

19 NATIONAL CIRCUIT

WORKS APPROVAL

DRAWING REGISTER

LANDSCAPE WORKS			
DWG#	TITLE	DATE	REVISION
1574 - 000	COVER PAGE	02.09.20	D
1574 - 100	TREE ASSESSMENT PLAN - LEGEND AND NOTES	31.07.20	D
1574 - 101	TREE ASSESSMENT PLAN - SHEET 1	31.07.20	D
1574 - 102	TREE ASSESSMENT PLAN - SHEET 2	31.07.20	D
1574 - 103	TREE ASSESSMENT PLAN - SHEET 3	31.07.20	D
1574 - 104	TREE ASSESSMENT - SCHEDULE	31.07.20	D
1574 - 120	LANDSCAPE MANAGEMENT PLAN - LEGEND AND NOTES	31.07.20	D
1574 - 121	LANDSCAPE MANAGEMENT PLAN - SHEET 1	31.07.20	D
1574 - 122	LANDSCAPE MANAGEMENT PLAN - SHEET 2	31.07.20	D
1574 - 123	LANDSCAPE MANAGEMENT PLAN - SHEET 3	31.07.20	D
1574 - 130	TREE MANAGEMENT PLAN - LEGEND AND NOTES	31.07.20	D
1574 - 131	TREE MANAGEMENT PLAN - SHEET 1	31.07.20	D
1574 - 132	TREE MANAGEMENT PLAN - SHEET 2	31.07.20	D
1574 - 133	TREE MANAGEMENT PLAN - SHEET 3	31.07.20	D
1574 - 301	GENERAL ARRANGEMENTS PLAN - SHEET 1	02.09.20	D
1574 - 302	GENERAL ARRANGEMENTS PLAN - SHEET 2	02.09.20	D
1574 - 303	GENERAL ARRANGEMENTS PLAN - SHEET 3	02.09.20	D
1574 - 601	PLANTING PLAN - SHEET 1	02.09.20	D
1574 - 602	PLANTING PLAN - SHEET 2	02.09.20	D
1574 - 603	PLANTING PLAN - SHEET 3	02.09.20	D
1574 - 801	DETAILS - SHEET 1	31.07.20	C
1574 - 901	MATERIALS IMAGERY SHEET 1 - SURFACES AND FIXTURES	31.07.20	D
1574 - 902	MATERIALS IMAGERY SHEET 2 - PLANT SPECIES	31.07.20	D
1574 - 903	MATERIALS IMAGERY SHEET 3 - PLANT SPECIES	31.07.20	D

LOCATION PLAN



1:100@A1 1:200@A3 ⓘ

LEGEND

BLOCK BOUNDARY

EXISTING TREE - ON-SITE

EXISTING TREE - OFF-SITE

TREE IDENTIFICATION

2 PYu [M]	TREE ASSESSMENT NUMBER
2 PYu [M]	TREE SPECIES
2 Pyu [M]	TREE QUALITY RATING

SUPPLEMENTARY NOTES

(TCCS)	TREE ON UN-LEASED TERRITORY LAND
(REGU)	REGULATED TREE

TREE QUALITY ASSESSMENT

An overall assessment of the quality of the tree and its relative importance for retention within an urban context

Poor (P)

A tree that:
Is of poor, structure or health, is in decline; which has limited potential to contribute to the landscape

Medium (M)

A tree that:
Is of reasonable form, structure or health; and whose presence contributes to the landscape but not as significantly as high/exceptional quality trees.

High (H)

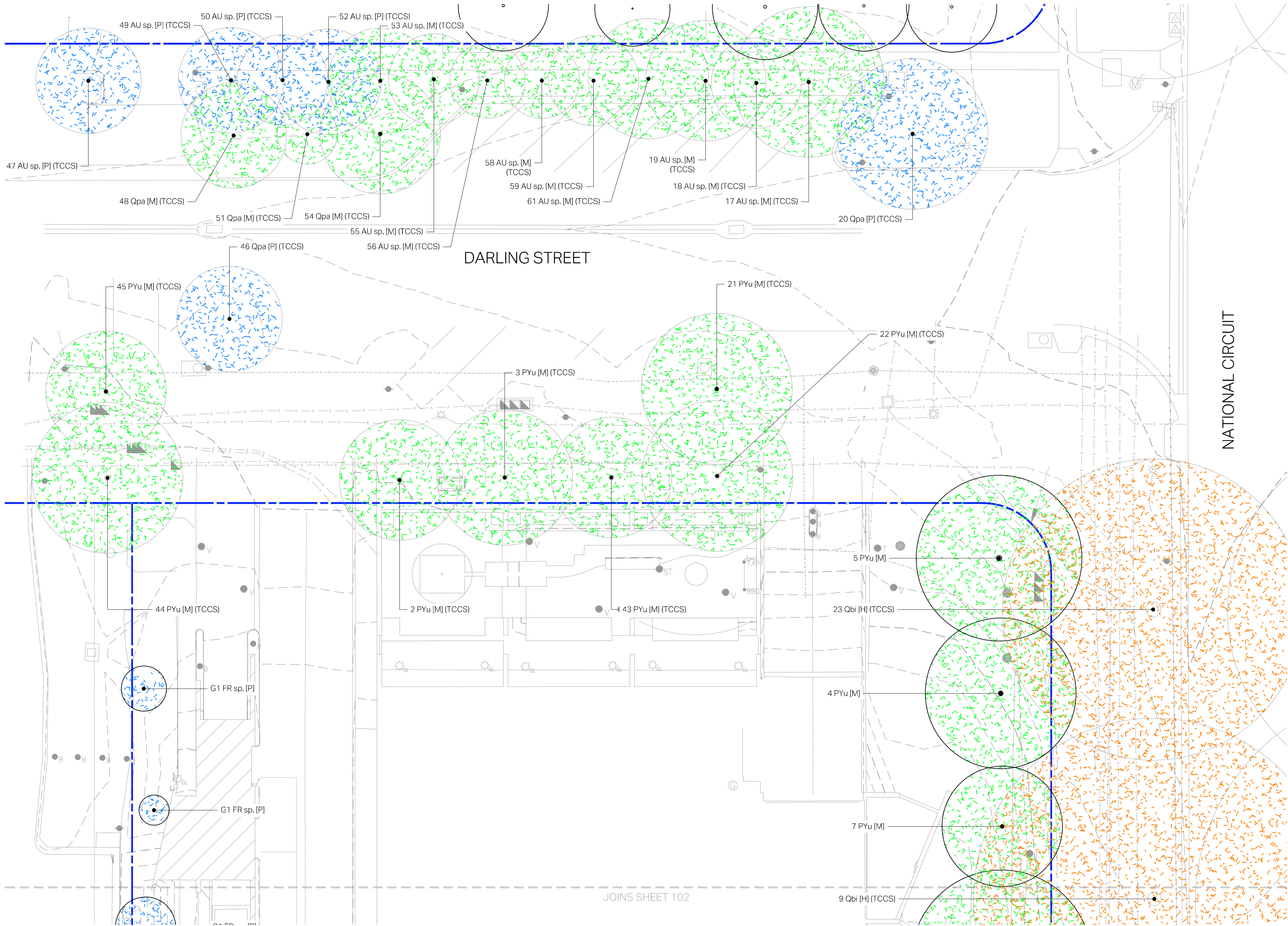
A tree that:
is of good form, structure and health; is without significant defect; and which has the potential to make a significant contribution to the landscape

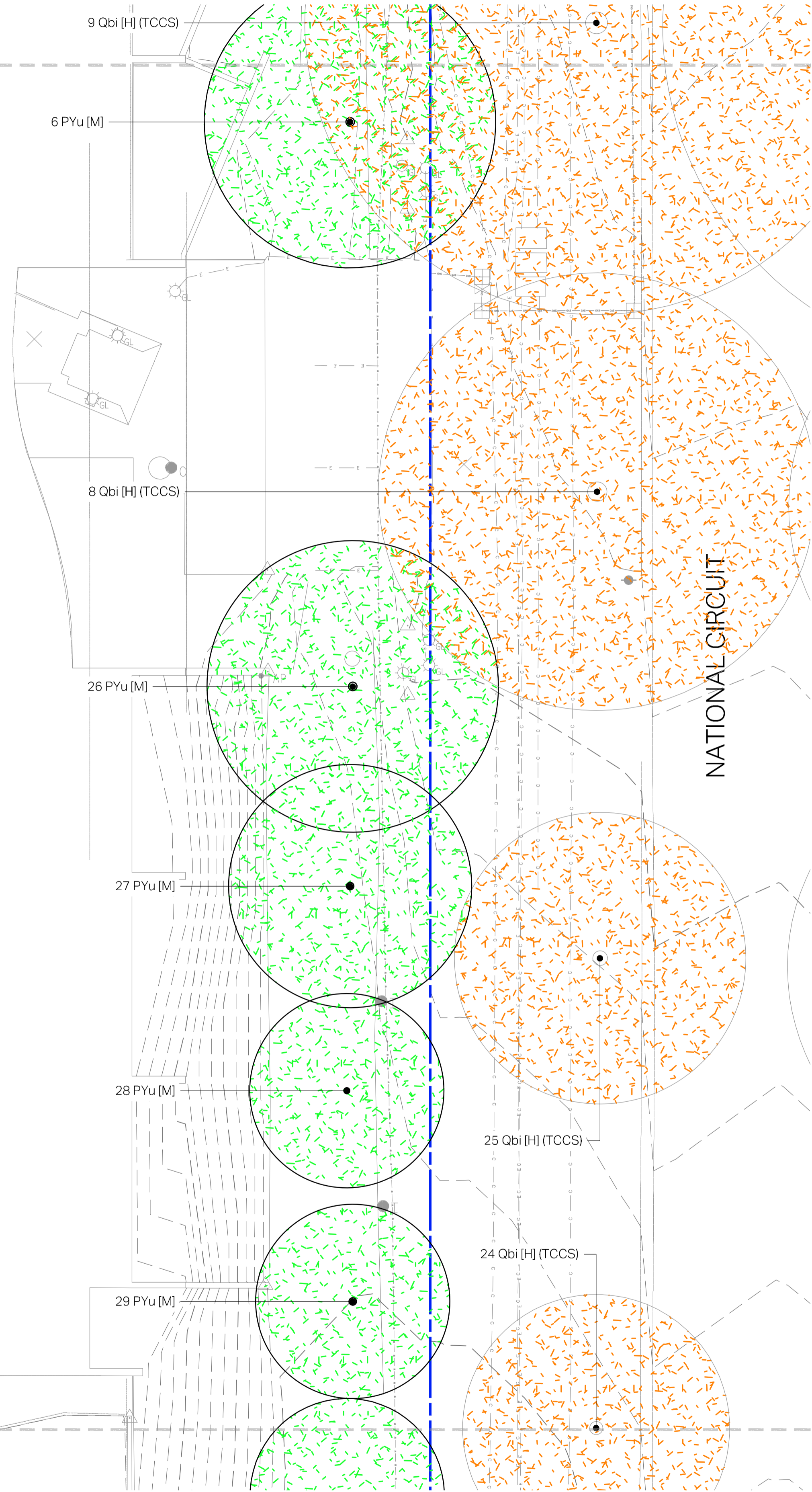
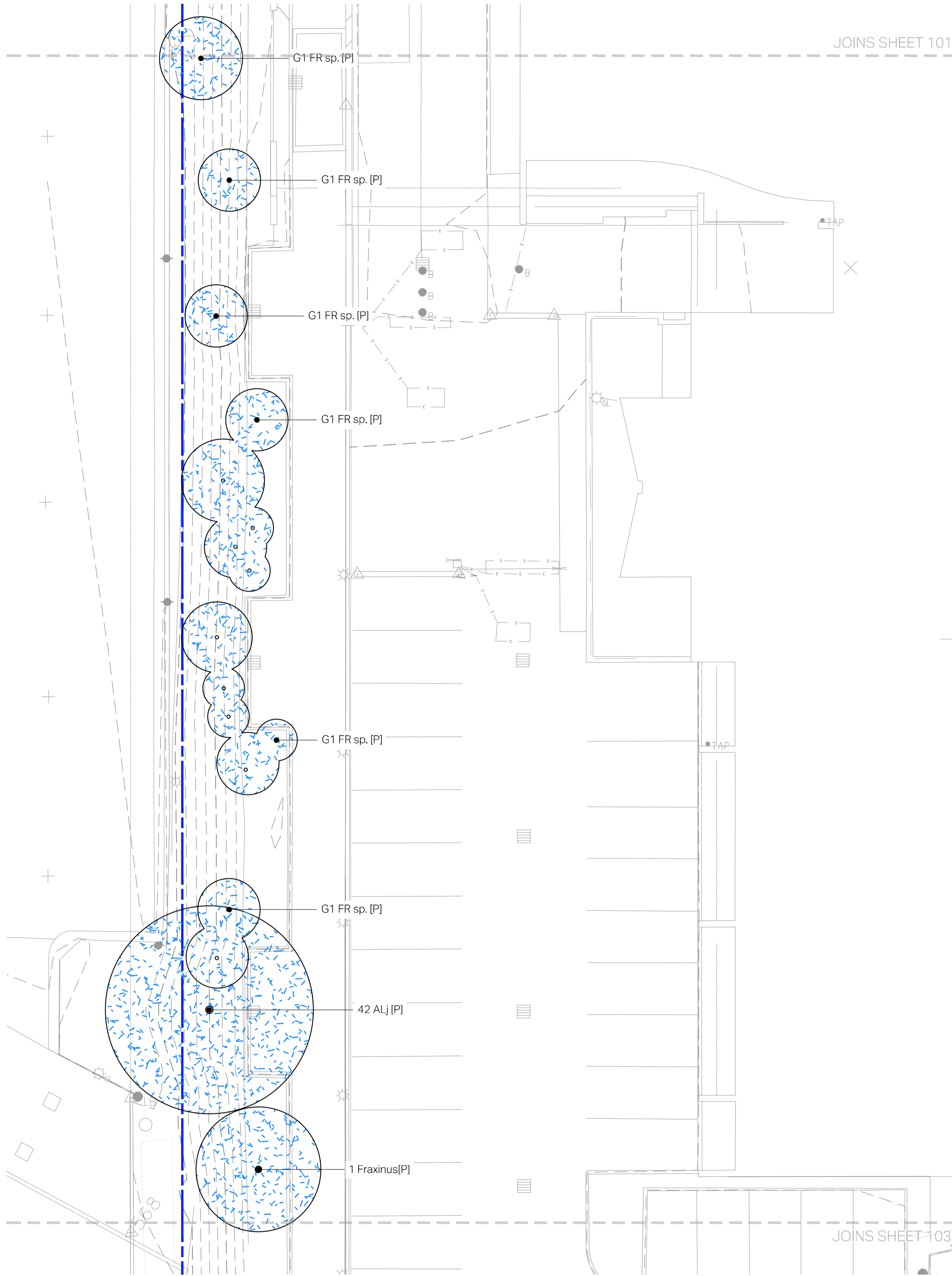
Exceptional (E)

