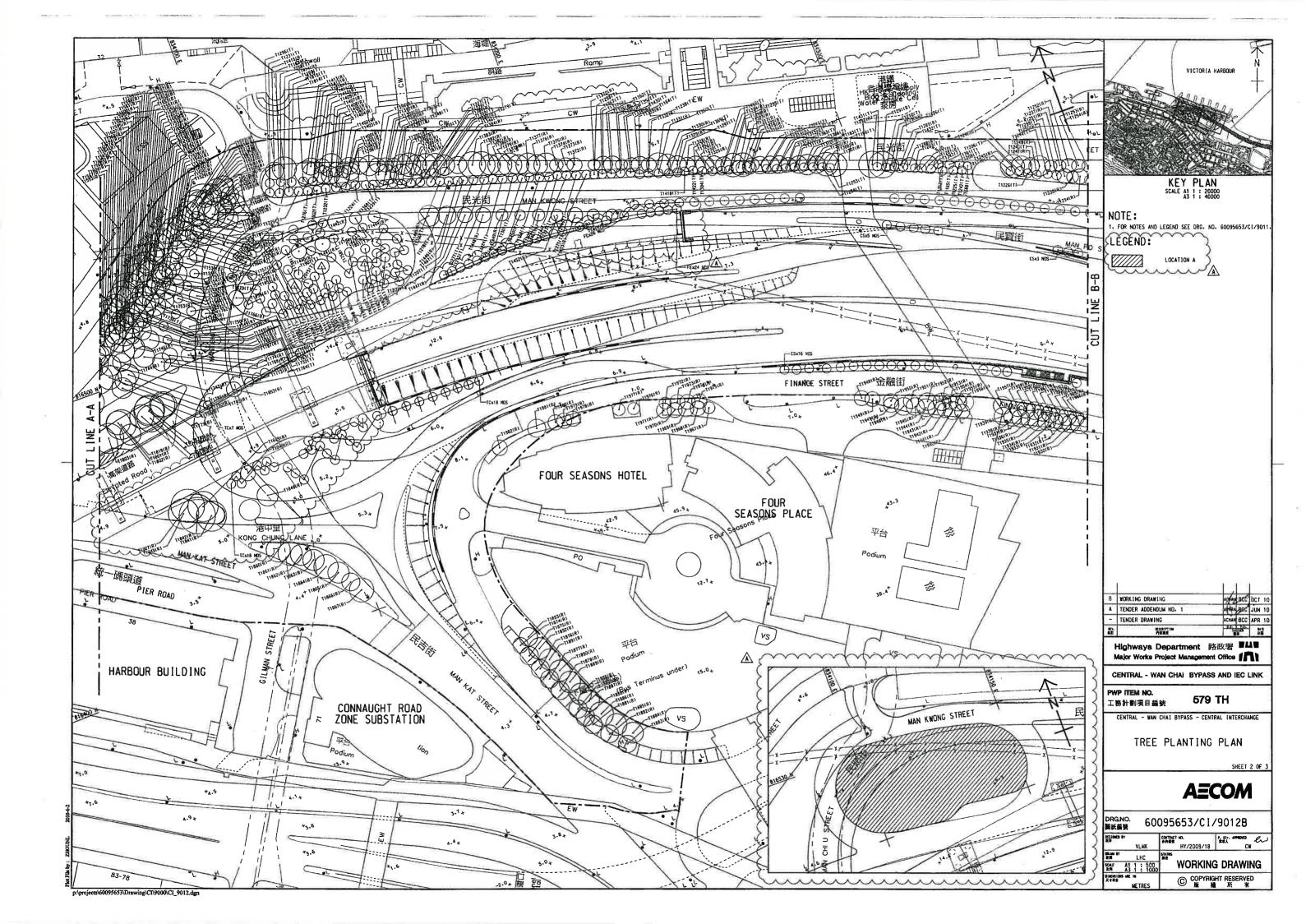


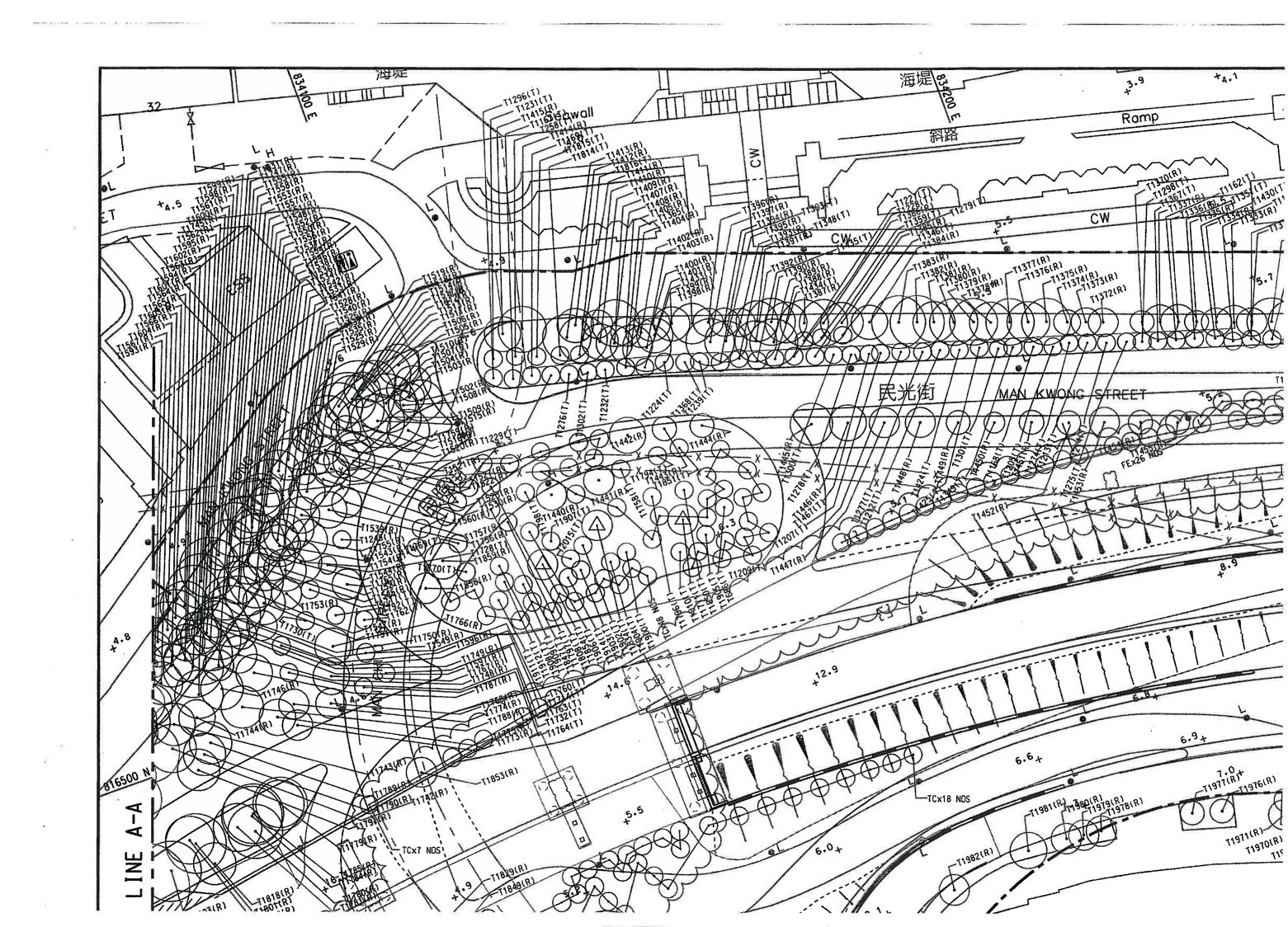


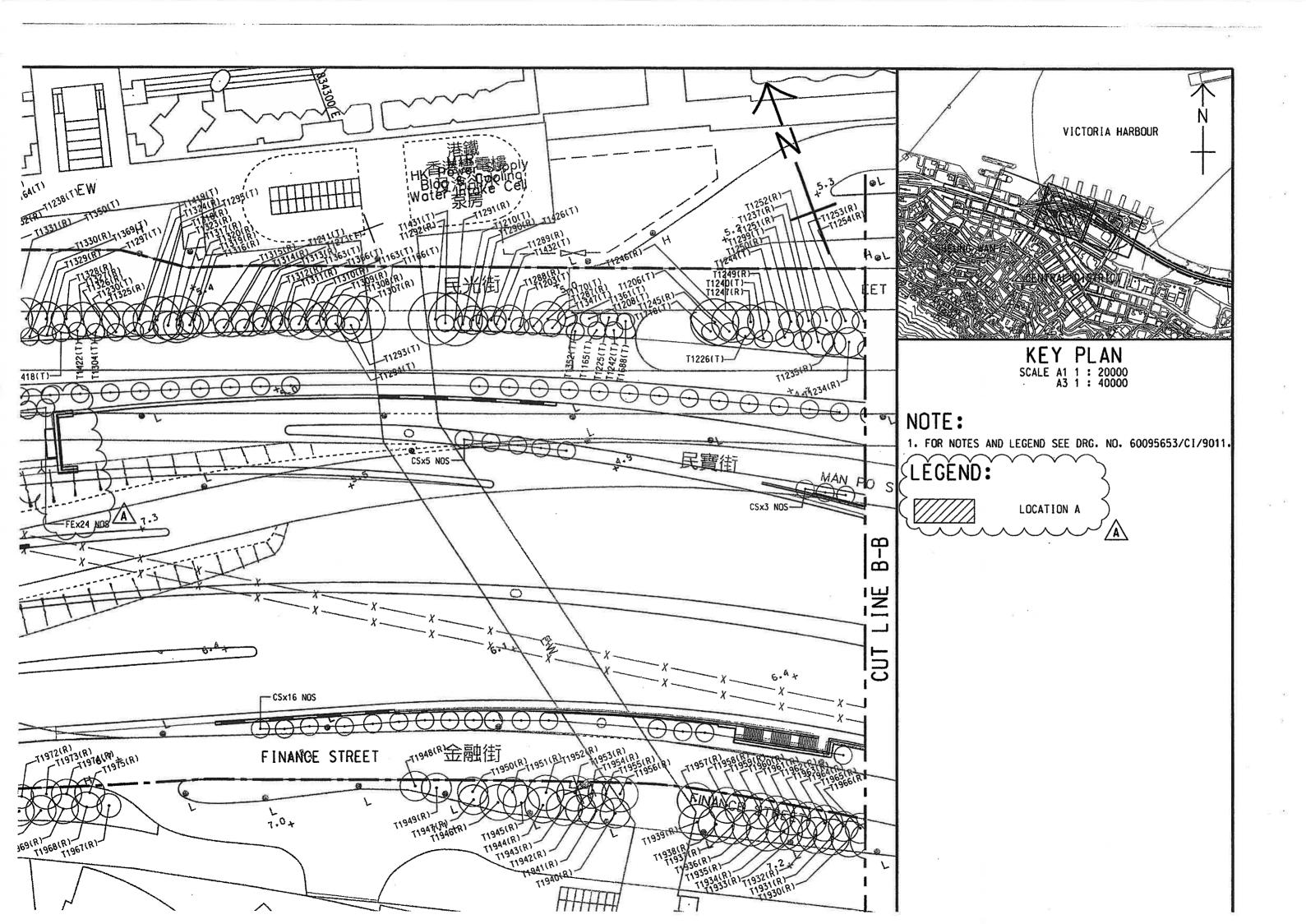


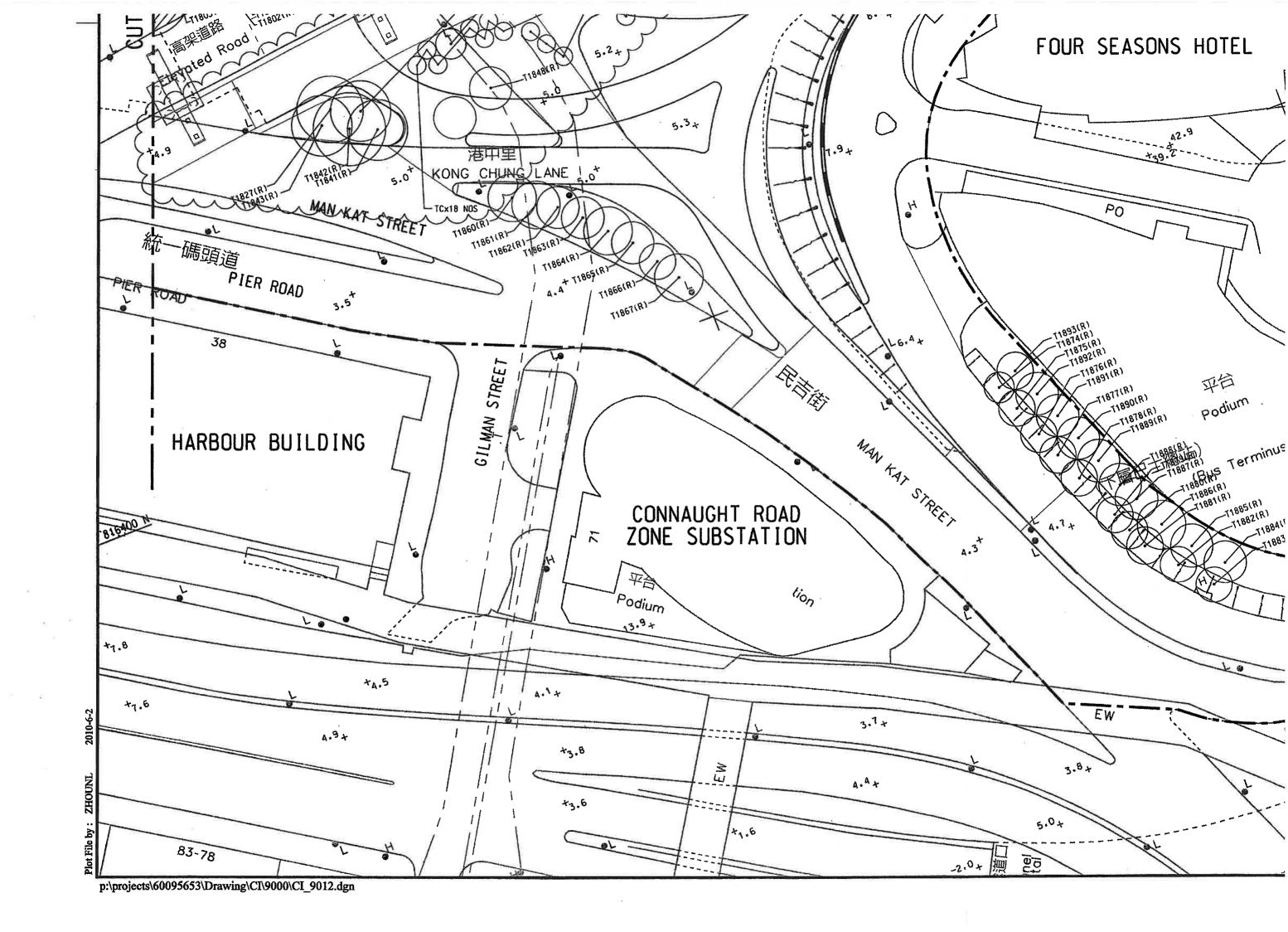


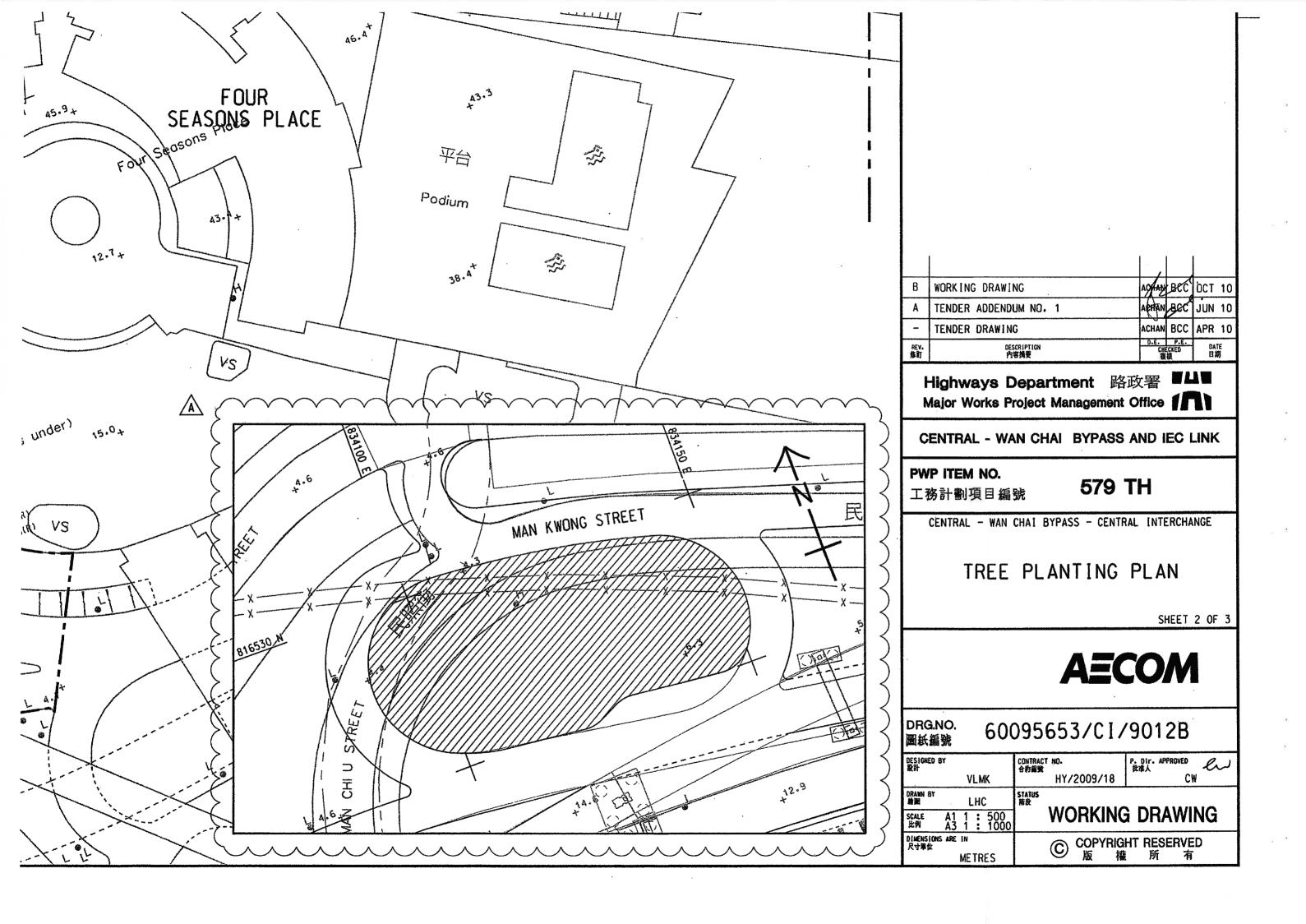


