
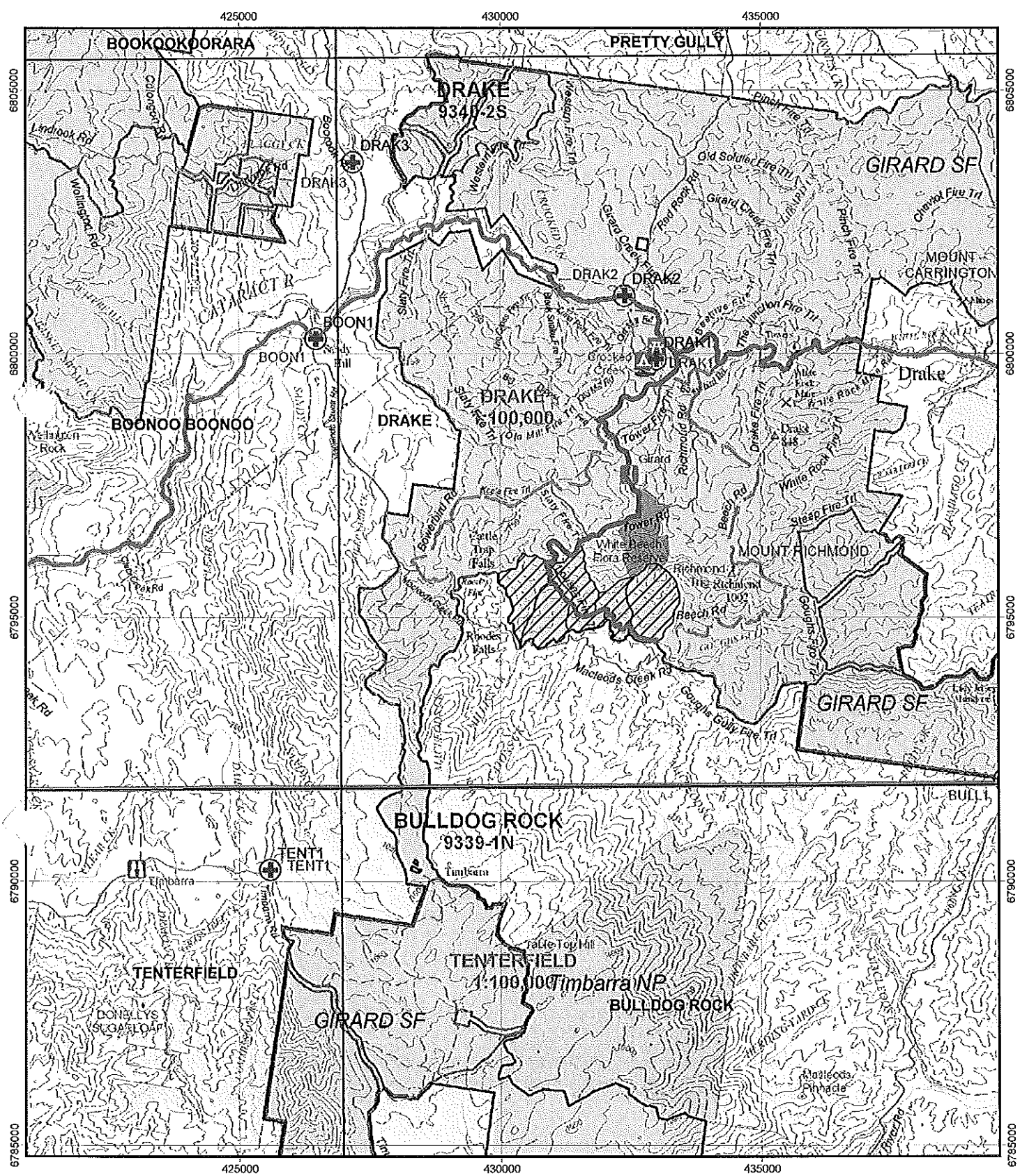










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 Map Sheets:  
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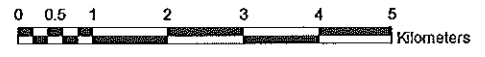
North East Region - Tenterfield MA  
 Locality Map  
 Compartments 56, 57, 58, 63 & 64  
 Girard State Forest

MGA 56  




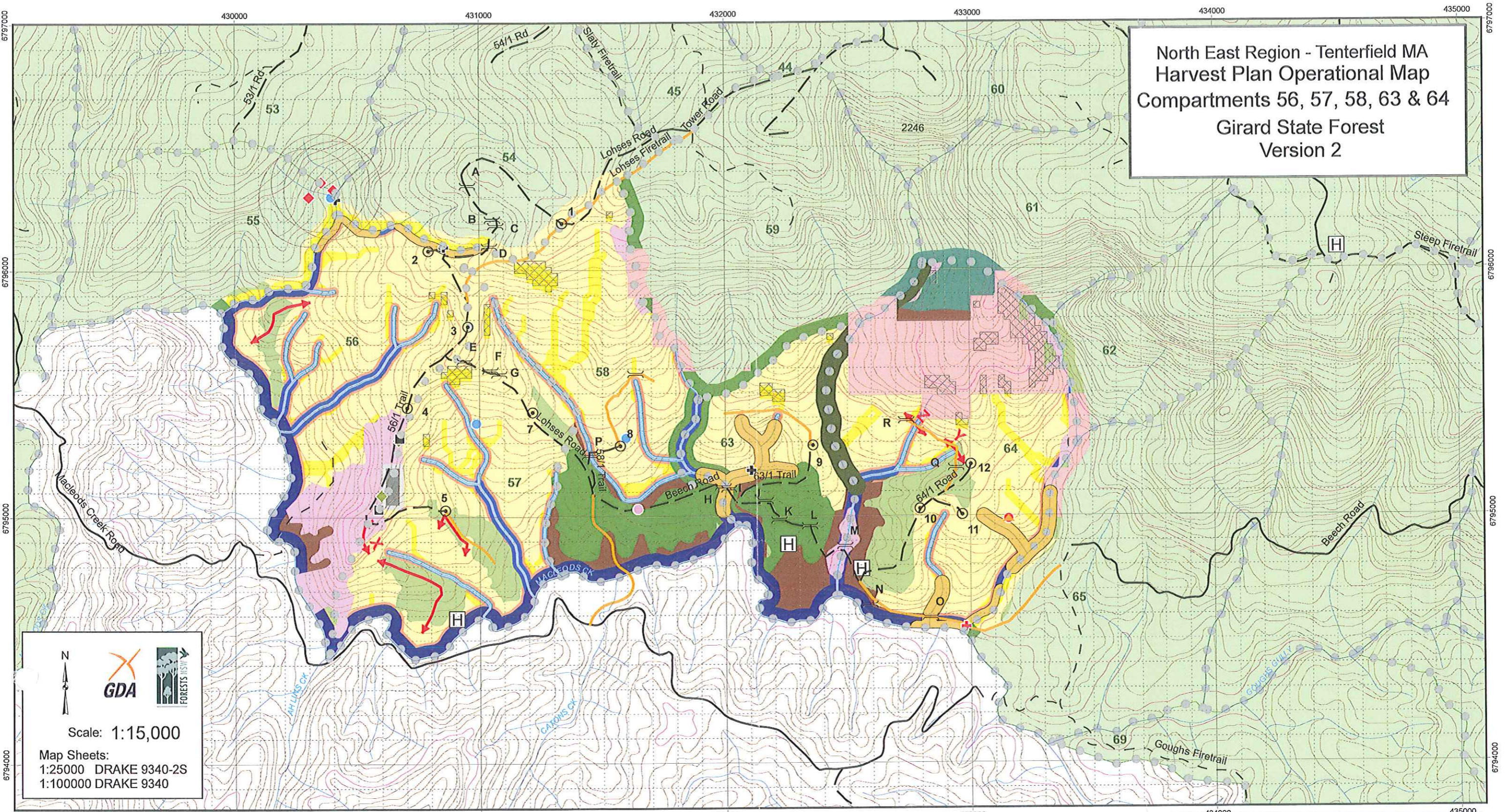
MAP FEATURES

-  Helipad
-  Emergency Meeting Point (Safety Point)
-  State Forest
-  National Park Estate
-  1:25000 Map Sheet
-  1:100000 Map Sheet
-  Subject Area
-  Haulage Roads



Prepared by... Andrew Pitzen  
 Date: 6/7/2010

North East Region - Tenterfield MA  
 Harvest Plan Operational Map  
 Compartments 56, 57, 58, 63 & 64  
 Girard State Forest  
 Version 2



