



12<sup>th</sup> October, 2021.

**TO: AN CATHAOIRLEACH  
& EACH MEMBER OF KILKENNY COUNTY COUNCIL**

**RE: WINTER MAINTENANCE PLAN 2021/2022**

Dear Councillor,

The Winter Maintenance Season for 2021/2022 will extend from the 18<sup>th</sup> October 2021 to 30<sup>th</sup> April 2022. Daily monitoring of the road network conditions will be undertaken in this period and winter maintenance resources will be deployed in accordance with the provisions of the Winter Maintenance Plan 2021/2022.

Members are advised that the service delivery target for the Priority 1 and 2 network is to keep these roads frost/ice free 24 hours a day, 7 days a week. This service is provided from the Council's Machinery Yard through the deployment of salt spreaders under the direction of the Duty Engineer.

**Notwithstanding the provision by Kilkenny County Council of winter maintenance services, it is the duty of individual road users to ensure that they drive in accordance with prevailing conditions and no assumptions should be made that frost or icy conditions do not prevail on certain areas of the road network.**

The total length of the road network to be treated (Priority 1 and 2) is 427km. The routes are selected based on their strategic importance, volumes of traffic and in consideration of the logistics involved in designing the overall routes. Four vehicles will be deployed to deliver the service and, with a capacity of between 12 and 13 tonnes of salt per vehicle. Additional capacity is not achievable without significant capital investment.

A full copy of the Winter Services Plan 2021/2022 will be displayed on the Council's website.

Area Engineers will also present Elected Members, at individual Municipal District Committee Meetings, with the details of the proposed Priority 3 Routes for 2021/2022. These are the routes that do not receive treatment to the standard pertaining to Priority 1 and 2 but which are treated periodically during periods of particularly severe weather.

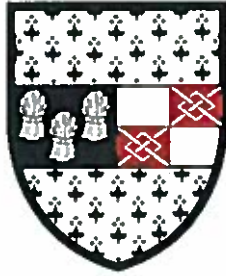
Elected Members attention is also drawn to the provisions of the Severe Weather Plan which provides for the pooling of resources in the event that particularly severe weather events occur. This includes liaison with the IFA, local schools and other emergency service providers.

In conclusion, I recommend approval of the Winter Services Plan 2021/2022 in line with the details set out in this memo to Elected Members.

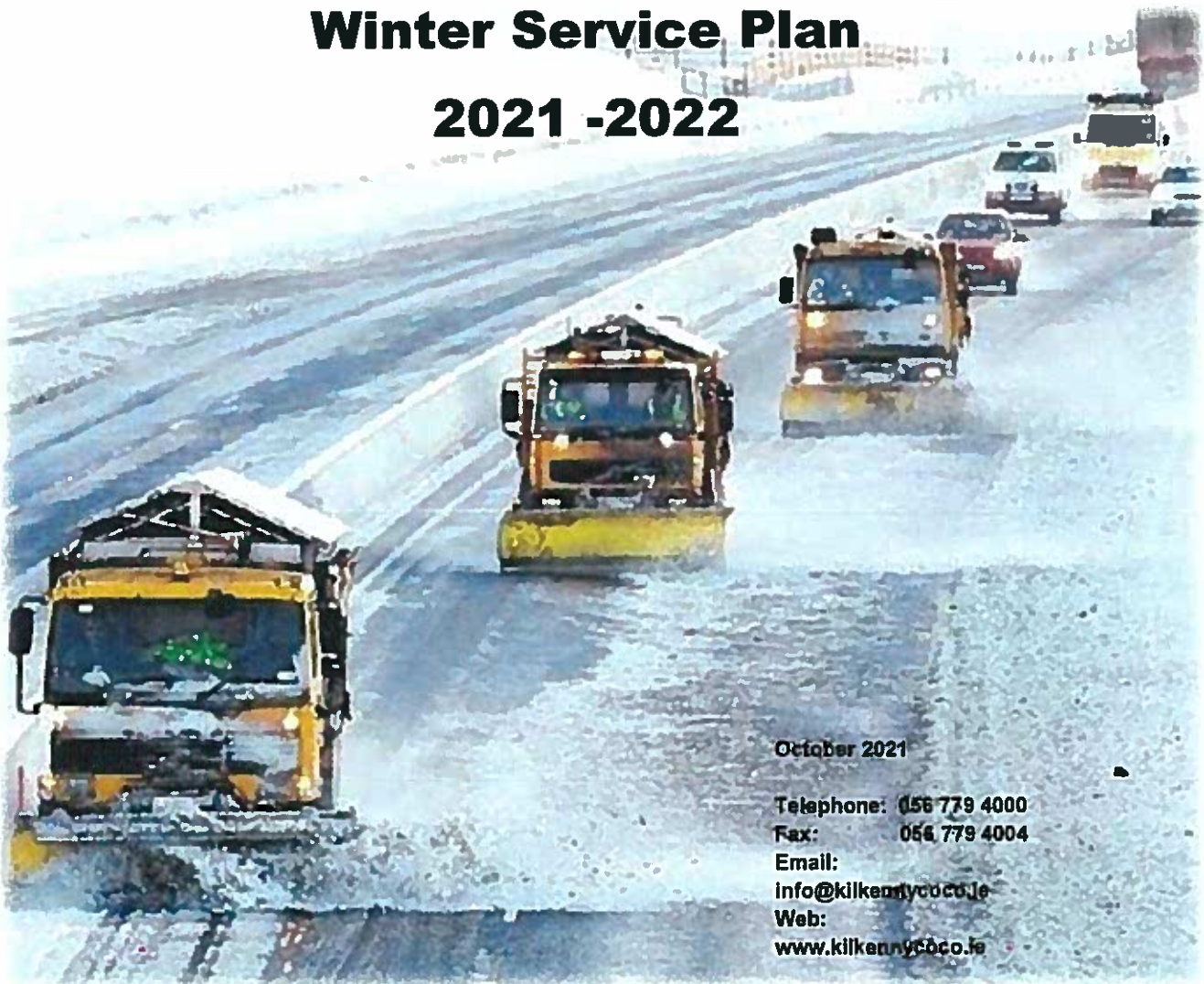
Yours sincerely,

**Tim Butler**  
Director of Services

# Kilkenny County Council



## Winter Service Plan 2021 -2022



October 2021

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## **1. Document Control**

<b>Role</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>
Prepared By:	William Delaney		
Checked By:	Seamus Kavanagh		
Winter Services Manager	Tim Butler		
Director of Services for Transportation	Tim Butler		

## **2. Purpose and Scope**

The purpose and scope of this document is to identify the processes, procedures and key personnel employed by Kilkenny County Council in the delivery of winter maintenance services throughout County Kilkenny.

## **3. Winter Maintenance Policy**

**Motorists have a general duty of care to consider prevailing weather and road conditions when planning and/or undertaking journeys across the public road network.**

Due to the length of the road network in County Kilkenny, it is not feasible to treat all roads in the County during the Winter Season (October 18<sup>th</sup>, 2021 to April 30<sup>th</sup>, 2022). Accordingly, a form of prioritisation is necessary, and routes are divided into the following three priority designations:

Kilkenny County Council will seek to ensure, as far as reasonably practicable, the prevention of ice formation and of snow accumulation on **Priority 1 Routes (Red Routes)**.

Kilkenny County Council will seek to ensure, as far as reasonably practicable, the prevention of ice formation and of snow accumulation on **Priority 2 Routes (Blue Routes)**.

In extreme weather events and/or in circumstances requiring resource prioritisation, Priority 1 Routes will take precedence over Priority 2 Routes in terms of the allocation of available resources.

Kilkenny County Council will provide periodic winter maintenance services on **Priority 3 Routes (Green Routes)**. Such services will only be provided on selected occasions associated with the anticipation of particularly severe weather conditions. Road-users must not assume that pre-salting services have been provided to the Priority 3 Network.

Mobilisation and Treatment times are detailed in Table 4.1 below. In the case of Priority 1 and 2 Routes, notification of the intention to commence pre-salting services is required a minimum of five to six hours in advance of the predicted time of ice formation.

**Table 4.1**

<b>Treatment Route</b>	<b>Priority 1</b>	<b>Priority 2</b>	<b>Priority 3</b>
<b>Mobilisation Time</b>	1hr	1hr	When possible
<b>Treatment Time</b>	2.5hr	3.5hr	When possible

## 4. Decision Matrix

The Duty Engineer will inspect the forecast system daily from approximately 2pm or as soon thereafter as the Met Eireann forecast has been received. The decision matrix in Table 4.1 consists of the following;

**Table 4.1 Decision Matrix**

Road Surface Temperature	Precipitation	Predicted Road Conditions		
		Wet	Wet Patches	Dry
May fall below 1°C	No rain No hoar frost No fog	Salt before frost	Salt before frost (see note a)	No action likely, monitor weather (see note a)
Expected to fall below 1°C	Expected hoar frost Expected fog		Salt before frost (see note b)	
	Expected rain before freezing	Salt after rain stops (see note c)		
	Expected rain during freezing	Salt before frost and, as required, after rain stops (see note d)		
	Possible rain Possible hoar frost Possible fog	Salt before frost	Monitor weather conditions	
	Expected Snow	Salt before snow fall		
The decision to undertake precautionary treatments should be, if appropriate, adjusted to take account of residual salt or surface moisture. All decisions should be evidence based, recorded and require careful monitoring and review.				

