



Stanhope Bridge and other tree updates

March 2022

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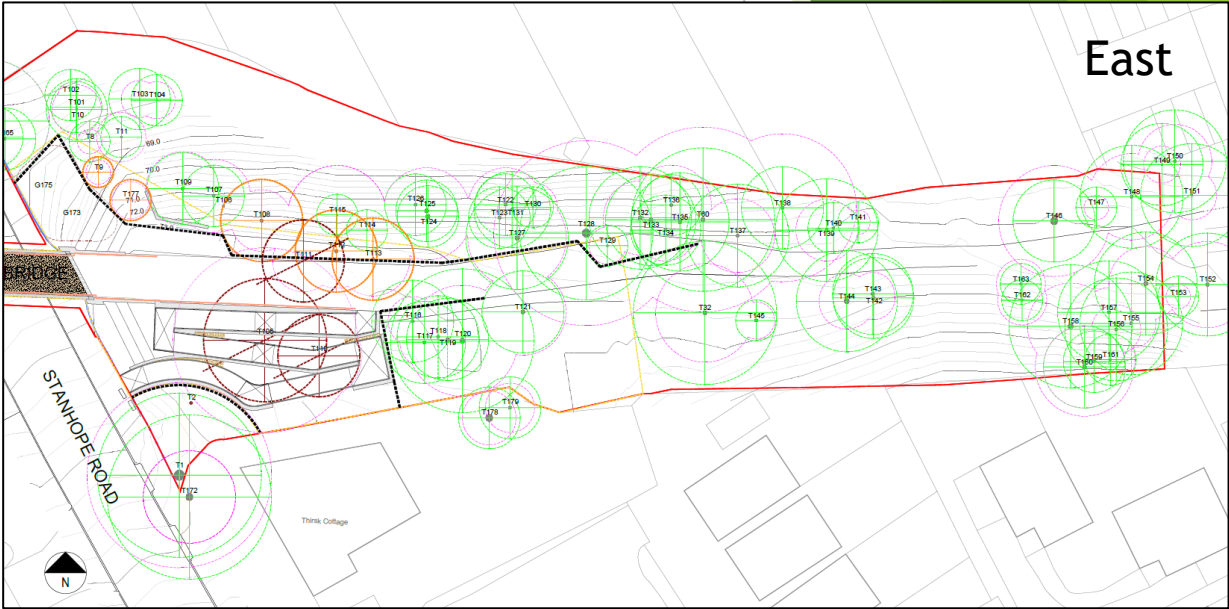
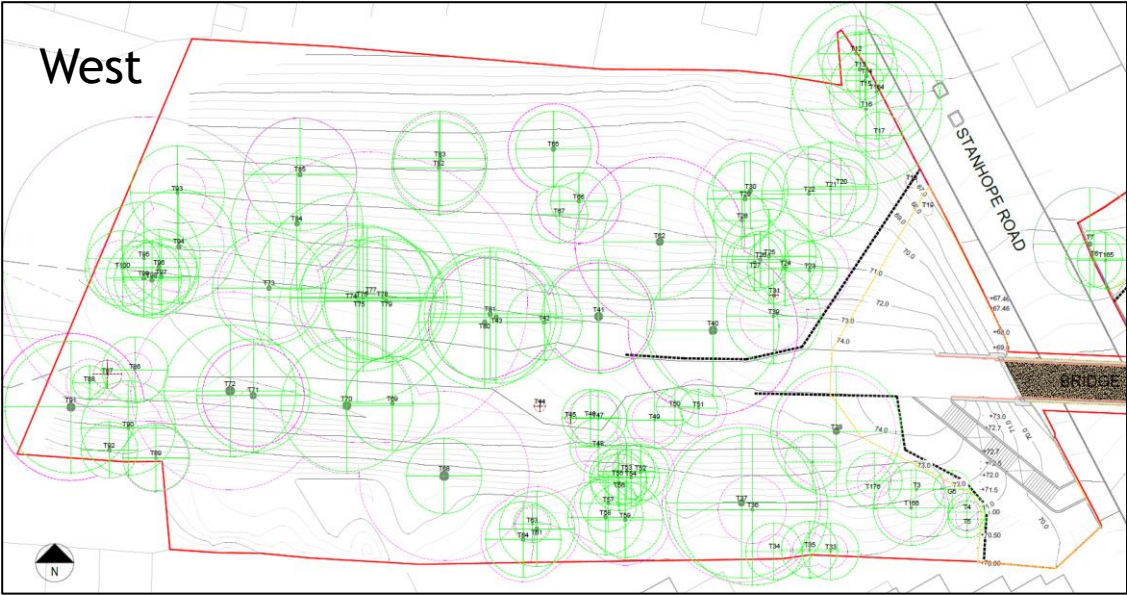
Background - Wider Parkland Walk

