



To: Cathaoirleach and Each Member of Kilkenny County Council

Re: Winter Maintenance Plan 2022/2023

Date: 17th October 2022

A Chara

The Winter Maintenance Season for 2022/2023 will extend from the 17th October 2022 to 30th April 2023. 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 2022/2023.

Members are advised that the service delivery target for the Priority 1 and 2 network is to keep these roads frost/ice free 24hrs 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 and additional funding in the Revenue Account.

A full copy of the Winter Services Plan 2022/2023 will be published on the Council's website.

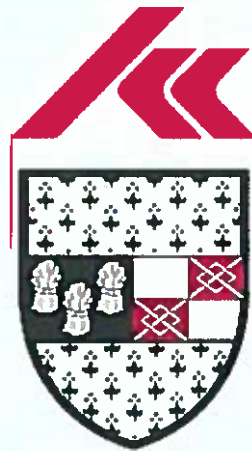
Area Engineers will also present to the Elected Members (*at individual Municipal District Committee Meetings*) the details of the proposed Priority 3 Routes for 2022/2023. These are the routes that do not receive treatment to the standard pertaining to Priority 1 and 2 but which are treated periodically 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 2022/2023 in line with the details set out in this memo to the Elected Members.

Tim Butler
Director of Services

Kilkenny County Council



Winter Service Plan 2022 -2023



October 2022

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1. Document Control

Role	Name	Signature	Date
Prepared By:	Kieran Kelly		
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 17th, 2022 to April 30th, 2023). 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

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	1hr	1hr	When possible
Treatment Time	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	No rain No hoar frost No fog		Salt before frost (see note b)	
	Expected hoar frost Expected fog			
	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

Drawing. No.	Drawing Name	Date
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

Duty Engineer	Duty Period Start	Duty Period Finish
Seamus Kavanagh	17/10/2022	23/10/2022
Philippe Beubry	24/10/2022	30/10/2022
Stan Cullen	31/10/2022	06/11/2022
Declan Murphy	07/11/2022	13/11/2022
Seamus Kavanagh	14/11/2022	20/11/2022
Philippe Beubry	21/11/2022	27/11/2022
Stan Cullen	28/11/2022	04/12/2022
Declan Murphy	05/12/2022	11/12/2022
Seamus Kavanagh	12/12/2022	18/12/2022
Philippe Beubry	19/12/2022	25/12/2022
Stan Cullen	26/12/2022	01/01/2023
Declan Murphy	02/01/2023	08/01/2023
Seamus Kavanagh	09/01/2023	15/01/2023
Philippe Beubry	16/01/2023	22/01/2023
Stan Cullen	23/01/2023	29/01/2023
Declan Murphy	30/01/2023	05/02/2023
Seamus Kavanagh	06/02/2023	12/02/2023
Philippe Beubry	13/02/2023	19/02/2023
Stan Cullen	20/02/2023	26/02/2023
Declan Murphy	27/02/2023	05/03/2023
Seamus Kavanagh	06/03/2023	12/03/2023
Philippe Beubry	13/03/2023	19/03/2023
Stan Cullen	20/03/2023	26/03/2023
Declan Murphy	27/03/2023	02/04/2023
Seamus Kavanagh	03/04/2023	09/04/2023
Philippe Beubry	10/04/2023	16/04/2023
Stan Cullen	17/04/2023	23/04/2023
Declan Murphy	24/04/2023	30/04/2023

Table 6.2 Drivers and Fitters Roster

Drivers	Fitters	Duty Period Start	Duty Period Finish
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	17/10/2022	23/10/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	24/10/2022	30/10/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	31/10/2022	06/11/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	07/11/2022	13/11/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	14/11/2022	20/11/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	21/11/2022	27/11/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	28/11/2022	04/12/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	05/12/2022	11/12/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	12/12/2022	18/12/2022
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	19/12/2022	25/12/2022
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	26/12/2022	01/01/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	02/01/2023	08/01/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	09/01/2023	15/01/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	16/01/2023	22/01/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	23/01/2023	29/01/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	30/01/2023	05/02/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Michael Lonergan/Declan Lawlor	06/02/2023	12/02/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Andy Cleere/James Fenlon	13/02/2023	19/02/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	20/02/2023	26/02/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	27/02/2023	05/03/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	06/03/2023	12/03/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	13/03/2023	19/03/2023
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Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Paul Hogan/Pat Kavanagh	03/04/2023	09/04/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Michael Lonergan/Declan Lawlor	10/04/2023	16/04/2023
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/James Fenlon	17/04/2023	23/04/2023
David Dooley, Martin Morrissey, Mick Brennan, Michael Reade	Paul Hogan/Pat Kavanagh	24/04/2023	30/04/2023