**Notes:**

- a) Particular attention should be given to the possibility of water running across carriageways and other running surfaces e.g. surface water off adjacent fields after heavy rains, washing off salt previously deposited. Such locations should be closely monitored. Ideally the source of the run-off should be diverted from the roadway.
- b) When a weather warning contains reference to expected hoar frost, considerable deposits of frost can occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before its onset, may be dispersed before it can become effective. Careful monitoring is required under this forecast condition which should ideally be treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road prior to but as close as possible to the expected time of the condition. Hoar frost may also be forecast at other times of the day, in which case the timing of salting operations should be adjusted accordingly.
- c) If under these conditions, rain has not ceased by early morning, crews should be called out and action initiated as rain ceases.
- d) Under these circumstances rain will freeze on contact with running surfaces and full precautionary treatment should be provided even on dry roads. This is a most serious condition and should be monitored closely and carefully throughout the danger period.

## **5. Winter Maintenance Route Mapping Schedule**

The following list in Table 5.1 sets out the drawings which indicate the Priority 1, 2 and 3 Routes for Winter Maintenance and also indicate the Section 85 arrangements between Kilkenny County Council and Tipperary County Council whereby, in the interests of efficiency services are provided by one local authority on behalf of another. The mapping for Priority 1, 2 and 3 Routes is contained in the Appendices.

**Table 5.1 Winter Maintenance Route Mapping Schedule**

<b>Drawing. No.</b>	<b>Drawing Name</b>	<b>Date</b>
KCC-WM-01	Priority 1 & 2 Routes	Oct. 2015
KCC-WMP1&2-01	Route A – N77, N78, R639 & R693	Oct. 2017
KCC-WMP1&2-02	Route B – N76, N24 & R448	Oct. 2015
KCC-WMP1&2-03	Route C – R700, N25 & R704	Oct. 2015
KCC-WMP1&2-04	Route D – N10, R713, R448, R712 & Ring Road	Oct. 2015
KCC-WM-05	Section 85 Kilkenny/Tipperary	Oct.2013
KCC-WM-08	Section 85 Tipperary/Kilkenny	Oct. 2013
KCC-WMP3-01	Priority 3 Route Kilkenny Area	Sept. 2011
KCC-WMP3-02	Priority 3 Route Castlecomer Area	Nov. 2010
KCC-WMP3-04	Priority 3 Route Newrath Area	Nov. 2010



## 6. Duty Rosters

The duty rosters for Kilkenny Local Authority staff assigned to the winter service plan are contained in Tables 6.1 and 6.2 below.

**Table 6.1 Duty Engineers Roster**

<b>Duty Engineer</b>	<b>Duty Period Start</b>	<b>Duty Period Finish</b>
Seamus Kavanagh	18/10/2021	24/10/2021
Philippe Beubry	25/10/2021	31/10/2021
Stan Cullen	01/11/2021	07/11/2021
Declan Murphy	08/11/2021	14/11/2021
Seamus Kavanagh	15/11/2021	21/11/2021
Philippe Beubry	22/11/2021	28/11/2021
Stan Cullen	29/11/2021	05/12/2021
Declan Murphy	06/12/2021	12/12/2021
Seamus Kavanagh	13/12/2021	19/12/2021
Philippe Beubry	20/12/2021	26/12/2021
Stan Cullen	27/12/2021	02/01/2022
Declan Murphy	03/01/2022	09/01/2022
Seamus Kavanagh	10/01/2022	16/01/2022
Philippe Beubry	17/01/2022	23/01/2022
Stan Cullen	24/01/2022	30/01/2022
Declan Murphy	31/01/2022	06/02/2022
Seamus Kavanagh	07/02/2022	13/02/2022
Philippe Beubry	14/02/2022	20/02/2022
Stan Cullen	21/02/2022	27/02/2022
Declan Murphy	28/02/2022	06/03/2022
Seamus Kavanagh	07/03/2022	13/03/2022
Philippe Beubry	14/03/2022	20/03/2022
Stan Cullen	21/03/2022	27/03/2022
Declan Murphy	28/03/2022	03/04/2022
Seamus Kavanagh	04/04/2022	10/04/2022
Philippe Beubry	11/04/2022	17/04/2022
Stan Cullen	18/04/2022	24/04/2022
Declan Murphy	25/04/2022	30/04/2022

Table 6.2 Drivers and Fitters Roster

Drivers	Fitters	Duty Period Start	Duty Period Finish
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	18/10/2021	24/10/2021
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	25/10/2021	31/10/2021
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	01/11/2021	07/11/2021
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	08/11/2021	14/11/2021
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	15/11/2021	21/11/2021
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	22/11/2021	28/11/2021
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	29/11/2021	05/12/2021
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	06/12/2021	12/12/2021
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	13/12/2021	19/12/2021
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	20/12/2021	26/12/2021
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	27/12/2021	02/01/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	03/01/2022	09/01/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	10/01/2022	16/01/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	17/01/2022	23/01/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	24/01/2022	30/01/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	31/01/2022	06/02/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	07/02/2022	13/02/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	14/02/2022	20/02/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	21/02/2022	27/02/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	28/02/2022	06/03/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	07/03/2022	13/03/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	14/03/2022	20/03/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	21/03/2022	27/03/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	28/03/2022	03/04/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	04/04/2022	10/04/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	11/04/2022	17/04/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	18/04/2022	24/04/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	25/04/2022	30/04/2022

## **7. Treatment Matrix**

The following information outlines the application rates for pre-salting:

- Pre-salting is provided at a rate of 10g/m<sup>2</sup>
- At selected sections of pre-salting routes or on particularly severe events, application rates may be increased to reflect localised conditions.
- Routes have been designed to allow a treatment at 15g/m<sup>2</sup> when conditions dictate (For example during nights with prolonged cold periods or excess residual water).

## **8. Plant, Vehicles and Equipment**

Kilkenny County Council operates 4 No. demountable salt spreaders which are permanently mounted on trucks for the duration of the winter maintenance season. Also, Kilkenny County Council has 3 No. demountable salt spreaders which are permanently mounted on trucks to provide extra cover in the event of a breakdown or extreme conditions. In addition to the above plant, Kilkenny County Council maintains 3 No. salt spreaders in the Machinery Yard which can be mobilised in extreme conditions when required.

Kilkenny County Council has 7 No. snow ploughs available for deployment in the event of snow conditions. 5 No. of these snow ploughs are truck mounted and the other 2 No. have been adapted to fit loading shovels.

Kilkenny County Council also operates 7 No. demountable salt spreaders and 3 No. towed salt spreaders.

The list of plant and service records are itemised in Tables 9.1 and 9.2 below:

**Table 9.1 Salt Spreaders – Service Record**

Description	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of Next Calibration	Date of next Service
SG10 – Demountable	Machinery Yard	9m <sup>3</sup> Pre-Wet	Oct '21	Oct '21	Oct '22	Oct '22
SG9 – Demountable	Machinery Yard	9m <sup>3</sup> Pre Wet	Oct '21	Oct '21	Oct '22	Oct '22
SG8 – Demountable	Machinery Yard	9m <sup>3</sup>	Oct '21	Oct '21	Oct '22	Oct '22
SG7 – Demountable	Machinery Yard	9m <sup>3</sup>	Oct '21	Oct '21	Oct '22	Oct '22
SG6 – Demountable	Machinery Yard	9m <sup>3</sup>	Oct '21	Oct '21	Oct '22	Oct '22
SG5 – Demountable	Machinery Yard	9m <sup>3</sup>	Oct '21	Oct '21	Oct '22	Oct '22
SG4 – Demountable	Machinery Yard	7m <sup>3</sup>	Oct '21	Oct '21	Oct '22	Oct '22
SG3 – Demountable	Machinery Yard	6m <sup>3</sup>				
SG2 – Demountable	Machinery Yard	6m <sup>3</sup>				
SG1 – Demountable	Machinery Yard	5m <sup>3</sup>				
CLN1 - Demountable	Thomastown Depot	3m <sup>3</sup>				
CLN2 - Demountable	Callan Depot	1.5m <sup>3</sup>				
CLN3 – Demountable	Kilmaganny Depot	1.5m <sup>3</sup>				
CLN4 – Towable	Kilkenny Depot	3m <sup>3</sup>				
CC1 – Towable	Johnstown Depot	4.5m <sup>3</sup>				
CC2 – Towable	Castlecomer Depot	4.5m <sup>3</sup>				
N1 - Demountable	Listerlin Depot	3m <sup>3</sup>				
KK1 - Demountable	Machinery Yard	3m <sup>3</sup>				
TT1 - Demountable	Graignamanagh Depot	3.8m <sup>3</sup>				
TT2 - Demountable	Gowran Depot	2.6m <sup>3</sup>				
TT3 – Towable	Thomastown Depot	4.5m <sup>3</sup>				