- ▶ Designated a Local Nature Reserve in 1990 and covers an area of just under 13ha in size (129,688m²)
- ▶ As a former railway line dating back to the late 1900's the Parkland walk is carried by or goes under 12 bridges.
- ▶ Islington Council are responsible for two bridges and the remaining ten fall to Haringey Council to be maintained.
- ▶ Of the ten bridges the Council is responsible for seven fall within the remit of the Parks and Leisure Service. The Parks and Leisure Service has embarked on an eight year project to renovate or renew the seven bridges, entrances and path surfacing along the walk.
- ▶ The Council has currently committed a budget of £11.6m with a further £2m expected to be required to complete the works beyond the current MTFS period.
- ▶ The seven bridges are:-
 - ▶ Upper Tollington Park bridge - Renovation Work Completed
 - ▶ Vicarage Path footbridge - Renovation Work Completed
 - ▶ Stanhope Road bridge - Design Work completed and planning permission agreed.
 - ▶ Stapleton Hall Road bridge - Ongoing monitoring and preliminary survey work.
 - ▶ Northwood Road bridge - Ongoing monitoring and preliminary survey work
 - ▶ Mount Pleasant Villas bridge - Ongoing monitoring and preliminary survey work
 - ▶ St James' Viaduct - Ongoing monitoring and preliminary survey work

Stanhope Bridge - Why are the works taking place

- ▶ Structural inspections identified sustained progressive failure of its abutments
- ▶ The bridge deck is currently propped to maintain sustainability
- ▶ Feasibility work identified that the structure was not economically viable to repair the bridge
- ▶ Therefore, a new structure or no bridge needed to be considered
- ▶ Consultation with 4000 residents and other stakeholders undertaken.
- ▶ 85% of respondents wanted to maintain the continuity of the walk with a new bridge.
- ▶ Those responded to the questionnaire where able to indicate priorities for the new design, important to residents were the issues of sustainable design and accessibility.
- ▶ The options for the bridge and the supporting structures were evaluated using criteria informed by community priorities including:-
 - ▶ design,
 - ▶ impact on the built conservation area
 - ▶ Impact on biodiversity
 - ▶ Impact on neighbouring properties
 - ▶ Durability and full life costs
 - ▶ Sustainability