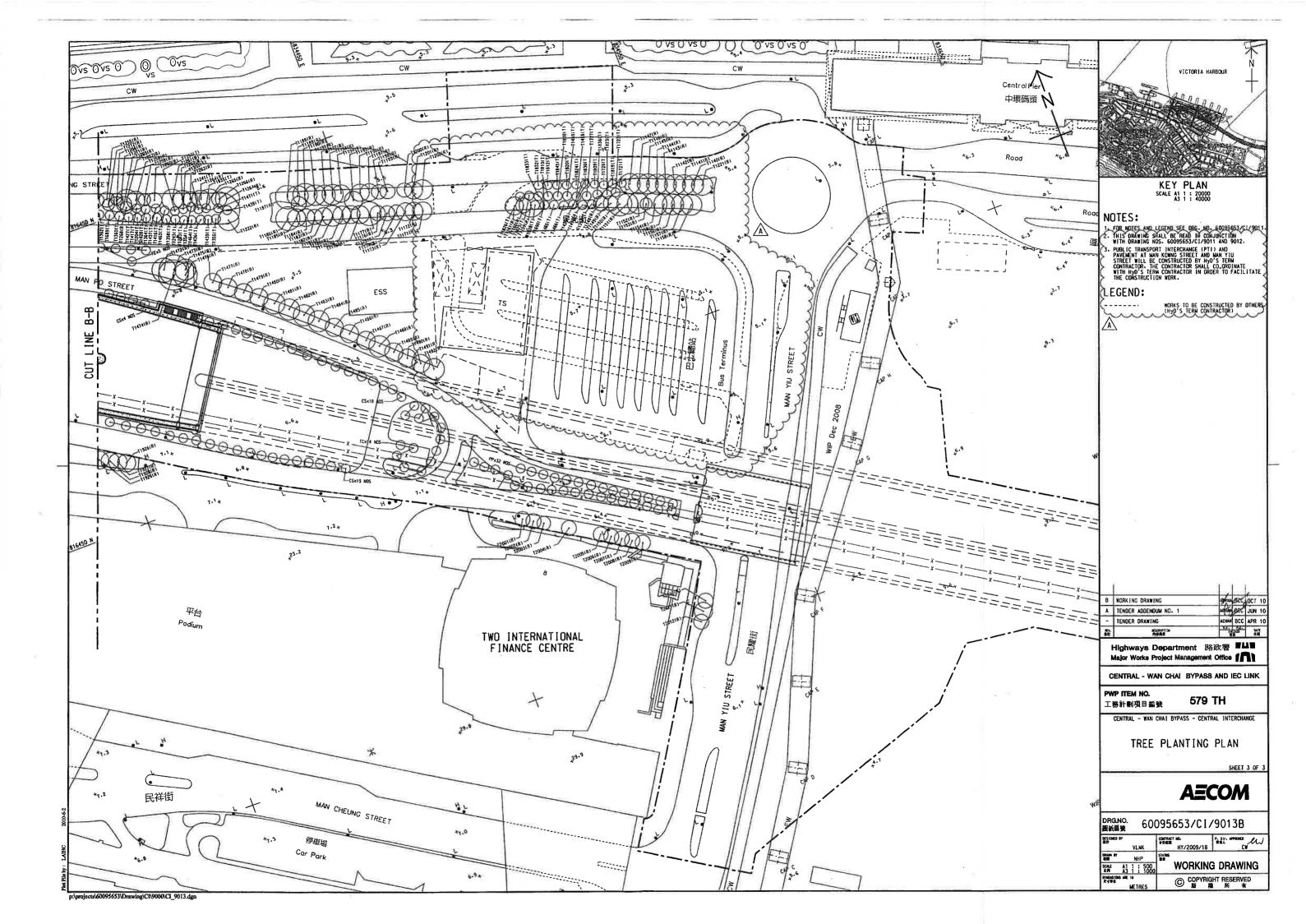




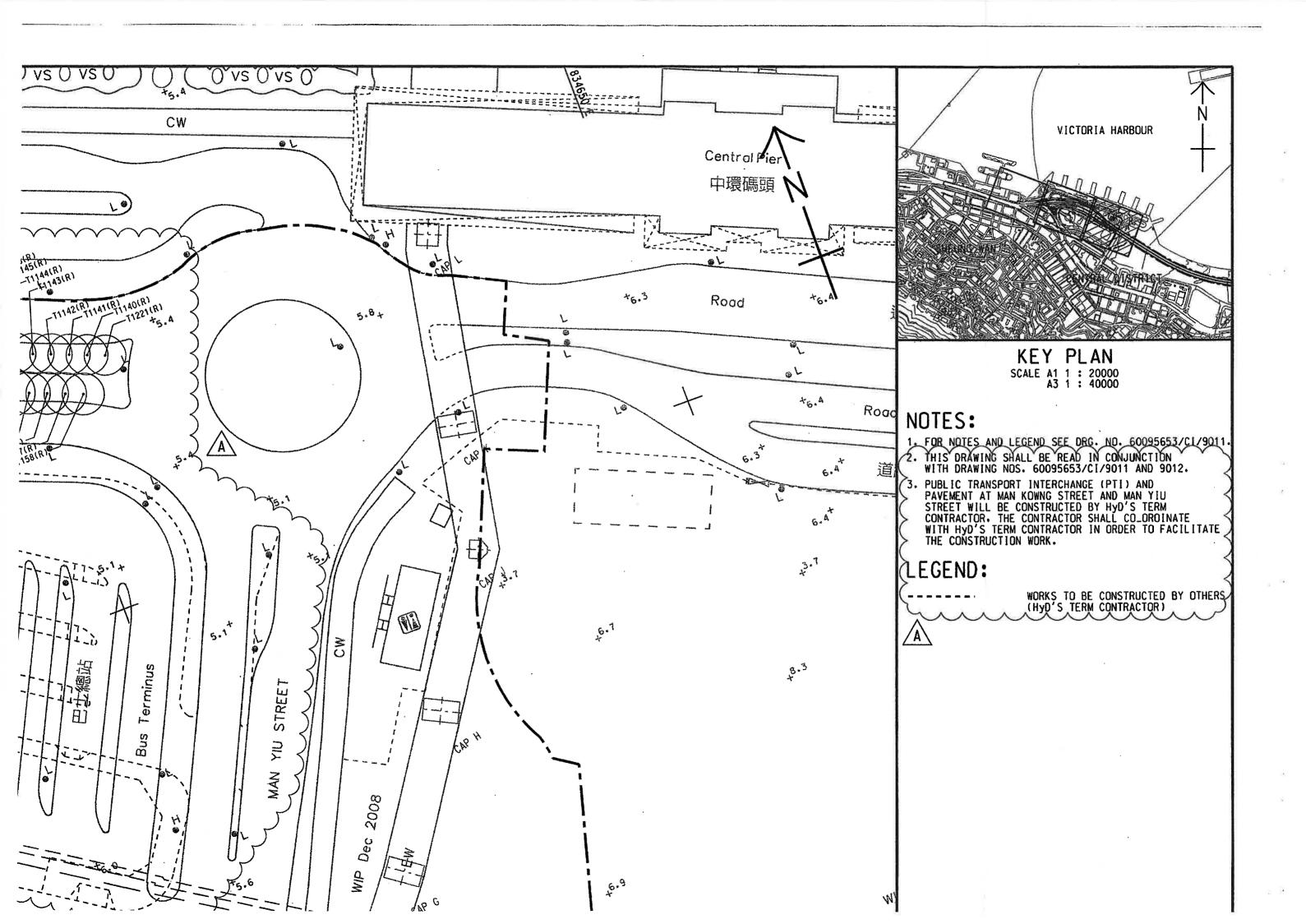


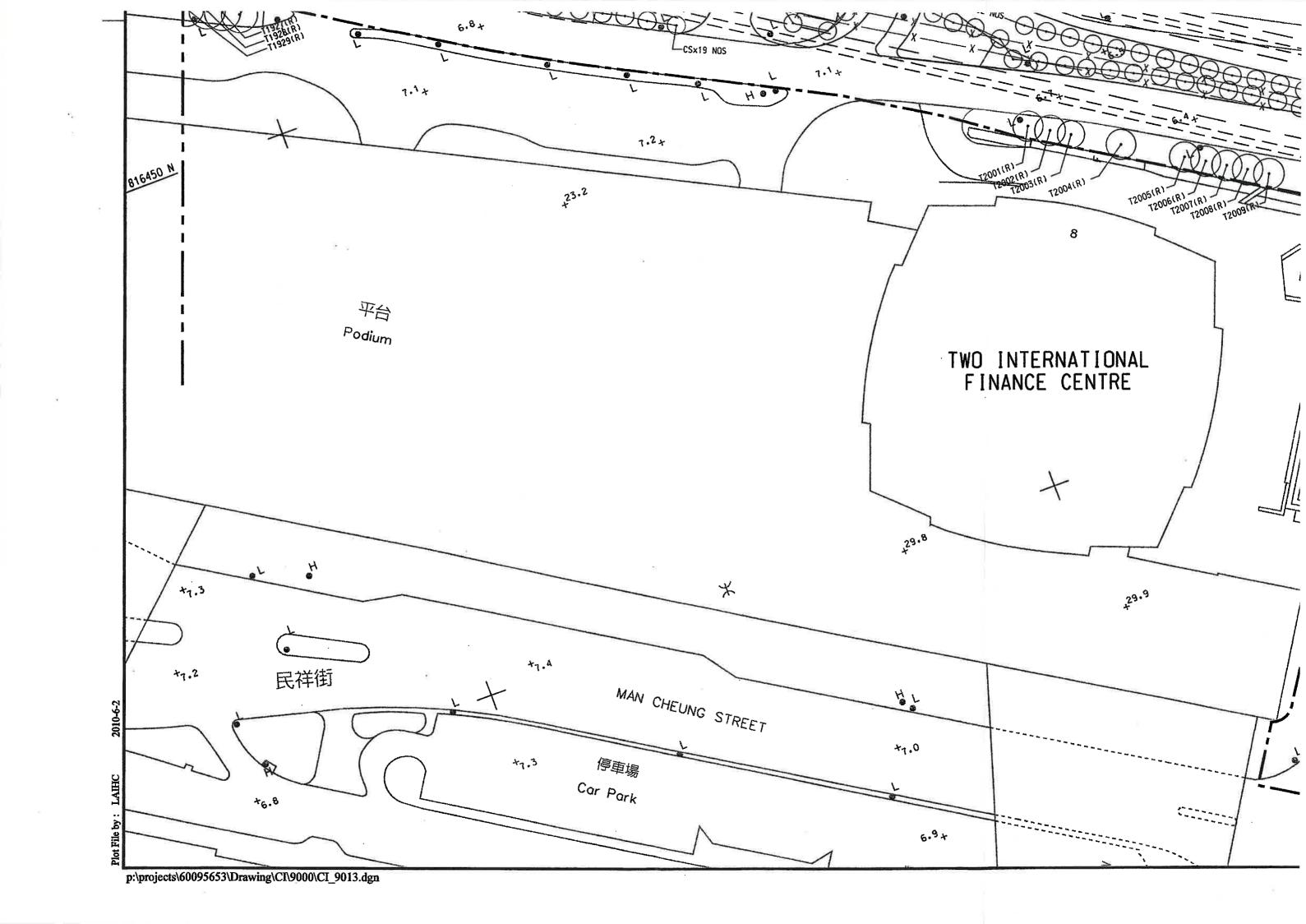


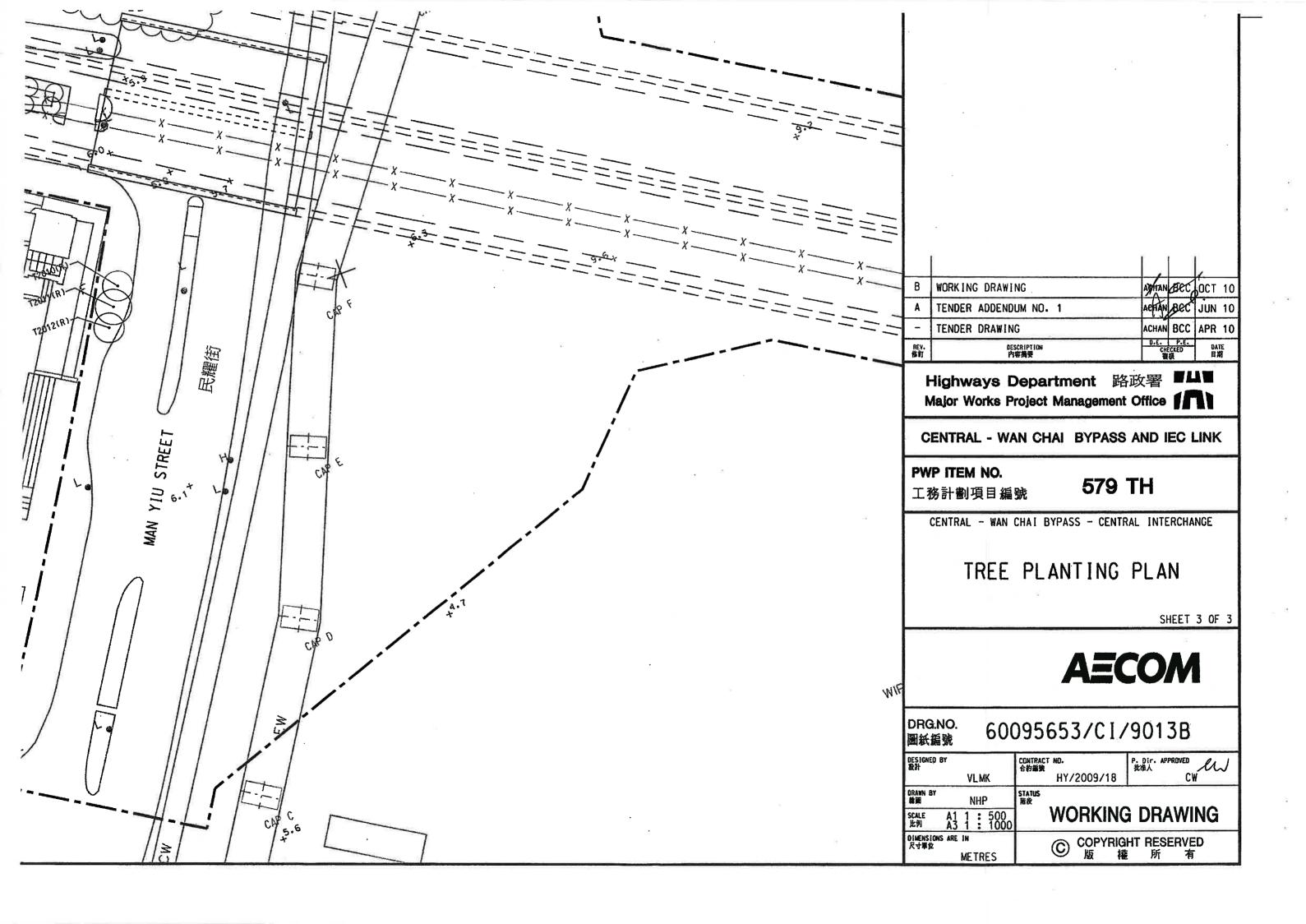










