

# Southampton to London Pipeline Project

## Deadline 4

Site Specific Plan - Turf Hill

Application Document: 8.58

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January 2020





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# 1 Introduction

- 1.1.1 This plan provides further detail on the potential impacts, construction techniques and mitigation measures in this area as a standalone document that is certified as part of the Development Consent Order (DCO). The project is required to comply with and implement the Site Specific Plan under Requirement 17 of the DCO (**Document Reference 3.1 (5)**).
- 1.1.2 The methodology covers the following:
- construction programme;
  - access;
  - vegetation removal;
  - security;
  - enabling works;
  - Open Cut installation; and
  - reinstatement.
- 1.1.3 Esso and its supply chain of contractor(s) will adopt the control measures set out in this Site Specific Plan when undertaking the installation of the pipeline.



## 2 Construction Programme

- 2.1.1 Assessment of the intended construction methodology indicates that works between Red Road and Guildford Road will take approximately six months. This may not be six months of continuous work, as the works will be staged to facilitate safe working and to take account of other constraints.
- 2.1.2 There is a two-year working window for the construction works, as the programme will need to take account of any seasonality such as ecological constraints and optimum replanting periods. Notwithstanding the above constraints, the detailed scheduling of the works will look to rationalise and work simultaneously where there is the ability to do so, to reduce disturbance to the area. Once the construction plans have been finalised, the local community will be informed and updated in line with the Community Engagement Plan (**Document Reference 8.52**).
- 2.1.3 Below is a summary of works and approximate durations, but this is subject to detailed programming and uncertainties such as weather and ground conditions.

**Table 2.1: Estimated duration of works (based on working 6 days per week)**

Works	Estimated Duration
Enabling works (compound 5E)	2–3 weeks
Mobilisation	3 weeks
Open Cut (Red Road to Guildford Road)	12 weeks
Reinstatement	4–6 weeks. Reinstatement will take into account seasonal constraints and will occur in the first available planting season.



### 3 Description of Works

#### 3.1 Access

3.1.1 The vast majority of Turf Hill will remain accessible during installation for all works. The rolling nature of construction is typically with a 50m long active working area, which together with the network of undesignated paths/tracks in the area, provide opportunities to reduce the disruption to users of Turf Hill.

**Table 3.1: Bridleway and usage**

Bridleway	Use
Bridleway 129 West End	The use of the path will be maintained, with limited suspension, or a local diversion while the Open Cut installation crosses the bridleway.
Bridleway 66 West End	The use of the path will be suspended for the duration of Open Cut installation for a period of approximately 12 weeks. There are opportunities to limit this suspension by diverting users to undesignated tracks. This will be agreed, in advance, with Surrey Heath Borough Council.

3.1.2 Where there are undesignated paths and accesses into Turf Hill, for example from private properties, if possible diversionary paths that are segregated from the working area will be provided.

#### 3.2 Vegetation Removal

3.2.1 The local landscape character of the Order Limits that pass through Turf Hill comprises informal paths within coniferous woodland with some heathland and scrub understorey. There is also non-native invasive Gaultheria along the northern extent of the area. It is anticipated that 17 of the surveyed trees will require removal.

3.2.2 Vegetation screening and trees will not be removed from the boundary between the woodland and the private properties along the boundary of Turf Hill.

3.2.3 A number of trees will be removed from the compound area.

3.2.4 The extent of tree removal adjacent to Guildford Road is still to be confirmed following more detailed design on the likely alignment.

3.2.5 Sections 3.4 and 3.5 below outline the approach that will be taken during construction to reduce the impact to vegetation and trees within the area, and this is reflected in the construction stage plan in Appendix B. As per Requirement 8(1)(a) of the DCO (**Document Reference 3.1 (5)**), the retention and removal of vegetation within the park must be undertaken in accordance with this Site Specific Plan (including the construction stage plan) unless otherwise agreed by the relevant planning authority.

