

Downham to Chatburn: Concessionary Bridleway

Aim: to create a new off-road multi-use link between the villages of Downham and Chatburn. The one kilometre connection would accommodate walkers, cyclists, horse riders and those with mobility issues including chair users.

Proposal: Build a 2.5 metre wide gravel track along the field edge adjacent to Chatburn Road, separated by hedge/wall boundaries. The route would be constructed using the 'least restrictive' principle; reducing physical barriers and opening gates.

Project Summary:

- 805 metres – stone footpath
- 710 metres – wire boundary fencing
- 10 metres post and rail fencing
- Farm gates
- Associated signage

Stone Footpath

- Built from locally sourced gritstone the graded construction will integrate organic material and grass seed within the wearing surface to create a bound and green top
- The path will be raised above surrounding ground.
- To include cambers and cross-falls as dictated by ground conditions.
- Nominal width – 2.5 metre construction within a 3.5 metre fenced width

Boundary Fencing

- Galvanised sheep netting with single plain top wire

Gate Systems

- Timber field gates added to new fenceline for farm field access

Section 1: Downham – Chatburn Road crossing Green Lane: 116 metre length

Refer to technical drawings and design notes for further design specifications

No	Item Description	Unit	Qty	Rate	Amount £
Removal / take-down / re-build					
1	Take down 3.5m dry stone wall at Green Lane Re-build mortared cheek-end to wall	Item			
2	Remove and dispose 3.5m roadside hawthorn hedge Trim back and dispose overhanging tree branches to 55m field section between Chatburn Road/Green Lane	Item			
3	Remove 3.5m dry stone wall at junction of Chatburn Road/Green Lane. Re-build mortared cheek-end to wall.	Item			
4	Remove and dispose posts and top barb in first field	M	55		
Bridleway Construction					
1	Machine scrape a shallow tray: 2.5m x 114m x 75mm depth – grade arisings locally as directed	M3	20		
2	Lay geotextile – Terram 1000 or similar	M2	305		
3	Import, lay and consolidate 2 x layers - 75mm clean stone	M2	37		
4	Import, lay and consolidate 1 x layer: 30–40mm clean stone to bind with 75mm base stone	M3	11		
5	Import and lay 2 x layers - 30mm to dust gritstone	M3	11		
6	Hand broadcast 10mm depth of topsoil onto the surface	M3	3		
7	Hand broadcast grass seed @ 35g/M2 - lightly roll	Kg	10		
Boundary Fencing & Field Gates					
1	<ul style="list-style-type: none"> Create gap to existing fence in second field to allow for road crossing Splay last 5m fence away from hedge line and return to roadside with 8m post and rail fence. Re-tension each end of existing fence to new strainer posts Replace 36m barb wire on existing fence with 4mm plain wire 	Item Item Item			
2	Construct galvanised stock net fencing C8/80/15 with 4mm plain wire top.	M	116		
3	Place within new fenceline; 'Downham' design 10' field gates directly opposite two existing gates	No	2		
Holding Areas					
1	Supply materials and construct holding areas to three road crossings	No	3		
Sub Total					
+10%					
Total					

Section 2: Downham – Green Lane junction to Woodland: 195 metre length

Refer to technical drawings and design notes for further design specifications

No	Description	Unit	Qty	Rate	Amount
Removal / take-down / re-build					
1	<ul style="list-style-type: none"> Take down 3 x wire fence lines to central section and woodland to accommodate track width Re-tension to new strainer posts x 3 wire lengths 	Item			
Bridleway Construction					
1	Machine scrape a shallow tray: 2.5m x 195m x 75mm depth – grade arisings locally as directed	M3	37		
2	Lay geotextile – Terram 1000 or similar	M2	515		
3	Import, lay and consolidate 2 x layers - 75mm clean stone	M3	64		
4	Import, lay and consolidate 1 x layer: 30–40mm clean stone to bind with 75mm base stone	M3	15		
5	Import and lay 2 x layers - 30mm to dust gritstone	M3	20		
6	Hand broadcast 10mm depth of topsoil onto the surface	M3	5		
7	Hand broadcast grass seed @ 35g/M2 - lightly roll	Kg	17		
Boundary Fencing & Field Gates					
1	Construct galvanised stock net fencing C8/80/15 with 4mm plain wire top.	M	195		
2	Place within the fenceline a 'Downham' design 12' field gate directly opposite existing gate	No	1		
Holding Area					
Additional					
				Sub Total	
				+10%	
				Total	