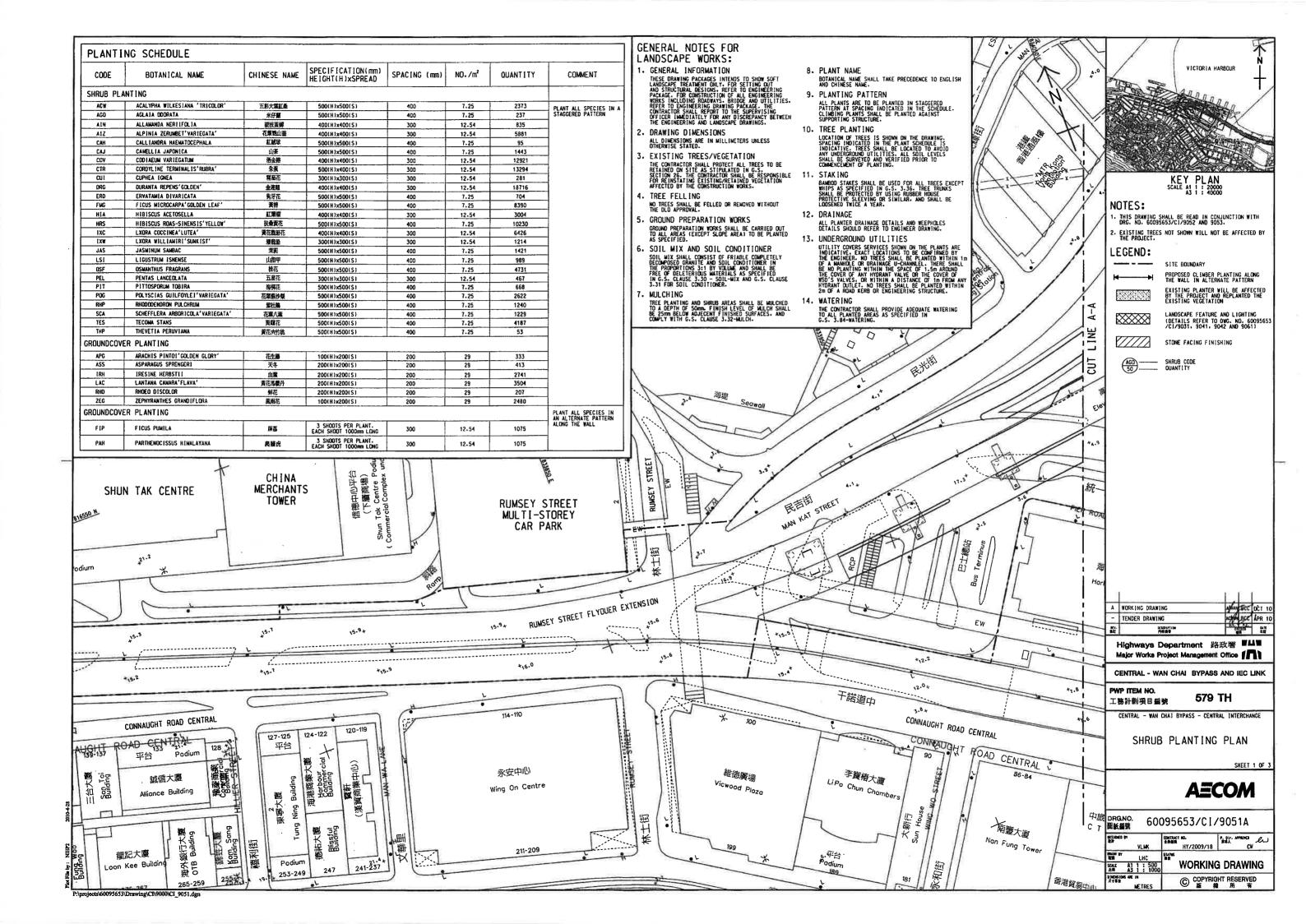


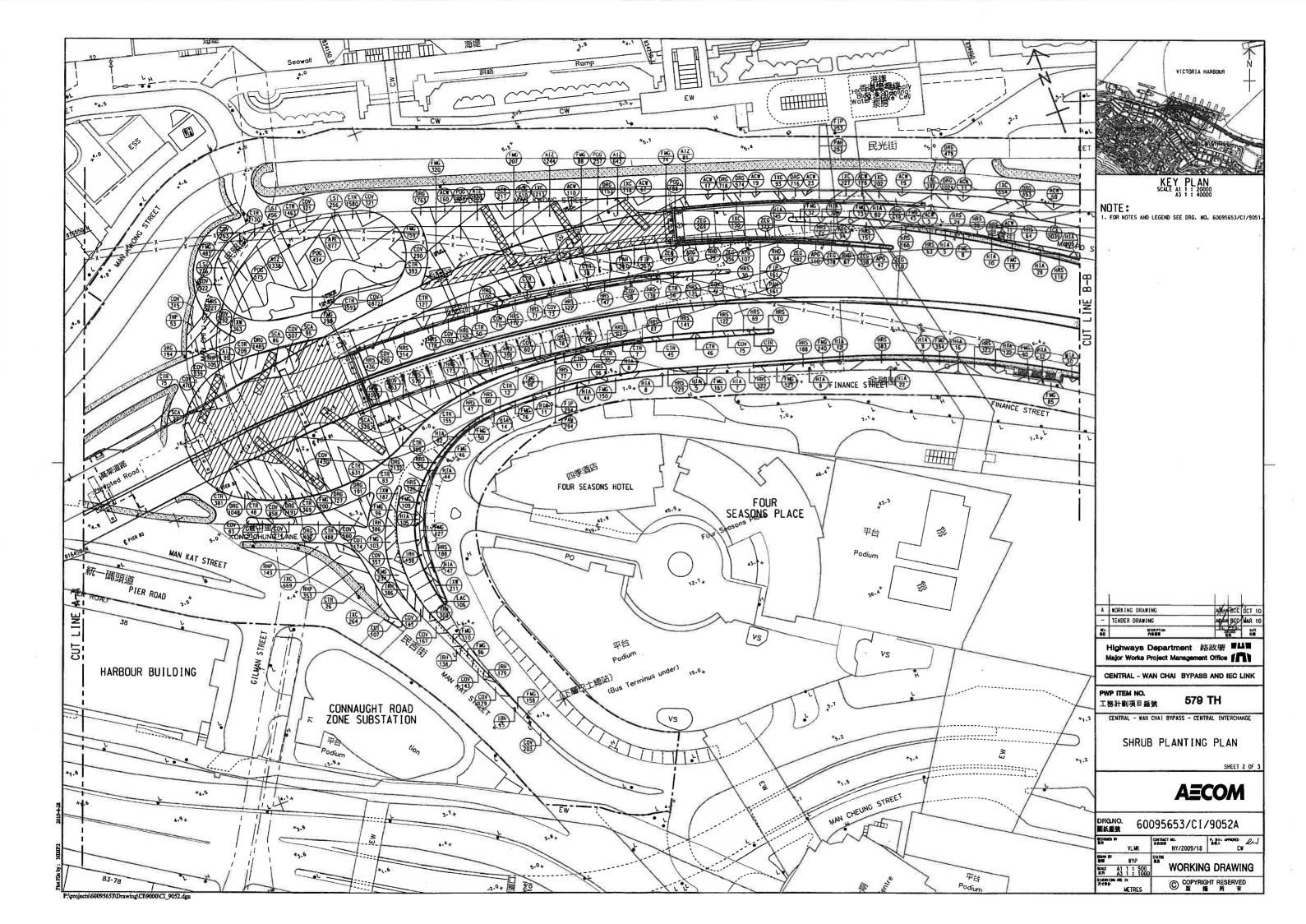
Leighton

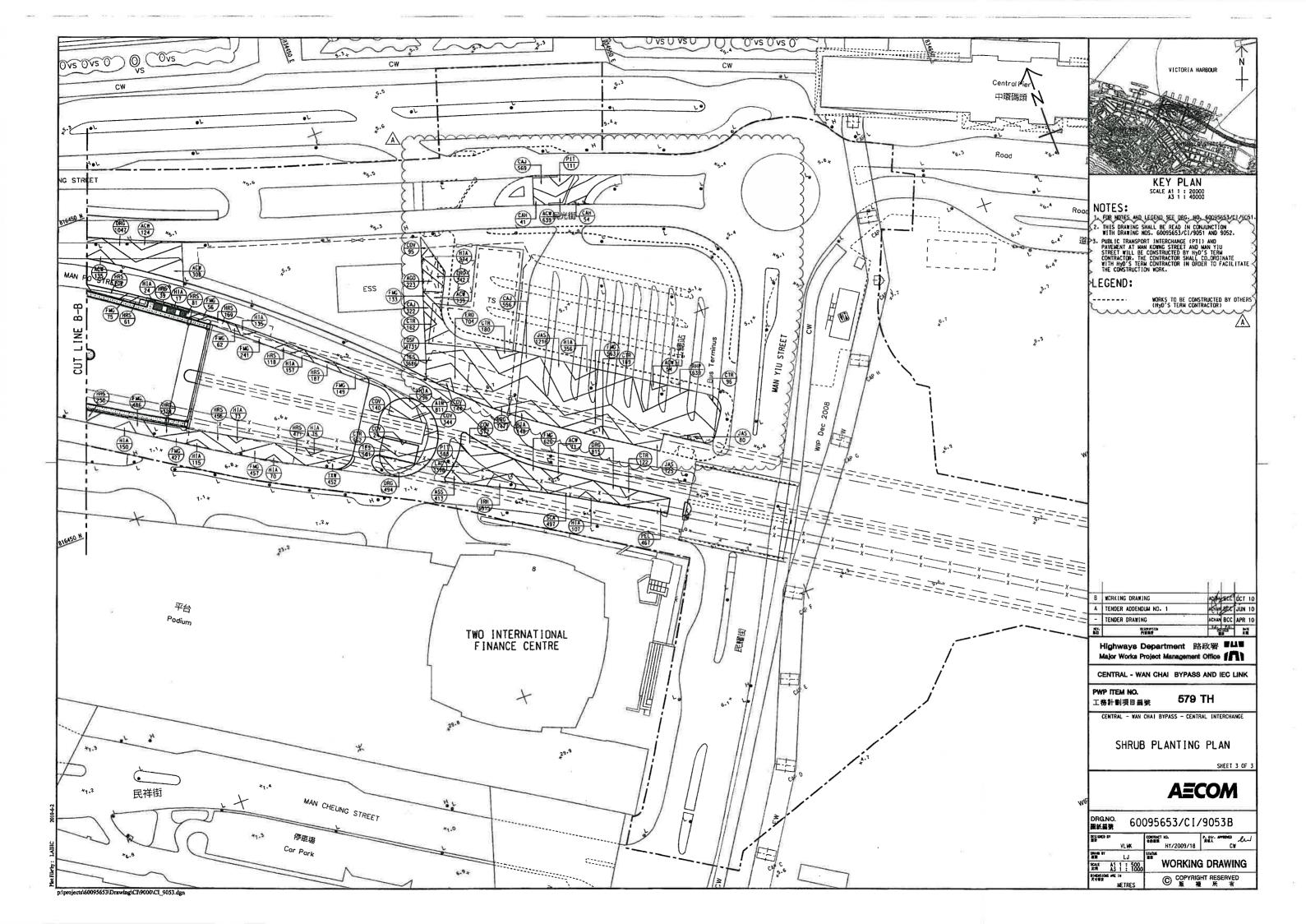
Appendix F Shrub Planting Plans

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H2540-ENV-PLN-002-03; 15 APR 11