#### 3.3 Security

3.3.1 The construction compound will be fully secure, with locked gates.



- 3.3.2 Heras type fencing bolted together, or strong-wall fencing, will be used during the works. All plant and operatives will work within the fencing and compound.
- 3.3.3 The on-site, 24-hour security team will monitor all working areas.

### **3.4 Enabling Works**

- 3.4.1 This consists of creating the compound (Works 5E)
- 3.4.2 The compound 5E will be constructed to the west of Guildford Road, on the edge of the heath where a small stand of Scots pine trees is present. Trees and stumps will be removed to allow a safe level area.
- 3.4.3 Within the working area, trees will be cut down to ground level or lopped by licenced professionals. As with typical woodland management, tree stumps are left in situ to reduce the ground disruption and left to decompose, providing habitat for invertebrates.
- 3.4.4 Stumps will be removed from along the trench width to allow the installation of the pipeline.
- 3.4.5 The topsoil will be stripped and neatly stored to one side of the compound, which will provide additional noise and visual screening of the compound from users of Turf Hill. The area of the compound will then be covered with a permeable surface.
- 3.4.6 The compound will be fenced with a 2m high Heras perimeter fence that is double clipped for security and placed on rubber weighted feet for stability. Lighting will be installed, facing down and away from the nearby properties, and only used while the compound is occupied during the working day, with the exception of security lighting. The compound will be fully secure, with locked gates and may have CCTV. A watching security guard will periodically check on the work sites when the works are not operating, such as during the night and on Sundays.

### **3.5 Open Cut**

- 3.5.1 Before any Open Cut works can continue, works to trees identified to be removed will be undertaken by a licenced specialist.
- 3.5.2 As with typical woodland management, tree stumps will be left in situ to reduce the ground disruption and for ecological value (for invertebrates during decomposition).
- 3.5.3 Trees being retained will be protected from installation activity in line with commitment G95: *'The contractor(s) will consider and apply, the relevant protective principles set out in the National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)). This will be applied to trees within the Order Limits which will be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.'*



- 3.5.4 The project Environmental Clerk of Works and arboriculturalist will monitor and provide advice when any works to trees, such as branch removal, are required.
- 3.5.5 Footpaths in this area will remain open during vegetation clearance, with the exceptions of tree removal and any activity where there is a risk to passers-by. Warning signage to indicate restricted zones will be erected alert the public to the works. All material from the vegetation clearance will be removed from Turf Hill and recycled.
- 3.5.6 Open Cut is likely to begin at the crossing point of Guildford Road and work back to Red Road.
- 3.5.7 The woodland Open Cut methodology will be followed and tailored to the conditions of Turf Hill to reduce the amount of vegetation and tree clearance required. The key elements of installation through Turf Hill are outlined below.
- 3.5.8 The Open Cut installation works area will be undertaken in section lengths of 50m and a maximum width of 15m (narrow working commitment N22). Topsoil will only be stripped from the area required for the trench.
- 3.5.9 All fabrication works (such as grinding, welding, coating and testing) will be undertaken behind screens or within shelters in order to reduce any impact on the users of the park. These areas will include acoustic protection if required.
- 3.5.10 The proposed pipe alignment has been designed to avoid the root protection areas of trees in private properties.
- 3.5.11 The intended working area in Turf Hill will result in the removal of 17 of the surveyed trees.
- 3.5.12 Size of plant (vehicles and machinery) will be smaller than traditional Open Cut plant. This is necessary to work safely within the reduced 15m working width.
- 3.5.13 For a distance of circa 500m, the proposed pipeline will be installed adjacent to an existing water main. The project is aware of the presence of the Affinity Water main, has a signed Statement of Common Ground and will continue engagement with Affinity Water. The water main is located to the north of Turf Hill and outside the Limits of Deviation. The project is agreeing Protective Provisions with Affinity Water to control the construction of the pipeline in close proximity to the water main. It should be noted that the project will frequently need to work alongside utility pipelines in many areas of the pipeline's installation.