Section 3: Downham – Woodland to Greenvale: 165 metre length

Refer to technical drawings and design notes for further design specifications

No	Description	Unit	Qty	Rate	Amount
Removal / take-down / re-build					
1	<ul style="list-style-type: none"> Take down fenceline to woodland and re-tension to new strainer post Remove hedge to accommodate track width Remove wall to garden compound to accommodate track width, mortar re-build gable end 	Item M Item	3.5		
2	<ul style="list-style-type: none"> Create temporary gap in roadside hedge to accommodate stone delivery and machine movement Re-plant hedge gap and restore/strain sheep net fencing to make good Make good/re-seed holding and delivery areas 	Item			
Bridleway Construction					
1	Machine scrape a shallow tray: 2.5m x 165m x 75mm depth – grade arisings locally as directed	M3	31		
2	Lay geotextile – Terram 1000 or similar	M2	345		
3	Import, lay and consolidate 2 x layers - 75mm clean stone	M3	55		
4	Import, lay and consolidate 1 x layer: 30–40mm clean stone to bind with 75mm base stone	M3	13		
5	Import and lay 2 x layers - 30mm to dust gritstone	M3	17		
6	Hand broadcast 10mm depth of topsoil onto the surface	M3	4		
7	Hand broadcast grass seed @ 35g/M2 - lightly roll	Kg	15		
Boundary Fencing					
1	Construct galvanised stock net fencing C8/80/15 with 4mm plain wire top.	M	155		
3	Replace barb wire on existing fence with 4mm plain wire	M	158		
Holding Area					
1	Supply materials and construct holding area at Greenvale buildings	No	1		
				Sub Total	
				+10%	
				Total	

Design Notes - Bridleway link: Downham – Chatburn

View together with technical drawings

Track ConstructionGrass/Gravel bridleway construction

- Excavate a tray – 2.5m width x 75mm depth
- Lay geotextile if wet
- Lay 2000mm gritstone, consolidate with double roller to either a camber or 1:40 crossfall (steeper slope = steeper crossfall)
 - First two layers onto geotextile to be 75mm clean stone, when laid and tracked across this creates a 100mm depth and allows `clean` tracking of 360 degree machines carrying 2 tonnes stone along the work line
- Lay one layer of 30-40mm clean stone to bind into 75mm clean
- Lay 60mm wearing surface (30mm to dust gritstone)
- Incorporate 15% topsoil and mix into the wearing surface with machine teeth
- Hand broadcast seed mix at 35g/M2
- Lightly roll
- Finished surface will be 50mm above ground level.

Stone Quantities and Delivery Locations

- 805m x 2.5m x 0.2m construction = 402+ cubic metres @11.7 tonnes per 20 tonne wagon
- = 36 x 20t wagons
- Quantities have been determined by track dimensions, however; this does not account for any uneven or soft ground which may require greater volumes to fill. It is anticipated that the overall 10% contingency fund will account for any additional stone requirements

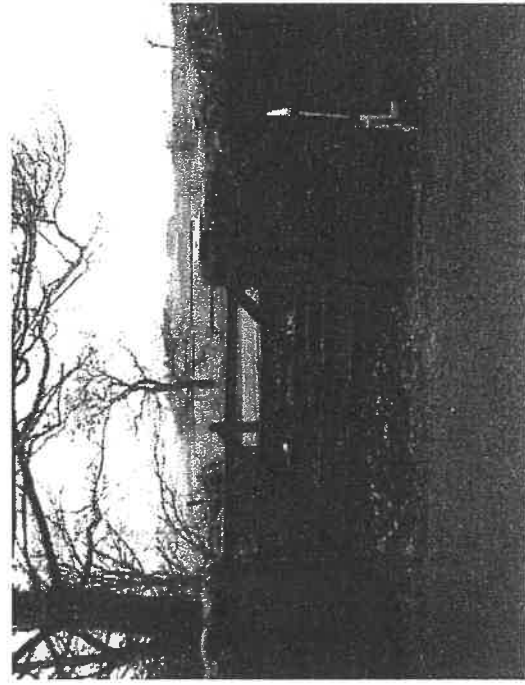
Delivery by Section:

- Section 1: 114m - Chatburn road/Green lane triangle
 - 5 x wagons into existing gateways x 2 and new openings x 2
- Section 2: 197m - Green Lane to woodland
 - 9 x wagons through gateway central in this length
- Section 3: 158m - Woodland to Greenvale
 - 7 x wagons – *create temporary gap in roadside hedge*
- Section 4: 335m - Greenvale to bridge (end)
 - 15 x wagons – *create temporary gap in hedge at interface with wall (or in wall)*
 - Tip at log store track - bridge end

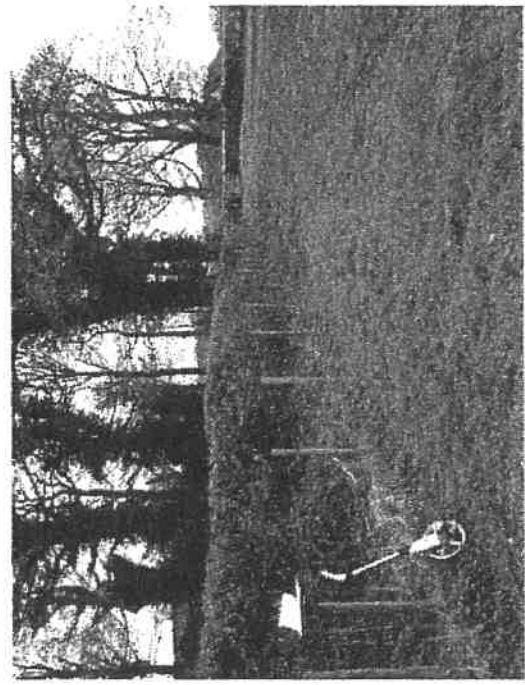
Holding Areas

- 1.2 metre bridlegates constructed to `Downham` design – single cross brace
- Hanging posts placed tight to track edge/hedge to allow machine access for hedge cutting
- Gates hung on front face to 4 way weathered 150mm x 150mm - fold back against hedges
- Gates to lift off hanging pins
- Gates locate on closing post via `auto latch` padlocked
- Closing post inserted into lockable metal ground socket `Centrewire` (or similar) design concreted to 800mm depth
- Distance between off-set gates @1.5 metres
- Distance from second gate to road edge – @ 3.5 metres
- Option to place removable square bollard in lockable post holder to road edge