7. Treatment Matrix

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

- Pre-salting is provided at a rate of 10g/m²
- 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/m² 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 ³ Pre-Wet	Nov '22	Nov '22	Nov '23	Nov '23
SG9 – Demountable	Machinery Yard	9m ³ Pre Wet	Nov '22	Nov '22	Nov '23	Nov '23
SG8 – Demountable	Machinery Yard	9m ³	Oct '22	Oct '22	Oct '23	Oct '23
SG7 – Demountable	Machinery Yard	9m ³	Oct '22	Oct '22	Oct '23	Oct '23
SG6 – Demountable	Machinery Yard	9m ³	Oct '22	Oct '22	Oct '23	Oct '23
SG5 – Demountable	Machinery Yard	9m ³	Oct '22	Oct '22	Oct '23	Oct '23
SG4 – Demountable	Machinery Yard	7m ³	Oct '22	Oct '22	Oct '23	Oct '23
SG3 – Demountable	Machinery Yard	6m ³				
SG2 – Demountable	Machinery Yard	6m ³				
SG1 – Demountable	Machinery Yard	5m ³				
CLN1 - Demountable	Thomastown Depot	3m ³				
CLN2 - Demountable	Callan Depot	1.5m ³				
CLN3 – Demountable	Kilmaganny Depot	1.5m ³				
CLN4 – Towable	Kilkenny Depot	3m ³				
CC1 – Towable	Johnstown Depot	4.5m ³				
CC2 – Towable	Castlecomer Depot	4.5m ³				
N1 - Demountable	Listerlin Depot	3m ³				
KK1 - Demountable	Machinery Yard	3m ³				
TT1 - Demountable	Graignamanagh Depot	3.8m ³				
TT2 - Demountable	Gowran Depot	2.6m ³				