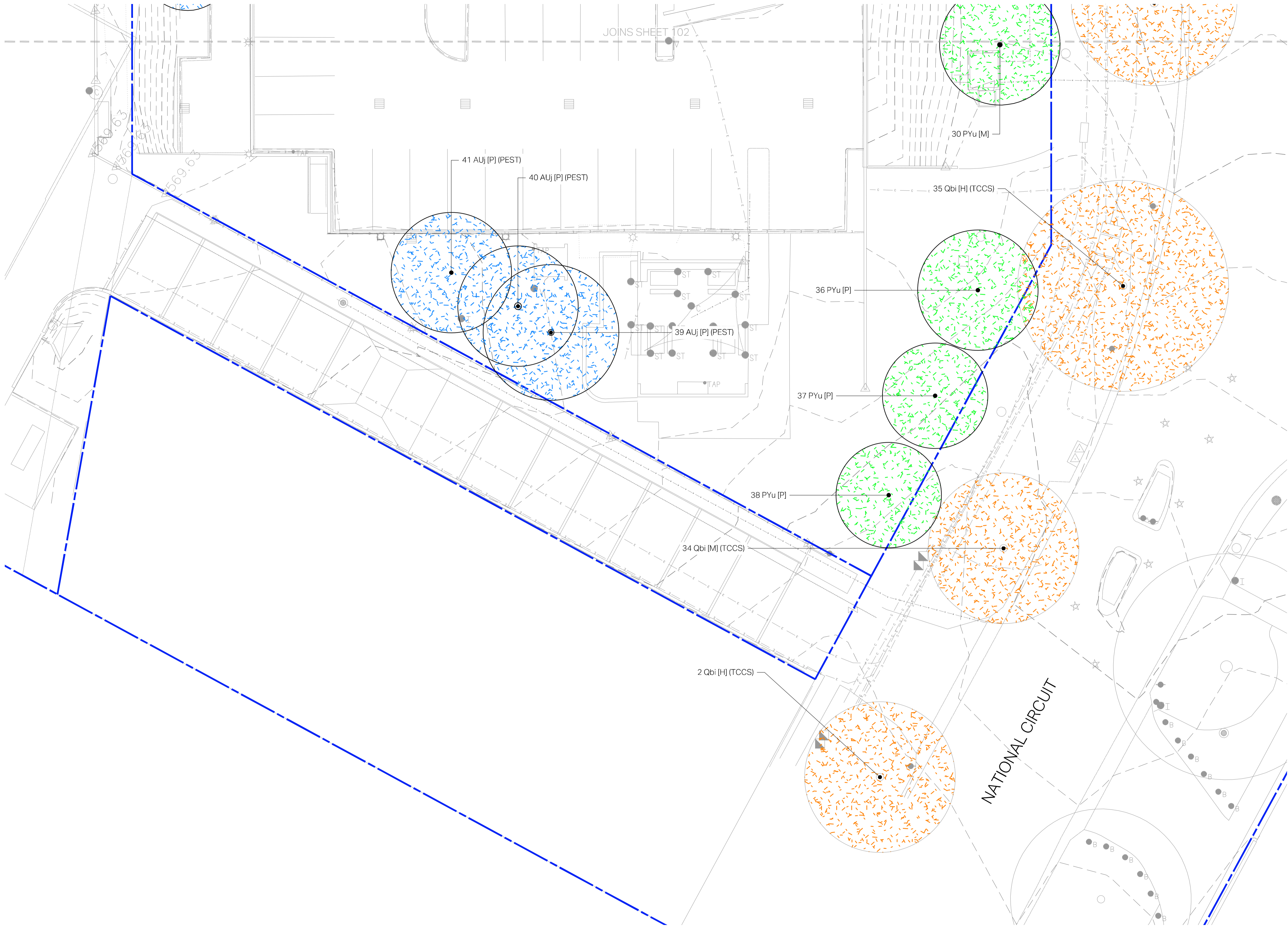
A tree that:
has natural or cultural heritage importance; or has high aesthetic value and will have a major contribution to the surrounding landscape; or is of outstanding form, structure and health, and is an excellent example of the species; or has significant scientific value, including ecological importance

TREE ASSESSMENT SPECIES LIST

CODE	SPECIES	COMMON NAME
AUj	<i>Alnus jorullensis</i>	Evergreen Alder
AU sp.	<i>Alnus</i> Species	Alder Species
FR sp.	<i>Fraxinus</i> Speices	Ash Speices
PYu	<i>Pyrus ussuriensis</i>	Manchurian Pear
Qpa	<i>Quercus palustris</i>	Pin Oak
Qbi	<i>Quercus bicolor</i>	Swamp White Oak







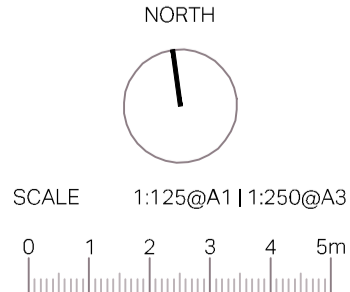
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CONSULTANTS
ARCHITECT: NETTLETON TRIBE
ENGINEER: NOTRHOP
PLANNER:



REV	ISSUE
D	FOR WORKS APPROVAL
C	WORKS APPROVAL
B	DRAFT WORKS APPROVAL
A	FOR INFORMATION

DATE	DRN	CHK
31.07.20	LD	DM
28.01.20	LD	DM
11.12.19	LD	DM
28.11.19	LD	DM



PROJECT
19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

REFER SHEET 100
FOR LEGEND AND NOTES

PROJECT No.	SHEET	ISSUE
1574	103	D

TREE ASSESSMENT
Sheet 3

Tree Number	Botanical Name	Height (m)	Trunk circumference (m)	Number of trunks	Canopy Diameter(m)	General Health (E,G,F,P)	Structural Defects / Decay (Y/N)	Past Damage / Disturbance (Y/N)	Disease Infestation (Y/N)	Growth Stage (J, SM, M, OM)	Tree Quality (P, M, H, E)	Regulated (Y/N) or TCCS tree	Notes
1	<i>Alnus jorullensis</i>	6.5	0.9	3	6.00	F	N	N	N	M	P	N	
2	<i>Pyrus ussuriensis</i>	8	1.1	1	8.00	F	N	N	N	M	M	TCCS	Leans east
3	<i>Pyrus ussuriensis</i>	7.5	0.9	1	9.00	F	N	N	N	M	M	TCCS	
4	<i>Pyrus ussuriensis</i>	9	0.9	1	10.00	F	N	N	N	M	M	N	Crowded by tree 9
5	<i>Pyrus ussuriensis</i>	9	1.1	1	11.00	F	N	N	N	M	M	N	Crowded by tree 9
6	<i>Pyrus ussuriensis</i>	10	1.1	1	12.00	F	N	N	N	M	M	N	
7	<i>Pyrus ussuriensis</i>	8.5	0.8	1	8.00	F	N	N	N	M	M	N	Crowded by tree 9
8	<i>Quercus bicolor</i>	10	2.5	1	18.00	G	N	Y	N	OM	H	TCCS	Deadwood, Epicormic growth, Low hanging branches, In pavement
9	<i>Quercus bicolor</i>	18	2.8	1	24.00	G	N	N	N	OM	H	TCCS	Deadwood
17	<i>Alnus</i> Species	10	0.9	1	10.00	F	N	N	N	M	M	TCCS	
18	<i>Alnus</i> Species	7.5	0.3	1	6.00	F	N	N	N	M	M	TCCS	
19	<i>Alnus</i> Species	8	0.5	1	8.00	F	N	N	N	M	M	TCCS	
20	<i>Quercus palustris</i>	10	0.9	1	10.00	P	Y	N	N	M	P	TCCS	Deawood, Crown dieback
21	<i>Pyrus ussuriensis</i>	8	0.9	1	10.00	F	N	N	N	M	M	TCCS	Low branches
22	<i>Pyrus ussuriensis</i>	9	1.3	1	10.00	F	Y	N	Y	M	M	TCCS	Fungus growth, Branch removed
23	<i>Quercus bicolor</i>	25	3.1	1	20.00	G	N	N	N	OM	H	TCCS	branch removed, Low hanging branches
24	<i>Quercus bicolor</i>	11	1.7	1	11.00	F	N	N	N	OM	H	TCCS	Deadwood, Epicormic growth
25	<i>Quercus bicolor</i>	12	1.9	1	12.00	F	N	N	N	OM	H	TCCS	Deadwood, Epicormic growth
26	<i>Pyrus ussuriensis</i>	10	1.1	1	12.00	F	N	N	N	M	M	N	
27	<i>Pyrus ussuriensis</i>	9	0.9	1	10.00	F	N	N	N	M	M	N	
28	<i>Pyrus ussuriensis</i>	8	0.8	1	8.00	F	N	N	N	M	M	N	Low hanging branches
29	<i>Pyrus ussuriensis</i>	8	0.9	1	8.00	F	N	N	N	M	M	N	
30	<i>Pyrus ussuriensis</i>	8	0.9	1	8.00	F	N	N	N	M	M	N	
33	<i>Quercus bicolor</i>	12	1.6	1	10.00	F	N	Y	N	OM	H	TCCS	Deadwood, Epicormic growth
34	<i>Quercus bicolor</i>	10	1.6	1	10.00	F	N	N	N	OM	H	TCCS	Deadwood, Epicormic growth

