

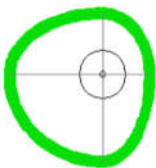
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## Re: Royal Canal Greenway Phase 3 Project Status of Trees

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Attached are two drawings which are listed below. The legend on the right hand side of each drawing has three different symbols each representing the status of the existing tree, each of these are illustrated and described below. To summarise there are 176 existing trees along the Project route, and of those trees, 45 are recommended for immediate removal or cutting down.

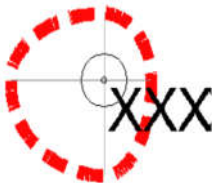
- Royal Canal Tree Impacts and Protection Plan WEST.pdf
- Royal Canal Tree Impacts and Protection Plan EAST.pdf



71 trees to be retained throughout the scheme



60 trees are intended for retention, and are subject to best practice work methods outlined above.



45 trees recommended for immediate removal due to ill health and as a result of the works

### Design and construction mitigations relating to trees

Considerable consideration has been given to existing trees along the route of the Royal Canal Greenway Phase 3, and in short the ground conditions are not natural alongside the Canal and Railway, and as such always renders the trees vulnerable. The Arborist's advice is that it is prudent to cut these trees down now to reduce negative impact on trees leading to their decline/death within a five or ten year period. To mitigate this several measures are put into place to minimise the loss of trees, these include;

- Reduction Greenway width from 4.5m width to 4.0m;
- Raise the level of the greenway, to reduce digging into root systems;
- Realign the greenway to minimise the impact on existing trees;
- Design bespoke kerbing to reduce digging which could sever the root systems;
- Reuse a number of existing public lighting poles, chambers and ducting to minimise excavations;
- Additional site investigation to give further clarity on the extent of tree root systems;
- Where possible, move other proposed ducting away from existing trees into areas confirmed to not have any existing tree roots and reconfigure ducting to minimise the associated space required;



- Appointment a competent arborist to carry out an assessment of the existing trees and their condition;
- Appointment a Landscape Architect to review designs and identify opportunities to mitigate against trees loss;
- A bespoke Tree Protection Plan setting out specific measures for tree protection based on the site specific, unique constraints of this project;
- Incorporation of strict and specific measures into the works specification requiring the contractor to:
  - Take all necessary steps to avoid any potential impact to the existing trees;
  - Appoint a suitably qualified arborist to supervise the works in the vicinity of existing trees and confirm their condition after the works are complete;
  - Carry out site investigation works in advance of construction to identify the exact extent of tree root systems.

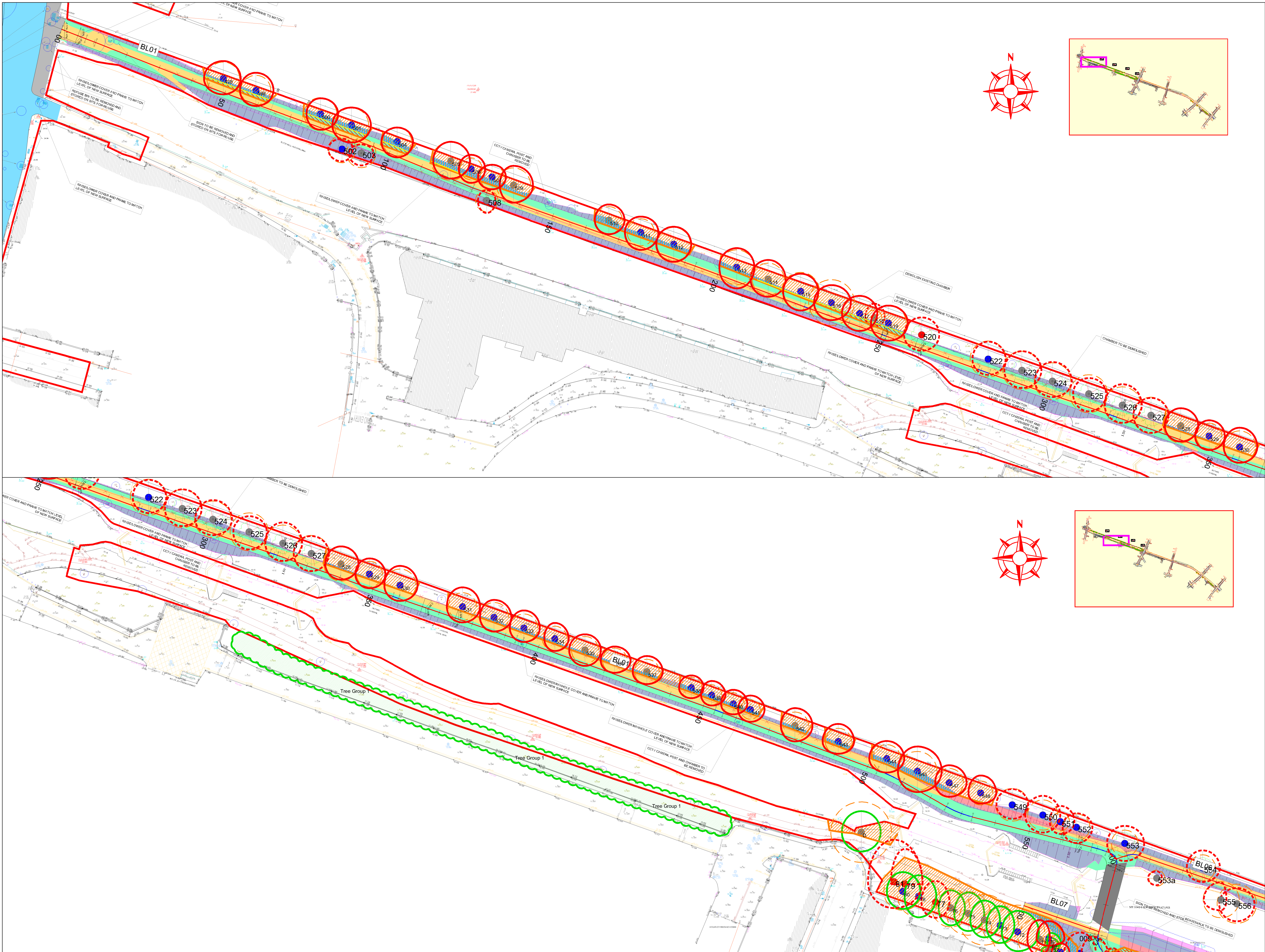
These measures will ensure that trees removed facilitate construction will be felled in a controlled manner, are to be replaced with a new tree of suitable maturity and species to the approval of DCC Parks & Landscaping Department. This will help to ensure the long term viability of both the retained and of any replanted trees. This also applies to existing trees which are deemed to require replacing due to their current poor condition irrespective of the Greenway project.