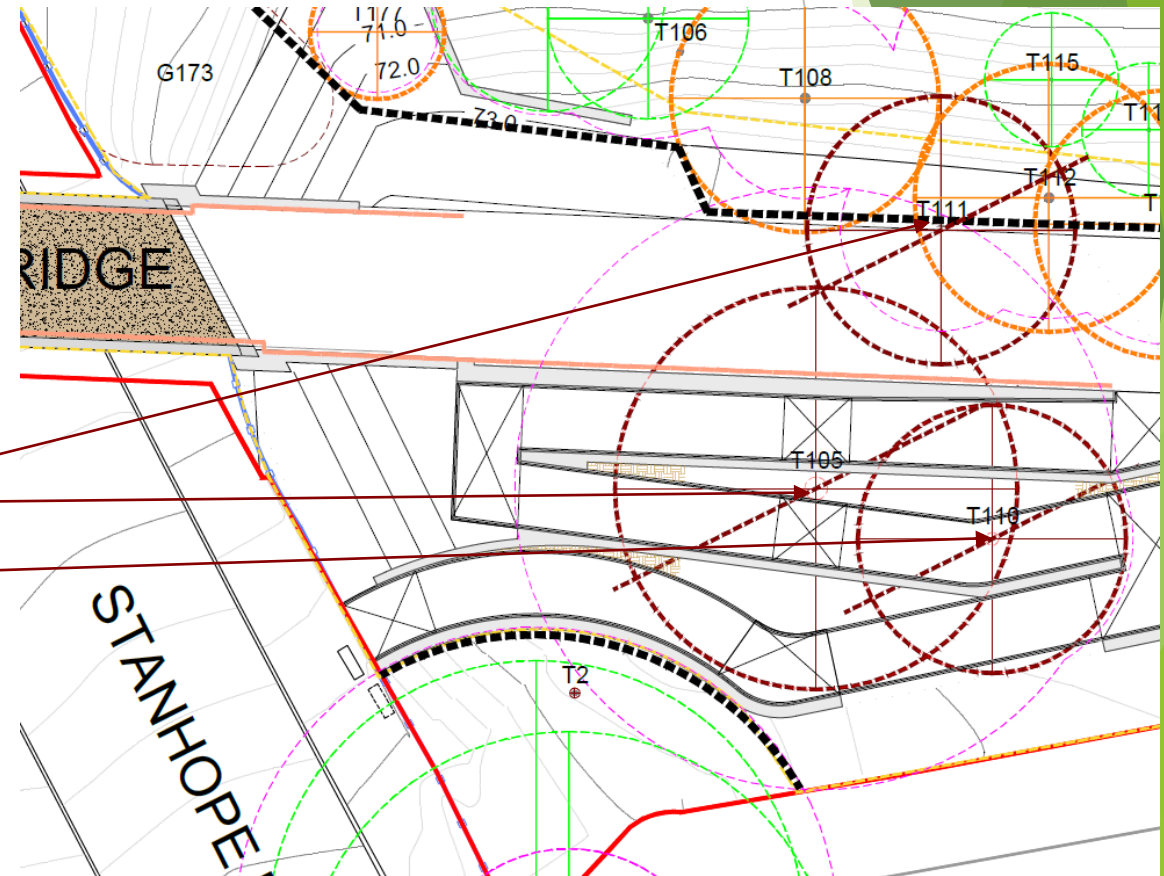
Stanhope Bridge Site Boundary



Totals	Removed / To be removed	Potentially at risk / to be protected
174 Individual trees	Total 5 trees to be removed:- <ul style="list-style-type: none">2 already removed - B class trees3 trees due to be removed<ul style="list-style-type: none">1 - B class tree,2 - C class trees	5 - C class trees
2 groups of trees	1.5 groups	0.5 group - C class trees
1 hedge	0	1 hedge

Stanhope Bridge - Why are the trees being felled to facilitate the works?