**GDA**  
 FORESTS NSW

Scale: 1:15,000


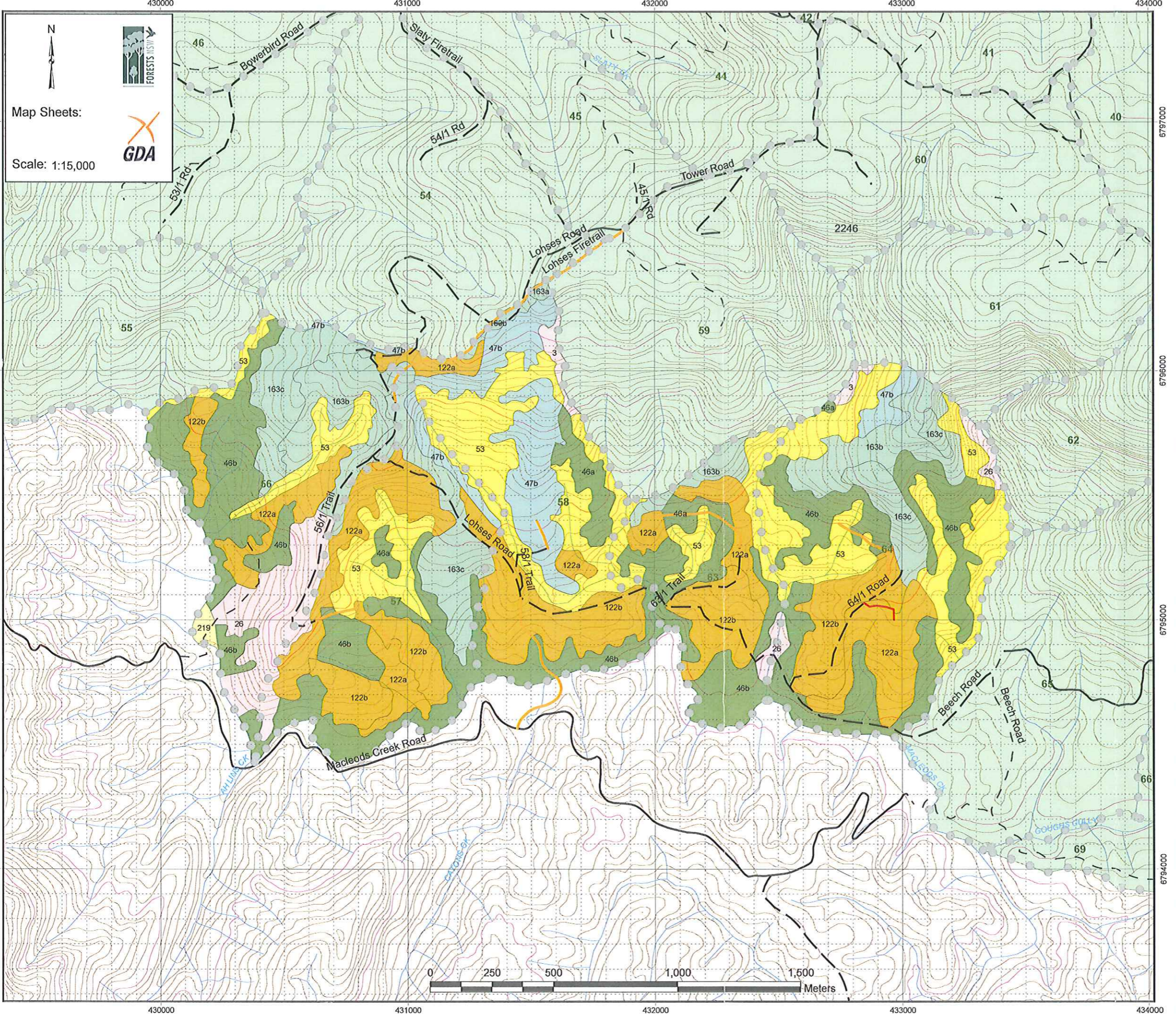
Map Sheets:  
 1:25000 DRAKE 9340-2S  
 1:100000 DRAKE 9340

MAP FEATURES	ROADS	HARVESTING PROTECTION (TSCL, EPL & FL)	HARVESTING EXCLUSIONS	TSL PRESCRIPTIONS / ZONES	THREATENED SPECIES LOCATIONS
<ul style="list-style-type: none"> <li>State Forest Boundary</li> <li>Compartments Boundary</li> <li>1 Km Grid</li> <li>10 / 100 m Contour</li> <li>State Forest</li> <li>National Park Estate</li> <li>Slopes &gt; 30 degrees</li> <li>Aboriginal Sites</li> <li>Non Aboriginal Heritage</li> </ul>	<ul style="list-style-type: none"> <li>Sealed</li> <li>All Weather, Unsealed</li> <li>Dry Weather, Unsealed</li> <li>4WD Track</li> <li>New Construction</li> <li>Non Haulage Roads</li> <li>Roads not to be used</li> <li>Forwarder use only</li> </ul>	<ul style="list-style-type: none"> <li>Riparian (IHC 1 &amp; 2)</li> <li>Filter 5m either side</li> <li>Protection 5m either side</li> <li>Protection 15m either side</li> <li>Protection 25m either side</li> <li>Protection 45m either side</li> <li>Operational zone 10m either side</li> </ul>	<ul style="list-style-type: none"> <li>Special Protection (FMZ 1)</li> <li>Special Management (FMZ 2)</li> <li>Harvesting Protection (FMZ 3A)</li> <li>High Conservation Value Old Growth</li> <li>Rainforest - Crafti + RN17</li> <li>Ridge &amp; Headwater Habitat (80m wide exclusion)</li> <li>Noncommercial</li> <li>Rock</li> <li>Rock Buffer (20m from edge of rock)</li> </ul>	<ul style="list-style-type: none"> <li>YBG Modified Harvest Area</li> <li>30m Frog and Bat Buffer Protection Zone</li> </ul>	<ul style="list-style-type: none"> <li>Powerful Owl</li> <li>Masked Owl</li> <li>Sooty Owl</li> <li>Glossy Black-Cockatoo Feed Tree</li> <li>Spotted-tailed Quoll</li> <li>Yellow-bellied Glider</li> <li>Golden-tipped Bat</li> <li>Stuttering Frog</li> <li>Giant Barred Frog</li> </ul>
	<ul style="list-style-type: none"> <li>DUMPS &amp; CROSSINGS</li> <li>Temporary Dry</li> <li>Approved Crossing</li> </ul>	<ul style="list-style-type: none"> <li>HARVESTING PRESCRIPTIONS</li> <li>General Management (FMZ 4)</li> <li>Areas for Further Assessment (FMZ 8)</li> </ul>		<ul style="list-style-type: none"> <li>RIDGE &amp; HEADWATER HABITAT</li> <li>40m wide exclusion</li> <li>80m wide exclusion</li> </ul>	

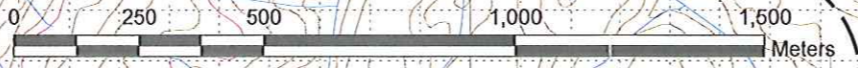
Prepared by... Andrew Pitzen  
 Date: 17/09/10  
 Version 2

North East Region - Tenterfield MA  
**Compartments 56, 57, 58, 63 & 64**  
 Girard State Forest

Map Sheets:  
 Scale: 1:15,000

- MAP FEATURES**
- State Forest Boundary
  - Compartments Boundary
  - 1 Km Grid
  - 10 / 100 m Contour
  - State Forest
- ROADS**
- Sealed
  - All Weather, Unsealed
  - Dry Weather, Unsealed
  - - - 4WD Track
  - New Construction
  - Non Haulage Roads
  - Roads not to be used
  - Forwarder use only
- FOREST TYPE**
- Type 3 Corkwood - Sassafras - Crabapple - Silver Sycamore
  - Type 26 Viney Scrub
  - Type 46 Sydney Blue Gum
  - Type 47 Tallowwood - Sydney Blue Gum
  - Type 53 Brush Box
  - Type 122 New England Stringybark
  - Type 163 New England Blackbutt
  - Type 219 Settlements, Roads, gravel Pits, etc.



Prepared by: Andrew Pitzen  
 Date: 15/7/2010

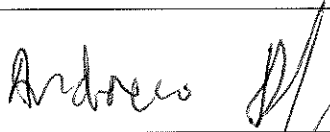
**FORESTS NEW SOUTH WALES - NORTH EAST REGION**  
**HARVESTING PLAN No. 3260**

**Girard State Forest - Compartments**

**1. Certification**

This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998 and addresses significant aspects and impacts in the planning process. The **Standard Harvest Plan Conditions for Native Forest Operations in North East Region** applies to this operation.

Prepared by:

Harvest Planner		Date: 30/7/10.
Andrew Pitzen		

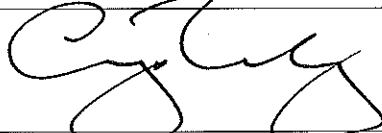
Endorsed by:

Harvest Planning Team Leader		Date: 30/7/2010
Steve Pickering		

Endorsed by:

Regional Planning Manager		Date: 12.8.10
John Murray		

Approved by:

Regional Manager		Date: 13/8/10
Craig Busby		

Note: Approval includes the Harvest Plan Operational Map (HPOM) version 1.

**2. Description of Proposal**

Selective harvesting of regrowth native forest stands using Single Tree Selection.

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached)
Post harvest Burning	Yes	Plan to be prepared separately
Rehabilitation	No	Plan to be prepared separately

**3. Area Identification and Yield Estimates**

Region	North East Region
Management Area	Tenterfield
State Forest	Girard
State Forest No.	303
Pricing area	Tenterfield Slopes
Other Tenure Details	NA

	Cpt 56	Cpt 57	Cpt 58	Cpt 63	Cpt 64	Total
Gross Area (ha)	87	82	85	49	113	416
Net Harvest Area (ha)	53	55	56	26	51	241
Estimated Yield (m <sup>3</sup> /ha)	20	20	20	20	20	20 Av.
High Quality Large m <sup>3</sup>	371	385	392	182	357	1687m <sup>3</sup>
High Quality Small m <sup>3</sup>	159	165	168	78	153	723m <sup>3</sup>
Low Quality m <sup>3</sup>	371	385	392	182	357	1687m <sup>3</sup>
Veneer m <sup>3</sup>	106	110	112	52	102	482m <sup>3</sup>
Pulp m <sup>3</sup>	53	55	56	26	51	241m <sup>3</sup>
TOTAL m <sup>3</sup>	1060	1100	1120	520	1020	4820m <sup>3</sup>

**4. Forest Description**

**Forest Type: (See Forest type map)**

- This area is dominated by tablelands species
- New England Blackbutt and Tallowood – Sydney Blue Gum types make up the majority of the harvest area except for the moist gullies that are dominated by Brush Box types.

**Harvest History:**

- This area was harvested around 1984 to 1986 and again in 1990 to 1993.
- These logging operations removed high quality quota logs and other products through single tree selection.

**Stand Age/Size Classes:**

- Mixed age structures consisting of mature trees and patchy young spar regrowth (premerchantable) resulting from the last harvesting events.

**Site Quality**

- Poor in upper slopes to better quality in lower slopes

**Stand Health - Good**

## 5. Silviculture and Harvesting Prescriptions

Notwithstanding the prescriptions detailed below, all conditions of the IFOA, including General and Species Specific conditions of the Threatened Species Licence and the Environment Protection Licence are to be applied, where they are described in this plan or in the respective licences.