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**Project Resident Engineer,**  
**Active Travel Programme Office**

16<sup>th</sup> February 2023





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Graphic Representation of Tree and Protection Zone

Canopy Extent  
Cardinal Radii  
Category Code  
Stem Circumference

Root Protection Area (RPA)

Canopy is drawn to account for any natural asymmetry or imbalance. Crown Representation is scaled to account for north, east, west and south radii.

Root Protection Area (RPA)  
This area relates the "RPA" radius as defined in the Tree Survey Table and is measured from the tree centre.  
This area defines the preliminary Construction Exclusion Zone (CEZ) that must be protected by fencing from the potentially damaging affects of construction activity.

Tree Category Key

- Category "A" Trees (Green Button)
- Category "B" Trees (Blue Button)
- Category "C" Trees (Gray Button)
- Category "U" Trees (Red Button)

Tree Retention/Loss Key

- Trees Intended for Retention - Solid Green Crown Outline
- Trees Recommended for Immediate Removal As A Result Of Ill-Health and/or Defect and Trees Potentially Affected By Development Disturbance - Broken Red Crown Outline
- Some Trees Require Unavoidable Removal, Either Through Ill-Health Or Major Impacts From Works, Including Nos: 1, 3, 8, 10, 12, 30, 31, 35, 36, 45, 52, 55, 57, 60, 61, 62, 63, 34, 459, 486, 487, 488, 489, 490, 491, 492, 502, 503, 508, 520, 522, 523, 524, 525, 526, 527, 549, 550, 551, 552, 553, 555, 554, 555, 556.
- Other Trees Are Located Close To Works But Will Be Subject To Limited Disturbance And Risk Of Harm. Many Such Trees Are Intended For Retention And Will Be The Subject Of Controlled Work And Methodologies Intended To Limit Damage And Disturbance During The Construction Stage - Solid Red Crown Outline
- The Trees That Will Be Subject To Ongoing Review During The Works Period In Respect Of Ongoing Suitability For Retention Include Nos: 7, 9, 11, 17, 19, 26, 27, 32, 46, 47, 48, 49, 50, 51, 53, 54, 56, 58, 65, 70, 71, 498, 499, 500, 501, 504, 505, 506, 507, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 547, 548.

Tree Protection Key

- Location Of Primary Construction Exclusion Fencing (Located at Edge of Existing Path Surfaces)
- Area Of Primary Construction Exclusion Fencing (All Soft ground Beyond Existing Path Surfaces)
- Location Of Secondary Construction Exclusion Fencing Subsequent To Installation Of New Surfaces (Relocated to Allow Access or Newly Created Surfaces)
- Area of Extended Access, Subsequent to creation of New Path Surfaces.
- Areas of Soil Grading Works - Access Only Allowed From New Existing Surfaces - No Machinery Allowed To Drive in These Areas. Vehicle Wheelbase Must Remain On Neighbouring Pathway.