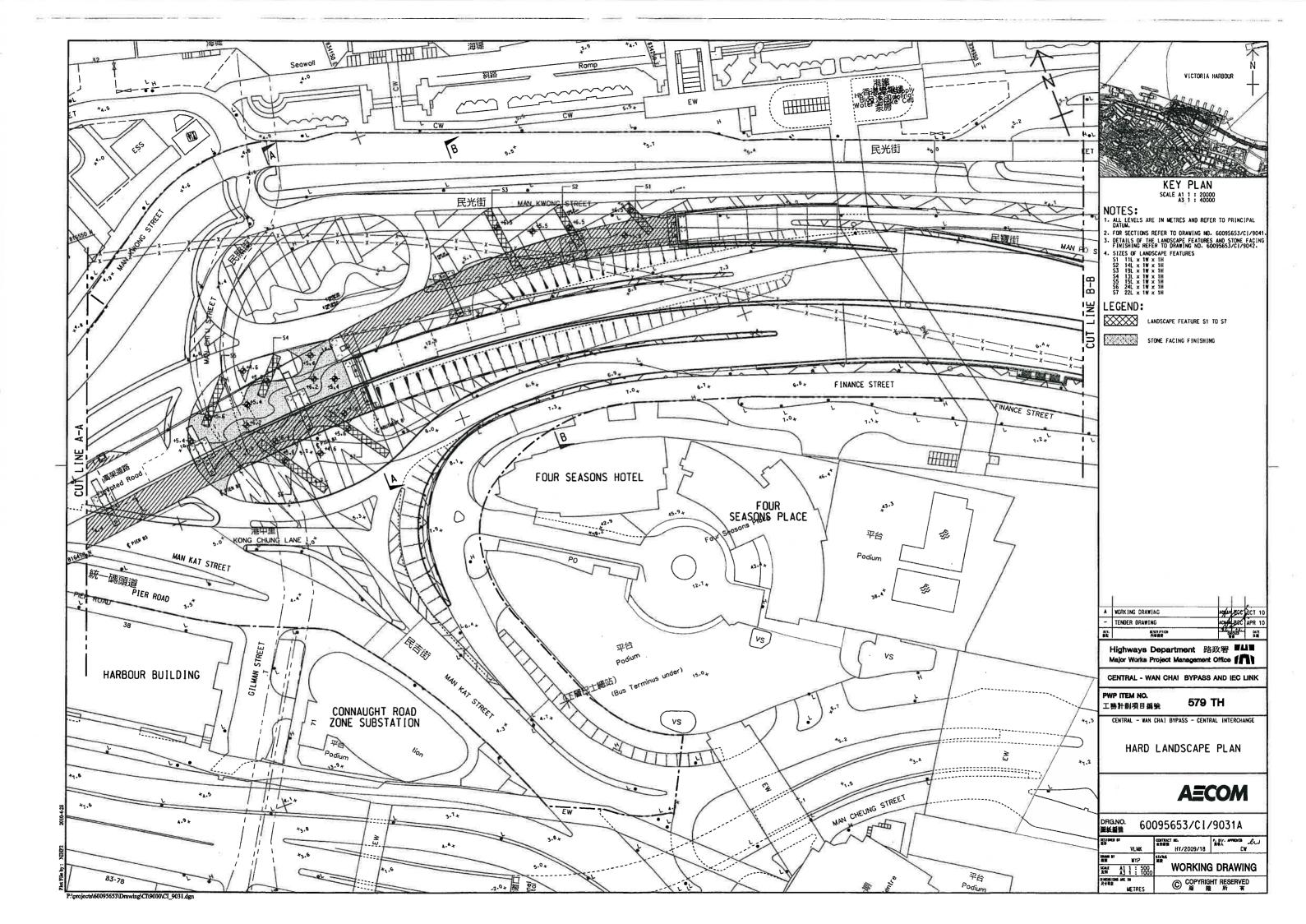


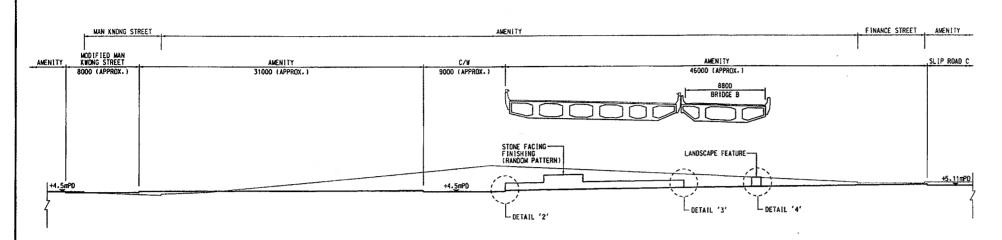


Appendix G Hard Landscape Sections and Details

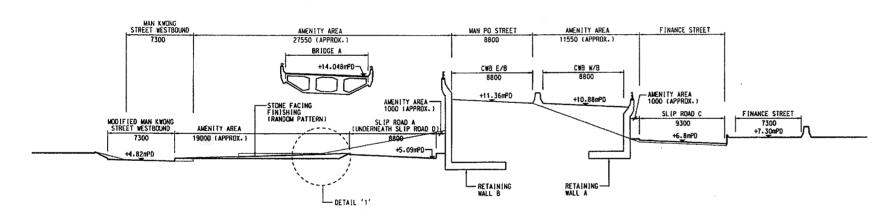
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SECTION B - B
SCALE A1 1 : 200
A3 1 : 400

NOTES:

- 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60095653/CI/9031.
- UNAWHON ONL SOUSSESS/CI79USI.