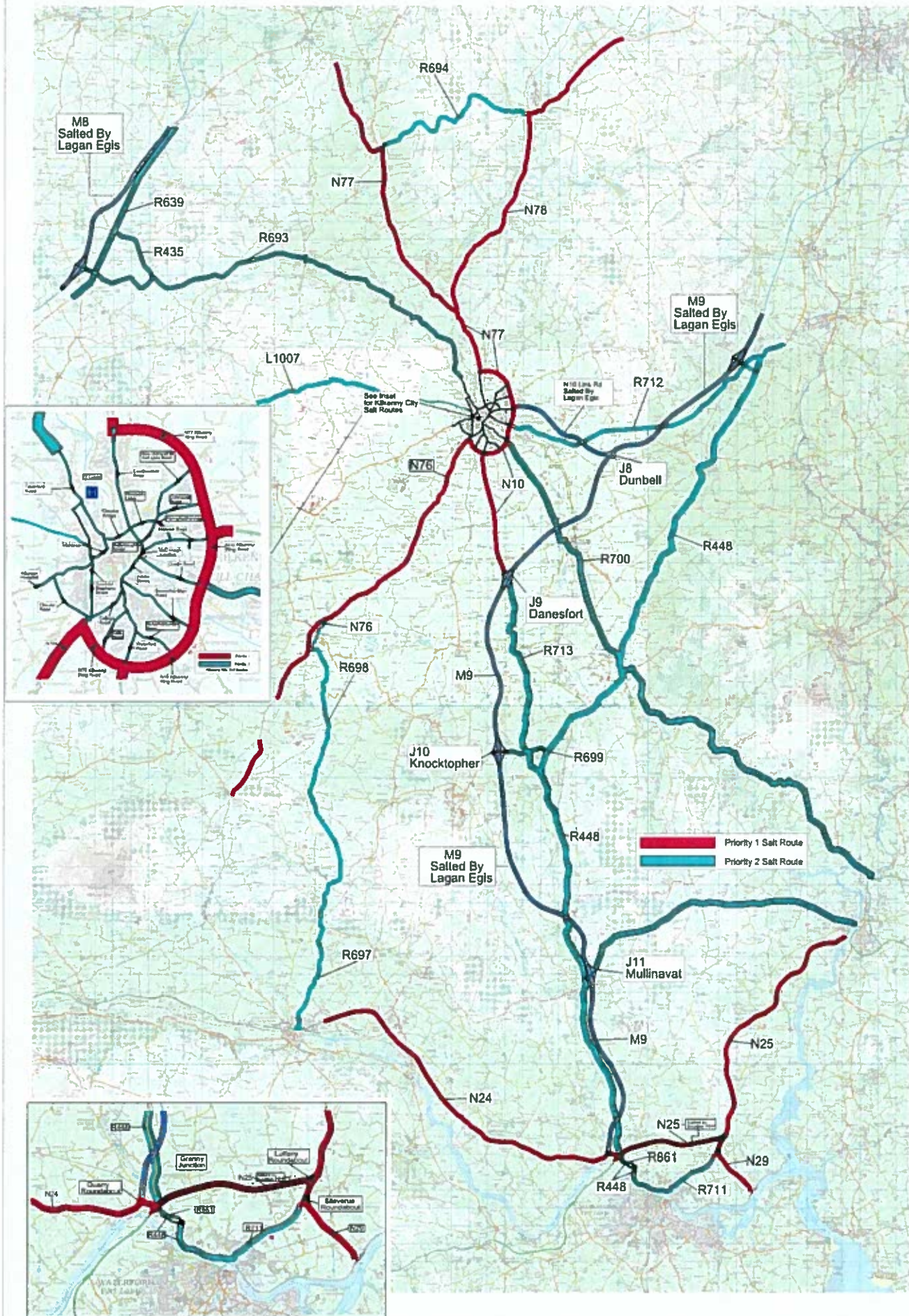
**Table 9.2 Snow Ploughs & Loading Shovels**

<b>Snowploughs &amp; Loading Shovels</b>	<b>Depot Location</b>	<b>Fitted to</b>	<b>Date Serviced</b>	<b>Date of Next Service</b>
86T – Loading Shovel	Machinery Yard		Regular Servicing	
101T – Manitou Teleporter	Machinery Yard		Regular Servicing	
102T – Manitou Teleporter	Newrath Depot		Regular Servicing	
77T – Manitou Teleporter	Machinery Yard		Regular Servicing	
SP - MY1	Machinery Yard			
SP - MY2	Machinery Yard			
SP - MY3	Machinery Yard			
SP - MY4	Machinery Yard			
SP - MY5	Machinery Yard			
SP - MY6	Machinery Yard			
SP – MY7	Machinery Yard			

## 9. Winter Service Plan Distribution List

Issued to	Position	Organisation	Location
Colette Byrne	Chief Executive	Kilkenny County Council	County Hall, Kilkenny
Tim Butler	Director of Services	Kilkenny County Council	County Hall, Kilkenny
Seamus Kavanagh	Senior Engineer Roads & Water	Kilkenny County Council	County Hall, Kilkenny
Ian Gardner	Senior Engineer Kilkenny Municipal Area	Kilkenny County Council	City Hall
Brendan Sheehan	Executive Engineer Kilkenny Municipal Urban Area	Kilkenny County Council	City Hall
Eamon Mahon	Area Engineer Kilkenny Municipal Rural Area	Kilkenny County Council	County Hall, Kilkenny
Stan Cullen	Area Engineer Newrath Municipal Area	Kilkenny County Council	Piltown Area Office
Philippe Beubry	Area Engineer Castlecomer Municipal Area	Kilkenny County Council	Castlecomer Area Office
Declan Murphy	Area Engineer Thomastown/Callan Municipal Areas	Kilkenny County Council	Thomastown Area Office
William Delaney	Machinery Yard Engineer	Kilkenny County Council	Machinery Yard
Art Hennessy	Technical Services Supervisor	Kilkenny County Council	Machinery Yard
Lisa Bolger Hynes	Health & Safety Officer	Kilkenny County Council	County Hall, Kilkenny
Ray Wickham	Senior Executive Engineer	Carlow County Council	
Adrian Barrett	Senior Engineer	Laois County Council	
Liam Brett	Senior Engineer	Tipperary County Council	
Sinead Casey	Senior Engineer	Wexford County Council	
Gabriel Hynes	Senior Engineer	Waterford Council	
Stephen Smyth	Winter Maintenance Manager	National Roads Authority	
John Moore	Winter Maintenance Manager	Lagan Egis	N25 Toll Plaza
Evelyn Cusack	Head of Forecasting	Met Eireann	Glasnevin Hill, Dublin 9.
Superintendent Derek Hughes	Traffic Corps	An Garda Siochana	Kilkenny Garda Station
Inspector Claire Kinealy	Traffic Corps	An Garda Siochana	Thomastown Garda Station

# **Appendix 1 - Priority 1 & Priority 2 Treatment Routes**



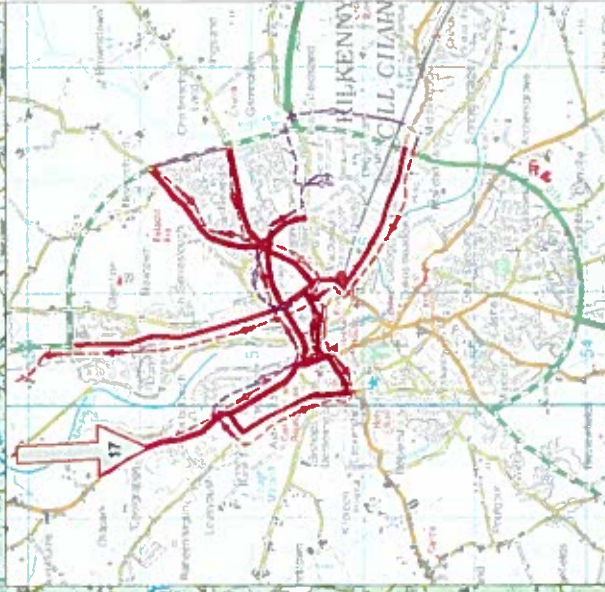
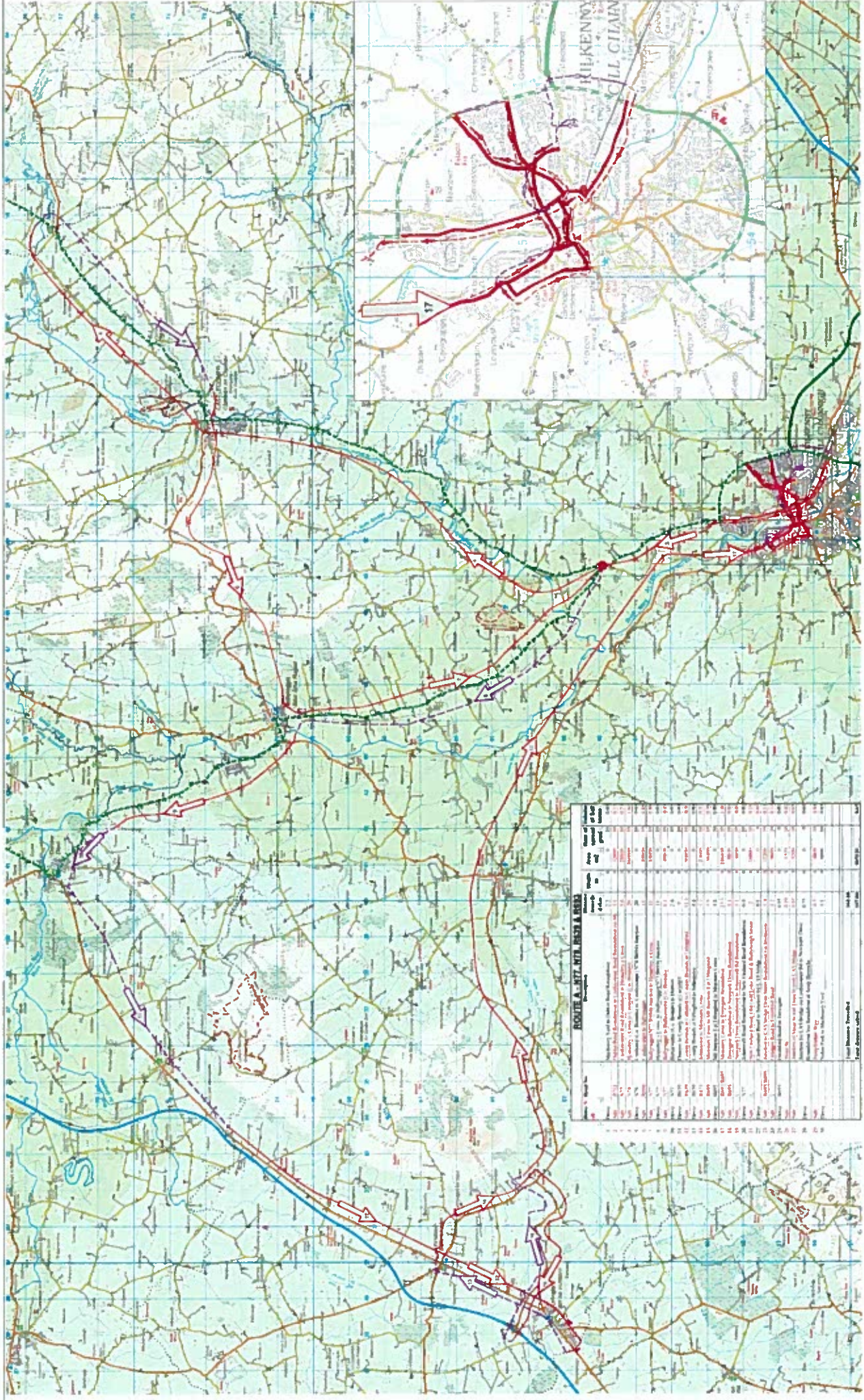
▬ Priority 1 Salt Route  
▬ Priority 2 Salt Route