Tree Number	Botanical Name	Height (m)	Trunk circumference (m)	Number of trunks	Canopy Diameter(m)	General Health (E,G,F,P)	Structural Defects / Decay (Y/N)	Past Damage / Disturbance (Y/N)	Disease Infestation (Y/N)	Growth Stage (J, SM, M, OM)	Tree Quality (P, M, H, E)	Regulated (Y/N) or TCCS tree	Notes
35	<i>Quercus bicolor</i>	10	1.6	1	14.00	F	N	N	N	OM	H	TCCS	Deadwood
36	<i>Pyrus ussuriensis</i>	6.5	0.8	1	8.00	G	N	N	N	M	M	N	
37	<i>Pyrus ussuriensis</i>	5.5	0.8	1	7.00	G	N	N	N	M	M	N	
38	<i>Pyrus ussuriensis</i>	6	0.8	1	7.00	F	N	N	N	M	M	N	
39	<i>Alnus jorullensis</i>	11	1.3	1	9.00	F	N	N	N	OM	P	Y	
40	<i>Alnus jorullensis</i>	11.5	1.4	1	8.00	P	Y	Y	N	OM	P	Y	
41	<i>Alnus jorullensis</i>	5	0.8	1	8.00	P	N	N	N	SM	P	N	
42	<i>Alnus jorullensis</i>	8.5	1.1	1	10.00	F	N	N	N	M	P	N	
43	<i>Pyrus ussuriensis</i>	8	1.1	1	8.00	P	Y	Y	N	M	M	TCCS	
44	<i>Pyrus ussuriensis</i>	7	1.3	1	10.00	G	N	N	N	M	M	TCCS	
45	<i>Pyrus ussuriensis</i>	6.5	0.9	1	8.00	G	N	N	N	M	M	TCCS	
46	<i>Quercus palustris</i>	7	0.6	1	7.00	P	Y	N	N	SM	P	TCCS	Deawood, Crown Dieback
47	<i>Alnus</i> Species	12	0.8	1	7.00	P	Y	N	N	M	P	TCCS	
48	<i>Quercus palustris</i>	9.5	0.8	1	7.00	M	N	N	N	M	M	TCCS	
49	<i>Alnus</i> Species	9.5	0.9	1	7.00	P	Y	N	N	M	P	TCCS	
50	<i>Alnus</i> Species	9.5	0.6	1	6.00	P	Y	N	N	M	P	TCCS	
51	<i>Quercus palustris</i>	6	0.3	1	4.00	F	N	N	N	SM	M	TCCS	
52	<i>Alnus</i> Species	9	0.8	1	7.00	P	Y	N	N	M	P	TCCS	
53	<i>Alnus</i> Species	9	0.8	1	7.00	F	N	N	N	M	M	TCCS	
54	<i>Quercus palustris</i>	10	0.9	1	8.00	F	N	N	N	M	M	TCCS	
55	<i>Alnus</i> Species	5.5	0.6	1	6.00	F	N	N	N	M	M	TCCS	
56	<i>Alnus</i> Species	6	0.5	1	5.00	F	N	N	N	M	M	TCCS	
58	<i>Alnus</i> Species	7.5	0.6	1	5.00	F	N	N	N	M	M	TCCS	
59	<i>Alnus</i> Species	7	0.8	1	6.00	F	N	N	N	M	M	TCCS	
61	<i>Alnus</i> Species	7	0.8	1	8.00	F	N	N	N	M	M	TCCS	
G1	<i>Fraxinus</i> Species	varies	varies	varies	varies	P-F	varies	N	N	varies	P	N	

LEGEND

BLOCK BOUNDARY

EXISTING TREE - ON-SITE
To be retained

EXISTING TREE - ON-SITE
To be removed

EXISTING TREE - OFF-SITE
To be retained - refer LMP

EXISTING TREE - OFF-SITE
To be removed - refer LMP

TREE PROTECTION ZONE (OF REGULATED AND TCCS TREES SUBJECT TO DA WORKS)
Canopy plus 2m

GROUND FLOOR BUILDING
Refer architects documents

EXTENT OF BASEMENT
Refer architects documents

TREE IMPACTS
+/- 100mm

SITE FENCE

TRAFFIC BARRIER

SITE ACCESS / GATE

TEMPORARY DRIVE WAY

SITE AMENITIES

LAY DOWN AREA

SUPPLEMENTARY TREE PROTECTION FENCING
CHAIN LINK MESH PANELS 1800 HIGH FOR DURATION OF SITE CONSTRUCTION WORKS

TREE IDENTIFICATION

2 PYu [M]	TREE ASSESSMENT NUMBER
2 PYu [M]	TREE SPECIES
2 Pyu [M]	TREE QUALITY RATING

SUPPLEMENTARY NOTES

(TCCS)	TREE ON UN-LEASED TERRITORY LAND
(REGU)	REGULATED TREE

(PEST)	PEST SPECIES
(DEAD)	DEAD

TREE ASSESSMENT SPECIES LIST

CODE	SPECIES	COMMON NAME
AUj	<i>Alnus jorullensis</i>	Evergreen Aldar
AU sp.	<i>Alnus</i> Species	Aldar Species
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Qpa	<i>Quercus palustris</i>	Pin Oak
Qbi	<i>Quercus bicolor</i>	Swamp White Oak

LANDSCAPE MANAGEMENT AND PROTECTION NOTES

REQUIREMENTS FOR THE PROTECTION OF PUBLIC LANDSCAPE ASSETS ADJACENT TO DEVELOPMENT WORKS ON UNLEASED TERRITORY LAND - PUBLIC OPEN SPACE.

1. GENERAL

ALL CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR SERVICE CONNECTIONS AND LANDSCAPE / CIVIL WORKS APPROVED AS PART OF TCCS DESIGN ACCEPTANCE.If there is a specific need to utilise unleased Territory land adjacent to the Lease, the proponent or their authorised representative is required to contact and consult with TCCS Urban Treescapes to seek approval. The use of public land for storage of site sheds, materials and contractor parking is not generally supported but may be approved in some circumstances with conditions.

1.1 NOTIFICATION AND COMPLIANCE

The client and/or their authorised representative after attaining design approval, are to provide certification in the form of Compliance Notification (email/letter) indicating that the protective fencing has been installed in accordance with the approved LMP is to be forwarded to the relevant Coordinator within Asset Acceptance of the Municipal Services Network prior to works (demolition/clearing/excavation/construction) commencing on the site.

All works are to conform with act government Design Standards for Urban Infrastructure and Standard Specification for Urban Infrastructure Works.

All verge works are to comply with DUS Guideline's for the protection of Public Landscape Assets adjacent to Development Works Ref-04.

Contact the relevant Coordinator within Asset Acceptance to notify when verge restoration commences, and at the completion of work to attain the relevant certificate(s).

1.2 SUPERVISION OF VERGE RESTORATION

A suitably qualified Landscape Architect or Horticulturist must be employed to oversee work in the verge to ensure all requirements are followed.

They must be present during any cultivation/restoration of the verge.

2. VERGE MANAGEMENT

2.0 ANY SERVICE INSTALLATION NOT SHOWN ON THIS PLAN WITHIN 5.0m OF AN EXISTING TREE REQUIRES PRIOR APPROVAL FROM TCCS URBAN TREESCAPES.

2.1 STORAGE OF CONSTRUCTION MATERIALS

No construction material to be stored on verges, or public open spaces. No car parking or equipment parking permitted on verges, or public open spaces.

2.2 SITE ACCOMMODATION

No site sheds, storage sheds, site amenities or billboards to be erected on verges without the written approval of TCCS and compliance in conjunction with Urban Treescapes.

2.3 FENCING

Fence off existing trees in accordance with this plan, Site Management Plan and Temporary Traffic Management Plans by others.

Use of temporary 1800mm tall continuous chain mesh fence supported by steel posts with concrete bases is mandatory. Any variation from this requirement must be approved by the relevant section and coordinated through Asset Acceptance of the Municipal Services Network.

Fencing to be erected before the commencement of any site work and removed at completion of all construction and commencement of verge restoration

The fence is to remain continuous throughout the project.

Fencing must not be removed for service installation across the verge unless in accordance with this plan.

2.3 EXISTING TREES

All street trees are to be retained and kept undamaged unless specifically approved in writing by Asset Acceptance.

Ensure construction equipment can pass beneath lowest limb, through driveway access.

Ensure lifting equipment and load can clear height and width of tree crown without damage to crown.

A suitably qualified arborist / landscape architect approved by TCCS Urban Treescapes must be present for all excavation works beneath tree canopies, restoration or any works that occur beneath tree canopies. Arborist is to provide regular inspections and reporting that all tree protection measures are being complied with and that the LMPP fencing is installed and maintained as approved.

2.4 SITE ACCESS

Construction access for the site is to be shown on this plan, Site Management Plan and Temporary Traffic Management Plans by others.

2.6 SERVICE ENTRY TO SITE

The developer/proponent must coordinate all service approvals.

Servicing of the site is to be as per plan. Any variations from this plan are to be approved in writing by TCCS Urban Tree scapes prior to enacting on site. Realign fence to provide lane for service trenching, but re-erect fence to enclose trees before trenching commences.

Upon completion of trenching, return the fence to its' original alignment.

2.7 SERVICE ALONG STREET

The developer/proponent must coordinate all service approvals.

2.8 PEDESTRIAN AND BICYCLE MOVEMENT

Existing verge footpaths to be maintained and must remain unobstructed throughout the construction period to provide safe public access at all times.

Where a constructed footpath or cycleway exists within the verge, protective fencing must in all cases be set back 600mm from each side of the footpath/cycleway to ensure safe passage for cyclists and pedestrians.