 ALL DIMENSION ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.

 THE DIMENSIONS AND LEVELS AS SHOWN ON THIS DRAWING IS INDICATIVE ONLY. THE EXACT LEVELS AND DIMENSION FOR THE PROPOSED WORKS SHALL REFER TO MELEVANT DRAWING.

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L	-	TENDER DRAWING	AGHAN BEC	APR 10
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Highways Department 路政署 ■ LLE Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 工務計劃項目編號

579 TH

CENTRAL - WAN CHAI BYBASS - CENTRAL INTERCHANGE

HARD LANDSCAPE SECTIONS
AND DETAILS

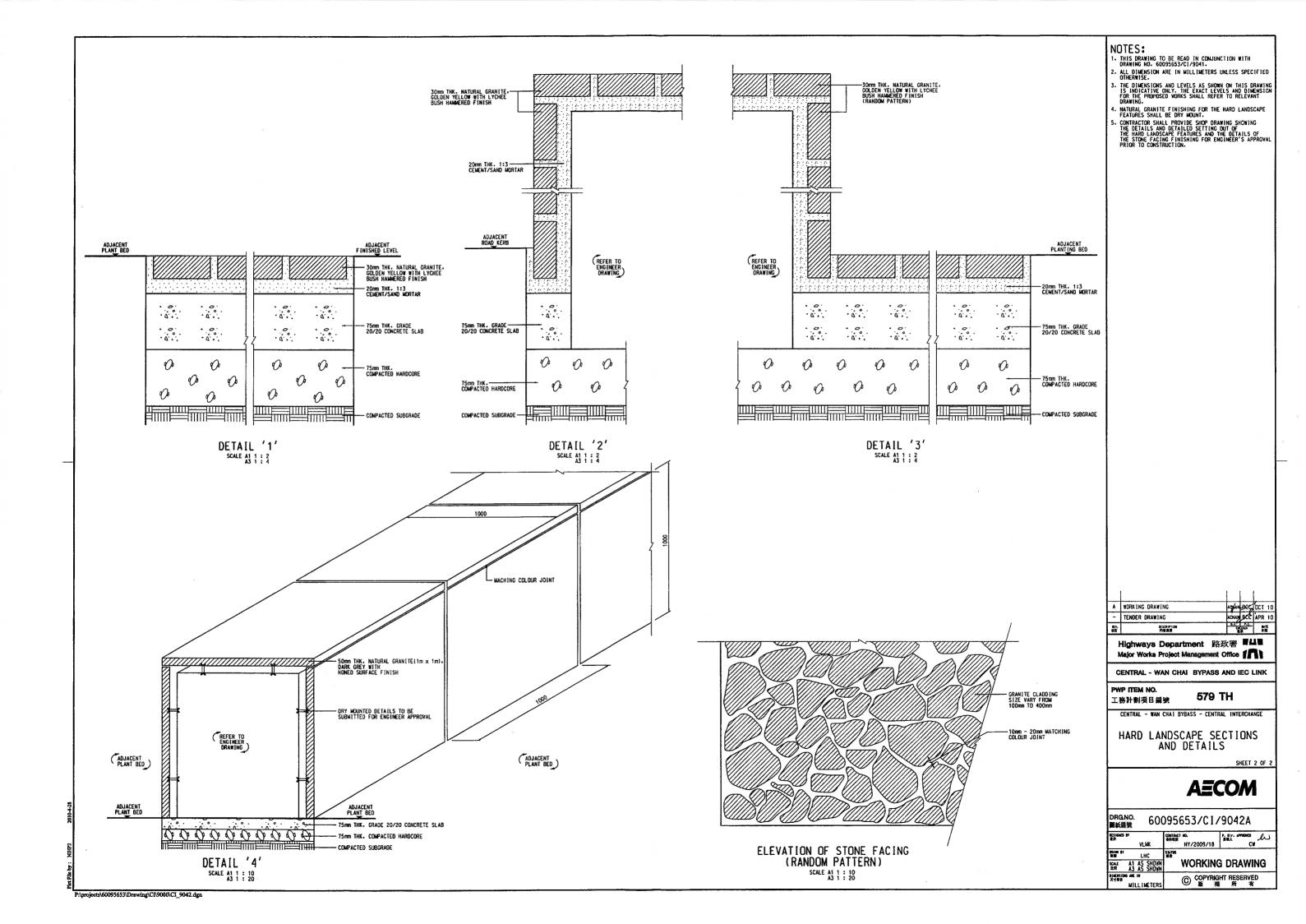
SHEET 1 OF 2

AECOM

DRG.NO.	60095653/CI/9041A			
DESIGNED BY	VLMK	CONTRACT NO. 合作編集 HY/2009/18	P. Dir. APPROVED LL.	
DRAME BY SEE	NHP	STATUS BR WODKING	C DDAWING	

WORKING DHAWING © COPYRIGHT RESERVED 版 所 有

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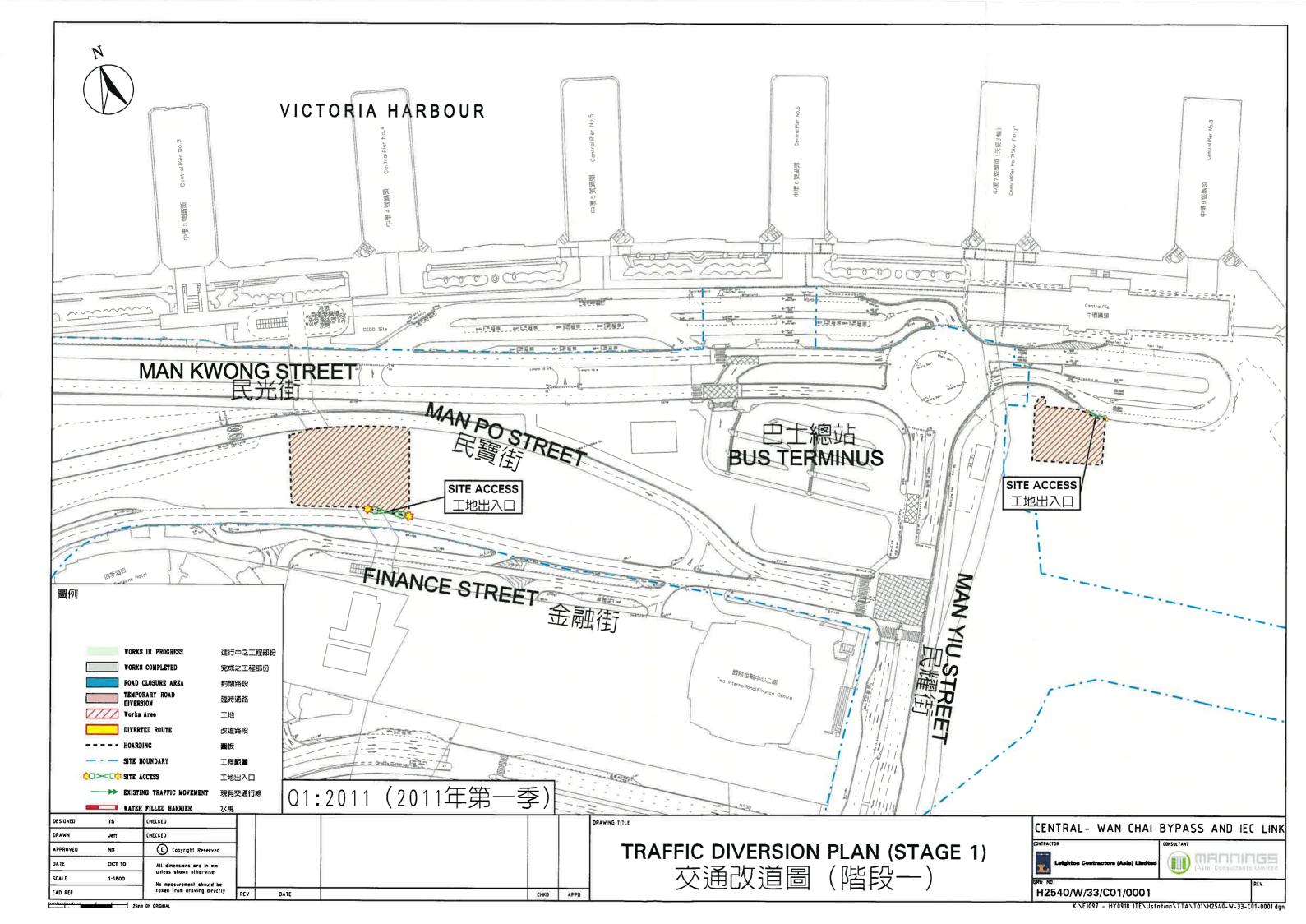