### Objectives:

- Within the constraints contained elsewhere in this plan remove all merchantable timber from the mature age/size cohort
- Create suitable conditions for a regeneration event.

	Stand Description
	Mixed aged and Mixed Species
Treatment – current ops	Heavy STS
Est. % of NHA	100%
Expected BA Removal (%)	40%
Future Ops 15-20 years	Thinning

### Single Tree Selection prescription:

- Tree removal and ground disturbance must also maximise regeneration opportunities.
- Single Tree Selection must remove no more than 40% of the basal area across the net harvest area. Trees with dbhob <20cm must not be selected for harvesting under STS (1.5.10 IFOA).
- In areas designated for STS it is expected that the basal area removal across the tract will fall below 40 %. BA removal will exceed 40% in some localized areas, but will be balanced by non harvest areas and tree retention across the tract.

## 6. Special Conditions

### 6.1 Leases, Permits, Plots

	Occurs	Details	Conditions
Crown Leases	No		
Occupation Permits (grazing)	No		
Occupation Permits (apiary)	Yes	Site No's 1173, 1174, 1175 & 1180	Harvesting should aim to minimise impact on any occupied apiary site. If the presence of hives is unduly constraining harvesting, the Harvesting Forester will consult with the permittee to ensure that the impact on harvesting is minimised.
Occupation Permits (other)	No		
PGP's	No		
Research Plots/Plus Trees	No		
Special Purpose Permits	No		

## 6.2 Critical Boundaries

**Private Property:** adjoins the southern boundary of the harvest area. The boundary is Macleod's Creek

**Other critical boundaries:** Boundaries with adjacent compartment boundaries are defined by roads, ridge lines and drainage lines.

Macleod's Creek is protected by both a 50m Riparian protection zone as well as a 50m wildlife corridor (FMZ 2). The most onerous conditions of both the riparian and limited protection zones apply. See Harvest plan standard conditions for guidance

If there is any doubt about the location of a critical boundary, clarification must be sought from the harvest planning unit to determine the requirements for boundary mark-up

## 6.3 Underground Cables

- There is a Telstra cable that runs adjacent to Lohses Road.
- Site plans for the cable are held on the Harvest Plan Folder.
- Dial before you dig procedure must be followed prior any excavation or road maintenance works in this area to determine cable locations.

## 6.4 Haulage Considerations

- Haulage is planned to access the Bruxner Highway via Richmond Road northern exit (rest area turnoff). This route is not suitable for B-doubles (Bruxner Hwy is not a gazetted B-double route). Note: trucks cannot exit onto the Highway from Bowerbird Road eastern exit due to insufficient sighting distance.
- Additional signage should be used on Richmond Road exit onto the Bruxner Highway to notify traffic of turning trucks.

## 6.5 IFOA Required Approval Of Forestry Activities

Approvals have been obtained for the following activities / locations as shown on the operational map.

Crossing No.	Activity	Type	Conditions
Z	Snig track reopening & snigging	Riparian Protection Zone	Apply EPL Drainage, minimise removal of trees over 20 cm dbhob. Remove debris outside protection zone.
Y	Snig track reopening & snigging	Riparian Protection Zone	Apply EPL Drainage, minimise removal of trees over 20 cm dbhob. Remove debris outside protection zone.

- NOTE: Any additional crossings of Rainforest, HCVOG and Riparian Protection Zones require prior Regional Manager (or NPWS) approval before can be undertaken.
- It is the responsibility of the SFO to identify any additional areas that need to be crossed, the location of any such crossings without approval and to contact the Planning Unit to obtain the necessary approval.

## 6.6 Unmapped Rainforest

- Unmapped rainforest is to be identified and marked for retention in accordance with Forest Practices Circular 2005/02

**7. Forest Management Zoning Conditions**

The following Forest Management Zones and conditions apply:

FMZ	Type	Notes/Conditions
Zone 2	Special Management	Consists of Rainforest and High Conservation Old Growth (HCVOG) FMZ wildlife corridor 50m width from Macleods Creek. These areas must be protected as marked on the map.
Zone 3A	Harvesting Protection	High Conservation Old Growth Forest (HCVOG), Rainforest, New England Stringybark and New England Blackbutt Forest Type Protection. Protects sections of steep topography & non-commercial hardwood types and pockets of forest isolated due to other protection zones. These areas must be protected as marked on the map.
Zone 4	General Management	Available for harvesting in accordance with the conditions of this harvest plan.
Zone 8	Further Assessment	Consist of <ul style="list-style-type: none"> <li>• Modelled IHC 4 areas – assess actual slope in the field and exclude areas &gt;30 degrees in accordance with condition 3 of schedule 4 of the EPL</li> <li>• Mapped drainage features – identify in the field and apply EPL and TSL conditions based on actual field location,</li> <li>• modelled drainage features - require further assessment: Further assessment of the modelled streams is to be undertaken by the SFO. Appropriate prescriptions (Schedule 4 of the EPL) are to be applied if required and noted on the harvesting operational map.</li> </ul>

**8. Cultural Heritage Conditions**

**Aboriginal Cultural Heritage**

No special conditions apply

**Non Aboriginal Cultural Heritage**

Numerous mine sites exist along McLeod's Creek. These sites will not be impacted on by the harvesting activity as they are located on the creek edge within FMZ 2 protection area. Associated items may be located during harvesting activities. If detected do not disturb until a management prescription is developed.



**9. Flora and Fauna Conditions**

Refer to Technical Guidance Note 2005-3A March 2005 for conditions (TSL Booklet)

**Mark-up Conditions**

The SFO must search for threatened species and mark-up the block as per Conditions 5.1 (General) and 5.2 (Koala) of the TSL. The Tree Marking code is shown in the Standard Harvest Plan Conditions for Native Forest Operations in North East Region.

**Tree retention conditions applying:**

Prescription	TSL Condition
Hollow bearing and recruit trees	(Non-Regrowth Zone) 5.6 a,b
Greater Glider density > 1 per ha?	No – 6.9 d does not apply
Stag Retention	5.6e
Significant Food Resources	5.6f
Protection of Retained Trees	5.6g

**Species Known or Likely to Occur**

- Recent and reliable records exist within, or within close proximity of the compartments for the following threatened species. These species require species-specific or site-specific prescriptions if further records or habitat features are identified during mark-up.

Species Group	Common Name	Scientific Name
Amphibians	Stuttering Frog	<i>Mixophyes balbus</i>
	Giant Barred Frog	<i>Mixophyes iteratus</i>
Reptiles	Nil	
Mammals	Golden-tipped Bat	<i>Kerivoula papuensis</i>
	Spotted-tailed Quoll	<i>Dasyurus maculatus</i>
	Yellow-bellied Glider	<i>Petaurus australis</i>
Birds	Masked Owl	<i>Tyto novaehollandiae</i>
	Powerful Owl	<i>Ninox strenua</i>
	Sooty Owl	<i>Tyto tenebricosa</i>
	Glossy-black Cockatoo	<i>Calyptorhynchus lathami</i>

Site-Specific Conditions, Exclusion Zones & Modified Harvest Areas

Table 1: General Prescriptions

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Koala Mark-up Searches	5.2.2	Nil Records – continue search	In compartments that contain preferred forest types, marking-up must be conducted at least 300m in advance of harvesting operations. In the event that a koala or scats (as noted in 5.2.2(i)) are found, a koala star search will be conducted to determine koala use area/s.
Tree Retention	5.6 (f),(g)	2 GLBC feed trees in cpt T 57	Retain and protect glossy black cockatoo feed trees.
Rocky Outcrops and Cliffs	5.11	1 rock outcrop 150X50m recorded in Cpt T 57	SFA prohibited from feature, 20m protection buffer if > 0.1ha (approx. 30m x 30m).
Burning	5.16	Threatened species have been recorded in these cpts.	The habitat requirement of threatened species must be taken into account when instigating hazard reduction burns to promote and maintain an understorey mosaic, significant areas of dense understorey vegetation and to minimise impact on large fallen logs.
Ground Habitat Protection	5.17 (a)	CWRV + small mammals reptiles	To the greatest extent practical, protect ground habitat from SFA. Ground habitat includes understorey vegetation, ground cover vegetation, leaf litter and fallen timber.
	5.17 (b)	Larger CWRV	Commercial Firewood collection is not permitted
	5.17 (d)		Firewood licences state that timber with hollows and/or over 40 cm diameters must not be collected or damaged.

Table 2: Species Specific Prescriptions (record and survey based)

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Giant barred Frog ( <i>Mixophyes iteratus</i> )	6.3	1 MIX ITE record in Cpt T_64	Protection zone of 30m on both sides of all streams within 200m of record as mapped.
Stuttering Frog ( <i>Mixophyes balbus</i> )		2 MIX BAL records in cpts T_56, 63	
		1 Previous MIX BAL within 200m of Cpt T_56	
Powerful Owl ( <i>Ninox strenua</i> )	6.9	20 previous POWL records in and within 2km of cpts T_56, 57, 58, 63, 64	Search gully lines and heads of gullies for roost and nest sites. Condition 5.13 may be applicable to protect any roosts or nests found. Landscape approach as specified in 6.9.2 will be used.
Masked Owl		1	

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
<i>(Tyto novaehollandiae)</i>		MOWL record in Cpt T_58 3 previous MOWL records within 2km of cpts T_56, 57, 58, 63, 64	
Spotted-tailed Quoll <i>(Dasyurus maculatus)</i>	6.15	2 TIQU scat records in Cpt T_57	Search for maternal dens, permanent dens and latrine sites. If found, stop all SFA immediately and notify Harvest Planner and/or Ecologist.
Yellow-bellied Glider <i>(Petaurus australis)</i>	6.17	3 previous YEBG call detection records within 200m of cpts T_56	Protection of 50m on dens. Retention of all sap feed trees. Within 100m of above and observation records, 15 feed trees must be retained. Within 200m of call detection site, 15 feed trees must be retained. Retained trees must be of same species as tree with den, feed marks or observation or should be species that shed their bark in long strips.
Golden-tipped Bat <i>(Kerivoula papuensis)</i>	6.20	1 previous GOTB record in Cpt T_64	Protection zones of 30m on all 1 <sup>st</sup> and 2 <sup>nd</sup> order streams within 200m of all records as mapped.