Section 1 Images: Chatburn Road crossing Green Lane



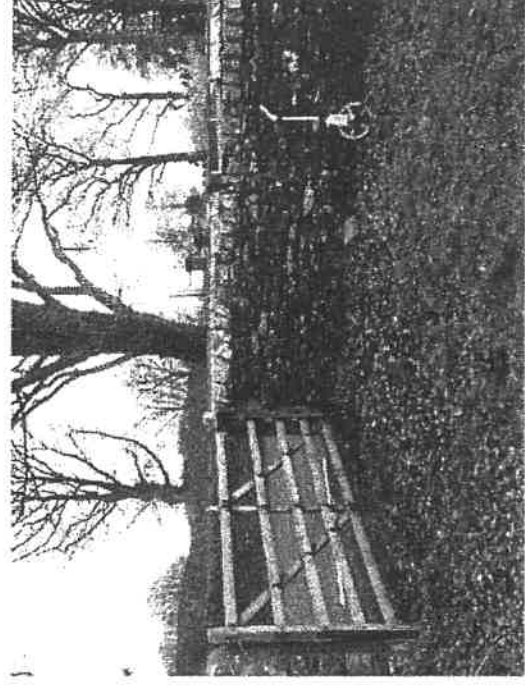
Start point on Downham Road



Through hedge from Green Lane to junction – splay fence

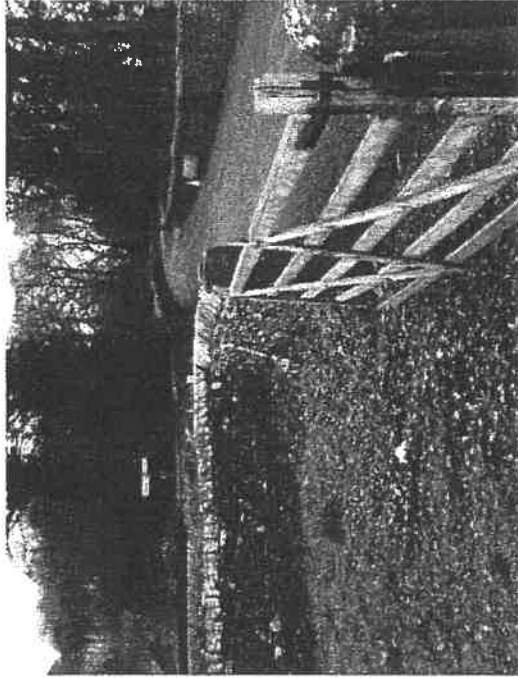


Trim back trees - break through wall and hedge over road

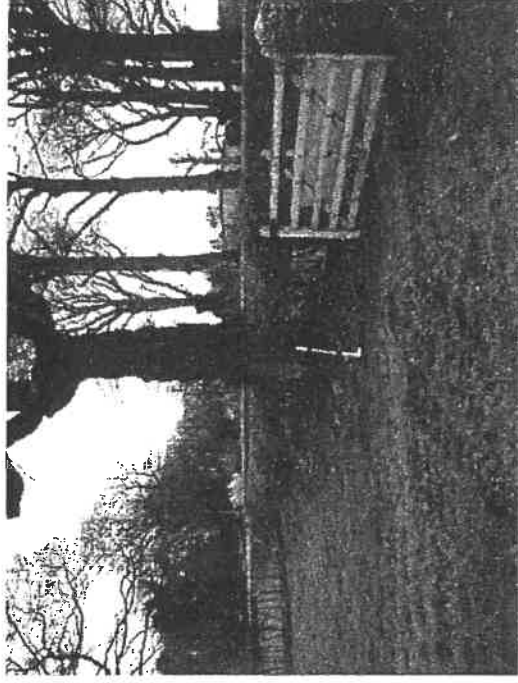


Break through wall at junction & new gate in fence line

Section 2&3 Images: Green Lane junction – Woodland - Greenvale



Start point at wall (remove) near junction

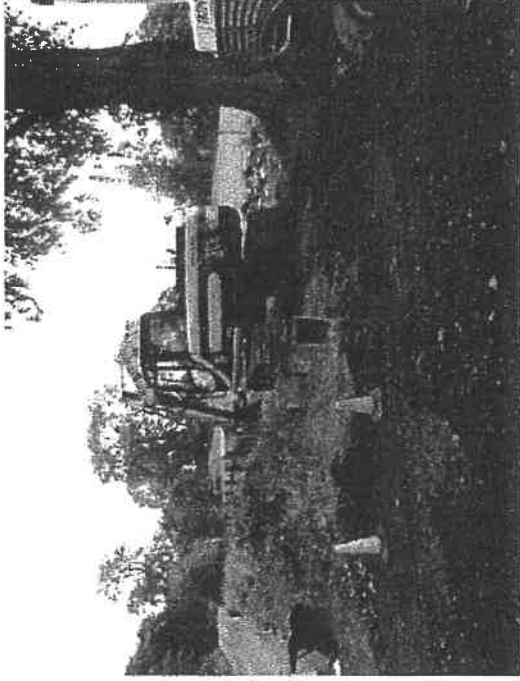