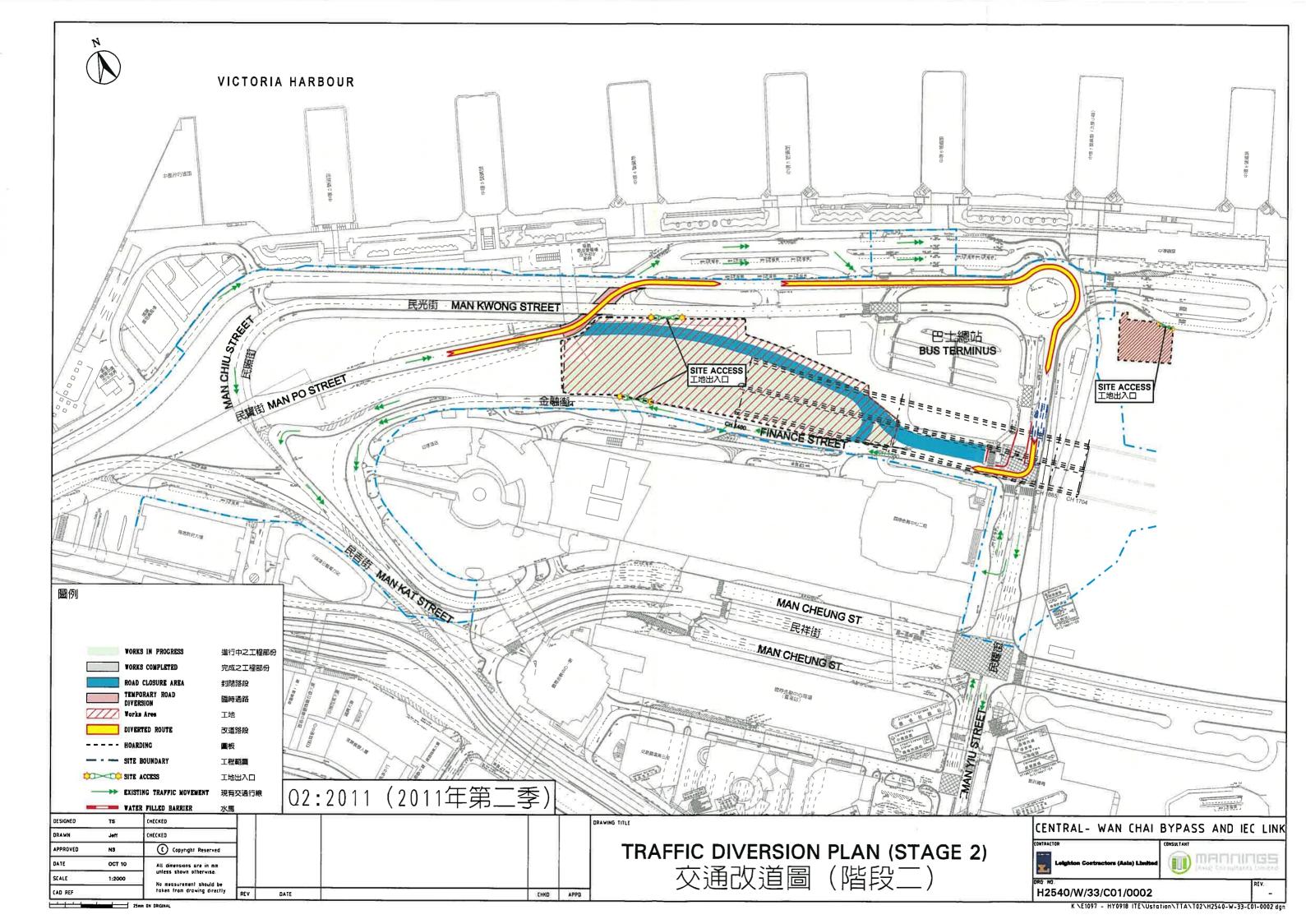
Appendix H Hoarding Plans

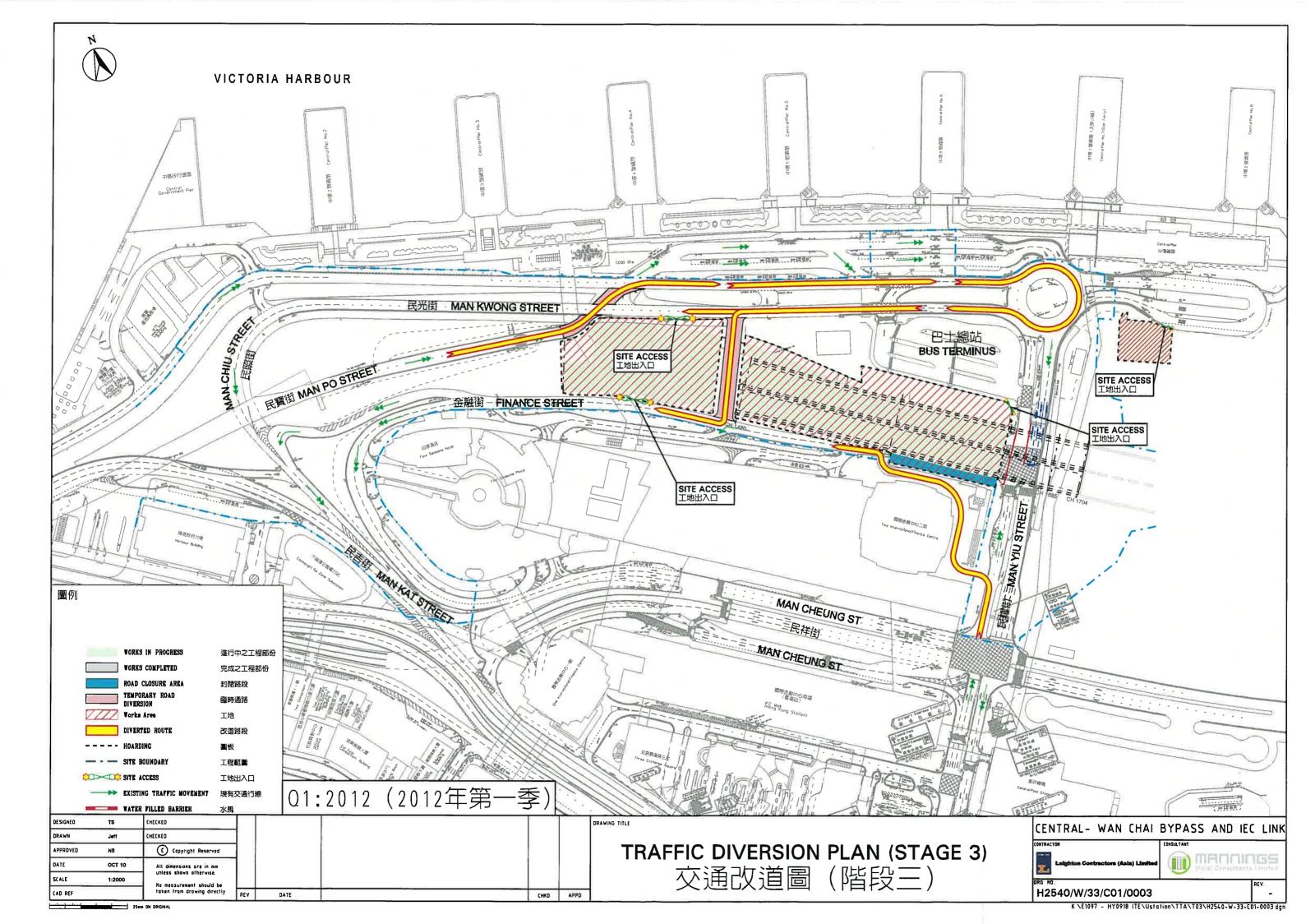
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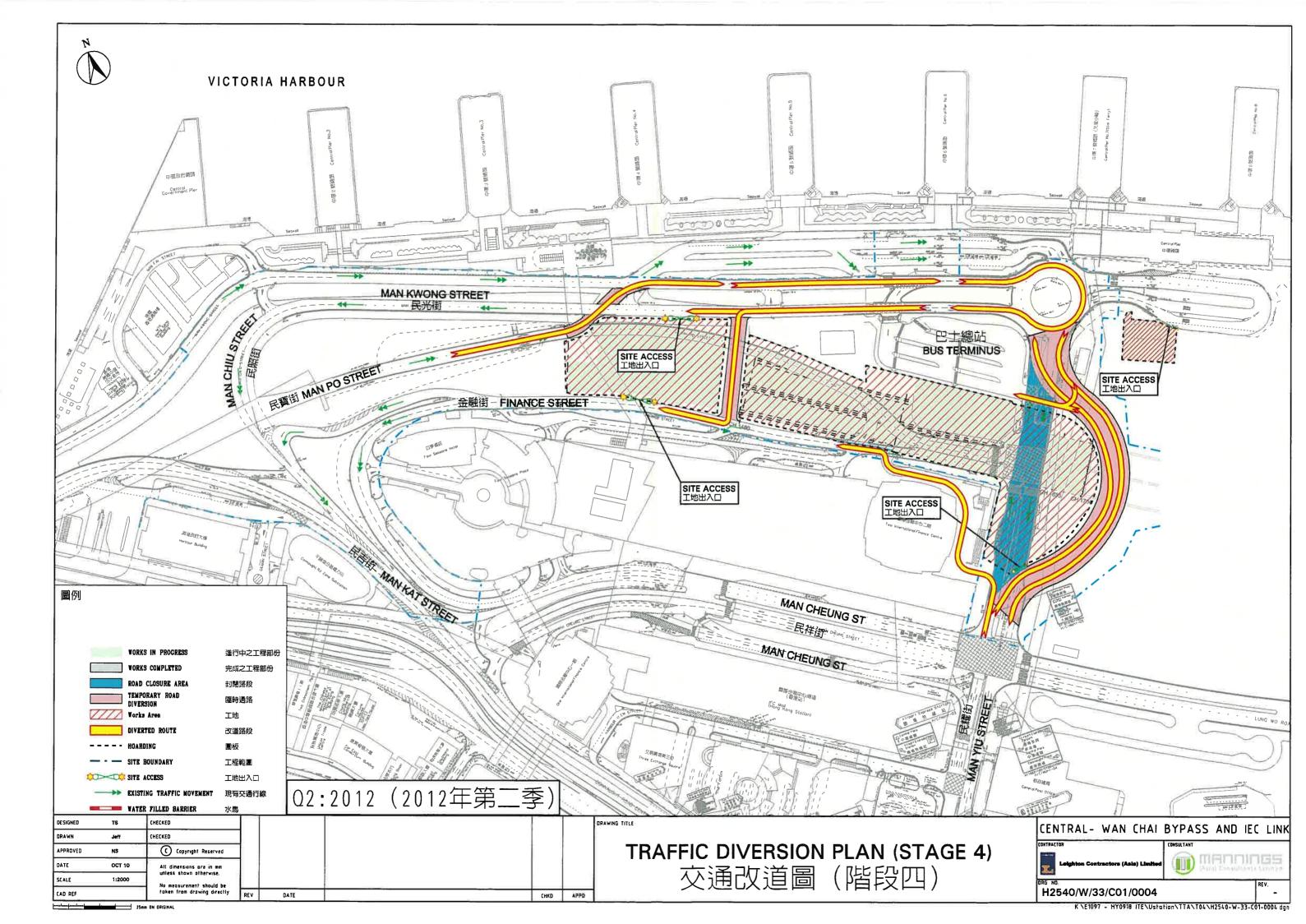
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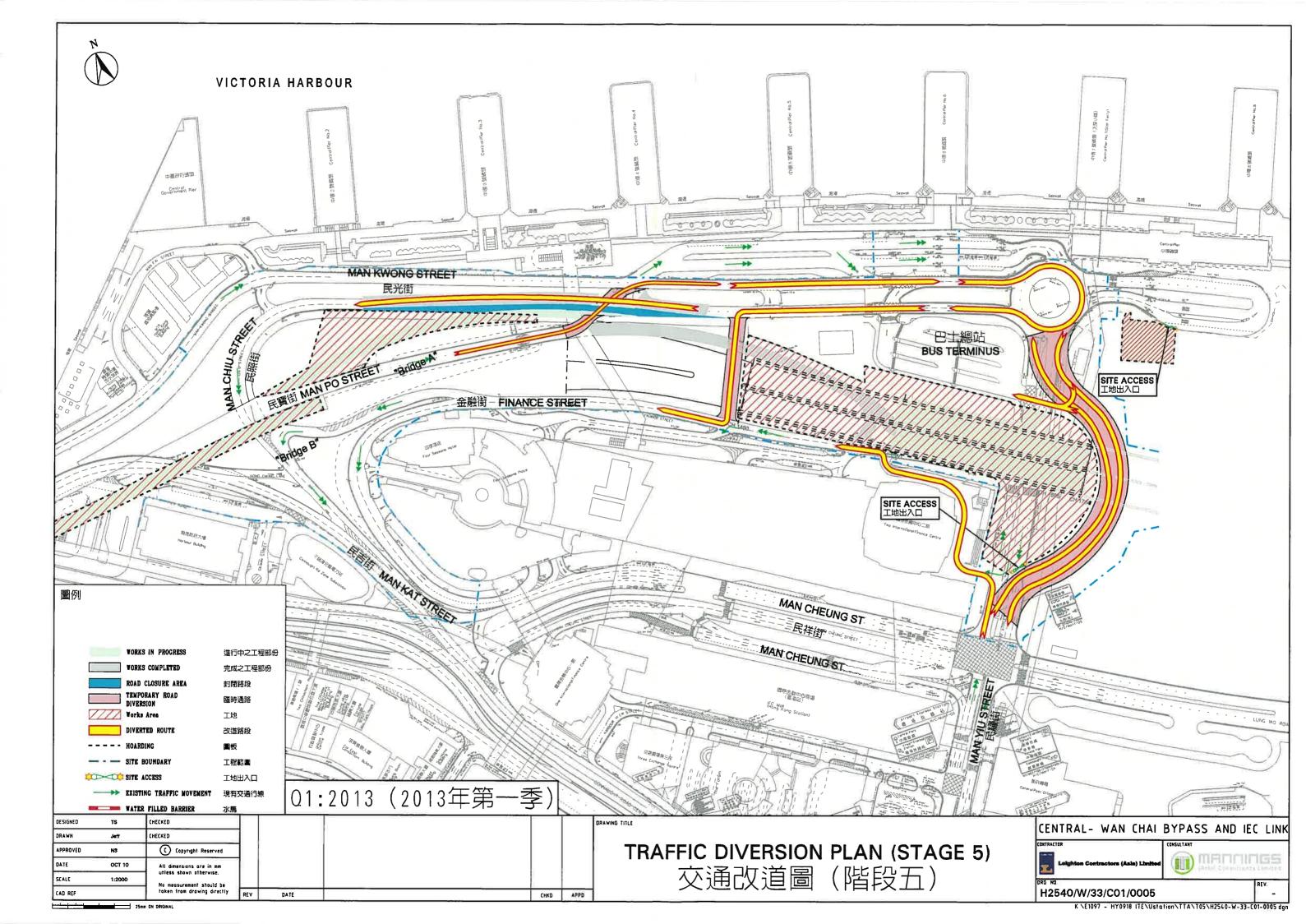
H2540-ENV-PLN-002-03; 15 APR 11