## **3.6 Reinstatement**

### **Compound**

- 3.6.1 This area will be allowed to naturally regenerate as heathland. This has been endorsed by Natural England. This will involve replacing the topsoil, but not reseeding.



### **Bridle Paths**

- 3.6.2 The path will be reinstated once the Open Cut works are complete. Like-for-like footpath surfacing will be used for reinstatement, unless otherwise agreed between Esso and Surrey Heath Borough Council.

### **Vegetation**

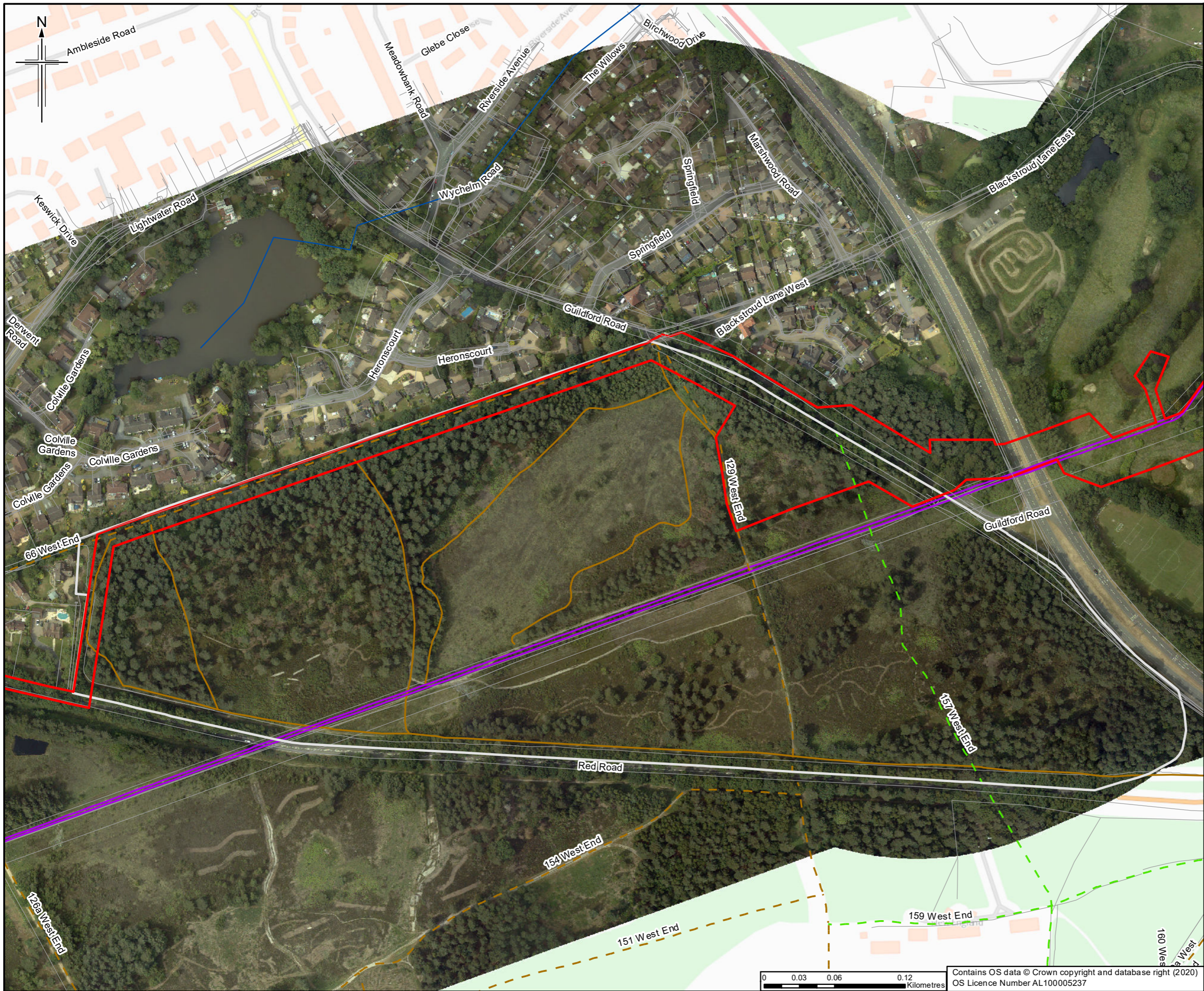
- 3.6.3 Vegetation will be reinstated as shown in the reinstatement plan attached in Appendix B. This reinstatement plan will be included within Appendix B of the Landscape and Ecological Management Plan (LEMP) (**Document Reference 8.50**) for the approval of the relevant planning authority as per Requirement 8(1)(b) and Requirement 12 of the DCO (**Document Reference 3.1 (5)**).
- 3.6.4 Where the topsoil has been stripped and stored, this will then be replaced after the works have been completed and either reseeded, specific to Turf Hill native species and with respect to seasonality, or left to natural regenerate.
- 3.6.5 Woodland will be reinstated with appropriate native species.
- 3.6.6 Where trees have been removed, they will be replaced at an adjacent location whilst outside of the 6.3m pipeline easement.
- 3.6.7 The vegetation will be subject to a five-year aftercare period.