100m back to start point at junction

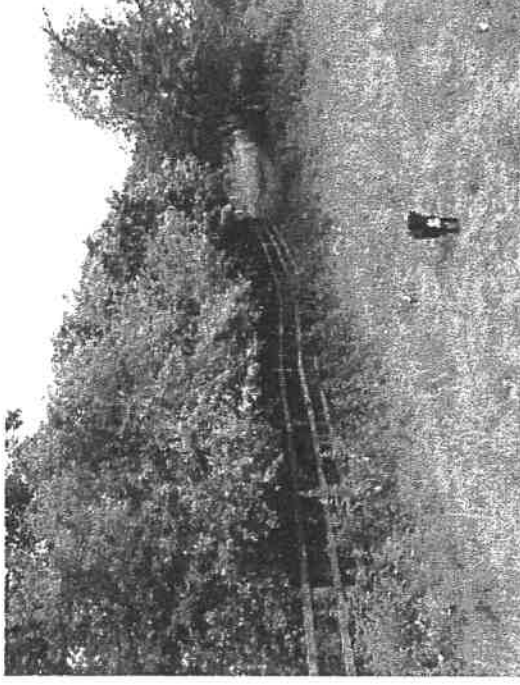


Exit from field/garden via holding area (behind white van)

Section 4 Images: Greenvale to A59 bridge



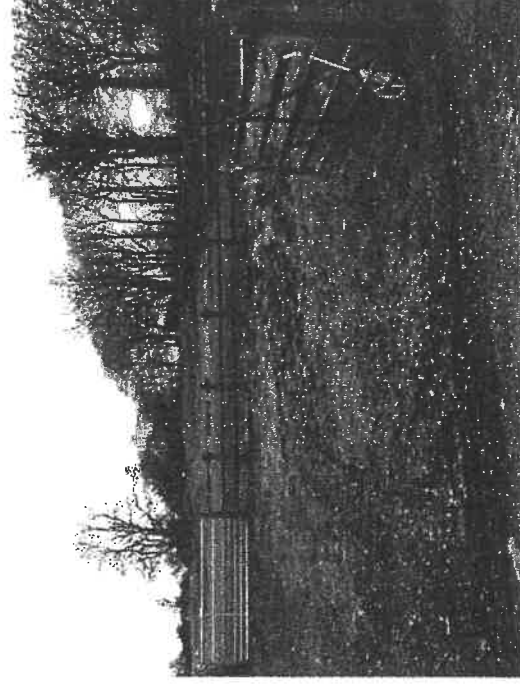
Start by new car park -- holding area just beyond tree



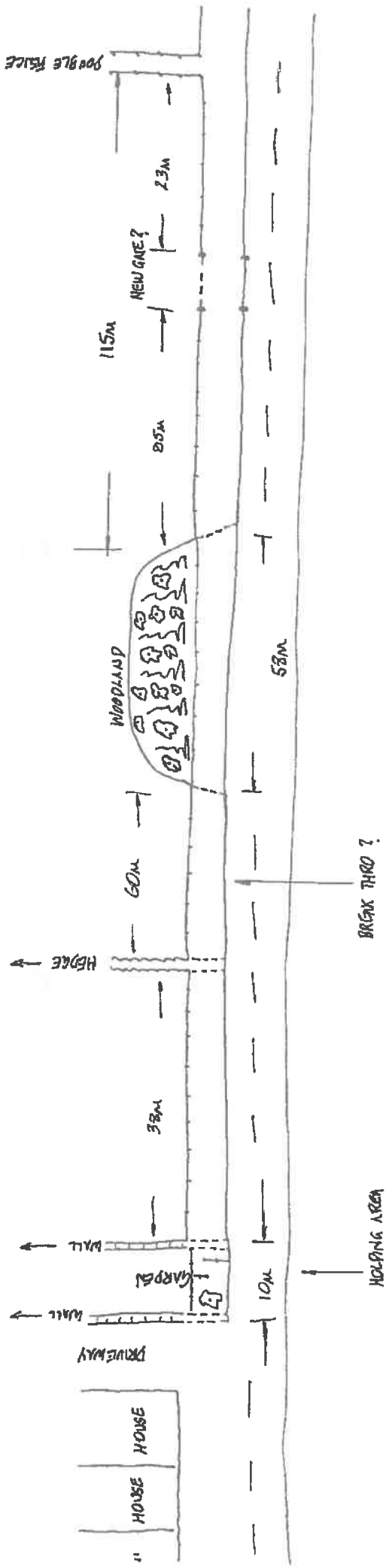
First pinch point at 65m -- cut back hedge



Re-profile (cut & fill) for 70m length



Track to wall -- bridle gate in fence -- track to wheel finish



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BREAK THRO ?