Appendix I Surface Treatment Figures

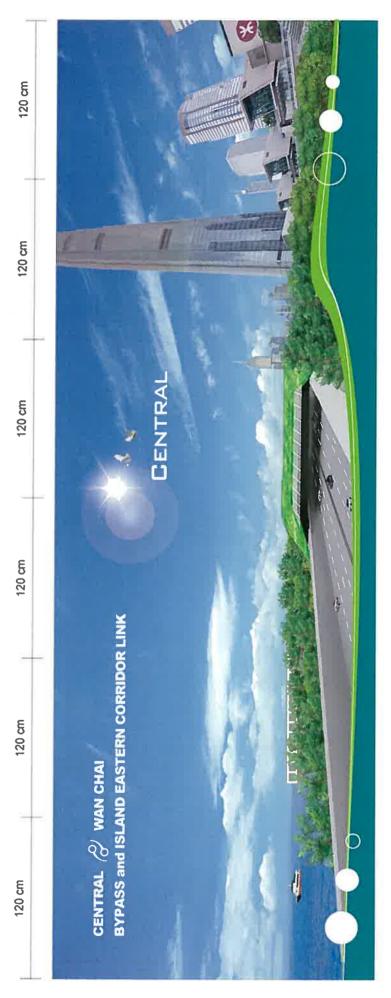
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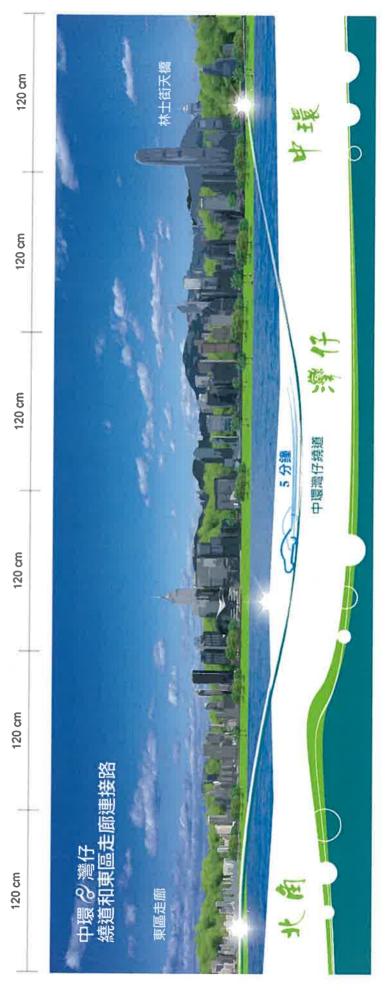
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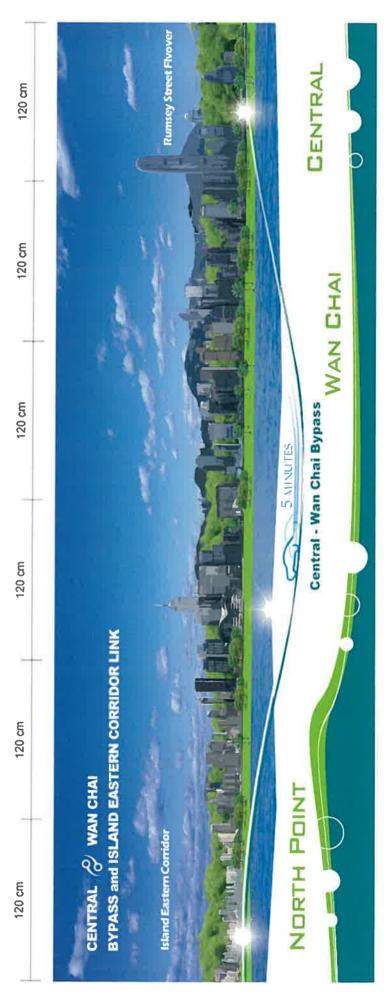
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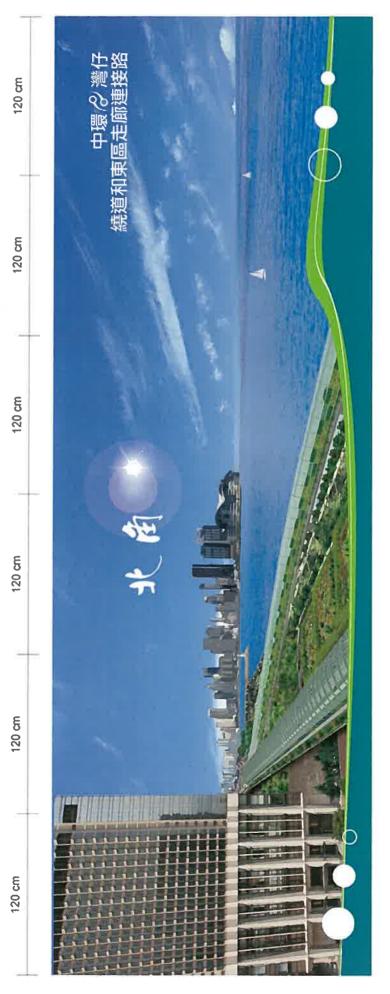
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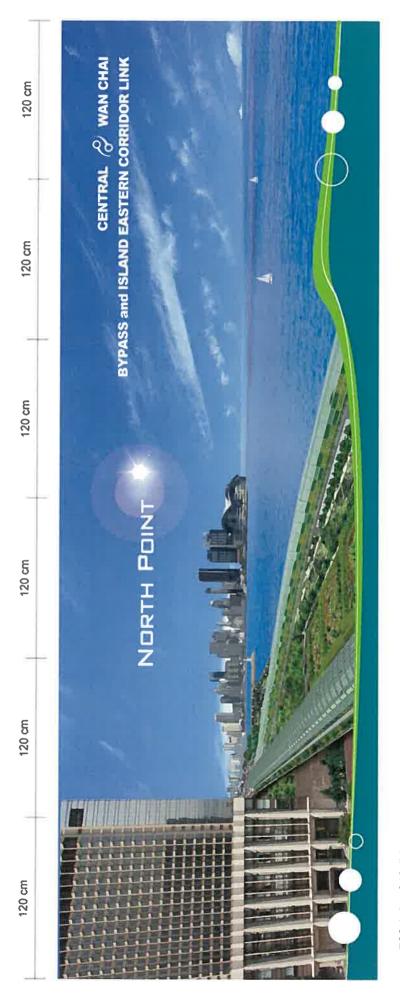
 $720 (w) \times 240 (h) cm$



 $720 (w) \times 240 (h) cm$



 $720 (w) \times 240 (h) cm$



720 (w) x 240 (h) cm



120 (w) x 240 (h) cm

2520cm



120cm

720cm



120cm

720cm



2400



B R R B HICHAYS DEPARTMENT .4







RA & BA