Rev	By	Date	Description

Project: KCC Salting Routes			
Component: Winter Maintenance			
Title: Priority 1 & 2 Routes			
Designed By: SA	File Name: N7B	Drawing No. KCC-114-1	
Drawn By: MB	Scale: N7B		
Checked By: SW	Date: October 2018		





**ROUTE A - N17, N18, R538 & R693**

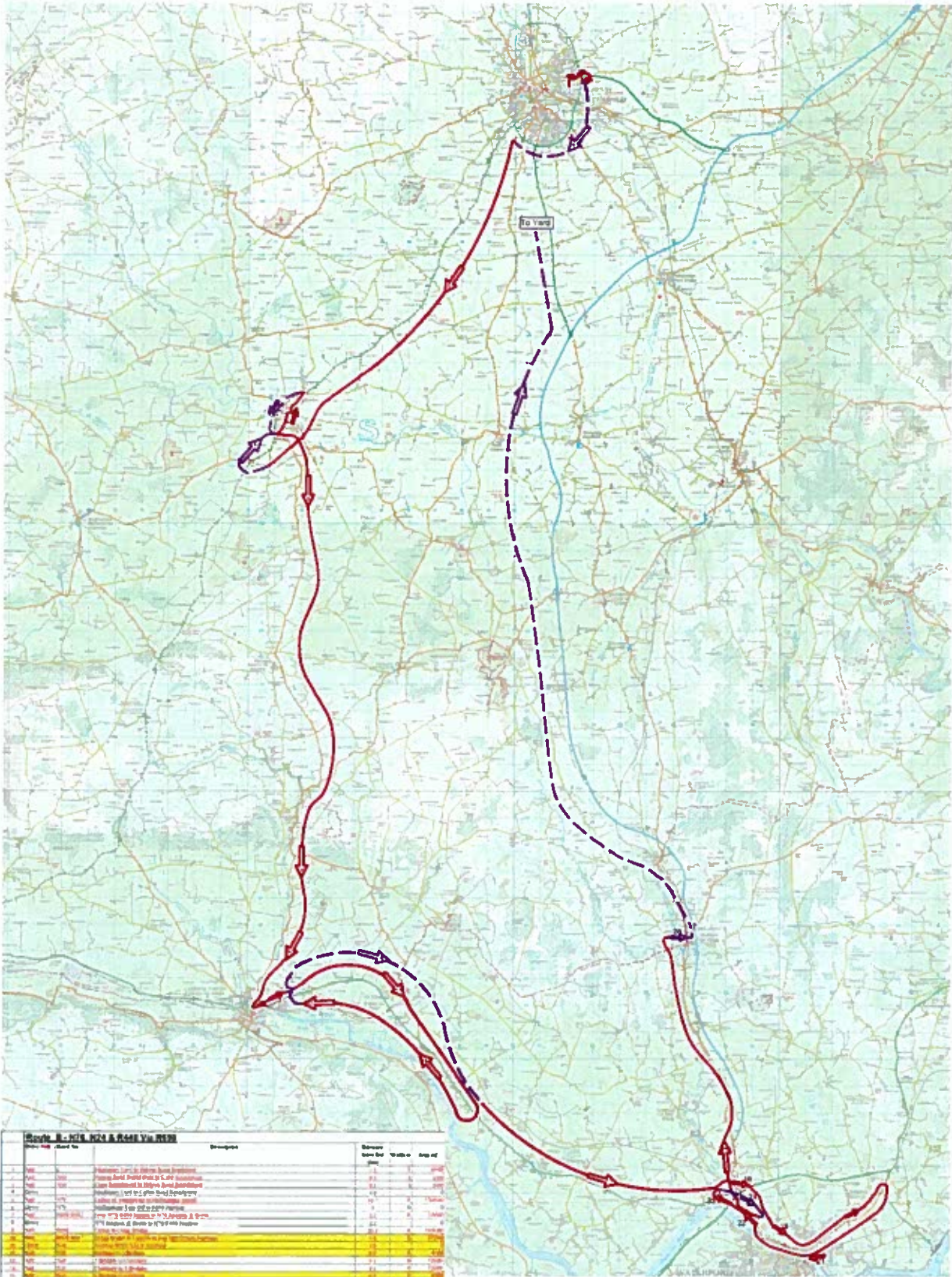
Route No.	Route Description	Length (km)	Area (ha)	Area (ac)	Area (sq mi)
1	17	1.0	100	250	0.04
2	18	1.0	100	250	0.04
3	538	1.0	100	250	0.04
4	693	1.0	100	250	0.04
5	17/18	1.0	100	250	0.04
6	17/538	1.0	100	250	0.04
7	17/693	1.0	100	250	0.04
8	18/538	1.0	100	250	0.04
9	18/693	1.0	100	250	0.04
10	538/693	1.0	100	250	0.04
11	17/18/538/693	1.0	100	250	0.04
12	17/18/538/693	1.0	100	250	0.04
13	17/18/538/693	1.0	100	250	0.04
14	17/18/538/693	1.0	100	250	0.04
15	17/18/538/693	1.0	100	250	0.04
16	17/18/538/693	1.0	100	250	0.04
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20	17/18/538/693	1.0	100	250	0.04
21	17/18/538/693	1.0	100	250	0.04
22	17/18/538/693	1.0	100	250	0.04
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25	17/18/538/693	1.0	100	250	0.04
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67	17/18/538/693	1.0	100	250	0.04
68	17/18/538/693	1.0	100	250	0.04
69	17/18/538/693	1.0	100	250	0.04
70	17/18/538/693	1.0	100	250	0.04
71	17/18/538/693	1.0	100	250	0.04
72	17/18/538/693	1.0	100	250	0.04
73	17/18/538/693	1.0	100	250	0.04
74	17/18/538/693	1.0	100	250	0.04
75	17/18/538/693	1.0	100	250	0.04
76	17/18/538/693	1.0	100	250	0.04
77	17/18/538/693	1.0	100	250	0.04
78	17/18/538/693	1.0	100	250	0.04
79	17/18/538/693	1.0	100	250	0.04
80	17/18/538/693	1.0	100	250	0.04
81	17/18/538/693	1.0	100	250	0.04
82	17/18/538/693	1.0	100	250	0.04
83	17/18/538/693	1.0	100	250	0.04
84	17/18/538/693	1.0	100	250	0.04
85	17/18/538/693	1.0	100	250	0.04
86	17/18/538/693	1.0	100	250	0.04
87	17/18/538/693	1.0	100	250	0.04
88	17/18/538/693	1.0	100	250	0.04
89	17/18/538/693	1.0	100	250	0.04
90	17/18/538/693	1.0	100	250	0.04
91	17/18/538/693	1.0	100	250	0.04
92	17/18/538/693	1.0	100	250	0.04
93	17/18/538/693	1.0	100	250	0.04
94	17/18/538/693	1.0	100	250	0.04
95	17/18/538/693	1.0	100	250	0.04
96	17/18/538/693	1.0	100	250	0.04
97	17/18/538/693	1.0	100	250	0.04
98	17/18/538/693	1.0	100	250	0.04
99	17/18/538/693	1.0	100	250	0.04
100	17/18/538/693	1.0	100	250	0.04

Project: KCC Sailing Routes  
 Component: Winter Services Plan  
 Title: Route A - N17, N18, R538 & R693  
 Drawn By: [Name]  
 Checked By: [Name]  
 Date: October 2011