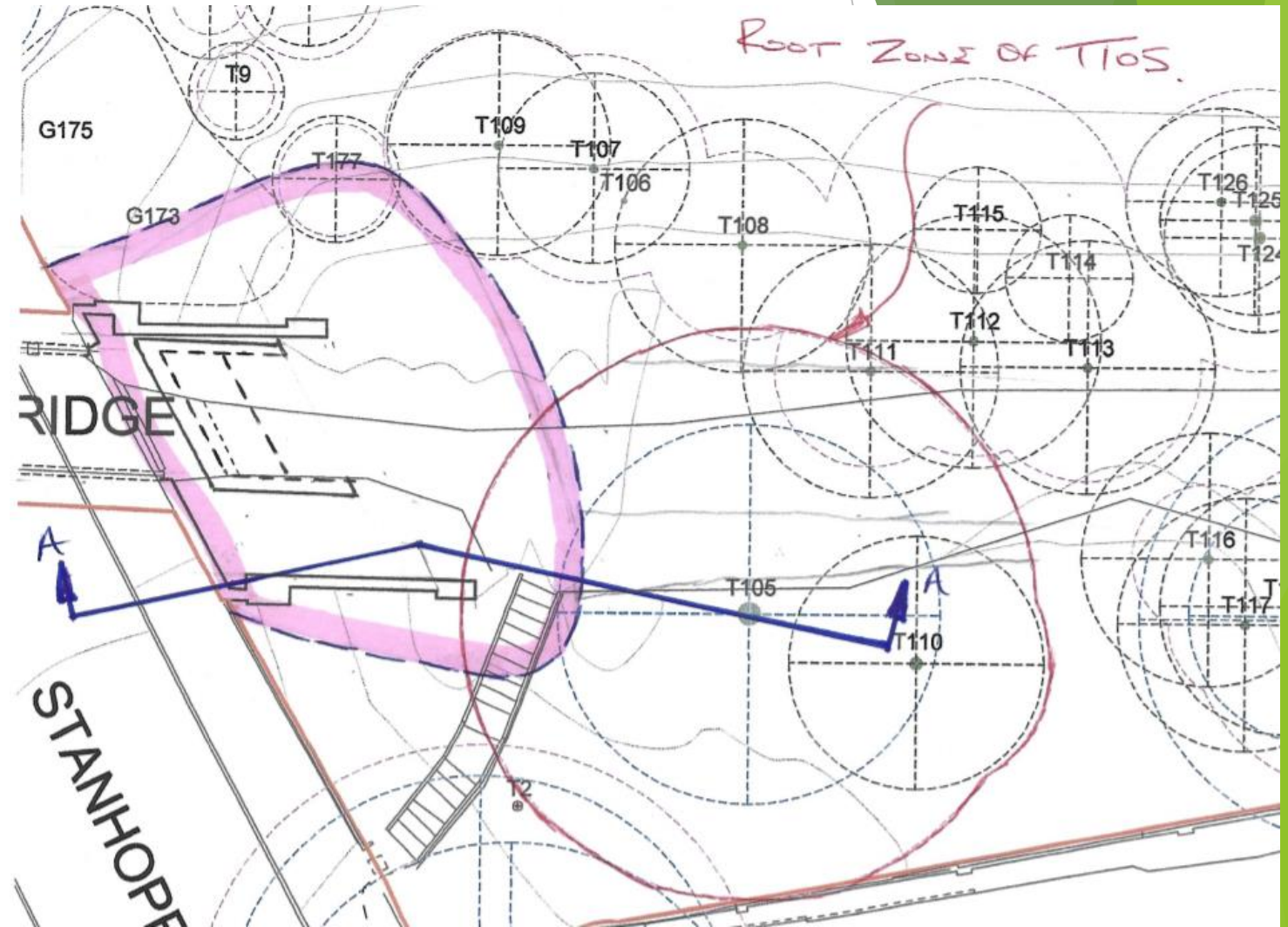
- ▶ No trees are being removed on the western side of Stanhope Road.
- ▶ On the eastern side of Stanhope Road five individual trees were identified for removal as part of the scheme. Two have previously been removed, three are identified for removal.
- ▶ Those three trees are:-
- ▶ T105,
- ▶ T110,
- ▶ T111.