All Works Near Trees And The Provision Of Tree Protection Must Be Undertaken Under The Guidance Of The Project Arborist

Client: OCSC Consulting Engineers

Scale: 1:500 Date: February 2023

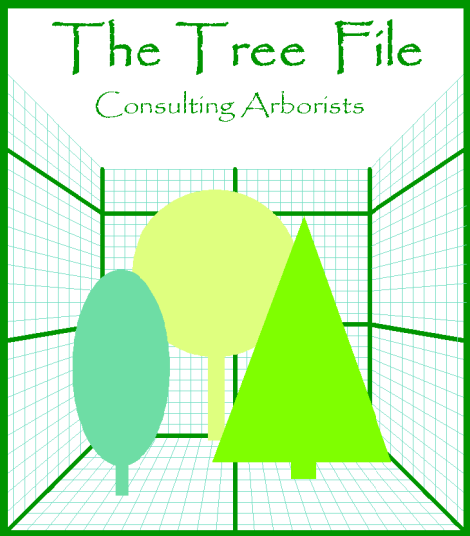
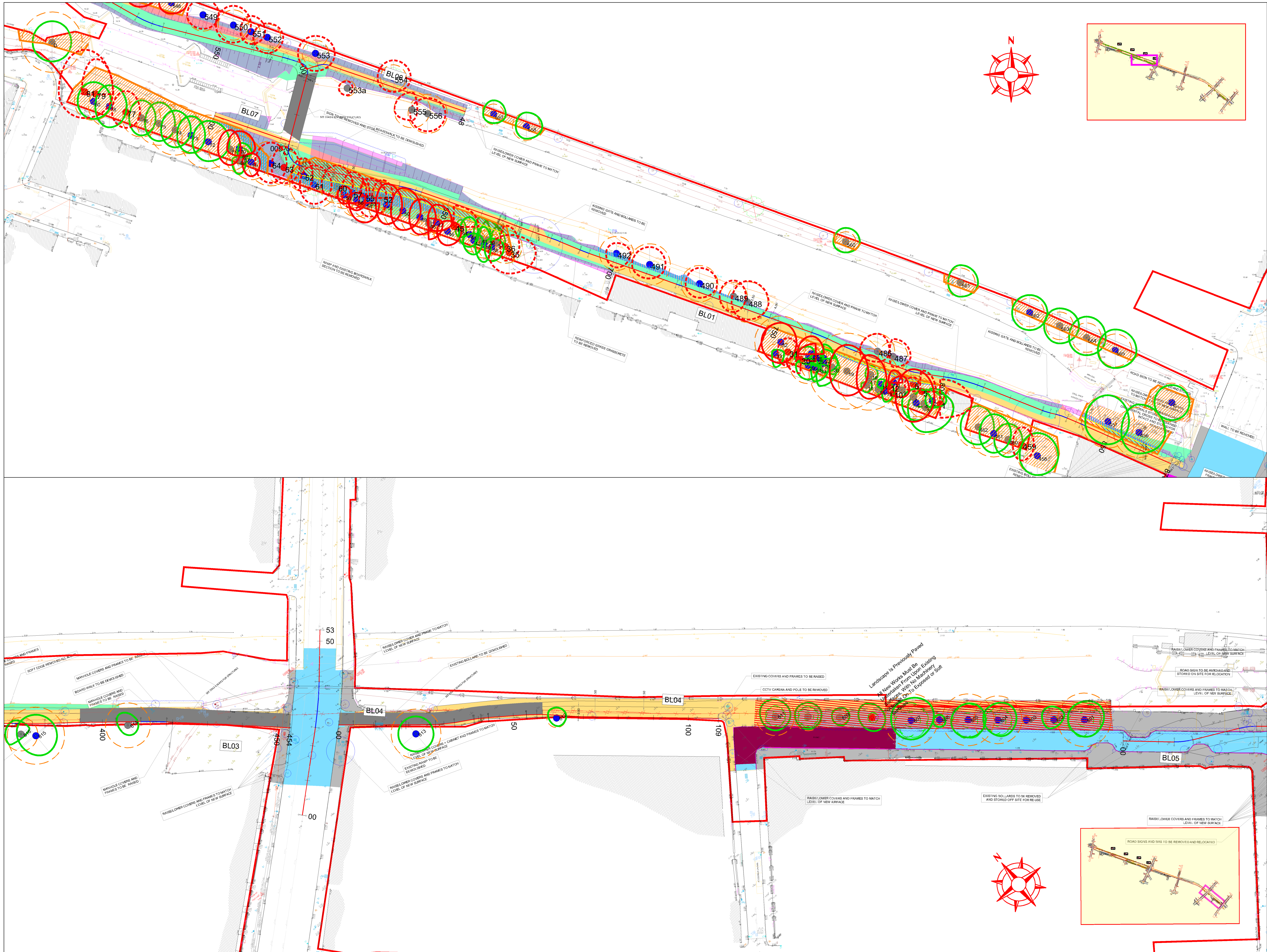
Project: Tree Survey, Royal Canal, Cross Guns to Birns Bridge

Description:

Drawing Title:

Royal Canal Tree Impacts and Protection Plan (West)





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Graphic Representation of Tree and Protection Zone

Canopy Extent  
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Category Code  
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Client: OCSC Consulting Engineers

Scale: 1:500 Date: February 2023

Project: Tree Survey, Royal Canal, Cross Guns to Binns Bridge

Description: Tree Impacts Plan (East)

Drawing Title:

Royal Canal Tree Impacts Plan (East)