If paths are not present pedestrian access must be provided via a fenced clearway of 1.8m width for the entire frontage of the lease.

2.9 VERGE CONDITION AND RESTORATION

During the project retain all existing verge grass cover, watering may be required to retain grass and trees in good condition.

At the completion of construction verges should still have established dry-land grass cover.Topsoil is not to be removed and the soil level must not be changed.

If the standard of grass cover on the verge is to be improved, the following requirements apply:

Lightly cultivate the soil to 25mm - 50mm depth (50 mm maximum to minimise damage to tree roots).Cultivate only in one direction and avoid major roots, and keep a minimum of 1m away from tree trunks.

Add 'b type' topsoil at 25mm - 50mm depth. Level the topsoil and add npk fertiliser (equivalent to multi-gro) at 40g/m2.

Lay turf or sow seed of suitable drought tolerant species.Keep moist during establishment.

In-ground irrigation systems are generally not permitted in the verge but may be supported if the infrastructure can be installed in accordance with the Design Standards taking into consideration existing vegetation such as street trees. Otherwise, a system of quick couplers at the lease edge of the verge may be installed, subject to approval of the irrigation plan.

Any damage that occurs to verge or open space vegetation on unleased Territory land trees is to be repaired at the developer's/proponents expense. Restorative work is to be approved by Parks and Places through Asset Acceptance of the Municipal Services Network and carried out by approved operators.

3. TREE ROOT PROTECTION

Excavation within drip line of existing trees approved by Municipal Services' Asset Acceptance Section is to be undertaken by hand only. No machinery is to be used.

A qualified and experienced horticulturist or tree surgeon must carry out all root cuts and ensure the cuts are suitably protected to minimise any risk of long term damage to street verge trees.

The majority of tree roots grow in the top 300mm of soil. These are the feeder roots, often very fine roots that provide the tree with water, oxygen and nutrients. These roots typically grow between the tree trunk to well beyond its 'drip-line' (the canopy edge).

Excavation within the drip zone of a tree does considerable damage to its root system. It can affect tree stability and tree health to such an extent that it will lead to die back and decline of the tree. Excavation that occurs within the drip zone of a tree must be approved and is to be restricted to one side of the tree only.

Where excavation is approved the following measures are to be adopted for tree protection: Do not sever large roots (>30 mm diameter) closer than halfway from the drip-line to the trunk.

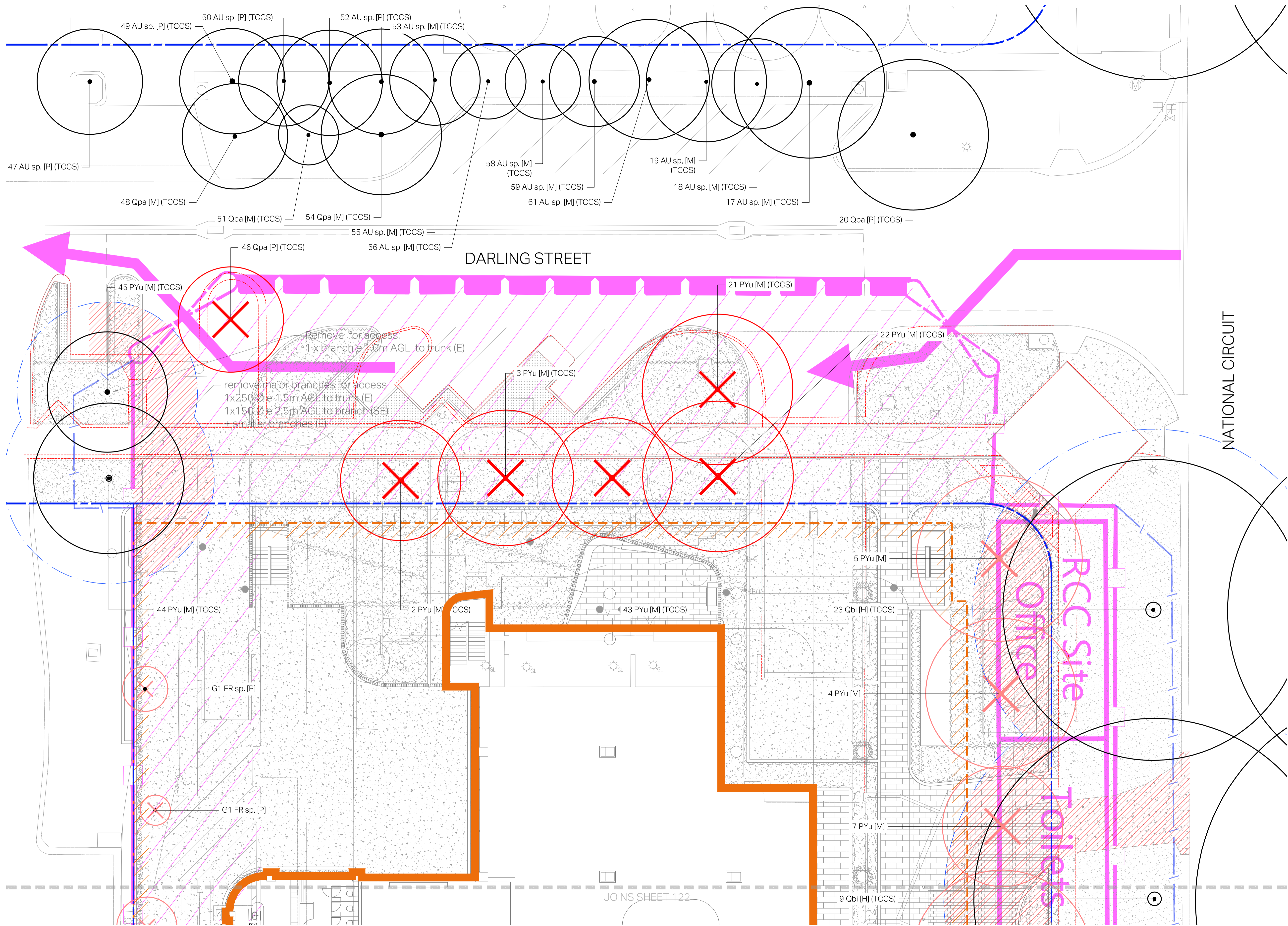
All roots must be cut cleanly with equipment specifically designed to cut roots or other pruning equipment.

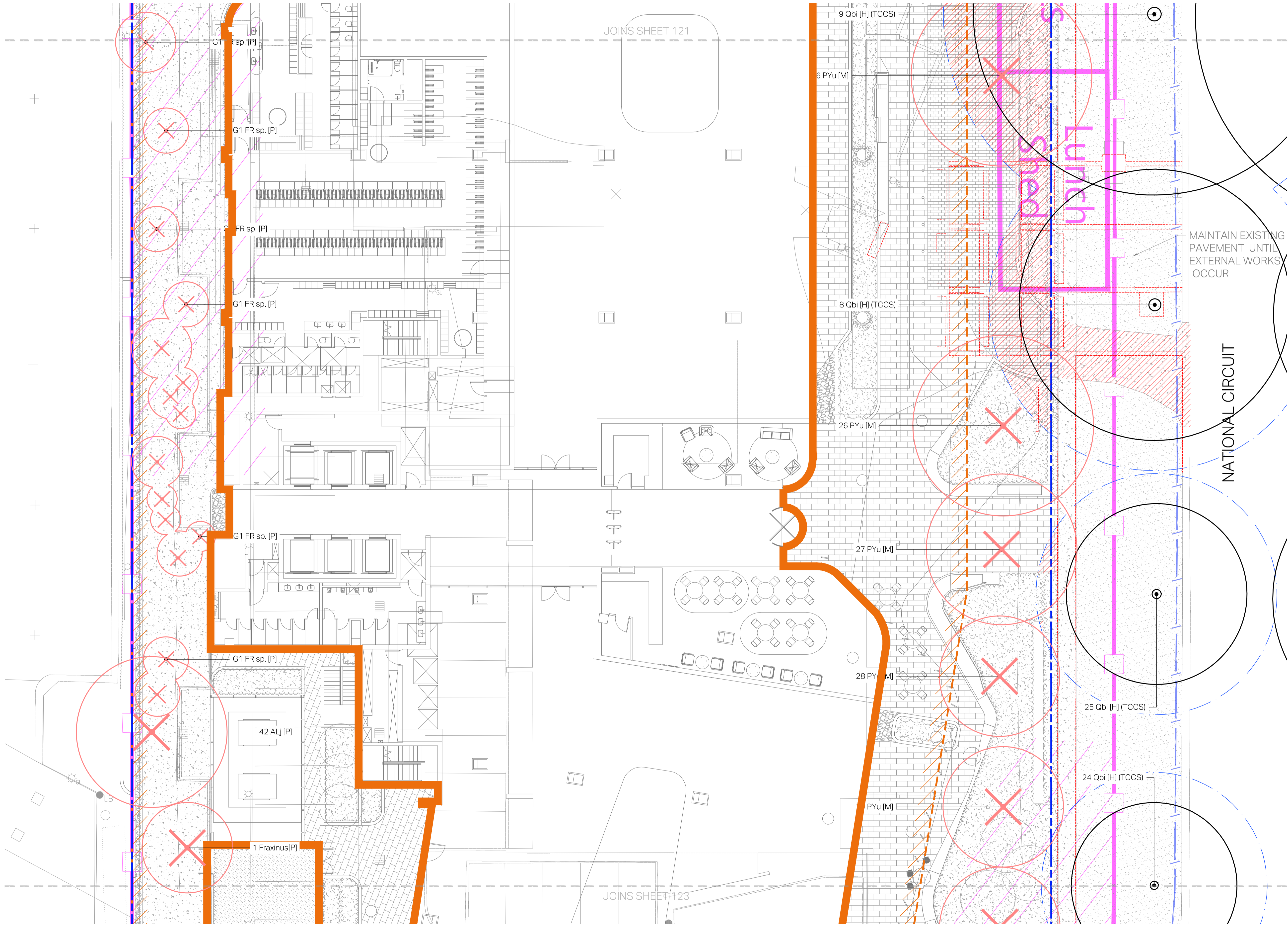
Roots exposed during excavation must be protected from desiccation. Keep lightly watered or cover with hessian, which must be kept moist.