No	By	Date	Description

**KILKENNY COUNTY COUNCIL**  
 Corporate Officer: Cllr Chubbright  
 ROAD DESIGN SECTION  
 1 DEAN STREET  
 KILKENNY





**Route B - N18, N24 & R448 via R608**

Station No.	Chain No.	Description	Bearing	Dist	Width	Area
1	0+00	Start of Proposed Route	S 15° E	100	10	1000
2	0+10	... ..	S 15° E	100	10	2000
3	0+20	... ..	S 15° E	100	10	3000
4	0+30	... ..	S 15° E	100	10	4000
5	0+40	... ..	S 15° E	100	10	5000
6	0+50	... ..	S 15° E	100	10	6000
7	0+60	... ..	S 15° E	100	10	7000
8	0+70	... ..	S 15° E	100	10	8000
9	0+80	... ..	S 15° E	100	10	9000
10	0+90	... ..	S 15° E	100	10	10000
11	1+00	... ..	S 15° E	100	10	11000
12	1+10	... ..	S 15° E	100	10	12000
13	1+20	... ..	S 15° E	100	10	13000
14	1+30	... ..	S 15° E	100	10	14000
15	1+40	... ..	S 15° E	100	10	15000
16	1+50	... ..	S 15° E	100	10	16000
17	1+60	... ..	S 15° E	100	10	17000
18	1+70	... ..	S 15° E	100	10	18000
19	1+80	... ..	S 15° E	100	10	19000
20	1+90	... ..	S 15° E	100	10	20000
21	2+00	... ..	S 15° E	100	10	21000
22	2+10	... ..	S 15° E	100	10	22000
23	2+20	... ..	S 15° E	100	10	23000
24	2+30	... ..	S 15° E	100	10	24000
25	2+40	... ..	S 15° E	100	10	25000
26	2+50	... ..	S 15° E	100	10	26000
27	2+60	... ..	S 15° E	100	10	27000
28	2+70	... ..	S 15° E	100	10	28000
29	2+80	... ..	S 15° E	100	10	29000
30	2+90	... ..	S 15° E	100	10	30000
31	3+00	... ..	S 15° E	100	10	31000
32	3+10	... ..	S 15° E	100	10	32000
33	3+20	... ..	S 15° E	100	10	33000
34	3+30	... ..	S 15° E	100	10	34000
35	3+40	... ..	S 15° E	100	10	35000
36	3+50	... ..	S 15° E	100	10	36000
37	3+60	... ..	S 15° E	100	10	37000
38	3+70	... ..	S 15° E	100	10	38000
39	3+80	... ..	S 15° E	100	10	39000
40	3+90	... ..	S 15° E	100	10	40000
41	4+00	... ..	S 15° E	100	10	41000
42	4+10	... ..	S 15° E	100	10	42000
43	4+20	... ..	S 15° E	100	10	43000
44	4+30	... ..	S 15° E	100	10	44000
45	4+40	... ..	S 15° E	100	10	45000
46	4+50	... ..	S 15° E	100	10	46000
47	4+60	... ..	S 15° E	100	10	47000
48	4+70	... ..	S 15° E	100	10	48000
49	4+80	... ..	S 15° E	100	10	49000
50	4+90	... ..	S 15° E	100	10	50000
51	5+00	... ..	S 15° E	100	10	51000
52	5+10	... ..	S 15° E	100	10	52000
53	5+20	... ..	S 15° E	100	10	53000
54	5+30	... ..	S 15° E	100	10	54000
55	5+40	... ..	S 15° E	100	10	55000
56	5+50	... ..	S 15° E	100	10	56000
57	5+60	... ..	S 15° E	100	10	57000
58	5+70	... ..	S 15° E	100	10	58000
59	5+80	... ..	S 15° E	100	10	59000
60	5+90	... ..	S 15° E	100	10	60000
61	6+00	... ..	S 15° E	100	10	61000
62	6+10	... ..	S 15° E	100	10	62000
63	6+20	... ..	S 15° E	100	10	63000
64	6+30	... ..	S 15° E	100	10	64000
65	6+40	... ..	S 15° E	100	10	65000
66	6+50	... ..	S 15° E	100	10	66000
67	6+60	... ..	S 15° E	100	10	67000
68	6+70	... ..	S 15° E	100	10	68000
69	6+80	... ..	S 15° E	100	10	69000
70	6+90	... ..	S 15° E	100	10	70000
71	7+00	... ..	S 15° E	100	10	71000
72	7+10	... ..	S 15° E	100	10	72000
73	7+20	... ..	S 15° E	100	10	73000
74	7+30	... ..	S 15° E	100	10	74000
75	7+40	... ..	S 15° E	100	10	75000
76	7+50	... ..	S 15° E	100	10	76000
77	7+60	... ..	S 15° E	100	10	77000
78	7+70	... ..	S 15° E	100	10	78000
79	7+80	... ..	S 15° E	100	10	79000
80	7+90	... ..	S 15° E	100	10	80000
81	8+00	... ..	S 15° E	100	10	81000
82	8+10	... ..	S 15° E	100	10	82000
83	8+20	... ..	S 15° E	100	10	83000
84	8+30	... ..	S 15° E	100	10	84000
85	8+40	... ..	S 15° E	100	10	85000
86	8+50	... ..	S 15° E	100	10	86000
87	8+60	... ..	S 15° E	100	10	87000
88	8+70	... ..	S 15° E	100	10	88000
89	8+80	... ..	S 15° E	100	10	89000
90	8+90	... ..	S 15° E	100	10	90000
91	9+00	... ..	S 15° E	100	10	91000
92	9+10	... ..	S 15° E	100	10	92000
93	9+20	... ..	S 15° E	100	10	93000
94	9+30	... ..	S 15° E	100	10	94000
95	9+40	... ..	S 15° E	100	10	95000
96	9+50	... ..	S 15° E	100	10	96000
97	9+60	... ..	S 15° E	100	10	97000
98	9+70	... ..	S 15° E	100	10	98000
99	9+80	... ..	S 15° E	100	10	99000
100	9+90	... ..	S 15° E	100	10	100000
<b>Total Distance Proposed</b>			<b>146.5m</b>			
<b>Total Distance Served</b>			<b>68.8m</b>			

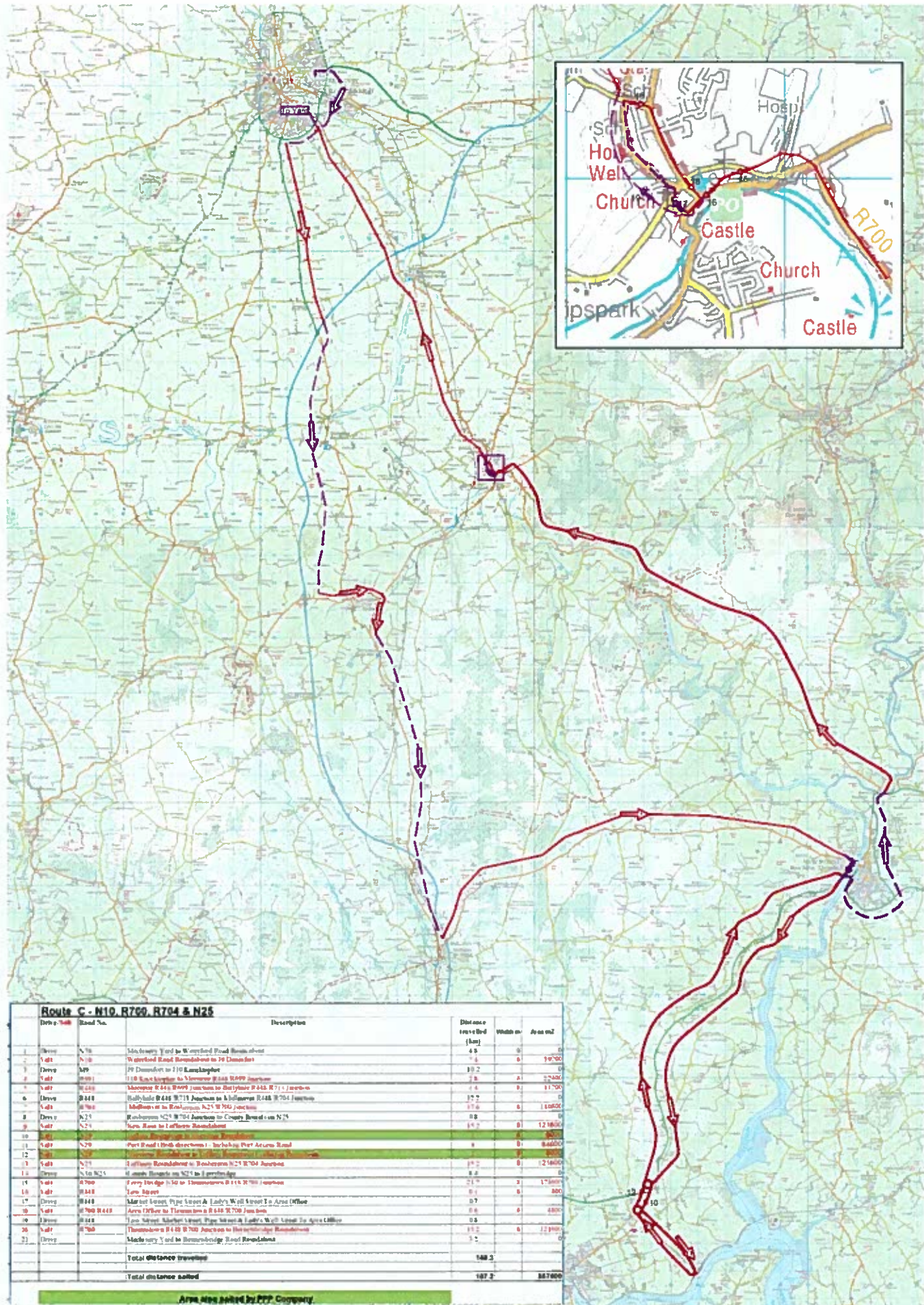
**Also also noted by PFP Company**

**Note for South Tisbury County Council**



Rev	By	Date	Description

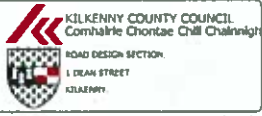
<b>Project</b> KCC Rollins Routes		<b>Drawing No.</b> KCC-RRFP-143-02	
<b>Component</b> Winter Service Plan		<b>Scale</b> 1:125	
<b>Title</b> Route B -N18 N24 & R448 via R608		<b>Date</b> October 2018	
<b>Designed By:</b> SA	<b>Drawn By:</b> VIB	<b>Checked By:</b> SW	