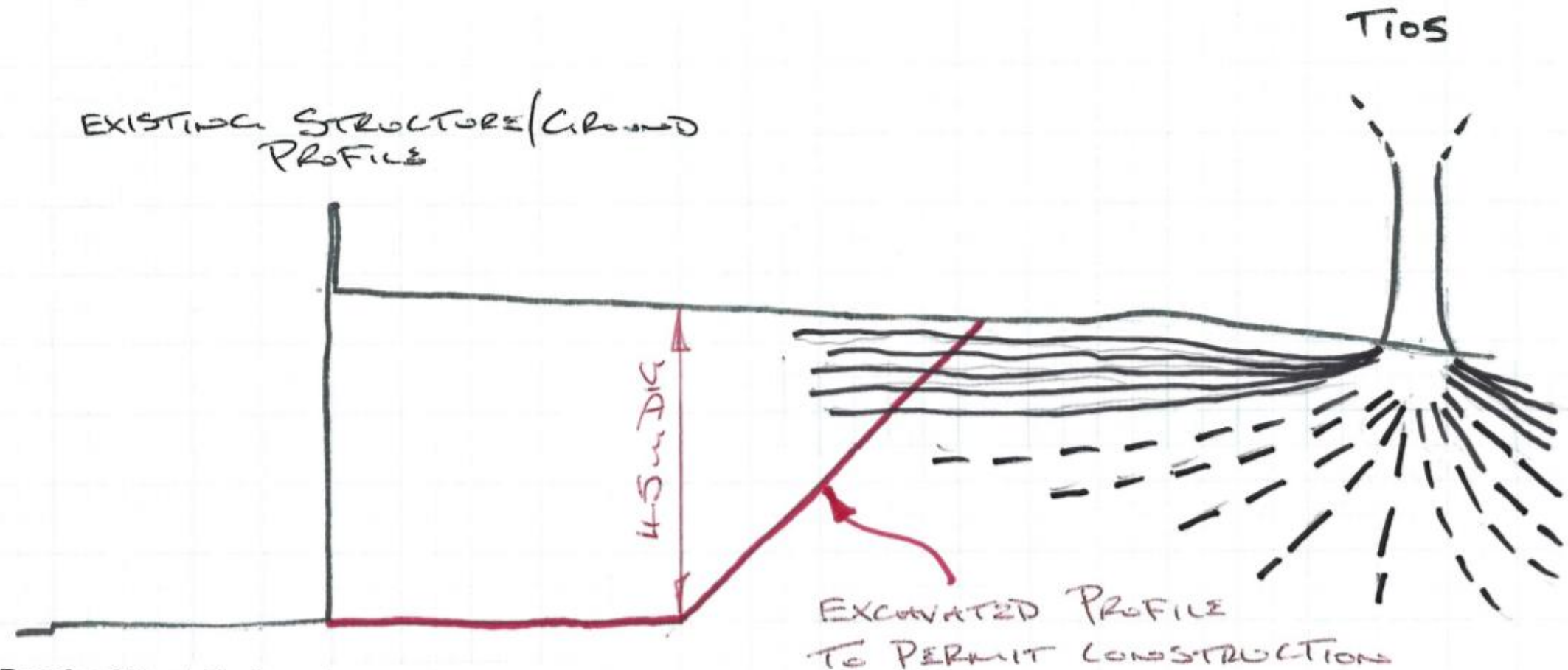
Stanhope Bridge - Why are the trees being felled to facilitate the works?

- ▶ T105 - A class B moderate quality tree, covered in a non native species which has impacted its development.
- ▶ The removal of the current abutments will lead to the excavation and removal of part of its root system. (See Slide 7 and 8)
- ▶ T105 and T111 (C class tree) The build up of the new access ramp to the bridge will increase the soil deposited on top of the root plate in the amount of between 50 cm and 125cm. (Slides 9 and 10)
- ▶ Best practice suggests significant detrimental impact on trees by adding more than 5 cm of soil to the current ground level.
- ▶ Overall 55% of T105 (See Slide 11) and 50% of T111 root plates impacted by works.
- ▶ T110 is a C class (low) quality tree which is removed to enable the works.
- ▶ 169 trees are protected
- ▶ An additional ten new trees are being planted.

- Area outlined in pink is excavation to permit abutment demolition of existing structure and construction of new smaller abutment.
- Assumes 3m working space for piling rig and 1:1 temporary excavation