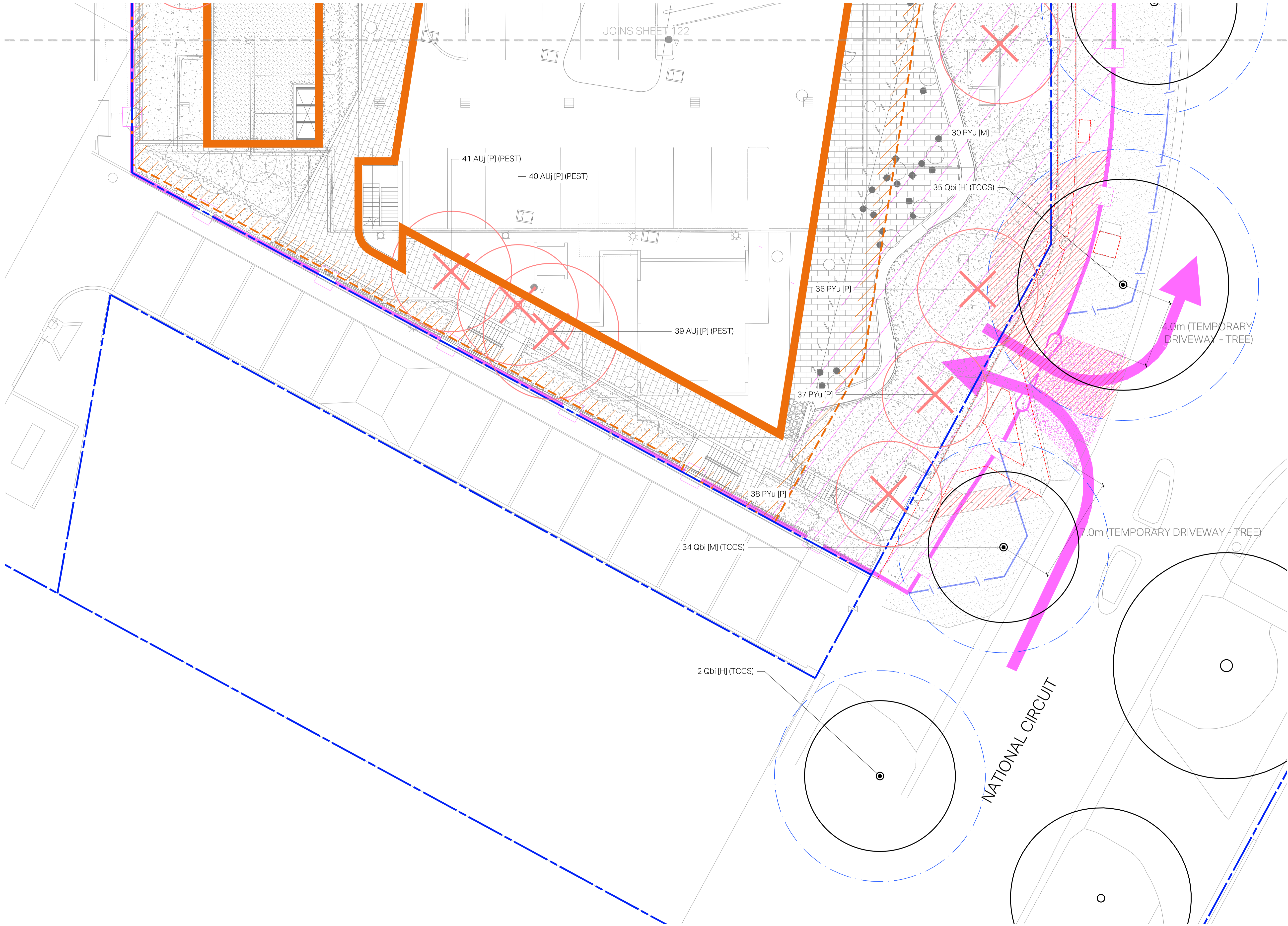
Water trees that have had disturbance in their root zone. The amount and frequency of water needs to be adapted to the trees' requirement, based on seasonal conditions.

4. TEMPORARY TRAFFIC MANAGEMENT (TTM)

TTM Plan must align with the Landscape Management and Protection Plan showing consistent and accurate details.







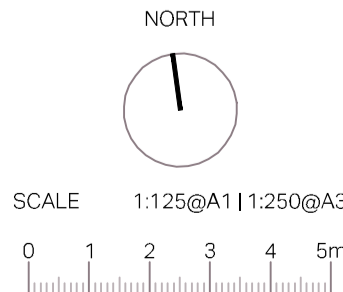
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inbox@redboxdesigngroup.com.au
Unit 12/285 Canberra Avenue Fyshwick ACT
PO Box 4574 Kingston ACT 2604
redboxdesigngroup.com.au

CONSULTANTS
ARCHITECT: NETTLETON TRIBE
ENGINEER: NOTRHOP
PLANNER:



REV	ISSUE
D	FOR WORKS APPROVAL
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A	PRELIMINARY

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31.07.20	LD	DM
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29.11.19	LD	DM




PROJECT
19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

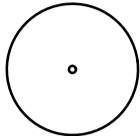
REFER SHEET 120
FOR LEGEND AND NOTES


PROJECT No.	SHEET	ISSUE
1574	123	D


LANDSCAPE MANAGEMENT PLAN
Sheet 3


LEGEND


 BLOCK BOUNDARY


 EXISTING TREE - ON-SITE
To be retained


 EXISTING TREE - ON-SITE
To be removed


 EXISTING TREE - OFF-SITE
To be retained - refer LMP

 EXISTING TREE - OFF-SITE
To be removed - refer LMP


 TREE PROTECTION ZONE (OF REGULATED AND
TCCS TREES SUBJECT TO DA WORKS)
Canopy plus 2m


 GROUND FLOOR BUILDING
Refer architects documents


 EXTENT OF BASEMENT
Refer architects documents


 TREE IMPACTS
+/- 100mm


SITE FENCING + OPERATIONS
REFER CONSTRUCTION + TRAFFIC MANAGEMENT PLANS

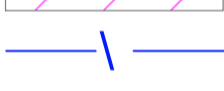
 SITE FENCE


 TRAFFIC BARRIER

 SITE ACCESS / GATE

 TEMPORARY DRIVE WAY

 SITE AMENITIES

 LAY DOWN AREA

 SUPPLEMENTARY TREE PROTECTION FENCING
CHAIN LINK MESH PANELS 1800 HIGH FOR DURATION OF
SITE CONSTRUCTION WORKS

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2 Pyu [M]	TREE QUALITY RATING

SUPPLEMENTARY NOTES

(TCCS)	TREE ON UN-LEASED TERRITORY LAND
(REGU)	REGULATED TREE

(PEST)	PEST SPECIES
(DEAD)	DEAD

TREE ASSESSMENT SPECIES LIST

CODE	SPECIES	COMMON NAME
AUj	<i>Alnus jorullensis</i>	Evergreen Aldar
AU sp.	<i>Alnus</i> Species	Aldar Species
FR sp.	<i>Fraxinus</i> Speices	Ash Speices
PYu	<i>Pyrus ussuriensis</i>	Manchurian Pear
Qpa	<i>Quercus palustris</i>	Pin Oak
Qbi	<i>Quercus bicolor</i>	Swamp White Oak

TREE PROTECTION NOTES

FENCING

Maintain temporary protective fences erected in accordance with the approved drawing. Fencing must be erected before the commencement of any site works and removed at completion of all construction and commencement of verge restoration. The fence is to remain in place throughout the duration of the project.

Use of temporary 1800 mm tall continuous mesh fence supported by steel posts with concrete bases is mandatory. Variation from this requirement must be accompanied by written agreement from the Project Arborist.

All construction activity including stockpiling of materials, vehicle access and parking must be excluded from the fenced area. Ensure that site access points are outside all the protection zones.

WORKING INSIDE THE TREE PROTECTION ZONE

Work inside the tree protection zone shall be conducted according to this drawing and the following controls:

ROOT PROTECTION

Excavation that occurs within the drip zone of a tree shall be restricted to one side of the tree only and shall have prior approval from the Project Arborist. Where excavation is approved, the following measures are to be adopted for tree protection:

Do not sever large roots (>30 mm diameter) closer than halfway from the drip-line to the trunk.

Locate these roots by hand trenching to a depth of 300 mm before any mechanical trenching is undertaken.

Cut roots cleanly with equipment specifically designed for this purpose or by suitable pruning equipment.

Protect exposed roots from desiccation by lightly watering or covering with hessian which must be kept moist, and

Maintain the good health of the trees that have had disturbance in their roots zone by continual watering. At no time shall the disturbed area be allowed to dry out to the detriment of the trees health.

ROOT DAMAGING ACTIVITIES

Techniques to minimise damage to roots within the tree root zone will include hand excavation, under boring or hydro excavation to expose the roots. The use of these techniques within the tree root zone is mandatory. Where roots are required to be cut as part of this process they are to be cut cleanly with equipment specifically designed to cut roots cleanly or other suitable pruning equipment, and root cutting will be carried out by a suitably qualified arborist /experienced horticulturist /urban forester:

If any trench/hole is not going to be back-filled within 24 hours, keep the roots lightly watered, cover with hessian and keep hessian moist; and