## **Appendix A – Area Plan**





- Legend**
- Order Limits
  - Turf Hill, Thames Basin Heaths SPA (area covered by this site specific plan)
  - Existing aviation pipeline and multifuel lines
  - River
  - Bridleway
  - Footpath
  - Undesignated path
  - Statutory services line

0	30/01/2020	For Issue	LM	BM	BM	PG
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

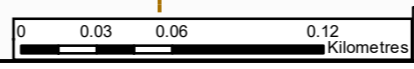
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Project  
 Southampton to London Pipeline Project

Drawing title  
**SITE SPECIFIC PLAN  
 TURF HILL**

Drawing Status	For Issue	
Scale	1:3,000 @ A3	DO NOT SCALE
Jacobs No.	B2325300	
ProjectWise No.		
Drawing number	Sheet 1 of 1	Rev 0



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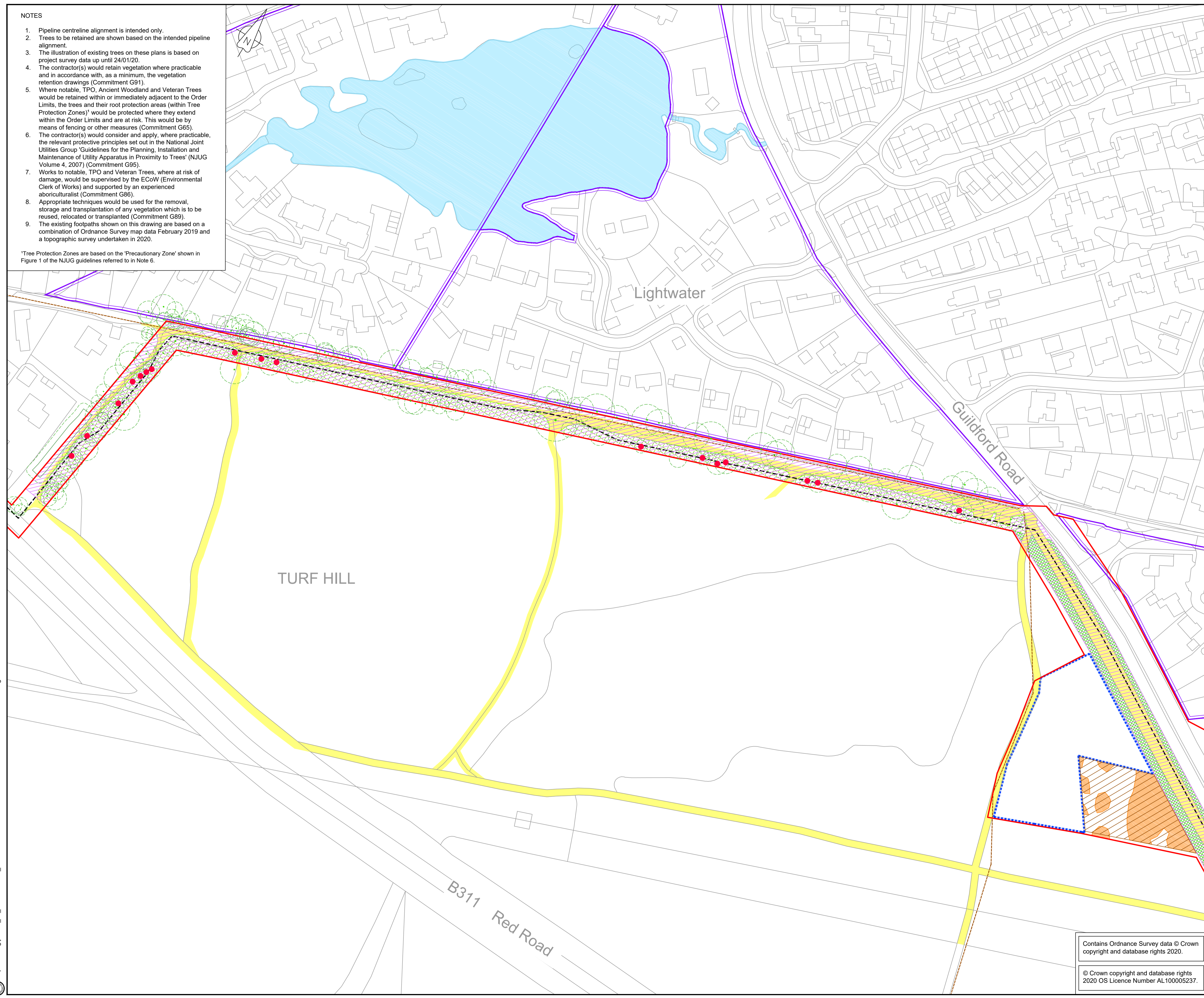


## **Appendix B – Construction and Reinstatement Plans**



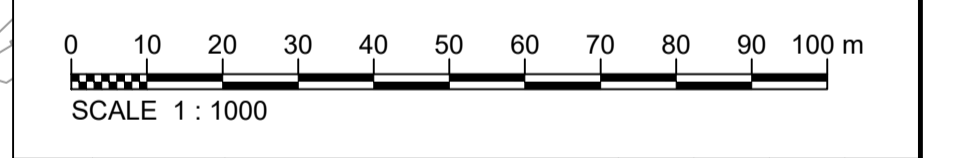
- NOTES**
- Pipeline centreline alignment is intended only.
  - Trees to be retained are shown based on the intended pipeline alignment.
  - The illustration of existing trees on these plans is based on project survey data up until 24/01/20.
  - The contractor(s) would retain vegetation where practicable and in accordance with, as a minimum, the vegetation retention drawings (Commitment G91).
  - Where notable, TPO, Ancient Woodland and Veteran Trees would be retained within or immediately adjacent to the Order Limits, the trees and their root protection areas (within Tree Protection Zones) would be protected where they extend within the Order Limits and are at risk. This would be by means of fencing or other measures (Commitment G65).
  - The contractor(s) would consider and apply, where practicable, the relevant protective principles set out in the National Joint Utilities Group 'Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees' (NJUG Volume 4, 2007) (Commitment G95).
  - Works to notable, TPO and Veteran Trees, where at risk of damage, would be supervised by the ECoW (Environmental Clerk of Works) and supported by an experienced arboriculturalist (Commitment G86).
  - Appropriate techniques would be used for the removal, storage and transplantation of any vegetation which is to be reused, relocated or transplanted (Commitment G89).
  - The existing footpaths shown on this drawing are based on a combination of Ordnance Survey map data February 2019 and a topographic survey undertaken in 2020.