TT3 – Towable	Thomastown Depot	4.5m ³				
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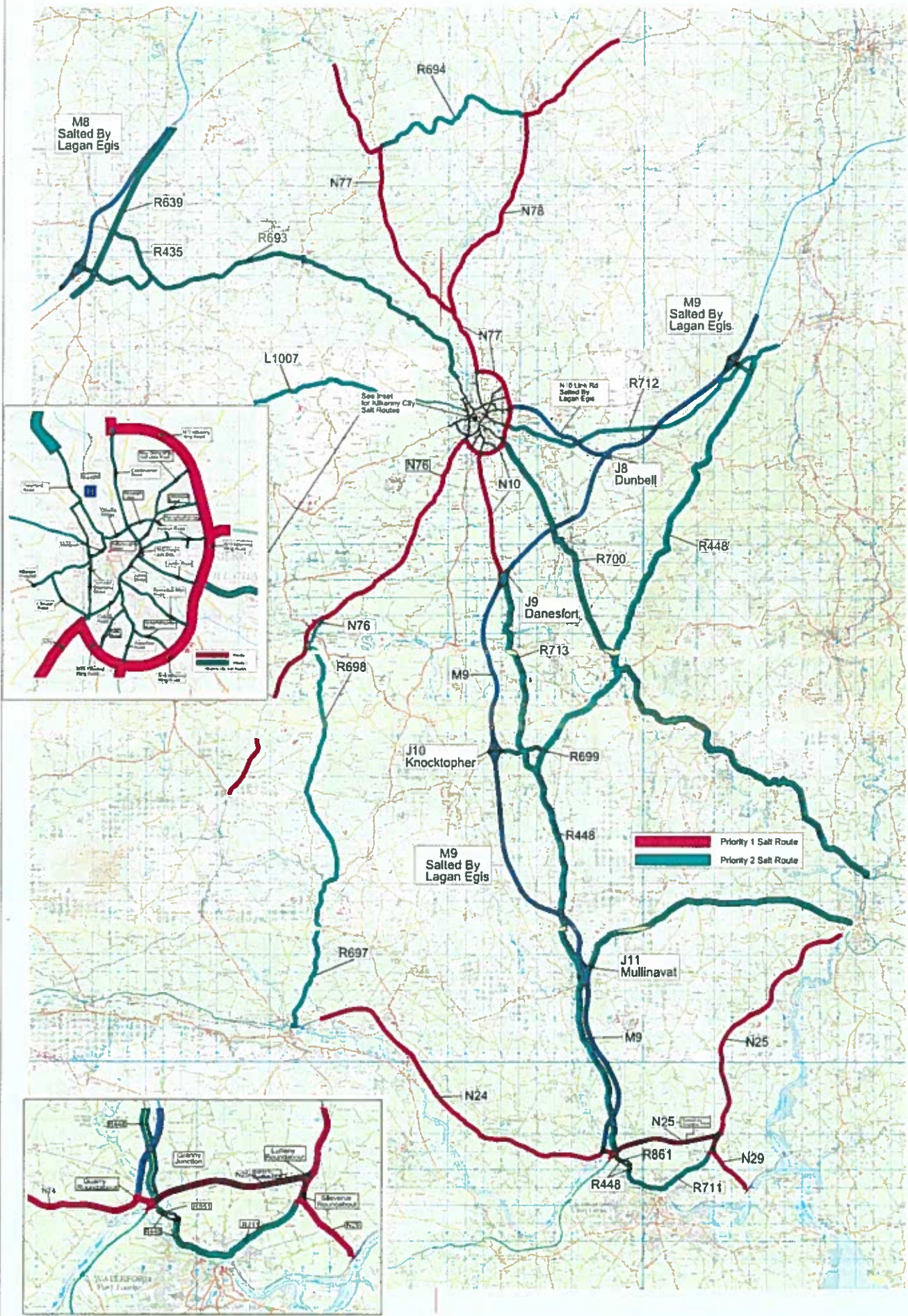
Table 9.2 Snow Ploughs & Loading Shovels

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of Next Service
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	
Snowplough - 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
Sean McKeown	Acting 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
Kieran Kelly	Machinery Yard Engineer	Kilkenny County Council	Machinery Yard
Art Hennessy	Technical Services Supervisor	Kilkenny County Council	Machinery Yard
Sinead Fanning	Health & Safety Advisor	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
Superintendent Anthony Farrell	Traffic Corps	An Garda Siochana	Thomastown Garda Station