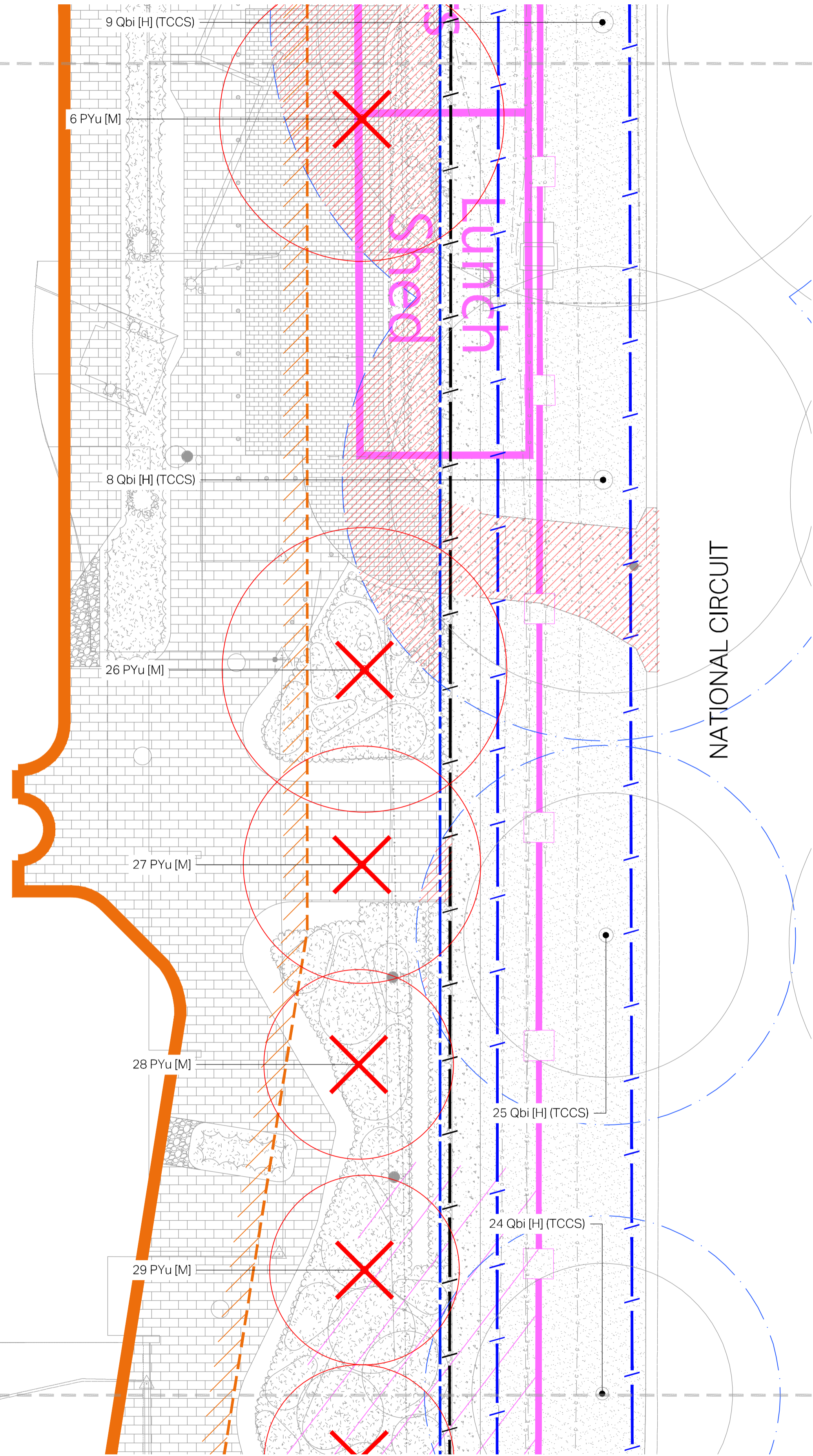
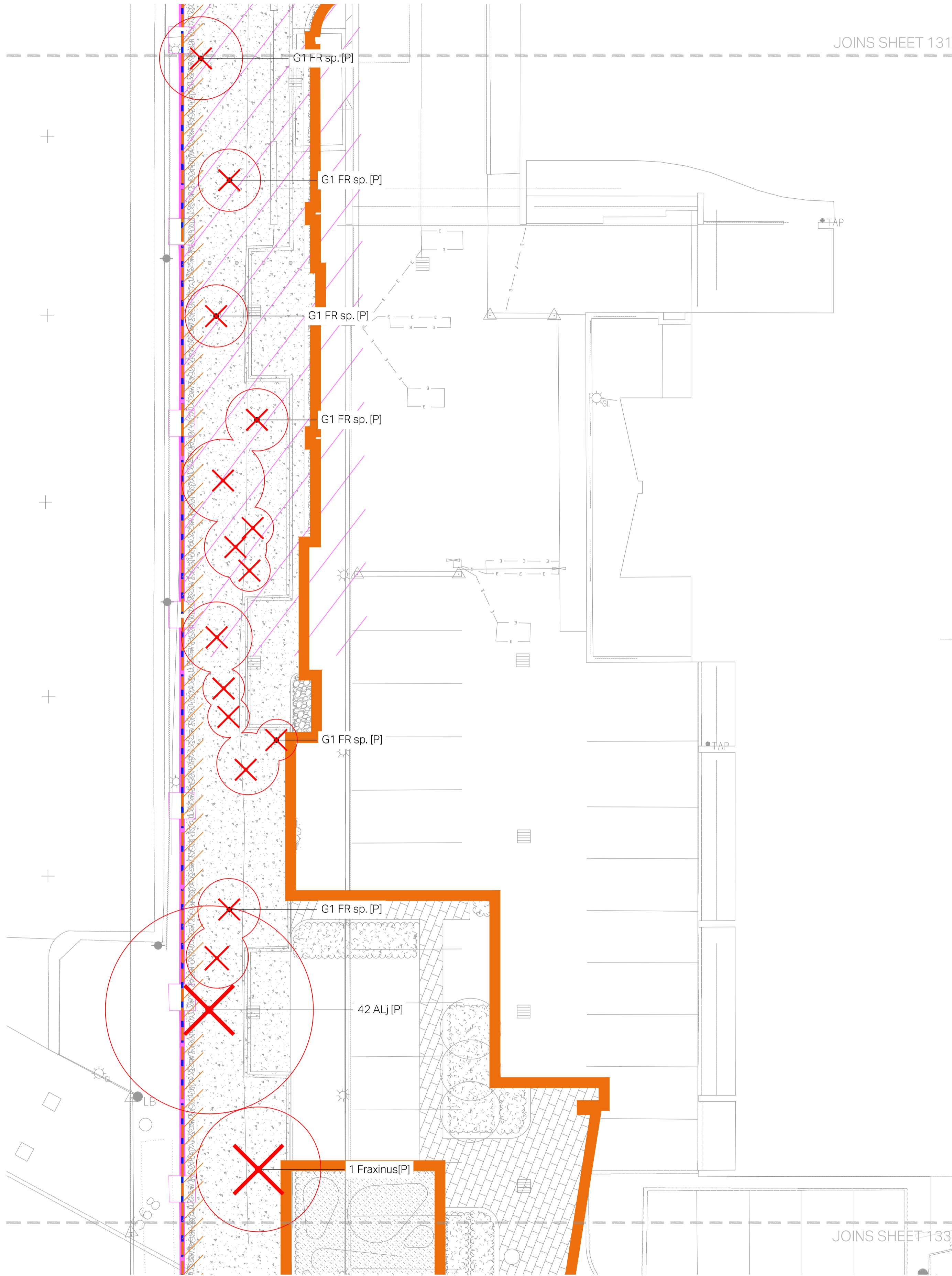
Where hydro excavation methods are used, water pressure must be limited so that bark surrounding roots and roots greater than 30 mm diameter are not damaged.

BRANCH PROTECTION

On the advice of the project arborist and with written approval from Lessee of the block on which any tree is located, remove any branches that are impeding access, and trunk wrap those that are likely to be damaged during works as per Figure 4, AS 4970, or similar;

EXCAVATION WITHIN THE TPZ

Excavation for walls, services and any other enabling works shall be carried out strictly by hydro-excavation using minimal pressure with no over-excavation towards the tree side of the wall. All exposed roots are to be cleanly cut by a qualified arborist and root pruning is to be inspected by the consulting arborist before the footings are put in place. Contractor shall organise for Arborist to be present at time of basement excavation to monitor tree root presence & management.



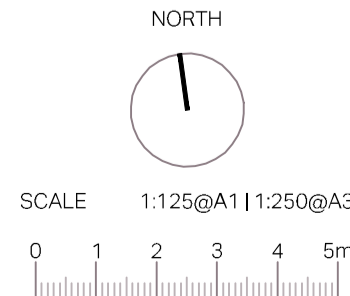
LANDSCAPE ARCHITECT
redbox design group
02 6280 4949 (tel)
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Unit 12/285 Canberra Avenue Fyshwick ACT
PO Box 4574 Kingston ACT 2604
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CONSULTANTS
ARCHITECT: NETTLETON TRIBE
ENGINEER: NOTRHOP
PLANNER: CANBERRA TOWN PLANNING



D	FOR WORKS APPROVAL
C	WORKS APPROVAL
B	DRAFT WORKS APPROVAL
A	FOR INFORMATION
REV	ISSUE

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28.01.20	LD	DM
11.12.19	LD	DM
20.11.19	LD	DM
DATE	DRN	CHK



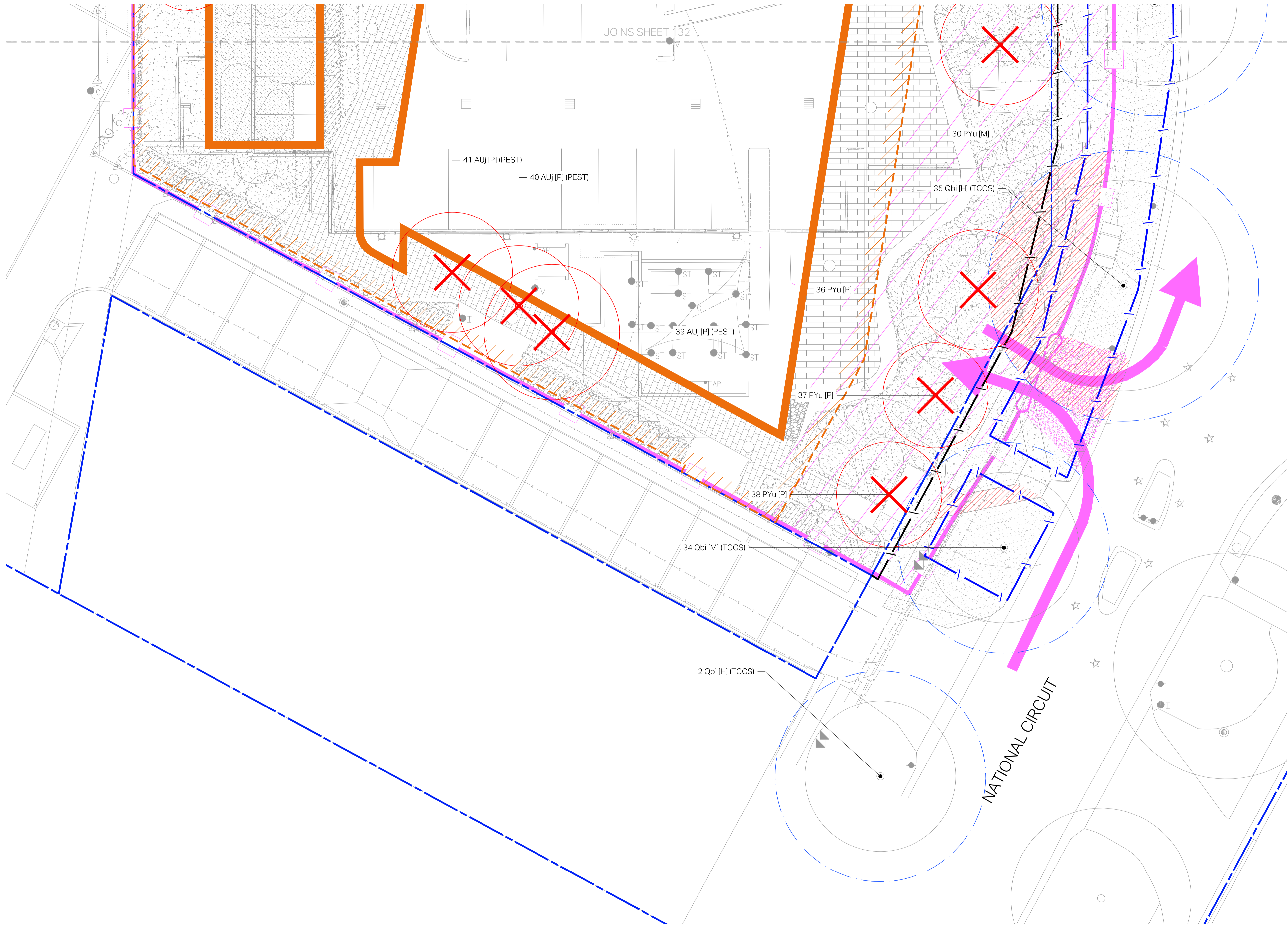
PROJECT

19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

REFER SHEET 130
FOR LEGEND AND NOTES

PROJECT No.	SHEET	ISSUE
1574	132	D

TREE MANAGEMENT PLAN
Sheet 2



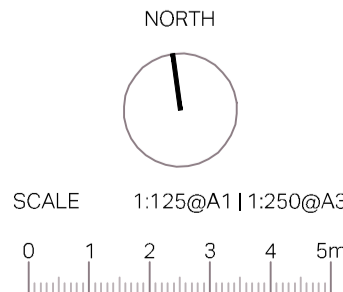
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PROJECT

19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

REFER SHEET 130
FOR LEGEND AND NOTES

PROJECT No.	SHEET	ISSUE
1574	133	D

TREE MANAGEMENT PLAN
Sheet 3



- NOTES**
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 3. Read Drawings in conjunction with relevant specifications, contracts and statutory approval conditions
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 5. Provide samples of all nominated materials for approval
 6. Confirm supplier information for all nominated plant material
 7. Disturbance and damage to retained features to be rectified to at least pre-work conditions
 8. Figured dimensions take precedence to scaled measurements
 9. Drawings to be used only for stated project and issue status