\*Tree Protection Zones are based on the 'Precautionary Zone' shown in Figure 1 of the NJUG guidelines referred to in Note 6.



LOCATION PLAN  
SCALE 1:500,000

- LEGEND**
- ORDER LIMITS
  - LIMITS OF DEVIATION
  - INTENDED PIPELINE CENTRELINE
  - NARROW WORKING AREA (NW2m PIPE INSTALLATION)
  - COMPOUND
- EXISTING CONTEXT**
- TREE PROTECTION ZONES
  - PUBLIC RIGHTS OF WAY (PROW)
  - TREE PRESERVATION ORDER (TPO)
- EXISTING FEATURES TO BE RETAINED**
- TREE GROUPS TO BE RETAINED
  - OTHER INDIVIDUAL TREES TO BE RETAINED
  - OTHER FOOTPATHS
- EXISTING FEATURES TO BE REMOVED**
- TREE TO BE REMOVED
  - WOODLAND TO BE REMOVED
  - TREE REMOVAL TO BE CONFIRMED
  - UNDERTOREY CLEARANCE WITHIN WORKING AREA TO BE CONFIRMED
  - ENVIRONMENTAL MITIGATION AREA - HABITAT CREATION



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01.2	28/01/20	DRAFT FOR DCO SUBMISSION				

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Project: Southampton to London Pipeline Project

Drawing title: **TURF HILL: CONSTRUCTION STAGE**

Drawing status: Initial Status or WIP

Scale: 1:1000 DO NOT SCALE  
Jacobs No. B2325300 Rev P01.2  
Client no.