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

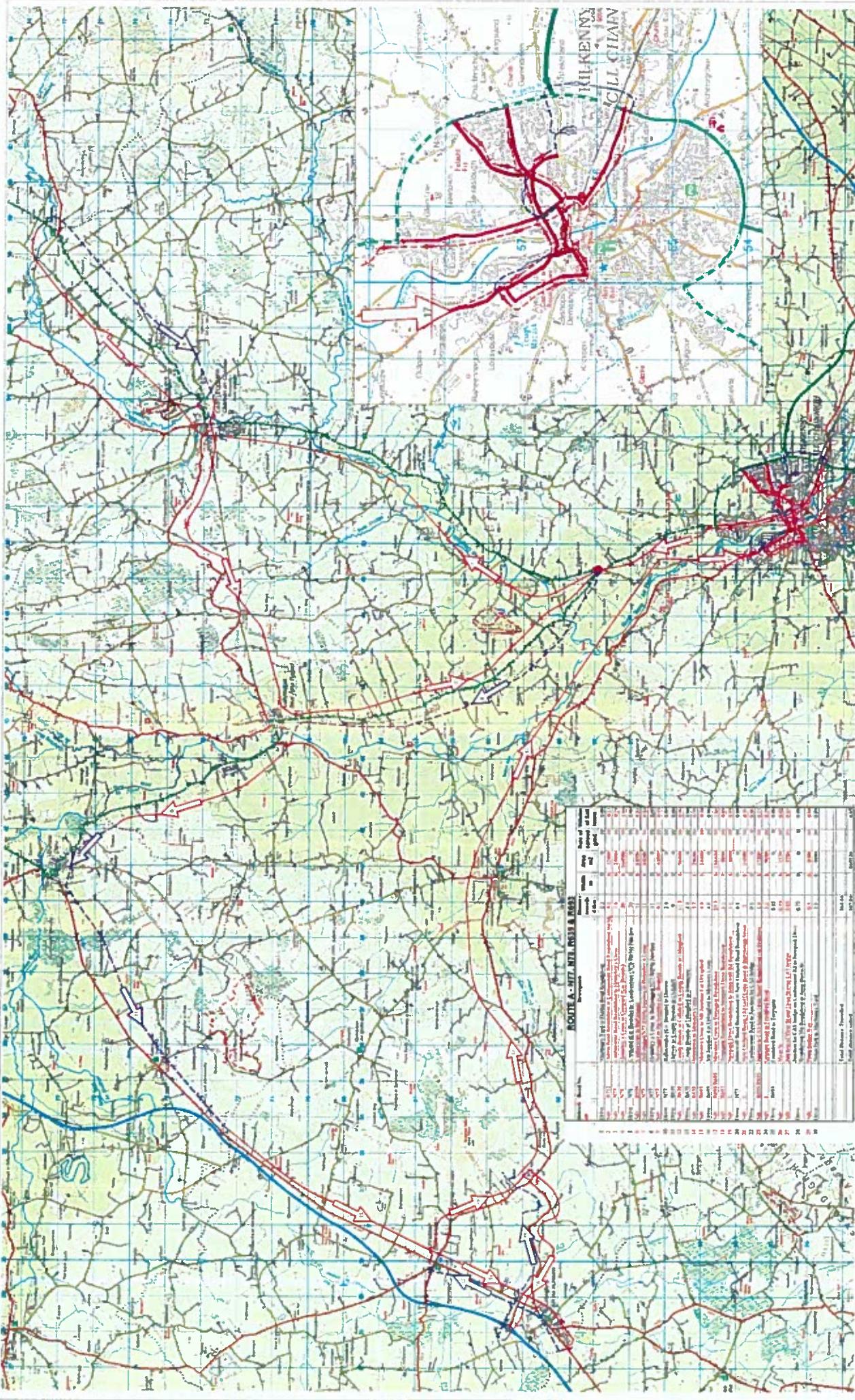


— Priority 1 Salt Route
— Priority 2 Salt Route



Rev.	By	Date	Description

Project		KCC Salting Routes	
Client		Water Management	
Title		Priority 1 & 2 Routes	
Designed By	SA	File Name	
Drawn By	HT	Scale	NTS
Checked By	HT	Date	October 2015
			Drawing No.
			KCC-AR-01



ROUTE A - N17, N18, N19 & N20

Route No.	Start	End	Length (km)	Area (ha)	Rate of Road (€ per km)	Rate of Area (€ per ha)
N17	1.000	1.000	0.00	0.00	0.00	0.00
N18	1.000	1.000	0.00	0.00	0.00	0.00
N19	1.000	1.000	0.00	0.00	0.00	0.00
N20	1.000	1.000	0.00	0.00	0.00	0.00
Total			0.00	0.00	0.00	0.00

Notes:

- 1. This route is a proposed new road.
- 2. The route is shown in red on the map.
- 3. The route is shown in blue on the map.
- 4. The route is shown in green on the map.
- 5. The route is shown in yellow on the map.
- 6. The route is shown in orange on the map.
- 7. The route is shown in purple on the map.
- 8. The route is shown in pink on the map.
- 9. The route is shown in light blue on the map.
- 10. The route is shown in light green on the map.
- 11. The route is shown in light yellow on the map.
- 12. The route is shown in light orange on the map.
- 13. The route is shown in light purple on the map.
- 14. The route is shown in light pink on the map.
- 15. The route is shown in light light blue on the map.
- 16. The route is shown in light light green on the map.
- 17. The route is shown in light light yellow on the map.
- 18. The route is shown in light light orange on the map.
- 19. The route is shown in light light purple on the map.
- 20. The route is shown in light light pink on the map.