- KEY**
- ASP Asphalt
 - BRI Brick, red
 - CON1 Concrete, warm oxide + soda blast
 - CON2 Concrete broom finish
 - GAR Garden planting, irrigated
 - GRA Decomposed granite gravel
 - MUL1 Pine bark mulch
 - MUL2 Rock pebble mulch
 - POR1 Porphyry stone, grey + feature oxidised
 - POR2 Porphyry stone, grey
 - SEA Seating, precast concrete + timber
 - SCR Screen, timber
 - TUR Irrigated turf
 - BER Flood protection berm

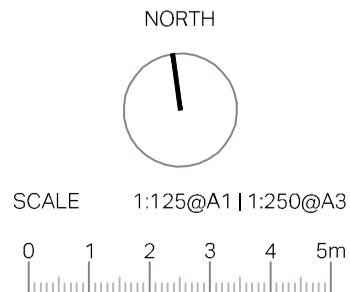
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PLANNER: CANBERRA TOWN PLANNERS

CLIENT
 **CROMWELL**
PROPERTY GROUP

REV	ISSUE
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PROJECT
19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

PROJECT No. **1574** SHEET **301** ISSUE **D**
LANDSCAPE PLAN
Sheet 1



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 - BOL Bollard / bike rack, 'Sammy'
 - BRI Brick, red
 - CON1 Concrete, warm oxide + soda blast
 - CON2 Concrete broom finish
 - GAR Garden planting, irrigated
 - GRA Decomposed granite gravel
 - MUL1 Pine bark mulch
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 - SCR Screen, timber
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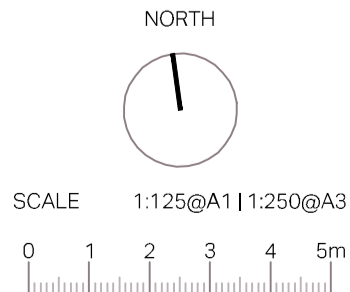
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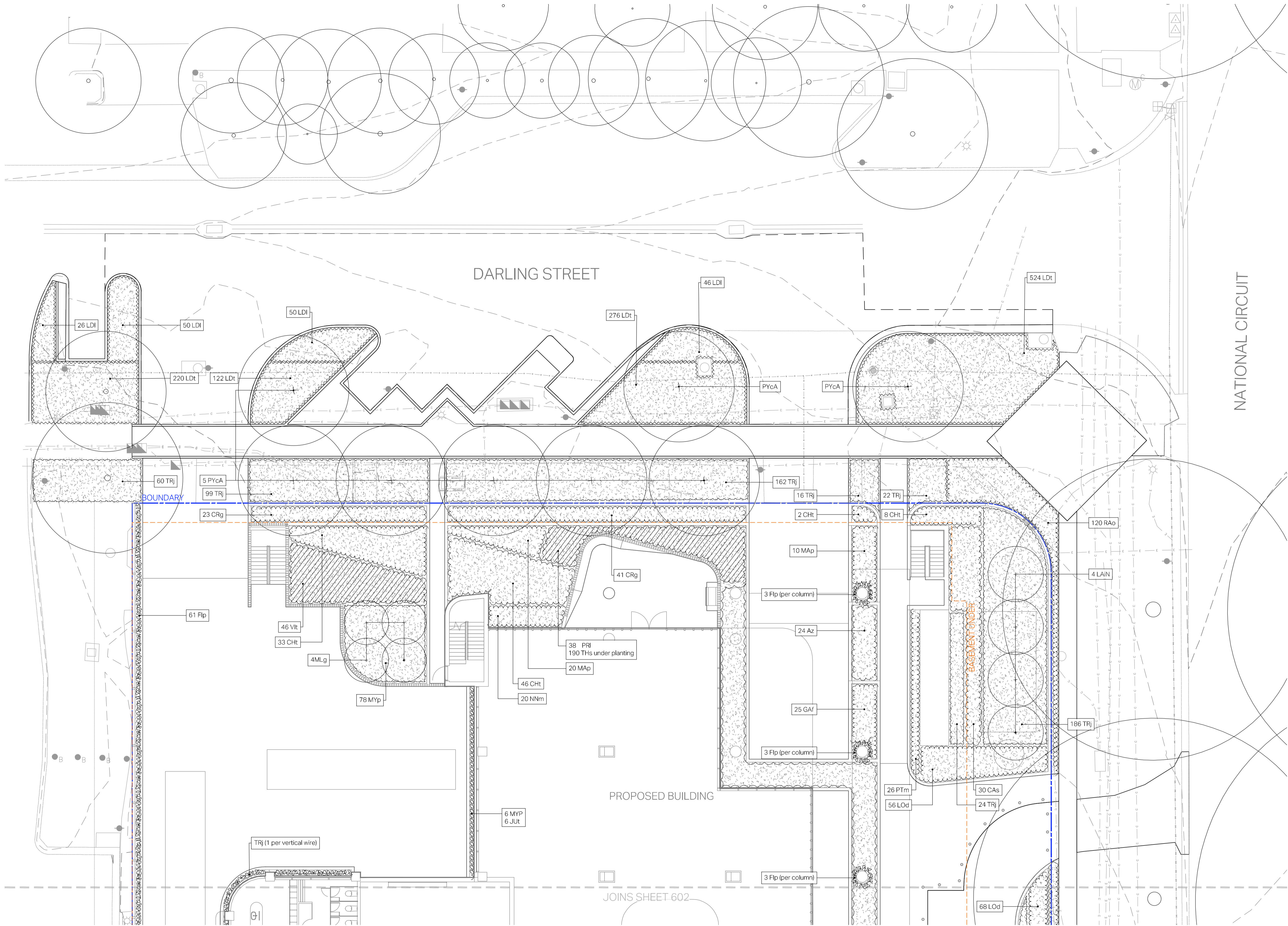
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C	31.07.20	FOR WORKS APPROVAL	LD	DM
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REV		ISSUE		

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PROJECT
19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

PROJECT No.	SHEET	ISSUE
1574	303	D
LANDSCAPE PLAN Sheet 3		



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PLANT SCHEDULE CODE	SPACING
DECIDUOUS TREES (Supply size 300L container, 3.5m high, 60mm caliper)	
GLT <i>Gleditsia tricanthos</i> 'Shademaster'	as shown
LAIN <i>Lagerstroemia indica</i> 'Natchez'	as shown
PYcA <i>Pyrus calleryana</i> 'Aristocrat'	as shown

EVERGREEN TREES (Supply size 500mm pot & 1.8m high)	
Mlg <i>Magnolia grandiflora</i> 'Teddy Bear'	as shown

HIGH SHRUBS + HEDGING (Supply size 300mm pot)	
BTBW <i>Bambusa textilis</i> var. <i>gracilis</i> (slender weavers bamboo)	0.5m c/c
CAs <i>Camelia sasanqua</i> (white)	0.7m c/c
MAP <i>Magnolia (Michelia)</i> 'Scented Pearl'	0.7m c/c
PRI <i>Prunus laurocerasus</i>	0.7m c/c
Vlt <i>Viburnum tinus</i>	0.7m c/c

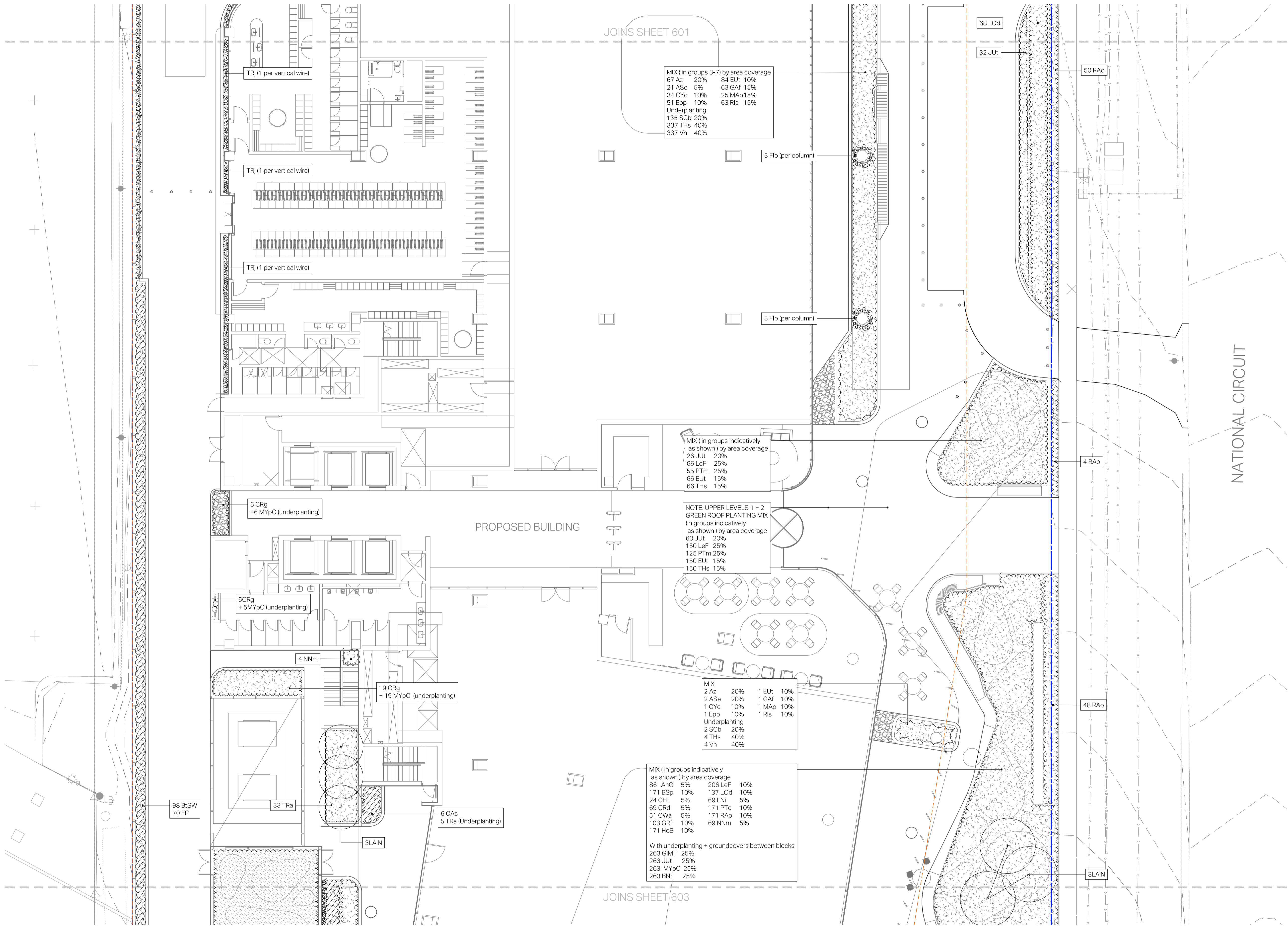
LOW COVER + MEDIUM SHRUBS (Supply size 200mm pot)	
AHG <i>Acacia howittii</i> 'Green Wave'	4/m ²
AZ <i>Azalea</i> (sun-tolerant white)	4/m ²
BSp <i>Banksia spinulosa</i> 'Honey Pots'	5/m ²
CLJ <i>Callistemon</i> 'Little John'	4/m ²
CRg <i>Correa glabra</i>	3/m ²
Cwa <i>Callistemon</i> 'White Anzac'	3/m ²
CHt <i>Choisya ternata</i>	2/m ²
CRd <i>Correa decumbens</i>	4/m ²
Epp <i>Escallonia</i> 'Pink Pixie'	6/m ²
Eut <i>Euonymus</i> 'Tom Thumb'	10/m ²
GAf <i>Gardenia</i> 'Florida'	5/m ²
GRf <i>Grevillea</i> 'Fireworks'	3/m ²
HeB <i>Hebe buxifolia</i>	5/m ²
LeF <i>Leptospermum</i> 'Foreshore'	6/m ²
LOd <i>Loropetalum chinense</i> (Dwarf White)	4/m ²
LNI <i>Lonicera nitida</i>	4/m ²
NNm <i>Nandina</i> 'Moon Bay'	4/m ²
PTc <i>Philotheca</i> 'Cascade Of Stars'	5/m ²
PTm <i>Pittosporum</i> 'Miss Muffet'	5/m ²
RAo <i>Raphiolepis</i> 'Oriental Pearl'	5/m ²
Rls <i>Raphiolepis</i> 'Snow Maiden'	5/m ²