Drawing number: B2325300-JAC-000-ENV-DRG-111156

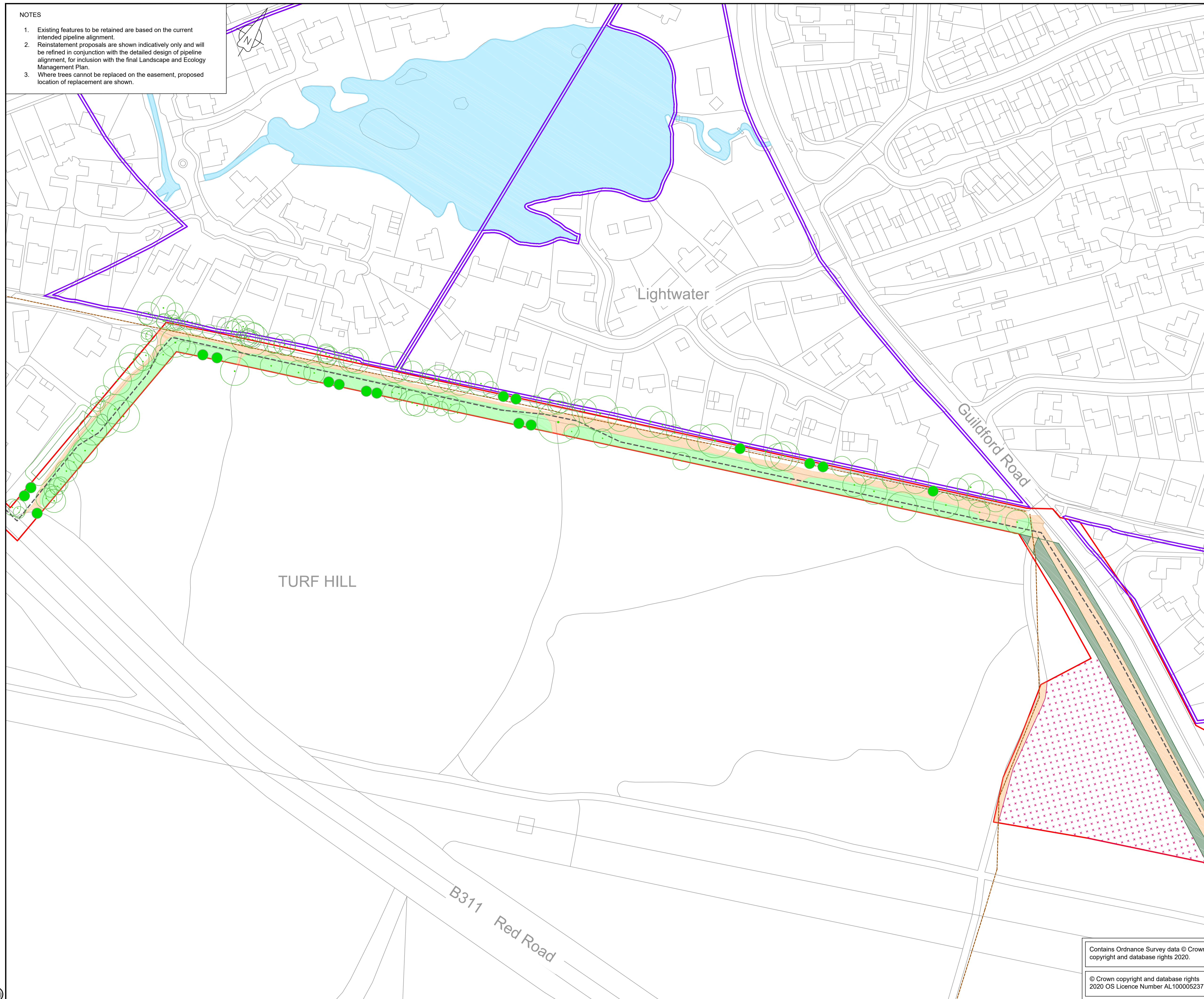
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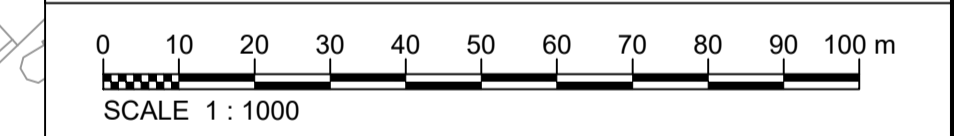


- NOTES**
- Existing features to be retained are based on the current intended pipeline alignment.
  - Reinstatement proposals are shown indicatively only and will be refined in conjunction with the detailed design of pipeline alignment, for inclusion with the final Landscape and Ecology Management Plan.
  - Where trees cannot be replaced on the easement, proposed location of replacement are shown.



**LOCATION PLAN**  
SCALE 1:500,000

- LEGEND**
- ORDER LIMITS
  - INTENDED PIPELINE CENTRELINE
- EXISTING CONTEXT**
- PUBLIC RIGHTS OF WAY (PROW)
  - TREE PRESERVATION ORDER (TPO)
- EXISTING FEATURES RETAINED**
- TREE GROUPS RETAINED
  - INDIVIDUAL TREES RETAINED
- FEATURES TO BE REINSTATED**
- SOFT LANDSCAPE**
- INDIVIDUAL TREE REINSTATEMENT PLANTING
  - NATURAL REGENERATION FOR CREATION OF HEATHLAND HABITAT
  - WOODLAND REINSTATEMENT PLANTING
  - UNDERSTOREY REINSTATEMENT PLANTING
- HARD LANDSCAPE**
- FOOTPATH SURFACING REINSTATEMENT



Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Appr'd
P01.2	29/01/20	DRAFT FOR DCO SUBMISSION				

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Project: Southampton to London Pipeline Project

Drawing title: **TURF HILL: REINSTATEMENT**

Drawing status: Initial Status or WIP

Scale: 1:1000 DO NOT SCALE  
Client no.: B2325300 Rev: P01.2

Drawing number: B2325300-JAC-000-ENV-DRG-111157

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