**Route C - N10, R700, R704 & N25**

Item No.	Road No.	Description	Distance (km)	Width (m)	Area (m <sup>2</sup> )
1	N76	Muckanery Yard to Waterford Road Roundabout	4.5	6	0
2	N76	Waterford Road Roundabout to 70 Dunmore	7.6	6	39700
3	R99	70 Dunmore to 110 Keshington	10.2	6	0
4	R99	110 Keshington to Slieve R448 R449 Junction	3.8	6	17200
5	R448	Slieve R448 R449 Junction to Shilbinstee R448 R711 Junction	4.4	6	11700
6	R448	Shilbinstee R448 R711 Junction to Keshington R448 R704 Junction	17.2	6	0
7	R700	Middleton to Keshington N25 R700 Junction	17.6	6	14600
8	N25	Keshington N25 R704 Junction to County Road on N25	0.8	6	0
9	N25	County Road to Lifford Roundabout	14.7	6	121800
10	N25	Lifford Roundabout to County Road Junction	0.8	6	0
11	N25	County Road Junction to Port Road (Both directions) - including Port Arona Road	0	6	0
12	N25	Port Road (Both directions) to Lifford Roundabout	0	6	0
13	N25	Lifford Roundabout to Keshington N25 R704 Junction	17.2	6	121800
14	N25	Keshington N25 to Lifford Junction	0.8	6	0
15	R700	Lifford Bridge to 50 to Slieve R448 R449 Junction	21.7	6	17200
16	R448	Lifford Bridge	0.1	6	800
17	R448	Marbet Street, Pipe Street & Lady's Well Street to Area (White)	0.7	6	0
18	R448	Area (White) to Thomas to R448 R700 Junction	0.8	6	4800
19	R448	Thomas to Keshington Slieve R448 R700 Junction to Lady's Well Street to Area (White)	0.5	6	0
20	R700	Thomas to Keshington Slieve R448 R700 Junction to Slieve R448 R449 Junction	11.2	6	121800
21	R700	Muckanery Yard to Keshington Road Roundabout	5.2	6	0
<b>Total distance travelled</b>			<b>148.2</b>		
<b>Total distance built</b>			<b>147.2</b>		<b>287600</b>

Area was added by PPF Company



Rev	By	Date	Description

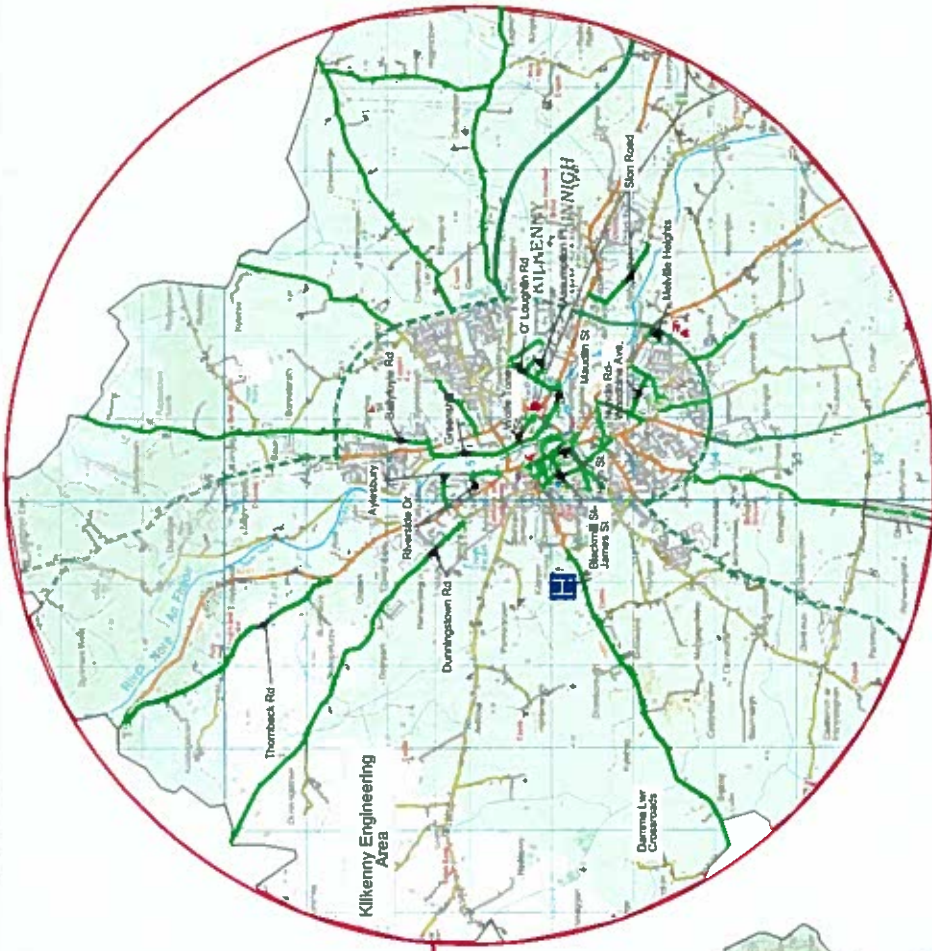
Tender Issue

Project:	KCC Spring Review		
Component:	Winter Service Plan		
Title:	Route C- N10, R700, R704 & N25		
Designed By:	SA	File Name:	
Drawn By:	MS	Scale:	NTS
Checked By:	SW	Date:	October 2019
		Drawing No.:	KCC-WSP13/19

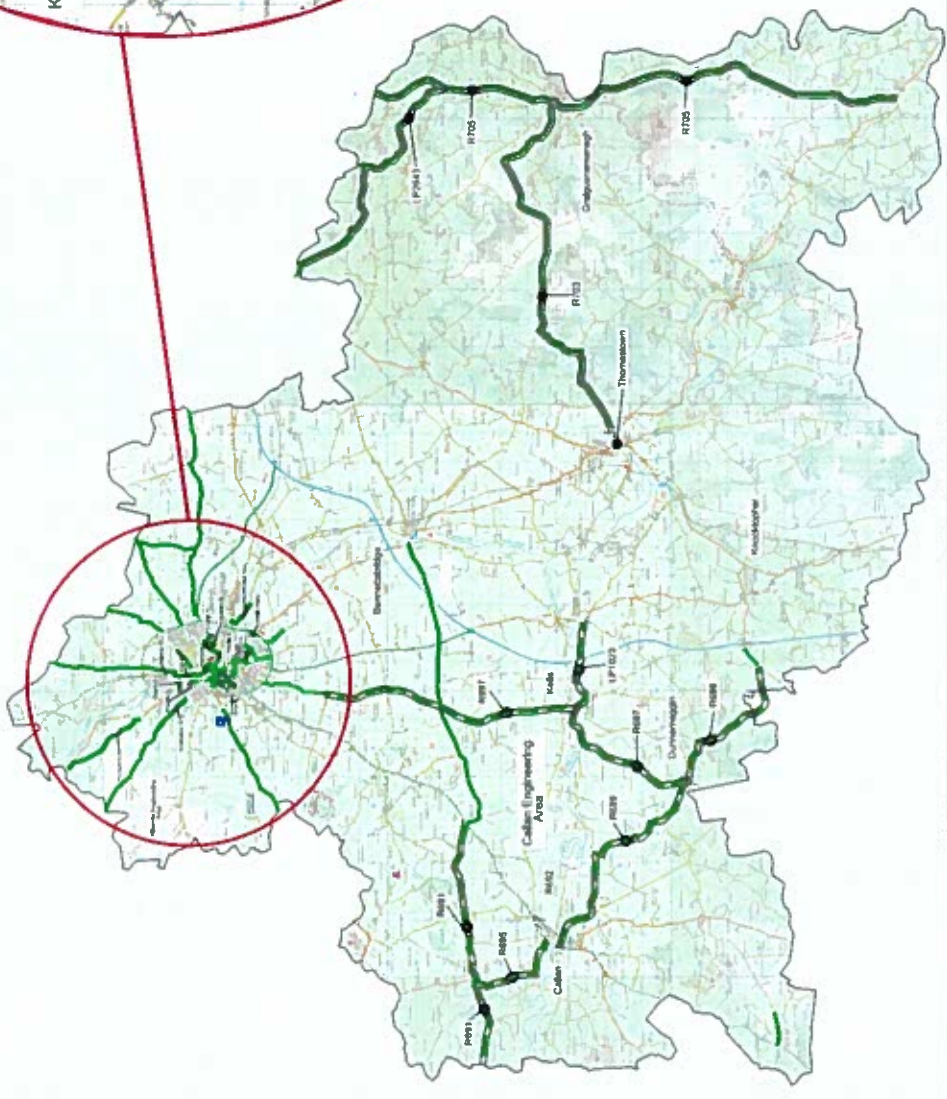


# **Appendix 2 - Priority 3**

## **Treatment Routes**



Kilkenny County Council will provide periodic water maintenance services on Priority 3 Routes (Green Routes). Such services will only be provided on selected occasions associated with the anticipation of particularly severe weather conditions. Roadworks and any other activities that preclude access have been excluded to the Priority 3 Network.