CASCADING PLANTS + GROUND COVER (Supply size 200mm pot)	
GMT <i>Grevillea lanigera</i> 'Mt Tamboritha'	3/m ²
JUt <i>Juniperus taxifolia</i> 'Lutchensis'	3/m ²
MYpC <i>Myoporum parvifolium</i> 'Choppy Seas'	3/m ²
THs <i>Thymus serpyllum</i> 'Albus'	10/m ²
TRa <i>Trachelospermum asiaticum</i> 'Flat Mat'	3/m ²
TRJ <i>Trachelospermum jasminoides</i>	3/m ²
Vh <i>Viola hederacea</i>	10/m ²

CLIMBERS (Supply size 140mm pot)	
Flp <i>Ficus pumila</i>	0.7m c/c

GRASSY PLANTS (Supply size 140mm pot)	
LDt <i>Lomandra</i> 'Tanika'	8/m ²
LDI <i>Lomandra longifolia</i>	5/m ²

SHADE TOLERANT ACCENT PLANTS (Supply size 200mm pot)	
ASe <i>Aspidistra elatior</i>	5/m ²
CYc <i>Cycas revoluta</i>	4/m ²
SCb <i>Scleranthus biflorus</i> 'Lime Lava'	8/m ²



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LAIN <i>Lagerstroemia indica</i> 'Natchez'	as shown
PyCA <i>Pyrus calleryana</i> 'Aristocrat'	as shown

EVERGREEN TREES (Supply size 500mm pot & 1.8m high)	
Mlg <i>Magnolia grandiflora</i> 'Teddy Bear'	as shown

HIGH SHRUBS + HEDGING (Supply size 300mm pot)	
BtSW <i>Bambusa textilis</i> var. <i>gracilis</i> (slender weavers bamboo)	0.5m c/c
CAs <i>Camelia sasanqua</i> (white)	0.7m c/c
MAP <i>Magnolia (Michelia)</i> 'Scented Pearl'	0.7m c/c
PRI <i>Prunus laurocerasus</i>	0.7m c/c
Vlt <i>Viburnum tinus</i>	0.7m c/c

LOW COVER + MEDIUM SHRUBS (Supply size 200mm pot)	
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CLJ <i>Callistemon</i> 'Little John'	4/m ²
CRg <i>Correa glabra</i>	3/m ²
Cwa <i>Callistemon</i> 'White Anzac'	3/m ²
CHt <i>Choisya ternata</i>	2/m ²
CRd <i>Correa decumbens</i>	4/m ²
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GAF <i>Gardenia</i> 'Florida'	5/m ²
GRf <i>Grevillea</i> 'Fireworks'	3/m ²
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NNm <i>Nandina</i> 'Moon Bay'	4/m ²
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CLIMBERS (Supply size 140mm pot)	
Flp <i>Ficus pumila</i>	0.7m c/c

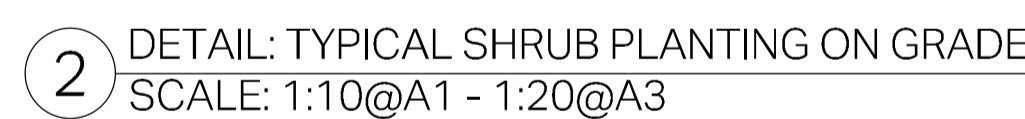
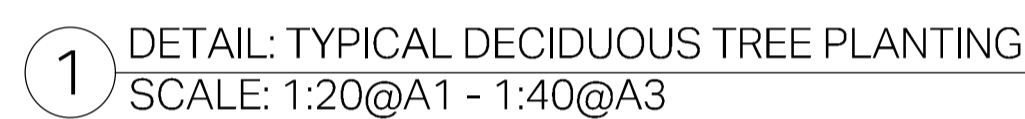
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CLIMBERS (Supply size 140mm pot.)	
Flp <i>Ficus pumila</i>	0.7m c/c
GRASSY PLANTS (Supply size 140mm pot.)	
LDt <i>Lomandra</i> 'Tanika'	8/m ²
LDI <i>Lomandra longifolia</i>	5/m ²
SHADE TOLERANT ACCENT PLANTS (Supply size 200mm pot.)	
ASe <i>Aspidistra elatior</i>	5/m ²
CYc <i>Cycas revoluta</i>	4/m ²
SCb <i>Scleranthus biflorus</i> 'Lime Lava'	8/m ²





CON1 Concrete, warm oxide + soda blast



CON2 Concrete broom finish



POR1 Porphyry stone, grey + feature oxidised



POR2 Porphyry stone, grey



BRI Brick, red



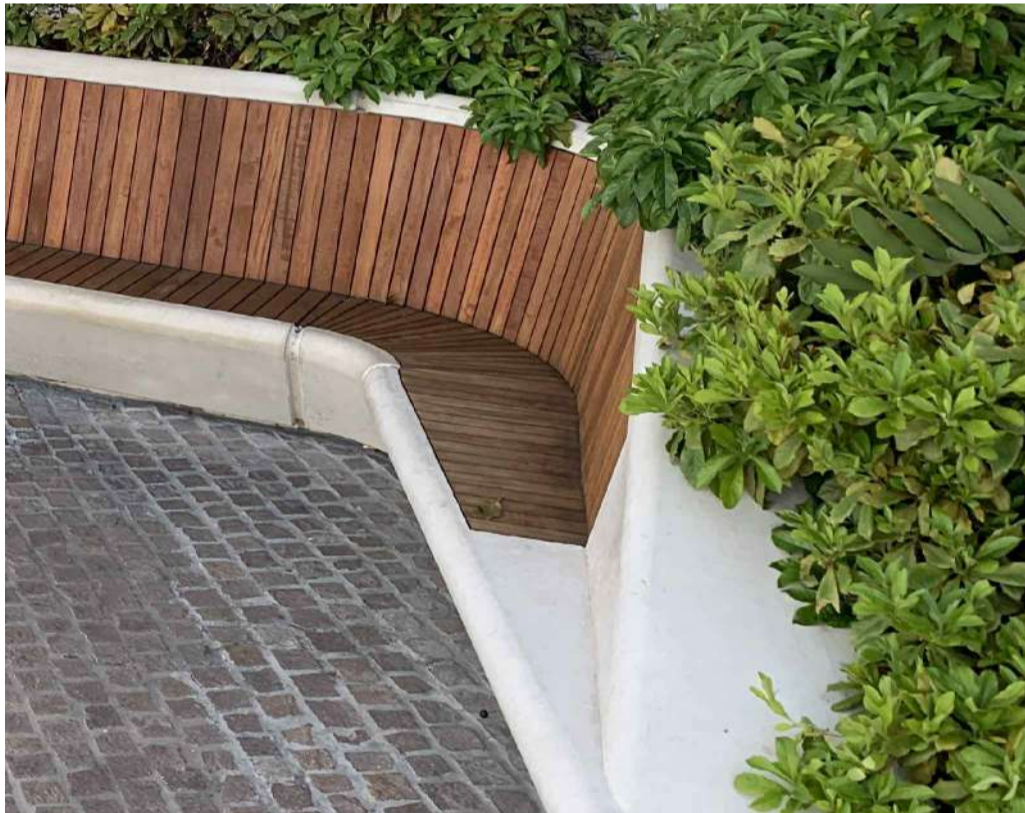
GRA Decomposed granite gravel



ASP Asphalt



BOL Bollard / bike rack, 'Sammy'



SEA Seating, precast concrete + timber



SCR Screen, timber



GAR Garden planting, irrigated



MUL1 Pine bark mulch



MUL2 Rock pebble mulch



TUR Irrigated turf

TREES



GLT Gleditsia tricanthos 'Shademaster'



LAIN Lagerstroemia indica 'Natchez'



Mlg Magnolia grandiflora 'Teddy Bear'



PYcA Pyrus calleryana 'Aristocrat'

HIGH SHRUBS + HEDGING



CAS Camellia sasanqua (white)



MAP Magnolia (Michelia) 'Scented Pearl'



PRJ Prunus laurocerasus



Vit Viburnum tinus

LOW COVER + MEDIUM SHRUBS



AhG Acacia howittii 'Green Wave'



AZ Azalea (sun-tolerant white)



BSp Banksia spinulosa 'Honey Pots'



CLJ Callistemon 'Little John'



CRg Correa glabra



Cwa Callistemon 'White Anzac'



CHt Choisya ternata



CRd Correa decumbens



Epp Escallonia 'Pink Pixie'



ELut Euonymus 'Tom Thumb'



GAF Gardenia 'Florida'



GRF Grevillea 'Fireworks'



HeB Hebe buxifolia



LeF Leptospermum 'Foreshore'



LOd Loropetalum chinense (Dwarf White)



LNi Lonicera nitida



NNm Nandina 'Moon Bay'



PTc Philotheca 'Cascade Of Stars'



PTm Pittosporum 'Miss Muffet'



RAo Raphiolepis 'Oriental Pearl'



RIs Raphiolepis 'Snow Maiden'

CASCADING PLANTS + GROUND COVER



GMT Grevillea lanigera 'Mt Tamboritha'



JUt Juniperus taxifolia 'Lutchuensis'



MYpC Myoporum 'Choppy Seas'



THs Thymus serpyllum 'Albus'



TRa Trachelospermum asiaticum 'Flat Mat'



TRj Trachelospermum jasminoides



Vh Viola hederacea

GRASSY PLANTS



LDt Lomandra 'Tanika'



LDI Lomandra longifolia

SHADE TOLERANT MEDIUM SHRUBS +
ACCENT PLANTS



ASe Aspidistra elatior



CYc Cycas revoluta



SCb Scleranthus biflorus 'Lime Lava'

SPREADING CLIMBERS



Flp Ficus pumila

LANDSCAPE ARCHITECT

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PLANNER:

NETTLETON TRIBE

NOTRHOP

CANBERRA TOWN PLANNERS

CLIENT



D	FOR WORKS APPROVAL	31.07.20	LD	DM
C	WORKS APPROVAL	28.01.20	LD	DM
B	DRAFT WORKS APPROVAL	11.12.19	LD	DM
A	PRELIMINARY	29.11.19	LD	DM
REV	ISSUE	DATE	DRN	CHK

31.07.20	LD	DM
28.01.20	LD	DM
11.12.19	LD	DM
29.11.19	LD	DM

NORTH

PROJECT

19 NATIONAL CIRCUIT
BLOCK 5 SECTION 22 BARTON

PROJECT No.

1574

SHEET

903

ISSUE

D

MATERIALS IMAGERY
Sheet 3 - Plant species