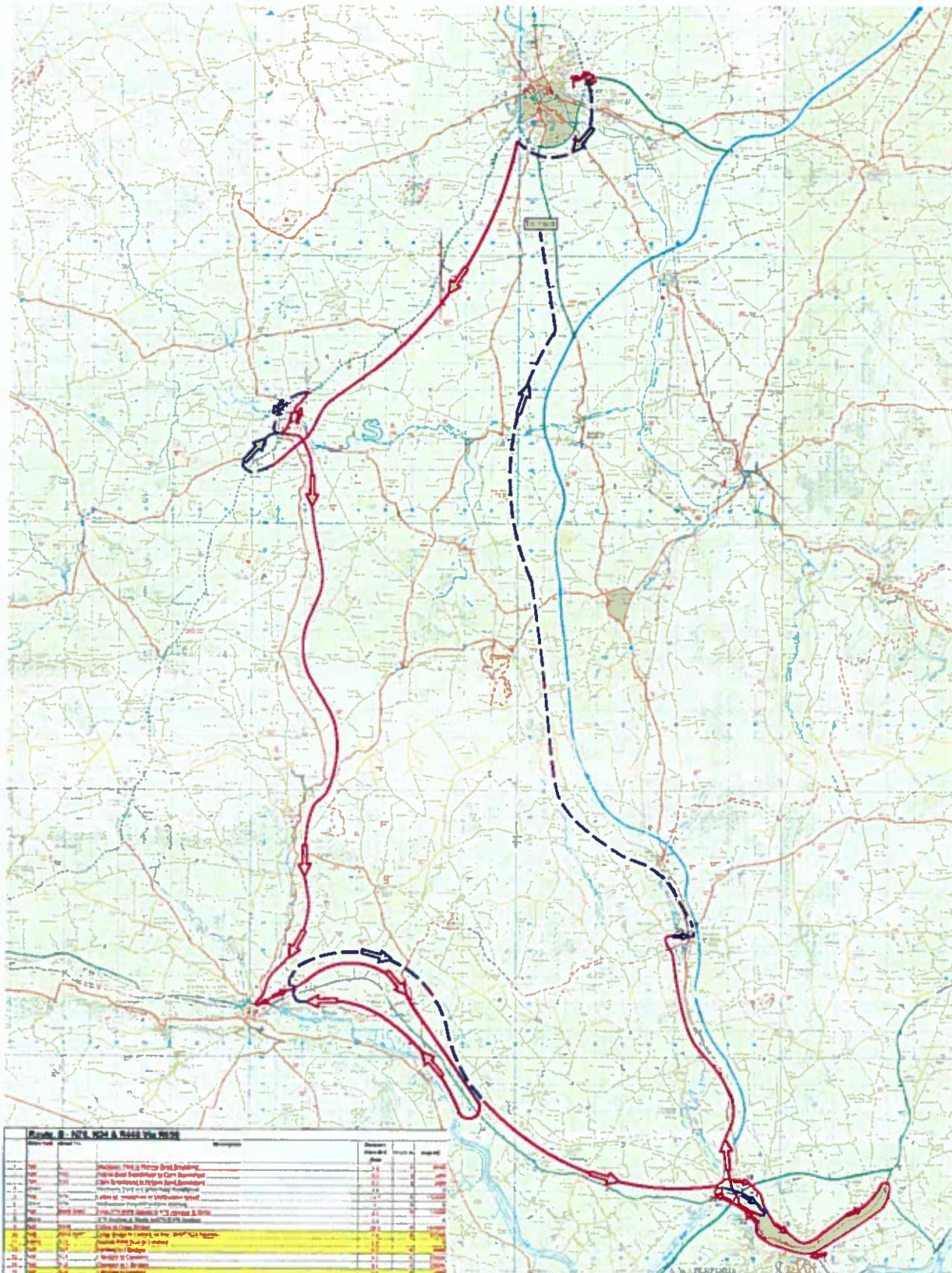
KILKENNY COUNTY COUNCIL
COMHAIRLE CHONTAE CHILL CHAITHNIGH
 ROAD DESIGN SECTION
 1: SCALE TITLE
 ROADWAY