HOLDING AREA

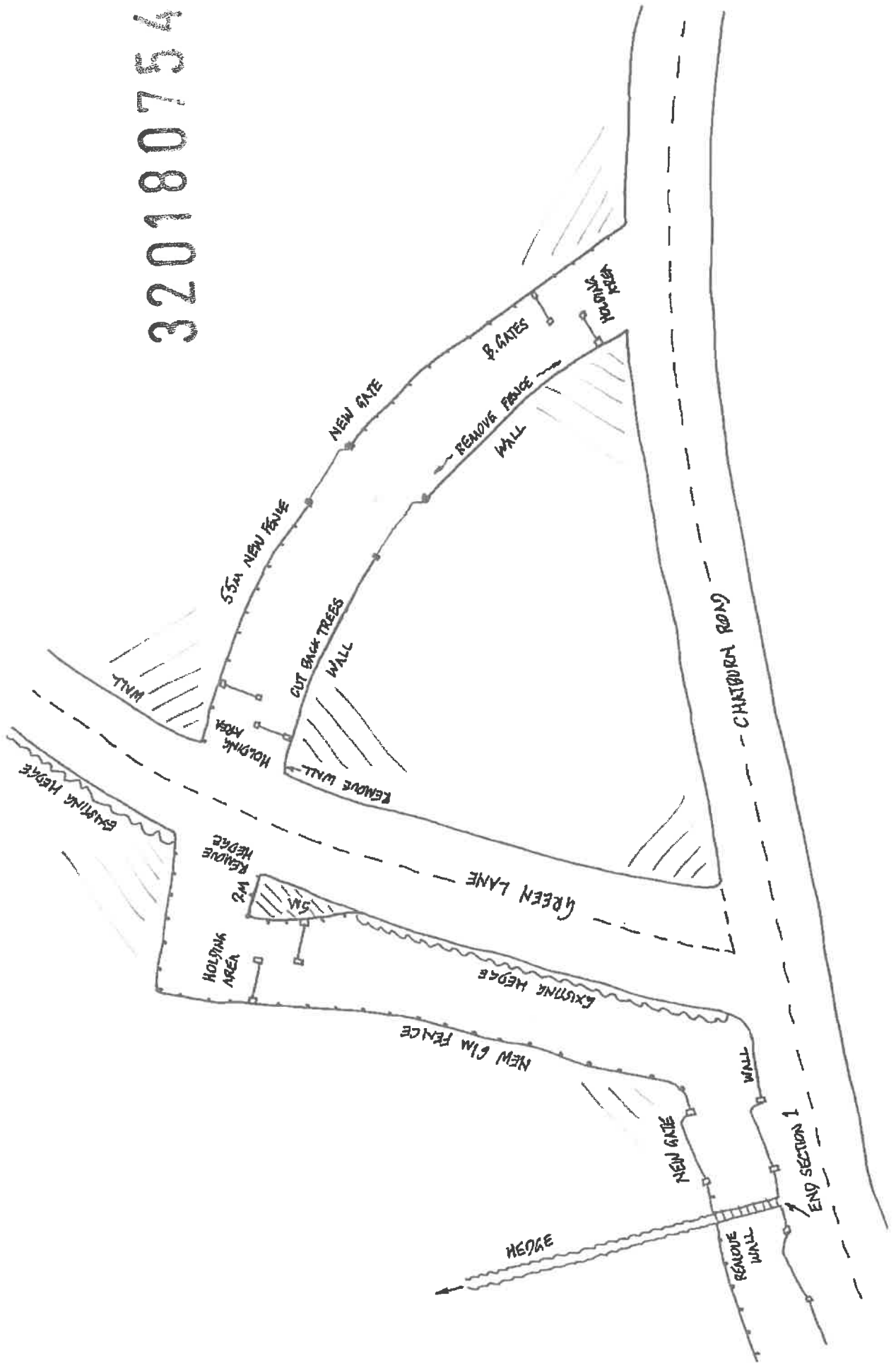
PER TO 55M THEN WALL + PINCH POINT : BARK TOP
 20M HEDGE TO TRAIL



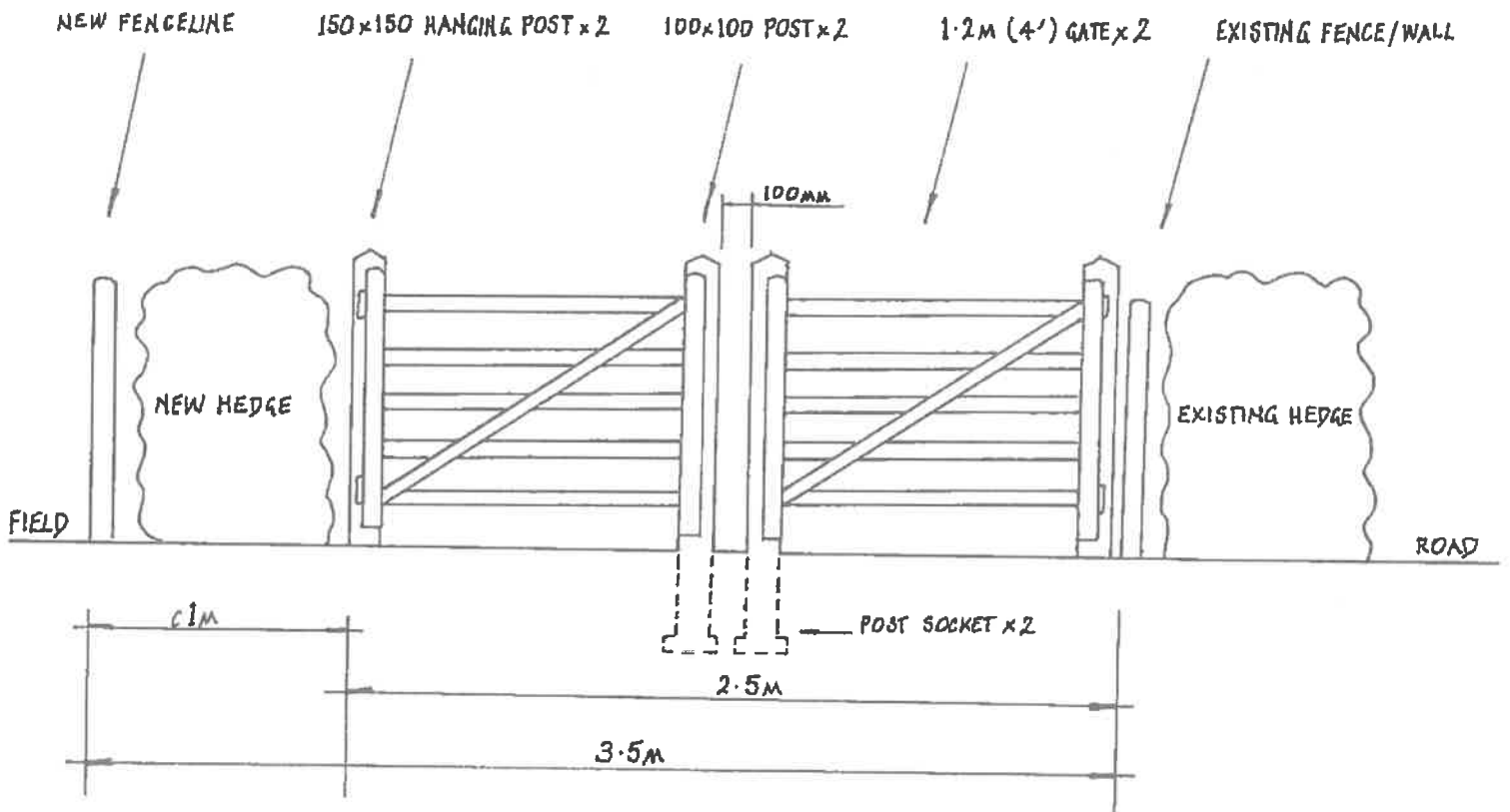
BREAK THROUGH BEFORE END OF HEDGE