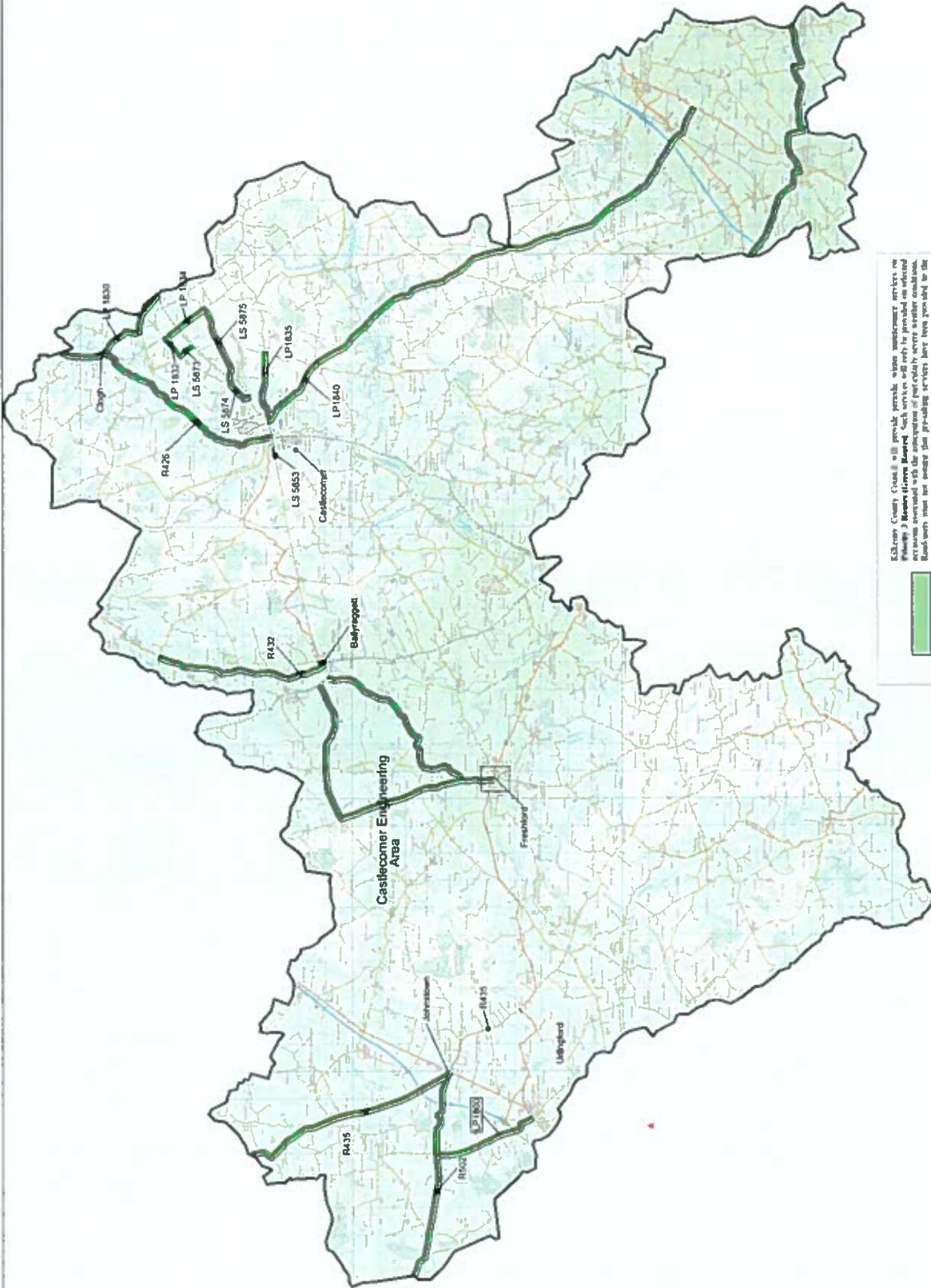


Project:	NCC Sailing Routes
Component:	Water Maintenance
Title:	Priority 3 Cullinstown/Kilkenny Thombacktown
Developed By:	SA
Drawn By:	MS
Checked By:	BN
File Name:	MS
Scale:	MS
Date:	October 2013
Drawn on:	ACCOMPLISH

No.	By	Date	Description

**KILKENNY COUNTY COUNCIL**  
 COMMUNITY DEVELOPMENT SECTION  
 1 DEAN STREET  
 KILKENNY





Kilkenny County Council will provide periodic water maintenance services on Priority 3 Routes (where feasible). Such services will only be provided on selected occasions associated with the completion of particular survey weather conditions. Road users must not assume that pre-siding services have been provided for the entire network.

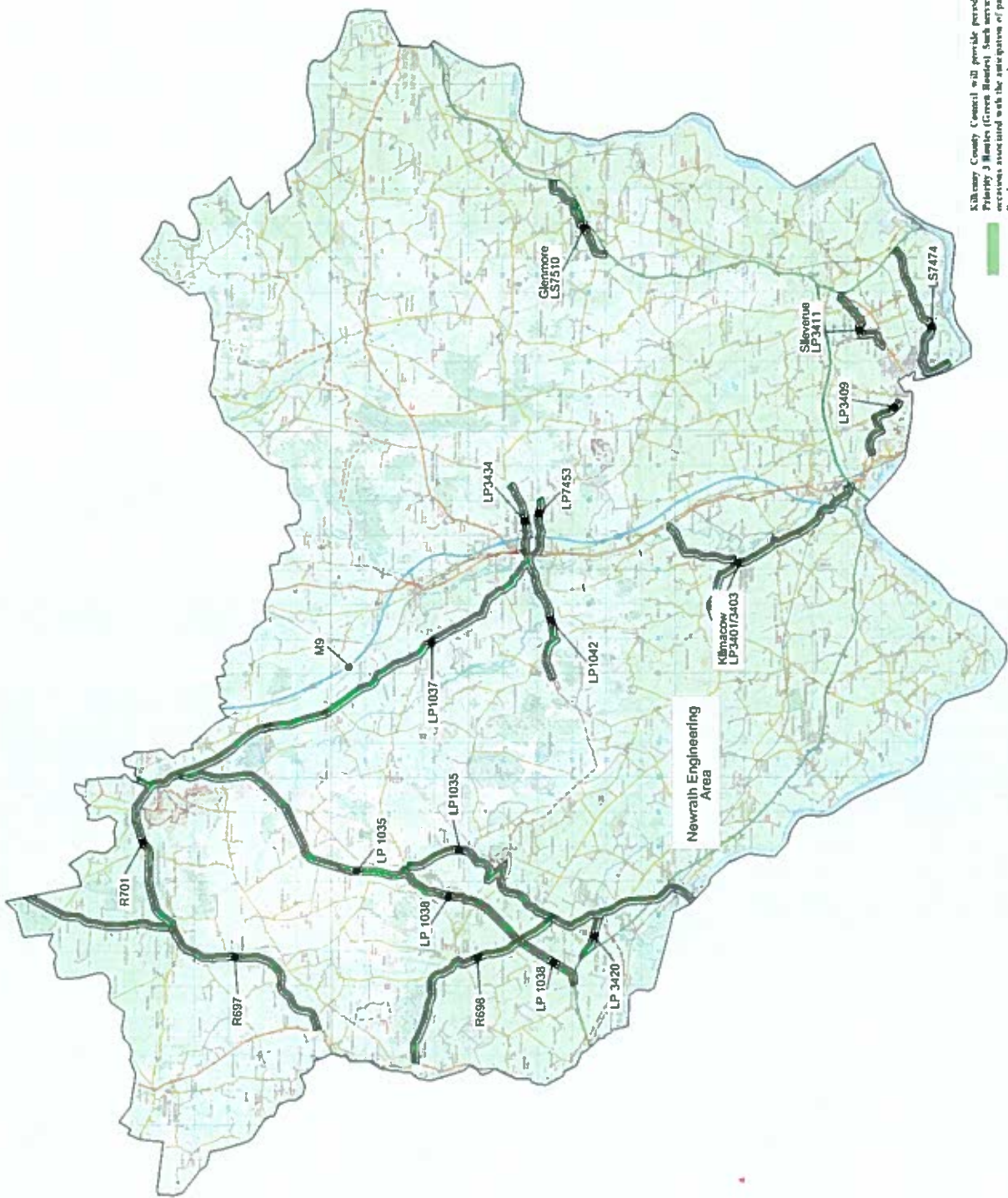


**KILKENNY COUNTY COUNCIL**  
 COMMUNITY CHALLENGE  
 ROAD DESIGN SECTION  
 1 DEAN STREET  
 KILKENNY



Rev	By	Date	Description

Project: NSCC Ballyragget  
 Department: Water Maintenance  
 Title: Priority 3 Routes Castlecomer Area  
 Drawn By: SA  
 Design By: WTS  
 Scale: 1:5000  
 Checked By: BJS  
 Date: December 2008  
 Drawing No: KCC-04/08/02



Kildare County Council will provide periodic water maintenance services on Priority 3 Roads. Current Road Water services will be provided on selected roads. The roads highlighted in green on this map are roads where no existing Roadwater services have been provided to the Priority 3 Network.