Project: KCC Sailing Routes
Water Services Plan
 Route A-N17, N18, N19 & N20

Drawn By: PS
Checked By: PK

Date: 11/11/11
Scale: 1:10,000
Sheet: 1 of 1

Project No.: KCC/11/11/11
Drawn No.: 11/11/11
Checked No.: 11/11/11



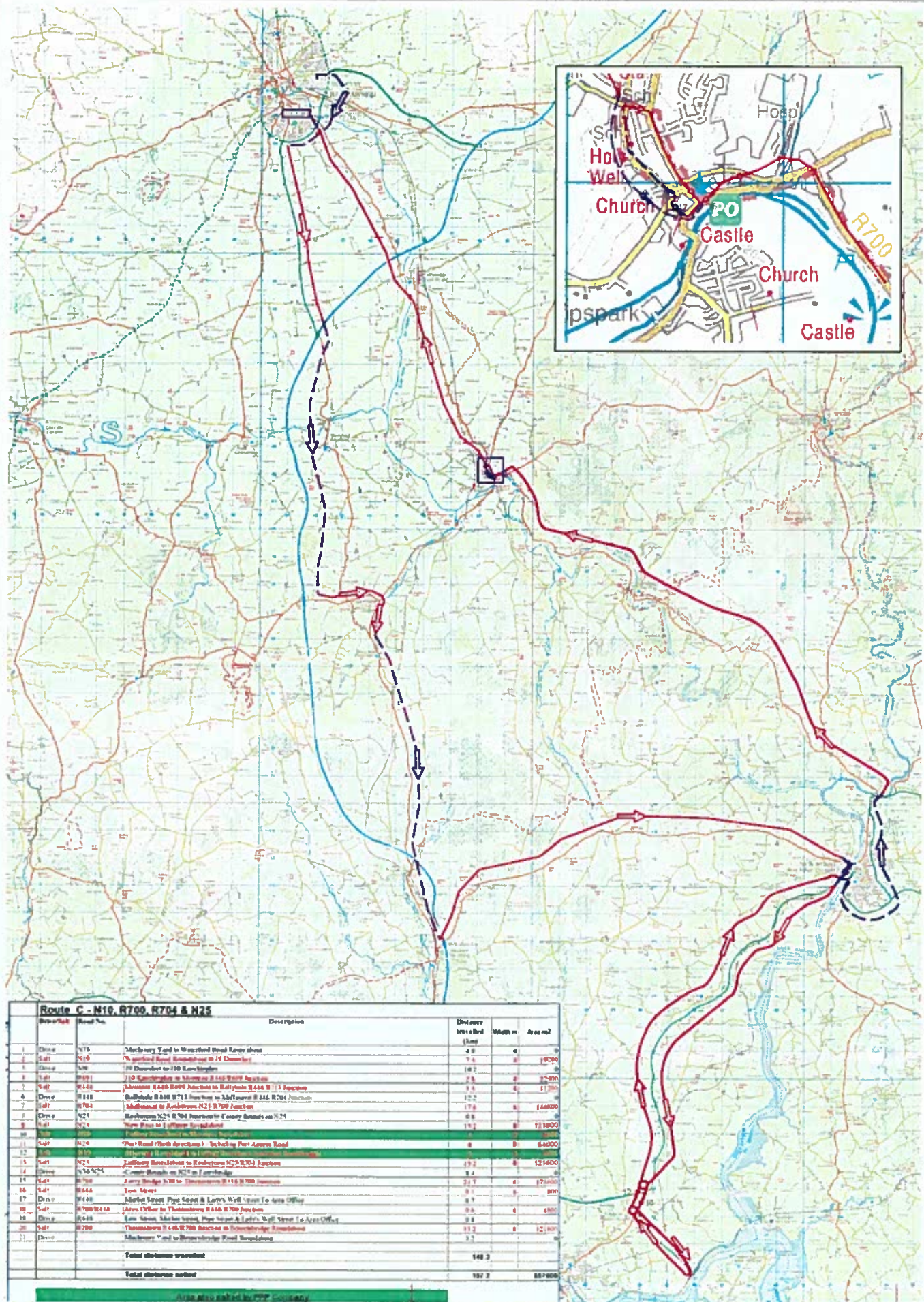
Route 11 - 1177, 124 & 124A via P955

Station	Description	Station Number	Length (m)	Material	Notes
0+00	1177	0+00	100	150mm	1177
0+100	124	0+100	100	150mm	124
0+200	124A	0+200	100	150mm	124A
0+300	1177	0+300	100	150mm	1177
0+400	124	0+400	100	150mm	124
0+500	124A	0+500	100	150mm	124A
0+600	1177	0+600	100	150mm	1177
0+700	124	0+700	100	150mm	124
0+800	124A	0+800	100	150mm	124A
0+900	1177	0+900	100	150mm	1177
1+000	124	1+000	100	150mm	124
1+100	124A	1+100	100	150mm	124A
1+200	1177	1+200	100	150mm	1177
1+300	124	1+300	100	150mm	124
1+400	124A	1+400	100	150mm	124A
1+500	1177	1+500	100	150mm	1177
1+600	124	1+600	100	150mm	124
1+700	124A	1+700	100	150mm	124A
1+800	1177	1+800	100	150mm	1177
1+900	124	1+900	100	150mm	124
2+000	124A	2+000	100	150mm	124A
2+100	1177	2+100	100	150mm	1177
2+200	124	2+200	100	150mm	124
2+300	124A	2+300	100	150mm	124A
2+400	1177	2+400	100	150mm	1177
2+500	124	2+500	100	150mm	124
2+600	124A	2+600	100	150mm	124A
2+700	1177	2+700	100	150mm	1177
2+800	124	2+800	100	150mm	124
2+900	124A	2+900	100	150mm	124A
3+000	1177	3+000	100	150mm	1177
3+100	124	3+100	100	150mm	124
3+200	124A	3+200	100	150mm	124A
3+300	1177	3+300	100	150mm	1177
3+400	124	3+400	100	150mm	124
3+500	124A	3+500	100	150mm	124A
3+600	1177	3+600	100	150mm	1177
3+700	124	3+700	100	150mm	124
3+800	124A	3+800	100	150mm	124A
3+900	1177	3+900	100	150mm	1177
4+000	124	4+000	100	150mm	124
4+100	124A	4+100	100	150mm	124A
4+200	1177	4+200	100	150mm	1177
4+300	124	4+300	100	150mm	124
4+400	124A	4+400	100	150mm	124A
4+500	1177	4+500	100	150mm	1177
4+600	124	4+600	100	150mm	124
4+700	124A	4+700	100	150mm	124A