SECTION 1 : CHITBURN ROAD CROSSING GREEN LANE N.T.S. 116 METRES

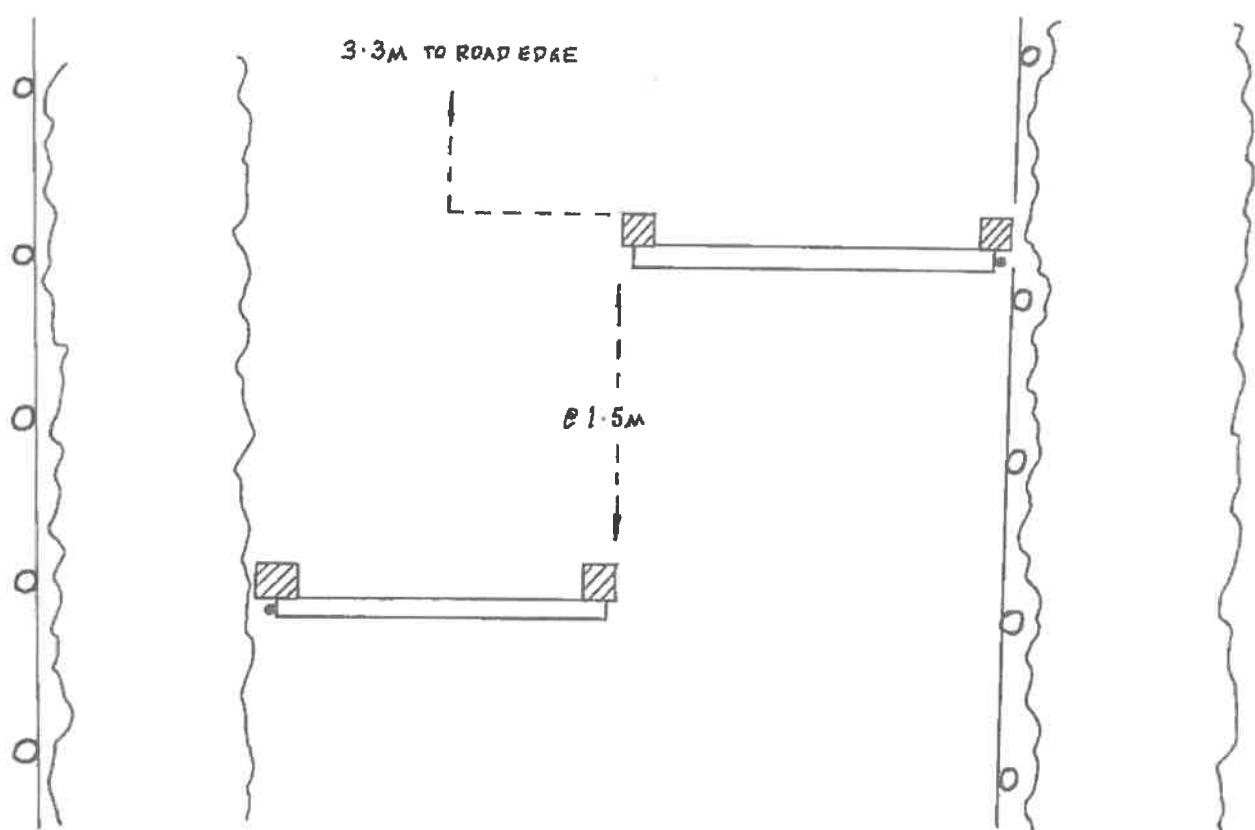
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HOLDING AREA : TYPICAL CONSTRUCTION : FRONT VIEW - NTS




PLAN VIEW 320180754F



STONE BRIDLEWAY : CONSTRUCTION CROSS SECTION - NTS

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KEY :

 75mm CLEAN STONE x 2 LAYERS

 30 - 40mm CLEAN STONE x 1 LAYER

 30mm TO DUST x 60mm DEPTH - ADDITIONAL 10mm SOIL AND GRASS SEED