In addition to Forest Management Zone Exclusions, the following exclusion zones occur and are shown on the operational map.

Riparian Protection (TSL Condition 5.7)

Ridge and Headwater Habitat (TSL Condition 5.8)

Boundary marking conditions for each exclusion zone are described on the HPOM and in the tree marking code (see Standard Harvest Plan Conditions for Native Forest Harvesting in North East Region).

#### 10. Fisheries Licence Conditions

Refer to Technical Guidance Note 2005- 02 March 2005 (Fisheries Licence Booklet)

Class 1 Aquatic Habitat (Eastern Freshwater Cod) has been identified as occurring within these compartments. Conditions of the Fisheries Licence apply.

Condition 7.9 of the Fisheries Licence apply to snig track crossings of mapped and unmapped drainage lines.

- A pre-logging aquatic habitat assessment of the site of each proposed crossing may be required prior to use. Consultation with the harvest planner is required prior to construction and use.
- Crossings must be approved and marked in the field prior to use
- Crossings may only be used where it is not reasonably practicable to use another route or site.
- Conditions 8.3 and 8.4 of the Fisheries Licence may apply to crossings.

#### 11. Soils and Water Protection Conditions

Refer to Technical Guidance Note 2005- 1C (Environment Protection Licence Booklet) & Standard Harvest Plan Conditions for Native Forest Harvesting in North East Region  
Site-specific EPL conditions –

Elements	Conditions
Unmapped Drainage Lines	EPL Conditions Apply
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	2 EPL CONDITIONS APPLY
Dispersible Soils	NA
Mass Movement	NA
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See schedule 5 of EPL Booklet
Non-Haulage Roads	May be used for extraction EPL applies Remove debris on completion of operations

### 12. Legal Conditions

This operation must comply with:

- Standard Harvest Plan Condition for Native Forest Operations in North East Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests February 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- Integrated Forestry Operations Approval issued under part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended May 2003 including the associated licences:
  - Threatened Species Conservation Licence (TSL) issued under the Threatened Species Conservation Act (1995) as amended May 2003
  - Licence issued under section 220ZW of the Fisheries Management Act 1994 (FL) as amended May 2003
- This operation is a non-scheduled operation under the Environment Protection Licence issued under section 55 of the Protection of the Environment Operations Act 1997. Roding and harvesting operations are not licenced. All EPL conditions will apply to harvesting and roding operations.

### 13. Attachments

- Attachment 1: Locality map
- Attachment 2: Harvest Plan Operational Map
- Attachment 3: Forest Type Map
- Attachment 4: Site Safety Plan (prescribes describes safety requirements and Medical Emergency Evacuation Plan for this harvesting operation.)
- Attachment 5: Roadworks Plan (prescribes roding requirements for this harvesting operation.)

**14. Pre-Operational Briefing**

I acknowledge that I have received a copy of the Harvesting Plan for Compartments 56, 57, 58, 63 & 64 in Girard State Forest and that I have been briefed on the conditions of the Plan. I understand the supervision and operational control requirements as outlined in the plan.

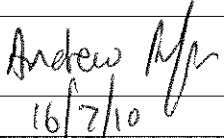
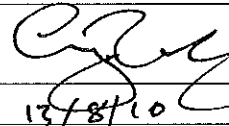
Position	Name	Signature	Date

## FORESTS NEW SOUTH WALES – NORTH EAST REGION

### ROAD WORKS PLAN

State Forest Girard; Compartments 56, 57, 58, 63  
& 64

#### CERTIFICATION

Prepared By: Harvest Planner	Andrew Pitzen	Approved By: Regional Manager	Craig Busby
Signature		Signature	
Date	16/7/10	Date	13/8/10

#### 1. OBJECTIVES

Roadworks are required to service native harvesting operations within the above compartments. These compartments are scheduled for harvest in late 2010.

The operational map shows the location of the proposed works.

**Attachments: Financial Analysis Spreadsheet** gives full details of costs, benefits, material & plant requirements

#### 2. SPECIFICATIONS AND LEGAL CONDITIONS

This operation must comply with:

- Standard Harvest Plan Conditions for Native Forest Operations in North East Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests February 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- Integrated Forestry Operations Approval issued under part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended May 2003 including the associated licences:
- Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act (1995) as amended May 2003
- Licence issued under section 220ZW of the Fisheries Management Act 1994 (FL) as amended May 2003
- This operation is a non-scheduled operation under the Environment Protection Licence issued under section 55 of the Protection of the Environment Operations Act 1997. Rooding and harvesting operations are not licensed. All EPL conditions will apply to harvesting and rooding operations.
- Technical Guidance Notes for Roadworks.

### 3. SPECIAL CONDITIONS

Feature	Conditions
Cultural Heritage	Yes – Numerous mine sites exist along McLeod's Creek. These sites will not be impacted on by the roading activity as they are located on the creek edge outside the operational area. Associated items may be located during roading activities. If detected do not disturb until a management prescription is developed.
Threatened Species	No
Dispersible Soils Hazard	No
Mass Movement Hazard	No
Seasonality	No
Engineering Design	No
Environmental impacts ie Dust, Noise, Water, Visual	No
Haulage Standards	No
National Park	No
Private Property	No
Permit To Enter required	No
Quarries and Gravel Pits	No
Underground/Overhead Utilities	Yes – Telstra lines exist within the area. A Telstra map is located in the plan folder which gives the location of the utilities. A cable locator may be required if disturbance is needed where the line exists.
Safety Issues (includes hazards, public use of roads)	See Hazard Assessment in the Site Safety Pack
Fisheries Licence	Crossing M has been identified as a Class 1 habitat under the licence. No works to commence on this crossing until design has been approved by NSW Fisheries. An amendment will be issued containing NSW Fisheries approved design construction requirements.

### 4. GENERAL CONDITIONS

Remove trees in accordance with FNSW Safety Standard 1.3.9; and

Remove vegetation within 3m of the road prism **only where required** to maintain safe sight distance and passage of trucks.

**Note:** Clearing is generally permitted within 3m of the road prism for all roads. Ground disturbance and tree debris may impact outside this 3m either side of the road prism as is required to effect clearing within 3m of the road prism. Conditions 5, 6 and 47 Schedule 5 of the EPL must apply







## ROAD MAINTENANCE / UPGRADE

Road Name: 56/1 Trail Road Category: Temporary Road Length 900m from Lohses Road to dump 5.

	WORKS	REQUIRED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input checked="" type="checkbox"/>	Remove vegetation
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5.
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	In accordance with general condition 5.
	Repair/upgrade of Batters	<input checked="" type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	
	ROD / Spoon	<input checked="" type="checkbox"/>	
	Belts/Channels	<input checked="" type="checkbox"/>	Install 4 rubber flaps
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

Start Date:

Finish Date:

Date	Event	Initial

**ROAD MAINTENANCE / UPGRADE**

Road Name: 63/1 Trail Road Category: Temporary Road Length 450m from Beech Road to dump 9.

	WORKS	REQUIRED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input checked="" type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5.
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	In accordance with general condition 5.
	Repair/upgrade of Batters	<input checked="" type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	
	ROD / Spoon	<input checked="" type="checkbox"/>	
	Belts/Channels	<input checked="" type="checkbox"/>	Install 2 rubber flaps
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

Start Date:

Finish Date:

Date	Event	Initial

**ROAD MAINTENANCE / UPGRADE**

Road Name: 58/1 Trail Road Category: Temporary Road Length 300m from Lohses Road to Dump 8.

	WORKS	REQUIRED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input checked="" type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5.
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	In accordance with general condition 5.
	Repair/upgrade of Batters	<input checked="" type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	
	ROD / Spoon	<input checked="" type="checkbox"/>	
	Belts/Channels	<input checked="" type="checkbox"/>	1 Rubber Flaps
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

Start Date:

Finish Date:

Date	Event	Initial

**ROAD MAINTENANCE / UPGRADE**

Road Name: 64/1 Road Road Category: Temporary Road Length 700m from Beech Road to Dump 12.

	WORKS	REQUIRED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input checked="" type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5.
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	In accordance with general condition 5.
	Repair/upgrade of Batters	<input checked="" type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	
	ROD / Spoon	<input checked="" type="checkbox"/>	
	Belts/Channels	<input checked="" type="checkbox"/>	10 Rubber Flaps
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

Start Date:

Finish Date:

Date	Event	Initial

**ROAD MAINTENANCE / UPGRADE**

Road Name: 64/2 Road Road Category: Temporary Road Length 200m from 64/1 Road to Dump 11.

	WORKS	REQUIRED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input checked="" type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5.
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	In accordance with general condition 5.
	Repair/upgrade of Batters	<input checked="" type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	
	ROD / Spoon	<input checked="" type="checkbox"/>	
	Belts/Channels	<input checked="" type="checkbox"/>	4 Rubber Flaps
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

Start Date: .