4+800	1177	4+800	100	150mm	1177
4+900	124	4+900	100	150mm	124
5+000	124A	5+000	100	150mm	124A



Rev	By	Date	Description

Project:	KCC Salina Routes		
Component:	Water Service Plan		
Title:	Route 11 - 1177, 124 & 124A via P955		
Designed By:	EA	File Name:	
Drawn By:	HS	Scale:	MIS
Checked By:	SW	Date:	10/06/2015
			Drawing No: KCC-WSP-13302



Route C - N10, R700, R704 & N25					
Order	Direction	Road No.	Description	Distance (km)	Area (ha)
1	Drive	N10	Mechery Yard to Waterford Road Roundabout	4.0	0
2	Left	N10	Waterford Road Roundabout to 10 Downhill	7.5	10000
3	Drive	N10	10 Downhill to 110 East Street	10.7	0
4	Left	R700	110 East Street to Junction of R446 & R700 Junction	2.5	2500
5	Left	R446	Junction of R446 & R700 Junction to Ballinacorney R446 & R111 Junction	12.2	17000
6	Drive	R446	Ballinacorney R446 & R111 Junction to Northcross R446 & R704 Junction	17.8	14000
7	Left	R704	Northcross to Roundabout N21 & R700 Junction	1.0	14000
8	Drive	N21	Roundabout N21 & R700 Junction to Conroy Roundabout N21	0.8	0
9	Left	N21	Conroy Roundabout to 100 Years Road	15.1	110000
10	Left	N21	100 Years Road to 100 Years Road	0	0
11	Left	N21	100 Years Road (Both directions) to 100 Years Road	0	64000
12	Left	N21	100 Years Road to 100 Years Road	0	0
13	Left	N21	100 Years Road to Roundabout N21 & R704 Junction	17.2	121600
14	Drive	N10 & N25	Roundabout N21 & R704 Junction to 100 Years Road	8.4	0
15	Left	R700	100 Years Road to Junction of R116 & R700 Junction	22.7	170000
16	Left	R446	100 Years Road	0.1	800
17	Drive	R446	100 Years Road to 100 Years Road	0.7	0
18	Left	R700 & R111	100 Years Road to Roundabout N21 & R700 Junction	0.6	400
19	Drive	R446	100 Years Road to 100 Years Road	0.8	0
20	Left	R700	100 Years Road to 100 Years Road	11.3	12100
21	Drive	N10	Mechery Yard to Waterford Road Roundabout	4.0	0
Total distance travelled				148.3	
Total distance notted				187.3	887800