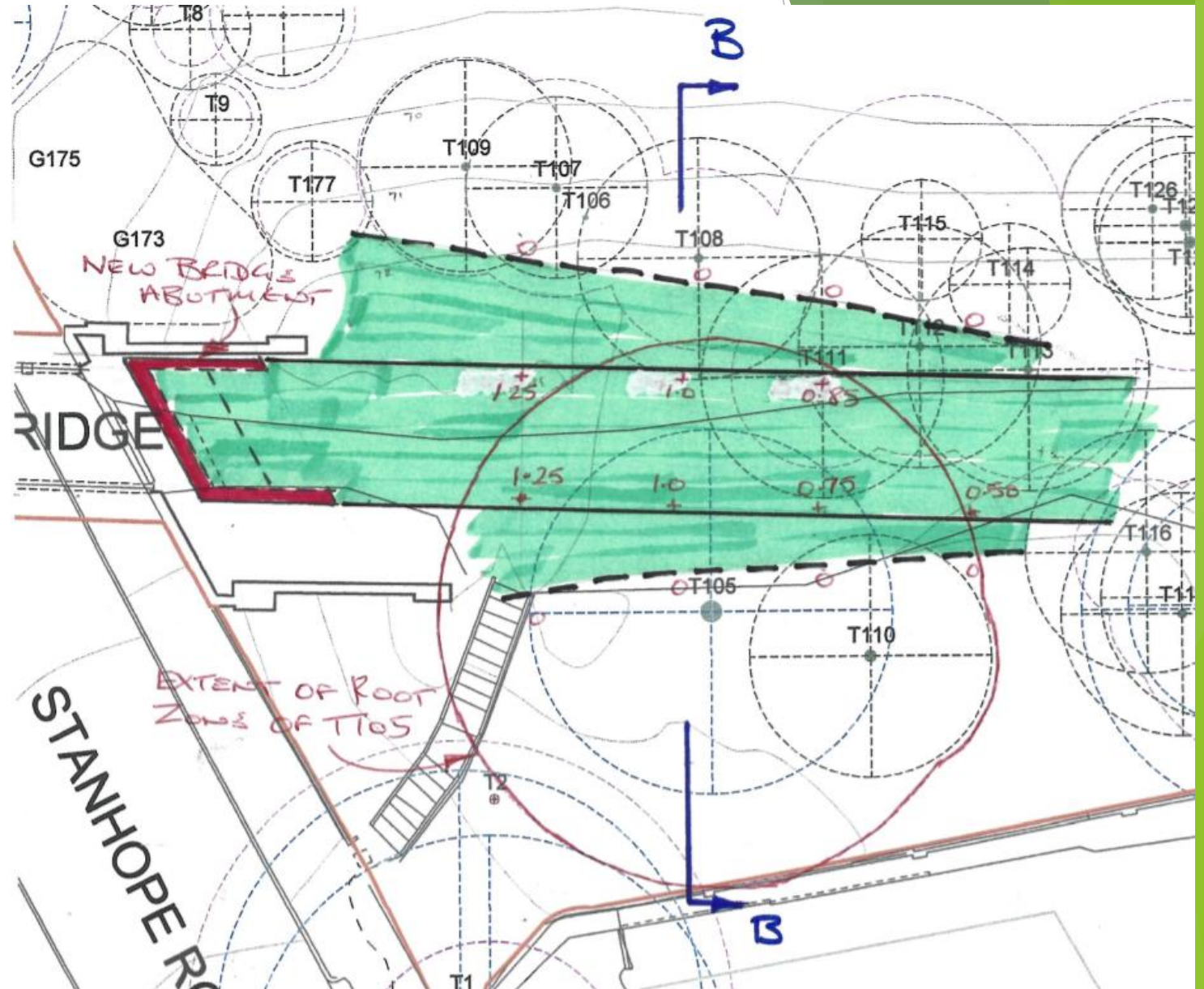


HEIGHT (M. A.O.D.)
69.0 70.0 71.0 72.0 73.0



T105 and T111

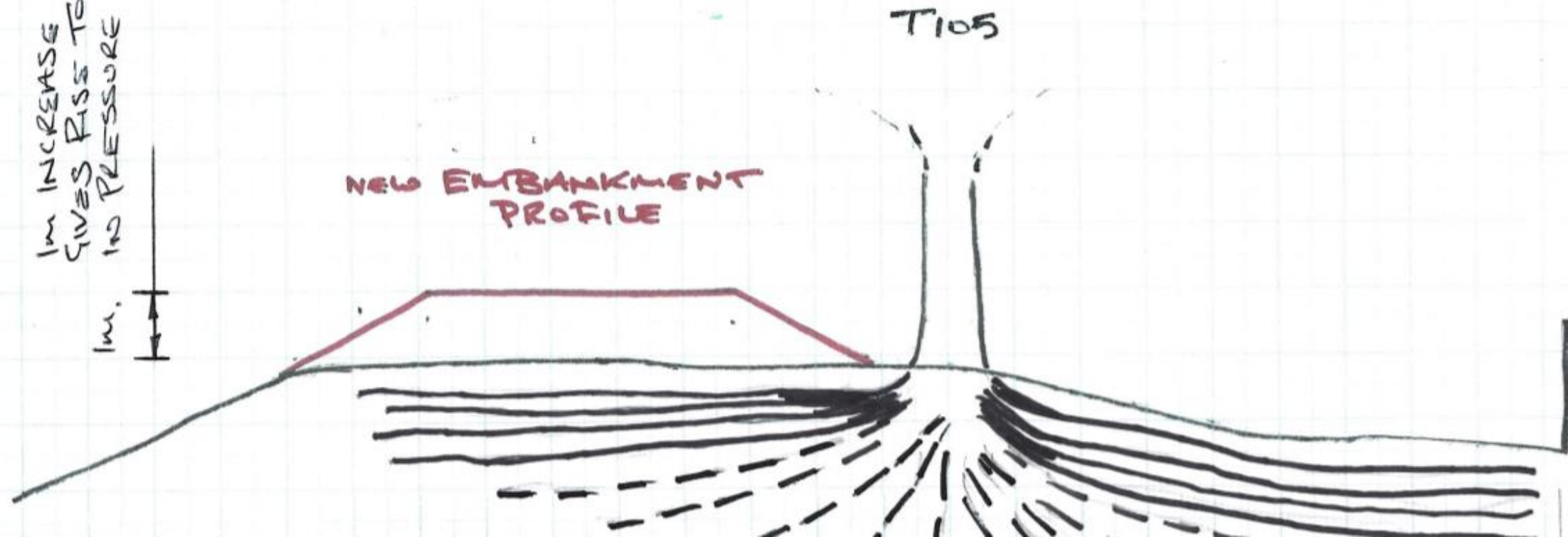
- Depth of fill between 50cm and 125 cm
- Increase in fill gives rise to an