Finish Date:

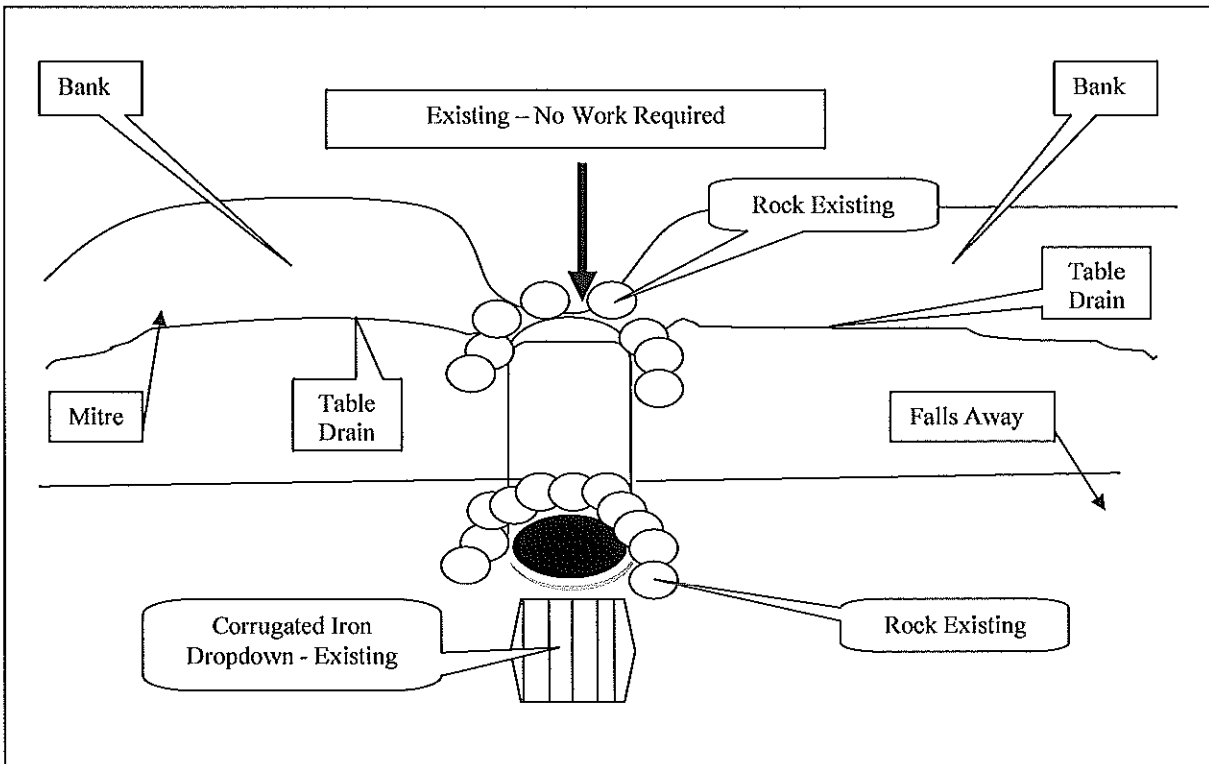
Date	Event	Initial

## CROSSING WORKS

Crossing Name: A – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe) 500mm	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Pipe 500mm	5-30m Upstream left	Mitre - existing 8m
Disposal of spoil	NA	5-30m Upstream right	falls away - existing
Inlet/Outlet	Clean	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation - existing
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

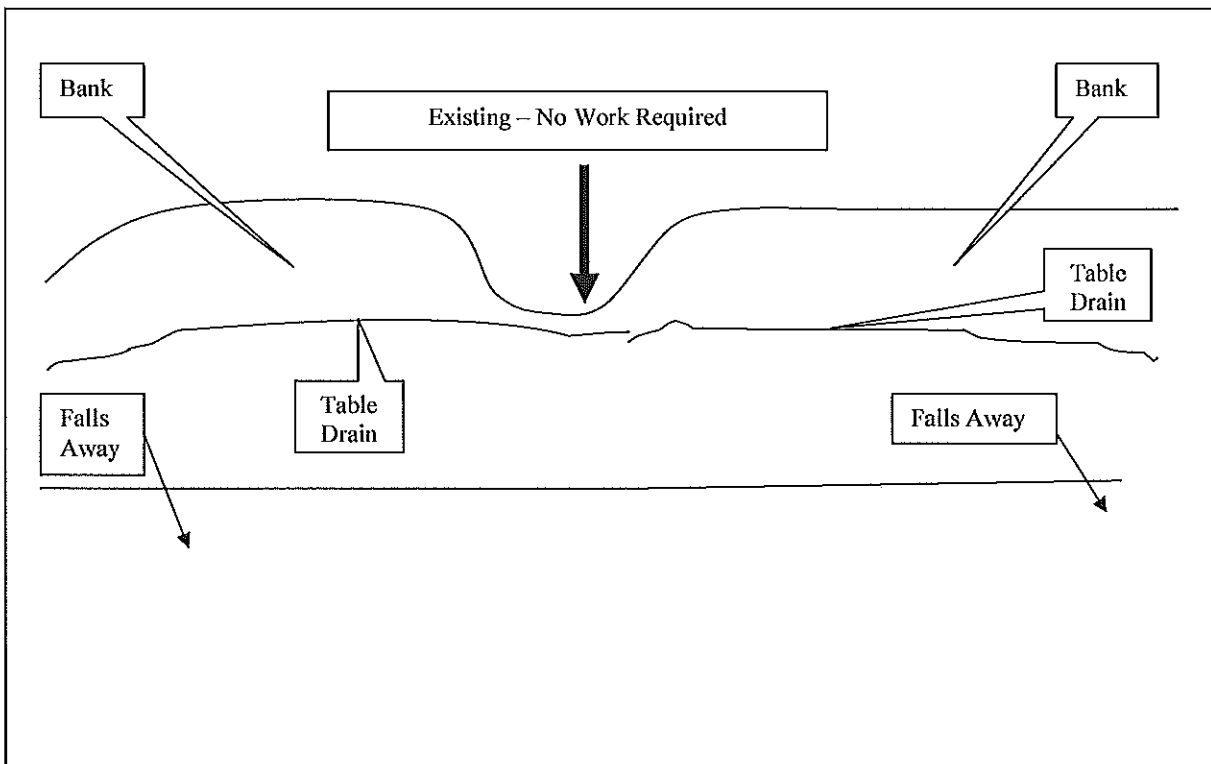
Date	Event	Initial

## CROSSING WORKS

Crossing Name: B – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Causeway	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Existing	5-30m Upstream left	falls away
Disposal of spoil	NA	5-30m Upstream right	falls away
Inlet/Outlet	Nil	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:                      Finish Date:                      Soil Stabilisation Date (must be within 5 days):

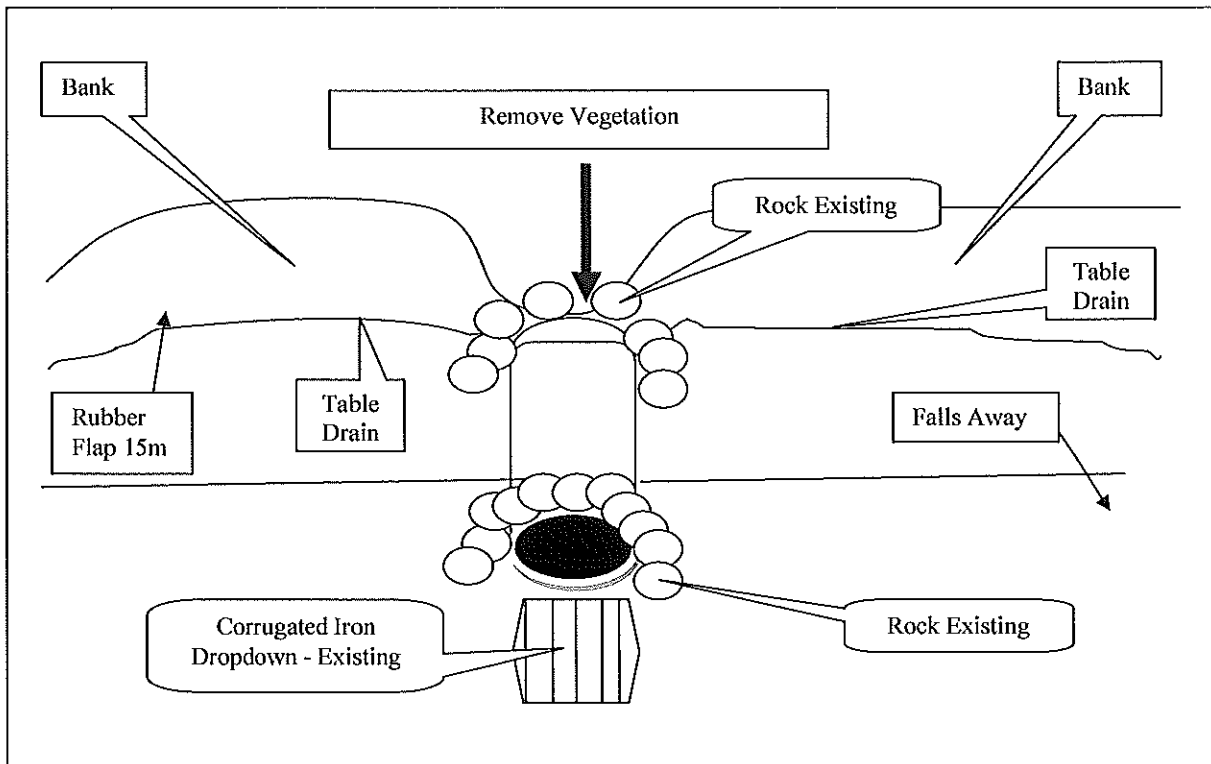
Date	Event	Initial



Crossing Name: C – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	1st Order DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Pipe 500mm	5-30m Upstream left	Install Belt/Channel - 15m
Disposal of spoil	NA	5-30m Upstream right	falls away - existing
Inlet/Outlet	Existing	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation - existing
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:                      Finish Date:                      Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

