

PROJECT SAFETY INFORMATION

BROOK FORESTRY LTD

CHRISTKIRK FOREST

CONSTRUCTION OF NEW FOREST ROAD

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1 SCOPE OF WORKS

To construct a new forest road to FCS specification, compliant with Forest & Water Guidelines and Forestry Stewardship Council certification standards. The delineation of the route for the new road aims to ensure gradients are less than 8% where possible and to utilise existing forest rides where possible. The new road will connect with the existing internal forest road network, constructed over 2018 and 2019 and avoid use of the weak private shared residential track west of Flinder and the weak, narrow public road from Flinder to Christkirk. Grant claim via TTF does not form part of the scope of works as there are no shared forest users along the timber haul route. The new road is approximately XXX meters in length, an additional 1860 meters in length was completed over 2018 and 2019. Roadstone is already stockpiled ready for use on site and no further stone requires to be 'won' from borrow pits.

2 HAZARDS AND RISK ASSESSMENT

2.1 SITE HAZARDS IDENTIFIED

There are no overhead powerlines, or other buried/overhead cables. Private water supply pipes are present and may require to be crossed with the new road. Locations will be determined before works commence and measures established to protect buried pipes. There are clay pipe field drains within the woodland although these are considered redundant/ broken due to existing tree cover . There are no drains or watercourses proximate to the proposed route of the road. There is no recorded archaeology proximate to the work site.

SITE RISK ASSESSMENT

The risk assessment will comprise the site specific assessment below which will be supplemented by the subcontractors risk assessment.

HAZARD	AT RISK	RISK LEVEL	REDUCTION MEASURES/CONTROLS	RESIDUAL RISK LEVEL
Diffuse pollution	E	3	Although there are no open drains or water courses proximate to the work area, provision of new roadside drains if required, will accommodate silt traps and buffer strips, avoiding direct access to existing open drains out-with the work area.	1
Archaeology	E/P	2	No archaeology on or adjacent to the work area. If any excavated archaeology is found during earthworks, operations will cease in the immediate area and the Archaeology dept of Aberdeenshire council will be notified. Similarly any artefacts exposed/found during works will be reported to the Treasure trove unit.	1
Water supplies	P	4	Discuss location with farmer (Ian Stuart) and mark on ground. Have poly-pipe and couplers available on stand-by should water pipe be cut during works. Liaise with residents at Flinder bungalow during operations and advise when complete.	2

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Slopes	S	3	Working on modest side slopes during road-benching. Beware of grass slip risk when wet underfoot.	2
Field Drains	P	3	Divining will be used to identify any buried intact tile drains across the route of the road. Wavin coil pipe will be to hand in order to tie bisected drains prior to laying roadstone.	
Slip/trip	S	3	Works to be undertaken in dry conditions, appropriate footwear to be worn.	2
Walkers	P	2	Threshold signage to be maintained & barrier tape across access track approached from both directions at 100m from worksite	1
Birds	E	2	Works planned out-with nesting season	1
Disturbance	E	2	Daylight working only. Liaise with residents of Flinder Bungalow	1
Oil spill	E	5	All fuel to be bunded, stored on level ground well away from drains/watercourses, storage site to be agreed pre-commencement. No re-fuelling within 50m of watercourse. Oil spill kits and emergency plan to be held on site (boom material to be stored at Flinder steading.	1

Abbreviations: P – Public, S – Subcontractor, E – Environment

Risk level: 1 = Minor (acceptable) 2 = Moderate (tolerable with controls) 3 = Serious (intolerable) 4 = Very serious 5 = Catastrophic

2.2 SPECIFIC ENVIRONMENTAL IMPACTS AND CONTROLS

The work site is over dry freely draining upland brown earths and diffuse pollution risk is considered very low. The bird nesting season will be avoided during felling operations in advance of road construction (approved under SF LTFP 20FGS48443). There are no cuttings or embankments required along the length of the road, as the entire route can be ‘benched’ by cut and fill. Gradients will be kept below 10% for short lengths and below 8% where possible over longer lengths to minimise risk of side-ditch/surface erosion. A thorough survey for badger sets has already been undertaken, no setts have been found to be present within 100meters of the route of the road.

3 SUBCONTRACTORS

3.1 SUBCONTRACTORS REQUIRED TO CARRY OUT ACTIVITY

All works will be undertaken by a local civil works contractor with experience of forest road and similar projects. The contractor will hold all necessary competency certificates. Brook Forestry contractor key facts sheet to record certificates held for all operatives on site (Insurance cover £5m minimum), operational competency and 1st Aid).

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3.2 TRAINING AND COMPETENCY

All subcontractors will have the following competencies **TO BE COMPLETED PRE-START**

Training Certificates Held	Name	Name	Date Checked	Comments
First Aid				
Other				

4 PLANT AND WORK EQUIPMENT

4.1 PLANT AND MACHINERY

Machinery required to carry out operations will be as follows:

- Tracked excavator (20 tonne min) and/ or dozer for topsoil stripping and laying roadstone.
- Wheeled Moxy or similar dumper for delivery of material along the length of the road formation from stockpile on site, to be deposited and spread over redundant sections of existing track.
- Tracked excavator for loading Moxy dumper.
- Ride-on vibrating roller
- Tracked dozer for removal of topsoil.

4.2 PPE REQUIREMENTS

PPE requirements will consist of the following and any other additional items as required as a minimum:

- Safety helmet, High-Viz jacket or waistcoat, safety boots
- Waterproof coveralls, gloves and eye protection
- Barrier tape
- Warning threshold signs

5 METHOD STATEMENT

- Assess site daily for changes to Risk assessment and set in place control measures.
- Plan all off-site activity before commencement to ensure all materials are to-hand and readily available.
- Survey work site once route of road is pegged-out, for water pipes and plan protection measures.
- Execute works only if weather forecast and conditions suggest suitability for a duration of at least 1 week beforehand.
- Identify suitable re-fuelling and messing areas.
- Locate suitable setting down for oil spillage eqpt.
- Excavate road path-tray (including stumps to be set-aside) to between 200mm -300mm as necessary, cast topsoil to downside batters and leave level/graded to contours. Partial backfill with existing material and compact in layers.
- Excavator to utilise suitable cut and fill material to 'bench the road formation to finished levels on side slopes.

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- Top-dress the formation with 1.5-2.0 tonnes of quarry stone per running meter, supplied from the stock pile on site at Flinder, distributed by Moxy dumper, levelled by excavator in 150 meter sections as road construction progresses from point nearest stockpile to both ends of the road.
- Form side-camber with excavator, to suit future use by HGV fitted with CTI systems.
- Compact the surface with vibrating roller.
- All the above compliant with Forestry Commission road specification.
- Tidy site on completion, removing all signage and allow natural settlement for minimum of 2 years before use.
- Monitor site and cross check against pre-works survey.

6 OPERATIONS SPECIFICATION

The specification is to FCS (as appended).

EMERGENCY PLAN

An emergency plan will be completed when the contractor is appointed.

7 SITE BRIEFING

Work Statement Site briefing confirmation sheet for all stakeholders. TO BE COMPLETED ONCE CONTRACTOR HAS BEEN APPOINTED AND BEFORE COMMENCEMENT ON SITE.

Work Statement Title	Construction of new road
Work Statement Number	031
Scope of Works	All works

NAME	DESIGNATION	SIGNATURE