increase in pressure of circa 1.8 tonnes per m²



HEIGHT (m. A.O.D.)
71.0 72.0 73.0 74.0

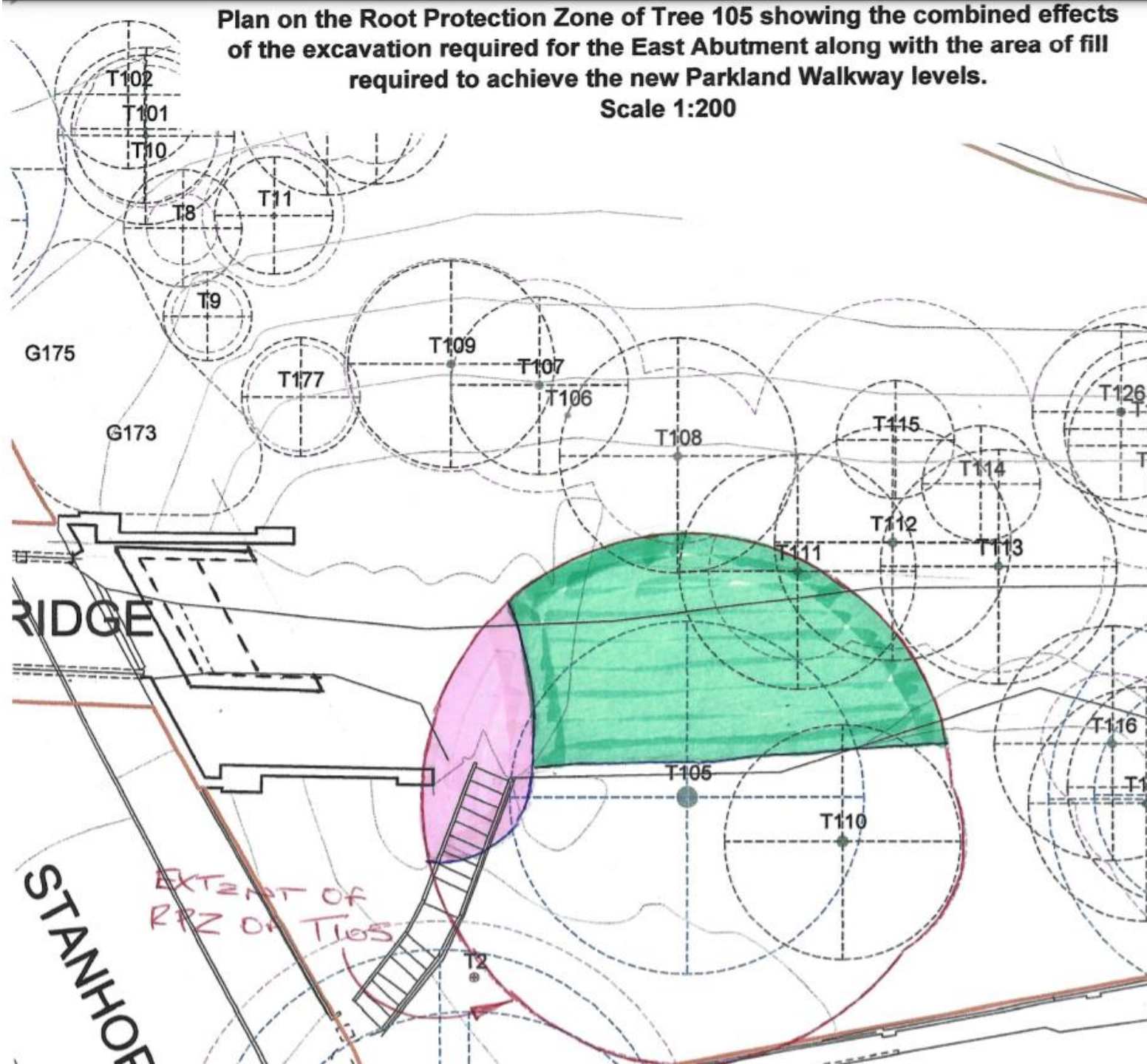
1m INCREASE IN FILL
GIVES RISE TO AN INCREASE
IN PRESSURE $\approx 1.8 \text{ TONNES/m}^2$