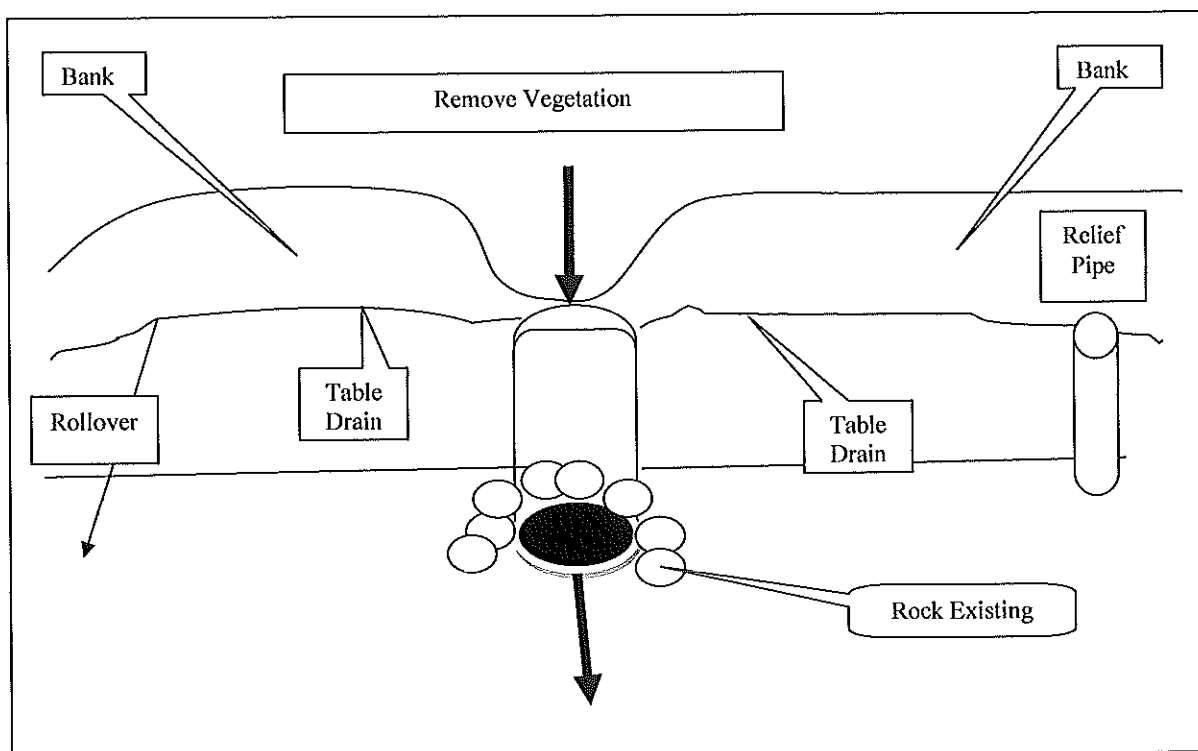


## CROSSING WORKS

Crossing Name: E – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Remove vegetation in drain	Approach Works	Nil
Pavement/structure	Nil	5-30m Upstream left	Rollover -15m
Disposal of spoil	NA	5-30m Upstream right	Relief Pipe – 10m
Inlet/Outlet	Rock existing	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

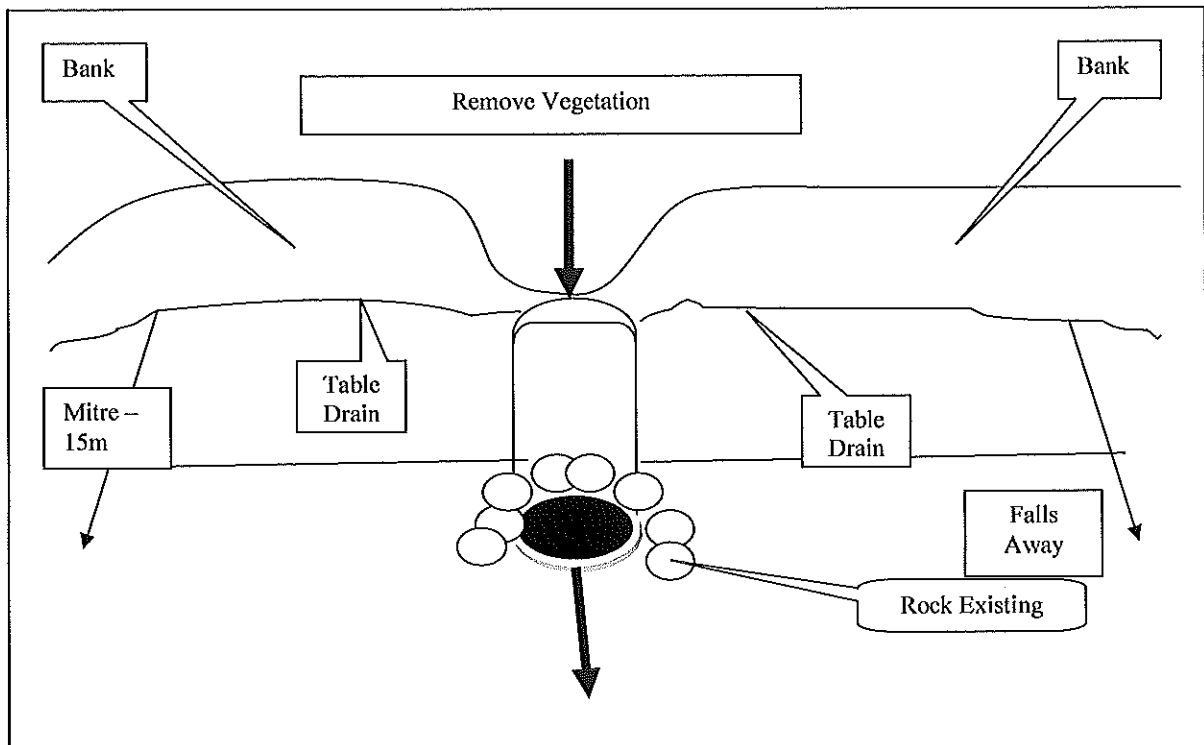
Date	Event	Initial

## CROSSING WORKS

Crossing Name: F – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe) - 500mm	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Stable	5-30m Upstream left	Mitre - 15m
Disposal of spoil	NA	5-30m Upstream right	falls away
Inlet/Outlet	Clean	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Rock armouring - existing
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

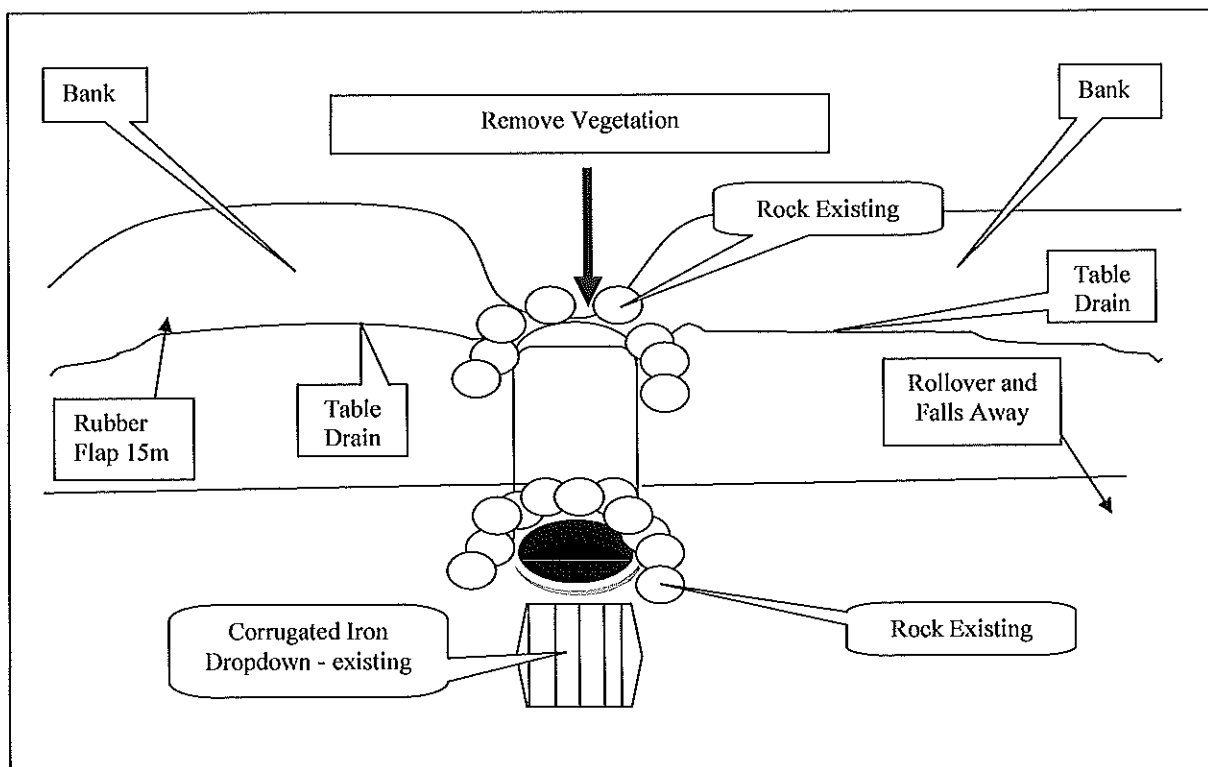
Date	Event	Initial

## CROSSING WORKS

Crossing Name: G – Lohses Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	Unmapped DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Current pavement to be ripped and reformed to remove rutting	5-30m Upstream left	Install Belt/Channel - 15m
Disposal of spoil	NA	5-30m Upstream right	Rollover
Inlet/Outlet	Rock existing	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:                      Finish Date:                      Soil Stabilisation Date (must be within 5 days):

