



## FOREST COMMISSION ROAD SPECIFICATION

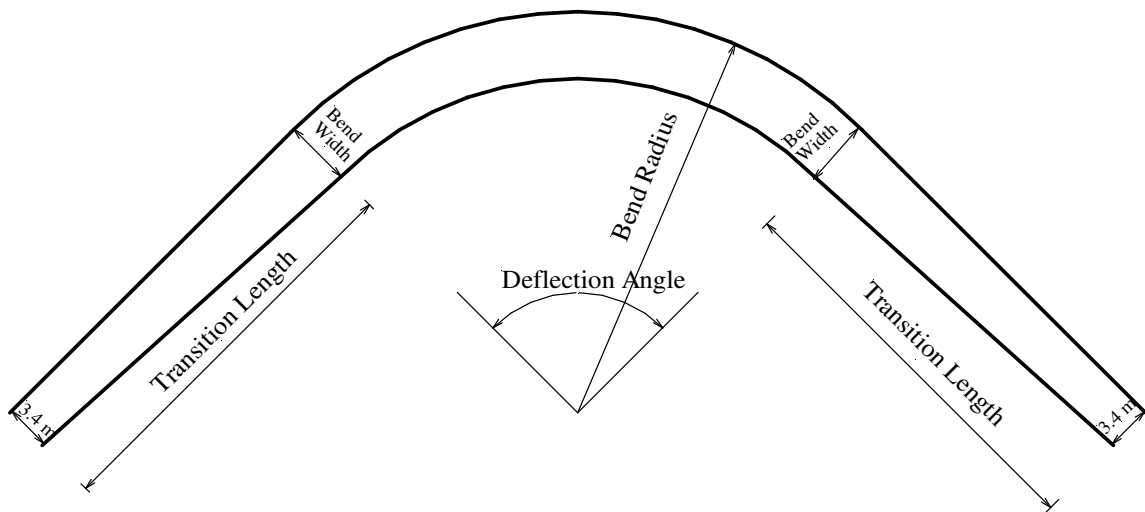
The current specification for forest roads in the public sector is as follows:

Design speed	25 km/h.	
Design Loading	Full C&U (currently 44 tonnes)	
Road Width	3.4 m (+/- 200mm) - widened on inside of bends to suit radius.	
Felled width	25 m recommended.	
Max gradient	10% with small lengths (<200m) up to 12.5% allowable with caution.	
Min gradient	2% recommended.	
Facilities	Passing places, turning places, harvesting facilities supplied as required.	
Road construction depth	Chosen by relation to CBR of sub-grade. Varies from 150mm to >850mm.	
Construction	Normally waterbound. Material as available.	
Surfacing	As required. Good quality material. Normally waterbound, occasionally bituminous. Depends to some extent on classification.	
Cross slope (camber or crossfall)	4.5% recommended minimum. Above 8% only to be used with care.	
Geosynthetic	Used occasionally for particular reason	
Culverts	Minimum size 300mm although 450mm preferred. Spacing as required.	
Road classification	Class A	Main road
	Class B	Spur road
	Class C	Other road
	Class C not normally used for harvesting.	

## HORIZONTAL BEND RECOMMENDED WIDTHS AND GRADIENTS

Outside Radius	Minimum Widths For Maximum Angle of Deflection (°)				Transition Straight Length	Maximum Desirable gradient on outside radius
	15	45	90	180		
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	Running surface width					
m	m	m	m	m	m	%
90	3.8	3.8	3.8	3.8	-	10
60	4.0	4.0	4.0	4.1	20	8
45	4.0	4.2	4.5	4.5	20	7
30*	4.0	4.7	5.0	5.1	25	6.5
25		4.8	5.1	5.3	30	5
20		5.0	5.6	5.9	30	4.5
15			6.3	7.0	40	4
10***				10.0	40	3

- \* Preferred minimum radius
- \*\* Figures based on experience



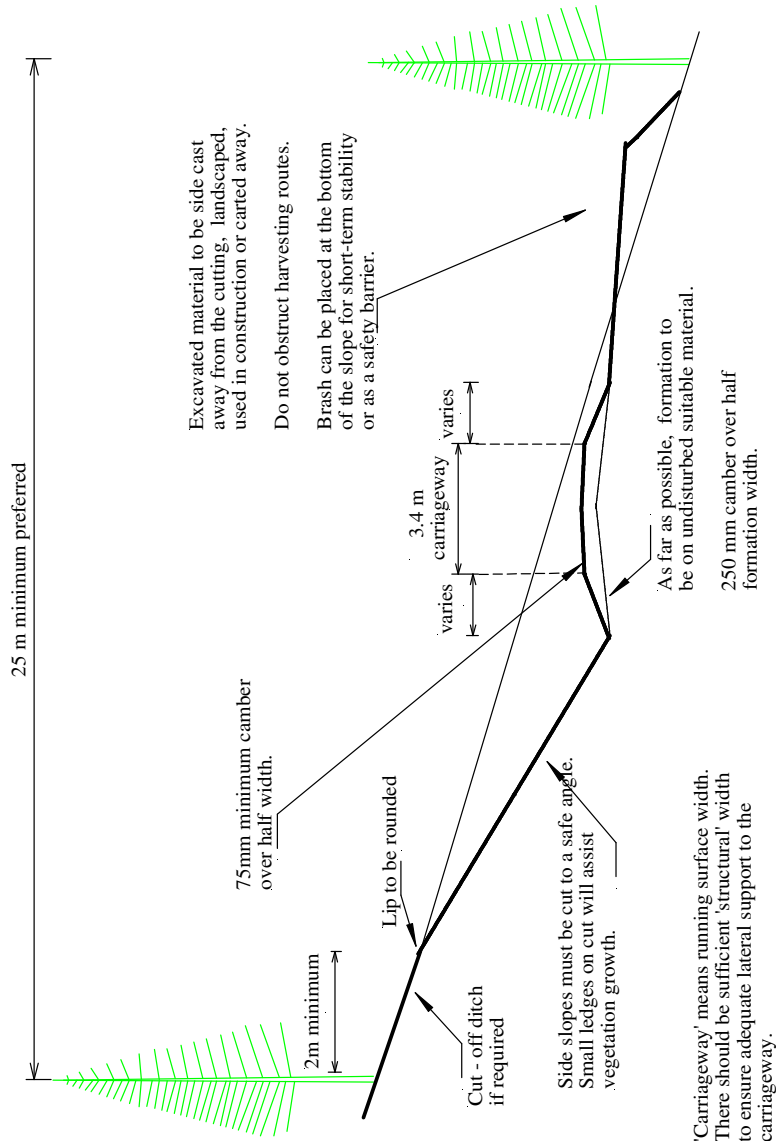
### Bend Widening

- \*\*\* Absolute minimum hairpin



## EXAMPLE CROSS SECTION

### Typical Road Cross - Sectional Details



### Cross Fall up to 20 Degrees