**KILDARE COUNTY COUNCIL**  
 Planning & Design Section  
 1 CLARA STREET  
 KILDARE, CO. DU.



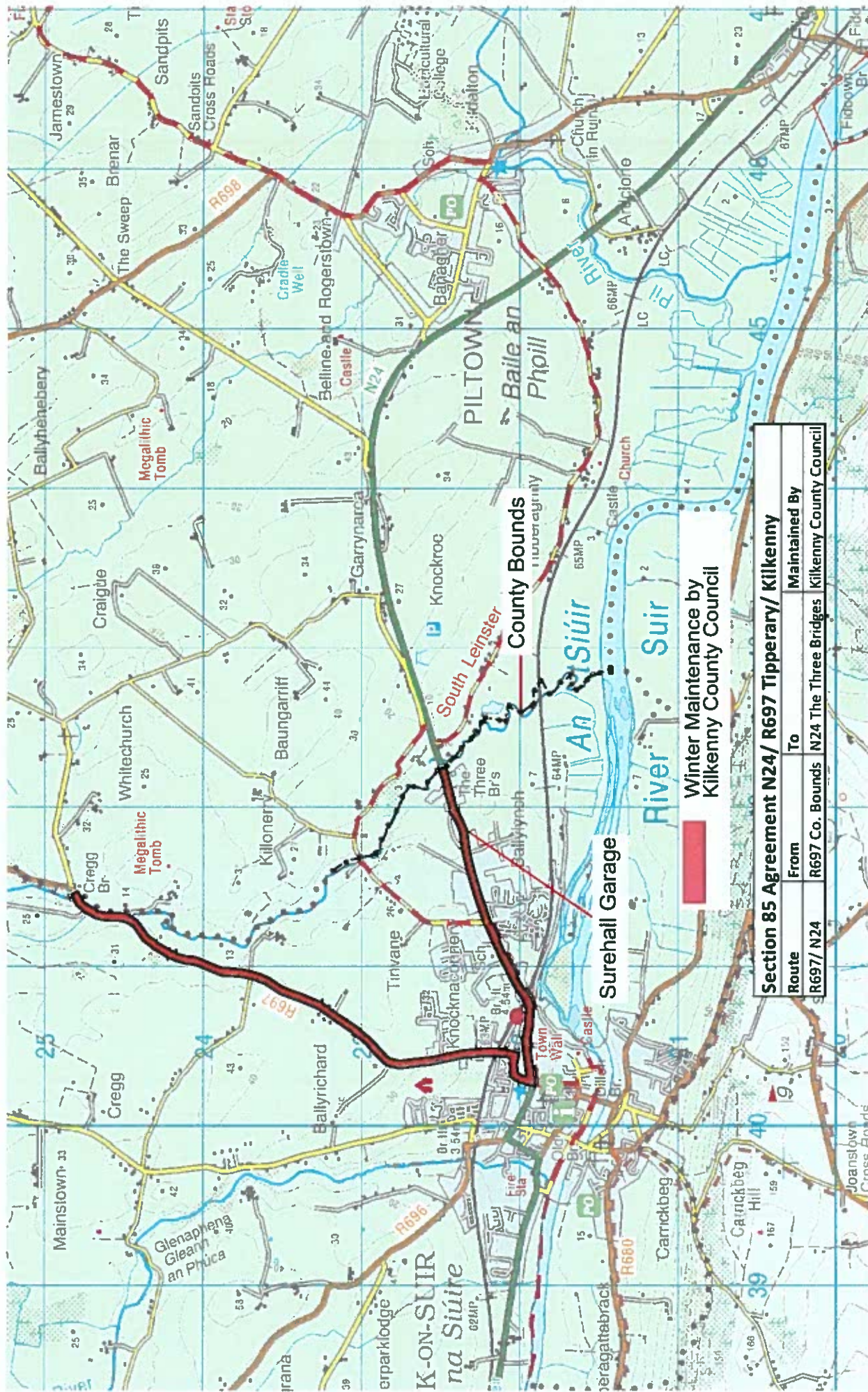
Rev	By	Date	Description

Project:	KCC Culling Routes
Component:	Water Maintenance
Title:	Priority 3 Routes Filtered Area
Designed By:	SA
Drawn By:	WB
Checked By:	BW
Scale:	NTS
Date:	October 2008

Drawn by:	WB	Checked by:	BW
Scale:	NTS	Date:	October 2008
Project:	KCC Culling Routes	Component:	Water Maintenance
Title:	Priority 3 Routes Filtered Area	Drawn by:	WB
Checked by:	BW	Date:	October 2008



# **Appendix 3 - Section 85 -** **Treatment Routes Maps**



Winter Maintenance by  
Kilkenny County Council

Route	From	To	Maintained By
R697/ N24	R697 Co. Bounds	N24 The Three Bridges	Kilkenny County Council

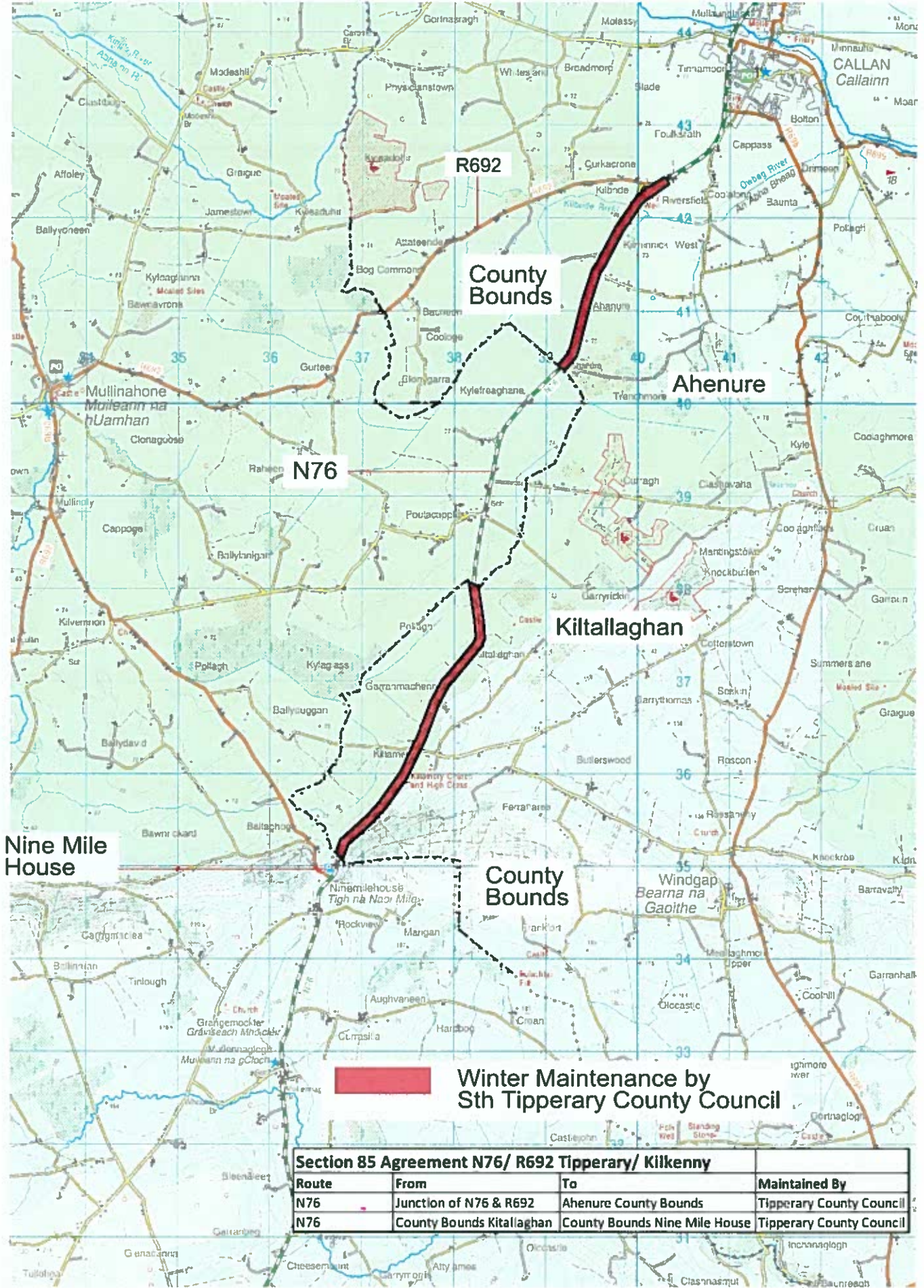


KILKENNY COUNTY COUNCIL  
COUNTRYSIDE CHARGE CHALLENGE

ROAD DESIGN SECTION  
1 DEAN STREET  
KILKENNY.

Rev	By	Date	Description

Project:	KCC Salting Routes
Component:	Winter Maintenance
Title:	Section 85 Tipperary County Council
Designed By:	MA
Drawn By:	MS
Scale:	1:1000
Checked By:	DM
Date:	October 2013



**Winter Maintenance by Sth Tipperary County Council**

Section 85 Agreement N76/ R692 Tipperary/ Kilkenny			
Route	From	To	Maintained By
N76	Junction of N76 & R692	Ahenure County Bounds	Tipperary County Council
N76	County Bounds Kiltallaghan	County Bounds Nine Mile House	Tipperary County Council



Rev	By	Date	Description

Project:	KCC Setting Rules		
Component:	Winter Maintenance		
Title:	Section 85 Tipperary County Council		
Designed By:	SA	File Name:	
Drawn By:	HB	Scale:	NTS
Checked By:	BVW	Date:	October 2015
		Drawing No.:	KCC-494-08