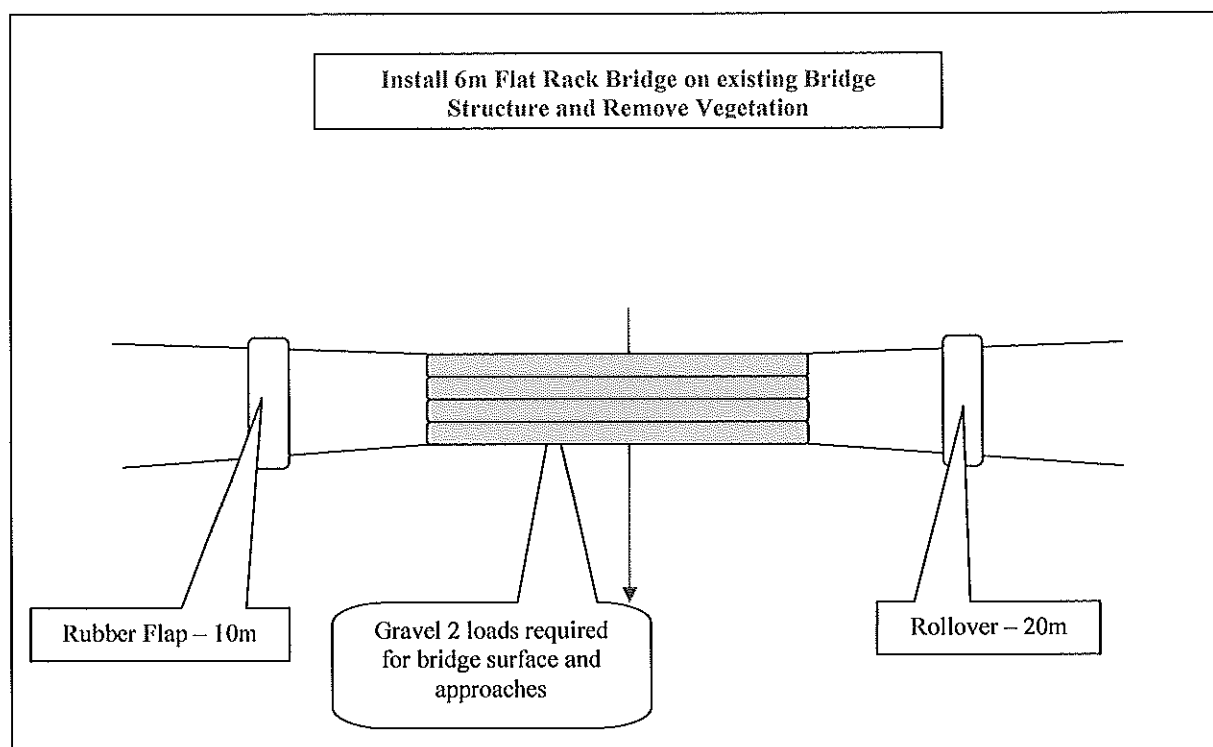
Date	Event	Initial

## CROSSING WORKS

Crossing Name: H – Beech Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Bridge	Existing	Permanent	2nd order DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Gravel 2 loads required	5-30m Upstream left	Install Rubber Flap – 10m
Disposal of spoil	NA	5-30m Upstream right	Rollover – 20m
Inlet/Outlet	Nil	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Native vegetation
Soil erosion/sediment control		Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

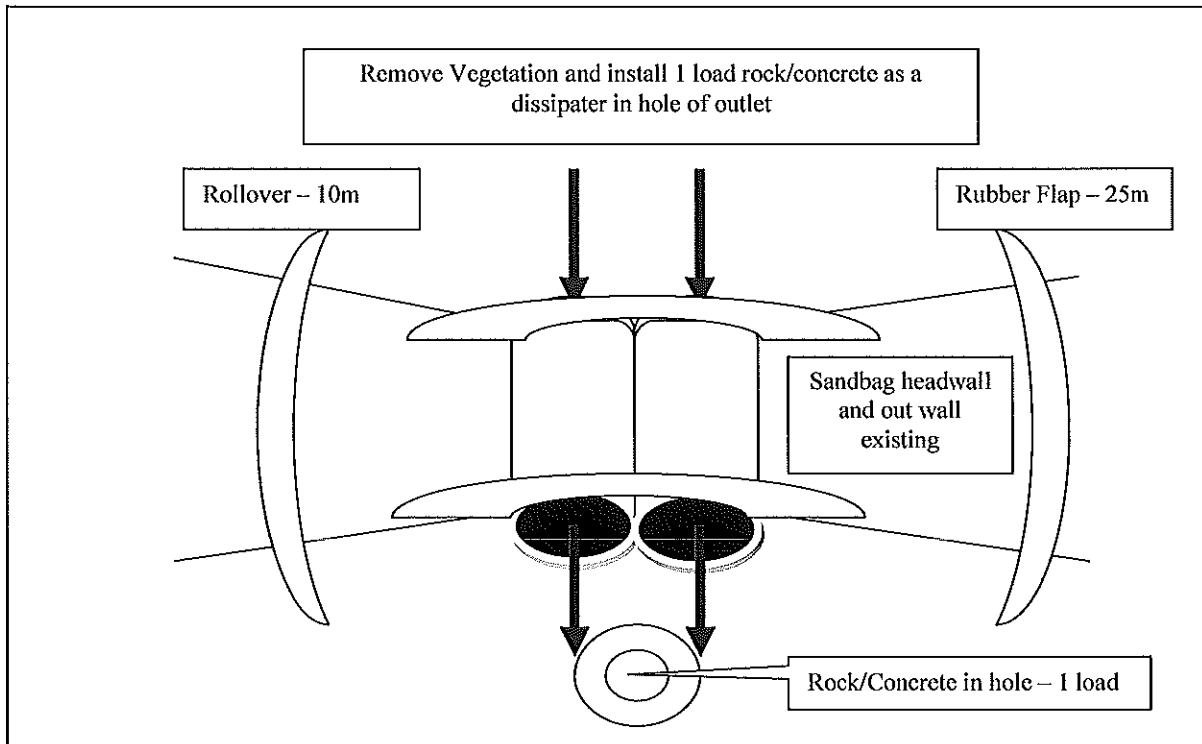
Date	Event	Initial

## CROSSING WORKS

Crossing Name: I – Beech Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe) - Twin	Existing	Permanent	2nd order DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Regrade	5-30m Upstream left	Rollover - 10m
Disposal of spoil	NA	5-30m Upstream right	Install Belt/Channel - 25m
Inlet/Outlet	Sandbag inlet/outlet existing 1 load of rock/concrete dissipater	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

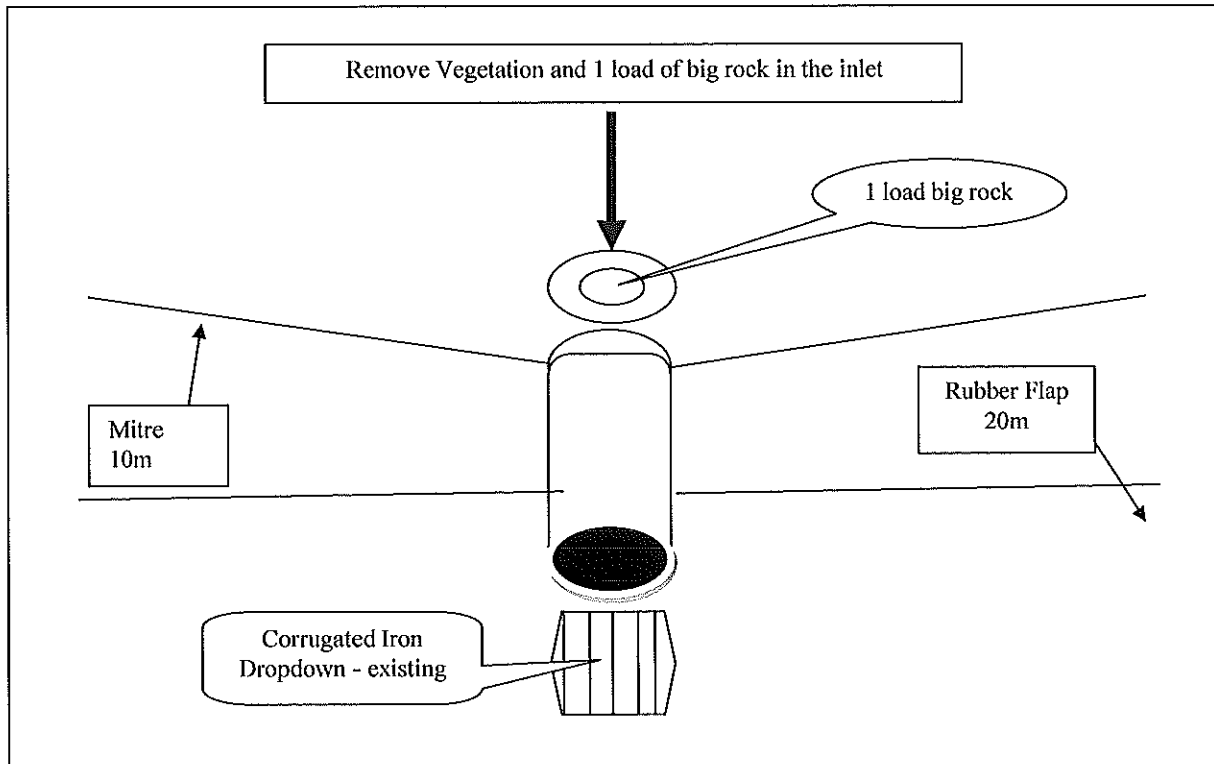
Date	Event	Initial

## CROSSING WORKS

Crossing Name: J – Beech Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	Unmapped DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Existing pavement to be graded	5-30m Upstream left	Mitre - 10m
Disposal of spoil	NA	5-30m Upstream right	Belt/Channel - 20m
Inlet/Outlet	Sandbag existing, corrugated iron dropdown. 1 load of rock required in inlet	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:                      Finish Date:                      Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