Cross Section B - B at Stanhope Road East Abutment / Tree 105 showing the
extent of fill required to form the new Parkland Walkway in relation to the Root
Protection Zone
Scale 1:100



THIRSK COTTAGE

Plan on the Root Protection Zone of Tree 105 showing the combined effects
of the excavation required for the East Abutment along with the area of fill
required to achieve the new Parkland Walkway levels.
Scale 1:200



Stanhope Bridge - Why is the bridge height being raised?

- ▶ The new bridge has to be designed with a clearance of 5.3m to the existing carriageway to meet the requirements of the Highways Agency Design Standard 'Design Manual for Road and Bridge Works', the suite of design standards generally adopted by Highway Authorities in Great Britain.
- ▶ Adopting this clearance will minimise the possibility of accidental impacts to the bridge deck with consequential structural damage and will futureproof the route to allow for the possibility of routing of 'double decker' buses along Stanhope Road in the future.
- ▶ The clearance is not related to the operational weight of vehicles using the carriageway below.

Update from previous scrutiny meeting:-

- ▶ Stationers Park – the Council removed 3 dead trees, two from within a play area and one opposite the water feature.
- ▶ Finsbury Park, trees felled recently include 5 dead or damaged trees from the avenue of Poplars along the southern carriageway and a Maple tree near the deport was removed because it was found in a hazardous condition.

Tree planting by ward last five years:-

Tree planting by ward 2016-2021 ALL SITES						
Council ward	2016/17	2017/18	2018/19	2019/20	2020/21	Totals
Alexandra	6	1	11	2	25	45
Bounds Green	11	11	1	12	4	39
Bruce Grove	9	0	4	8	0	21
Crouch End	3	5	10	2	2	22
Fortis Green	0	5	6	0	1	12
Harringay	2	1	20	100	18	141
Highgate	1	2	9	1	2	15
Hornsey	3	6	1	0	50	60
Muswell Hill	6	10	13	2	8	39
Noel Park	1	11	3	12	59	86
Northumberland Park	9	0	10	0	0	19
Seven Sisters	12	26	15	0	34	87
St Anns	7	3	3	2	69	84
Stroud Green	0	2	0	8	9	19
Tottenham Green	6	10	10	2	4	32
Tottenham Hale	12	25	14	2	23	76
West Green	74	0	0	11	65	150
White Hart Lane	15	6	0	0	1	22
Woodside	16	35	0	0	4	55
Total per year	193	159	130	164	378	1,024

Questions