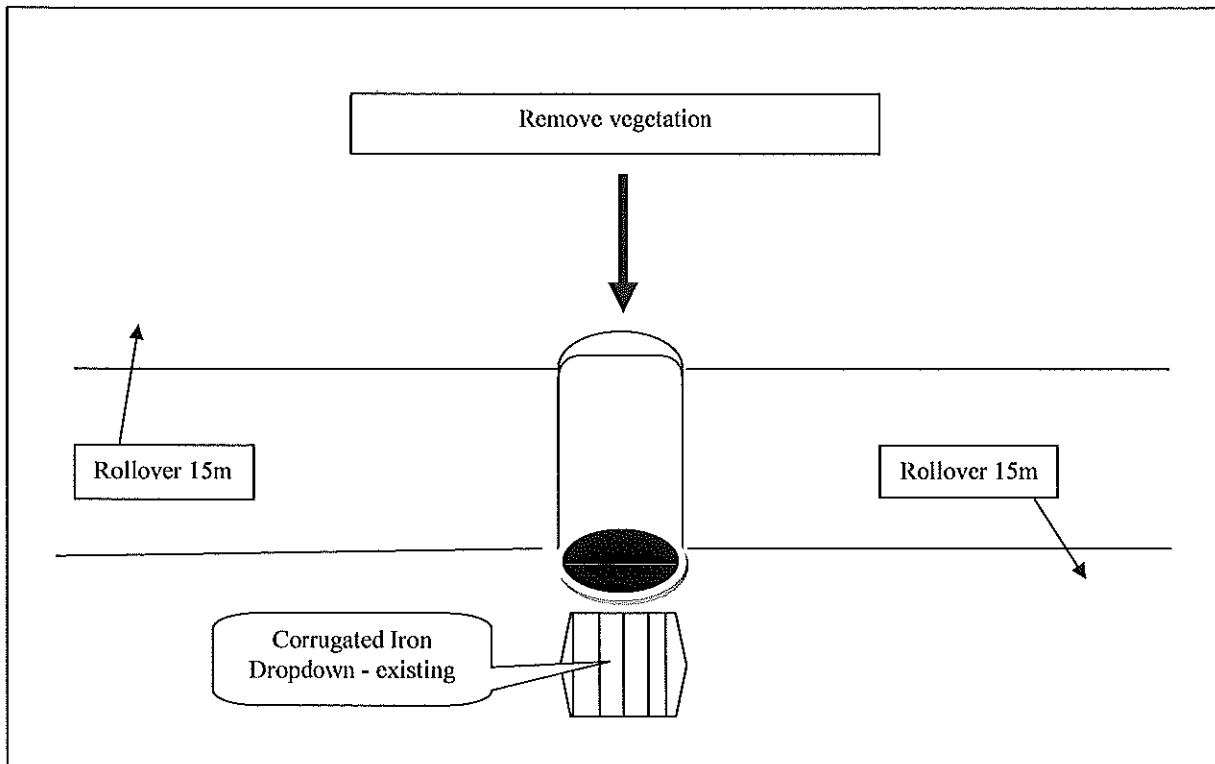


## CROSSING WORKS

Crossing Name: K – Beech Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	existing	5-30m Upstream left	Rollover - 15m
Disposal of spoil	NA	5-30m Upstream right	Rollover - 15m
Inlet/Outlet	Sandbag existing, corrugated iron dropdown	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

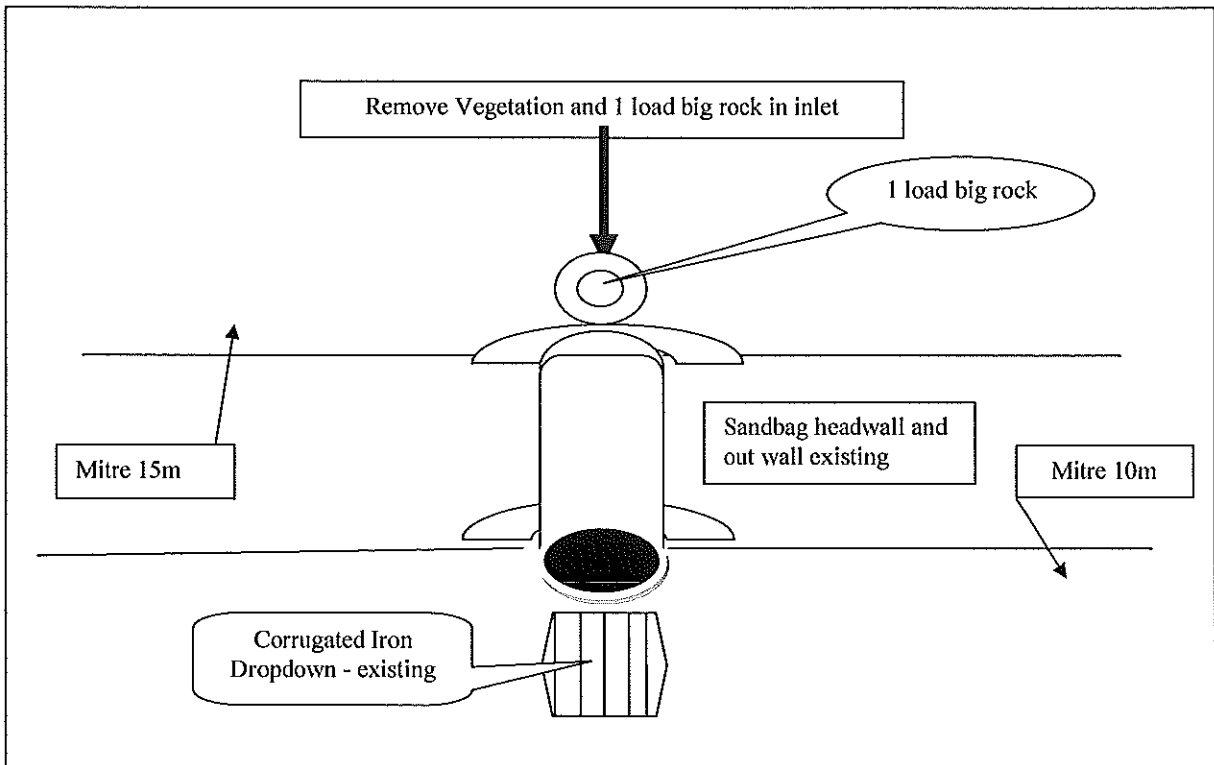
Date	Event	Initial

## CROSSING WORKS

Crossing Name: L - Beech Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	Depression	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Nil	Approach Works	Nil
Pavement/structure	Existing pavement to be graded	5-30m Upstream left	Mitre - 15m
Disposal of spoil	NA	5-30m Upstream right	Mitre - 10m
Inlet/Outlet	Big rock 1 load - inlet	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

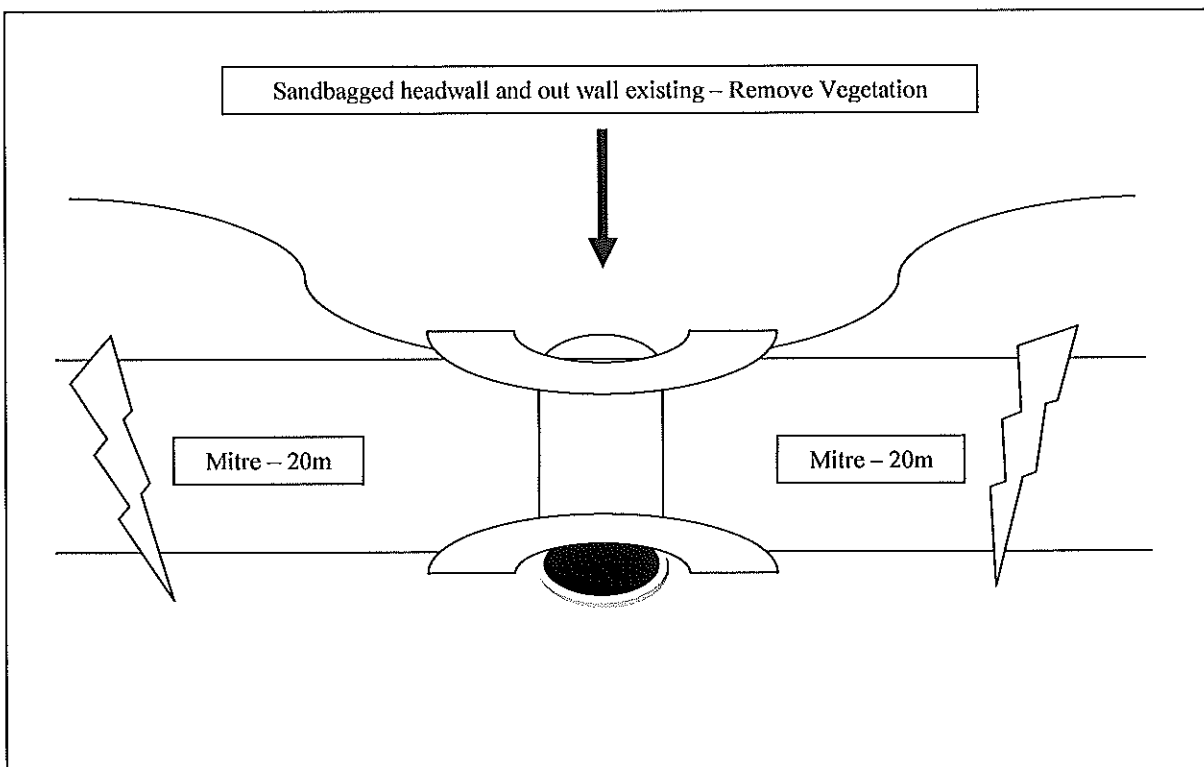
Date	Event	Initial

## CROSSING WORKS

Crossing Name: P – 58/1 Road

Crossing Type	Existing / New	Future of Crossing	Drainage Feature Type	Stream Permanency
Culvert (Pipe)	Existing	Permanent	1st Order DL	Intermittent

Crossing		Approaches & Road Drainage	
Reshaping Bed & Banks	Remove vegetation	Approach Works	Nil
Pavement/structure	NA	5-30m Upstream left	Mitre - 20m
Disposal of spoil	NA	5-30m Upstream right	Mitre - 20m
Inlet/Outlet	Sandbag headwalls existing and Native Vegetation	Practices where no 5-30m	NA
Soil Stabilisation within 20m	Nil	Outlet control	Natural Vegetation
Soil erosion/sediment control	Natural Vegetation	Table drain silt control	Natural Vegetation



Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

**Pre Operational briefing**

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 56, 57, 58, 63 & 64, Girard State Forest, and that I have been briefed on the conditions of the Plan and understand the supervision and operational control requirements as explained to me by the Forest Planner or his/her delegate.

Inducted By (Signature):		Name:	
	<b>Harvest Planner</b>	Date:	
Signature:		Name:	
Position	<b>Roading Co-Ordinator</b>	Date:	

**Staff/Contractor Acknowledgment**

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 56, 57, 58, 63 & 64, Girard State Forest and that I understand the conditions of the Plan as explained to me by a Forests NSW officer.

**Personnel attending Induction**

Personnel (Print Name and sign)	Date	Inducted By (Print Name and sign)	Date

This pre operation briefing must be returned to NER on completion of Operations and filed with the official copy of the plan.