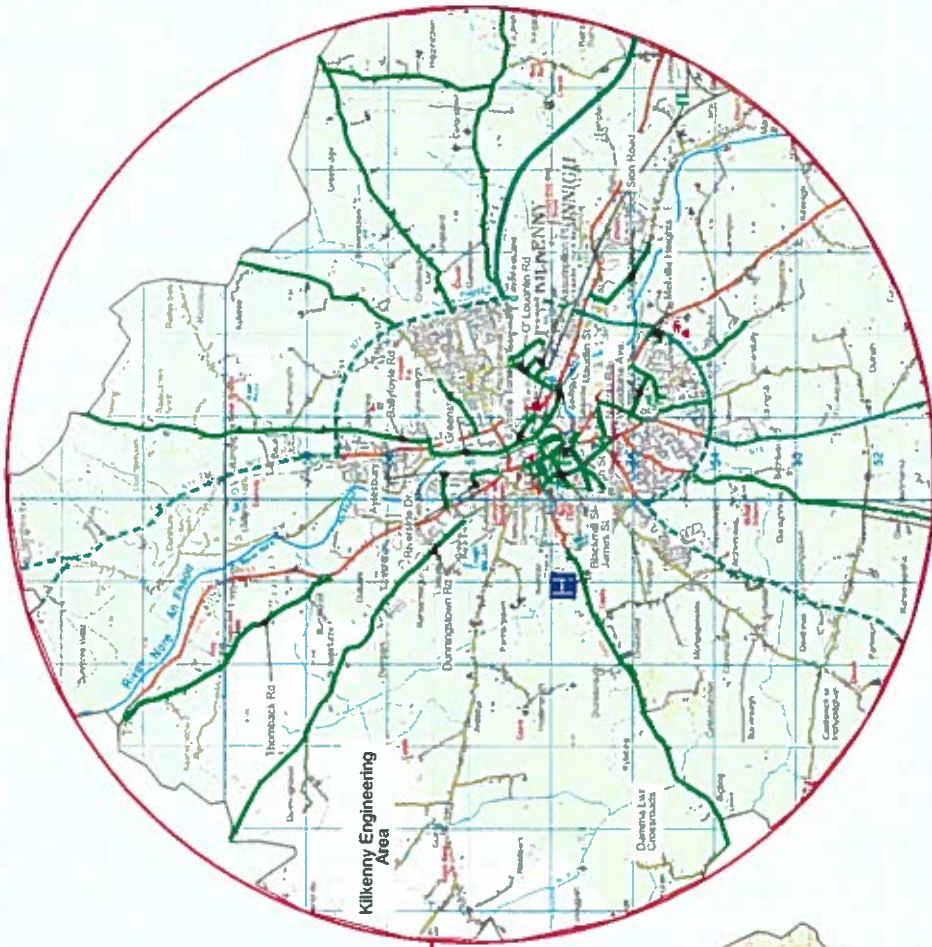


Rev	By	Date	Description

Project: KCC Salting Routes	
Department: Winter Services Plan	
Title: Route C - N10, R700, R704 & N25	
Designed By: SA	File Name: Drawing 100
Drawn By: HB	Scale: NTS
Checked By: WW	Date: October 2010

Appendix 2 - Priority 3

Treatment Routes



Kilkenny County Council will provide periodic winter maintenance services on Priority 3 Routes (rivers/roads). Such services will only be provided on selected occasions associated with the anticipation of particularly severe weather conditions. Roadside signs and signage that regulatory services have been extended to the River Nore.



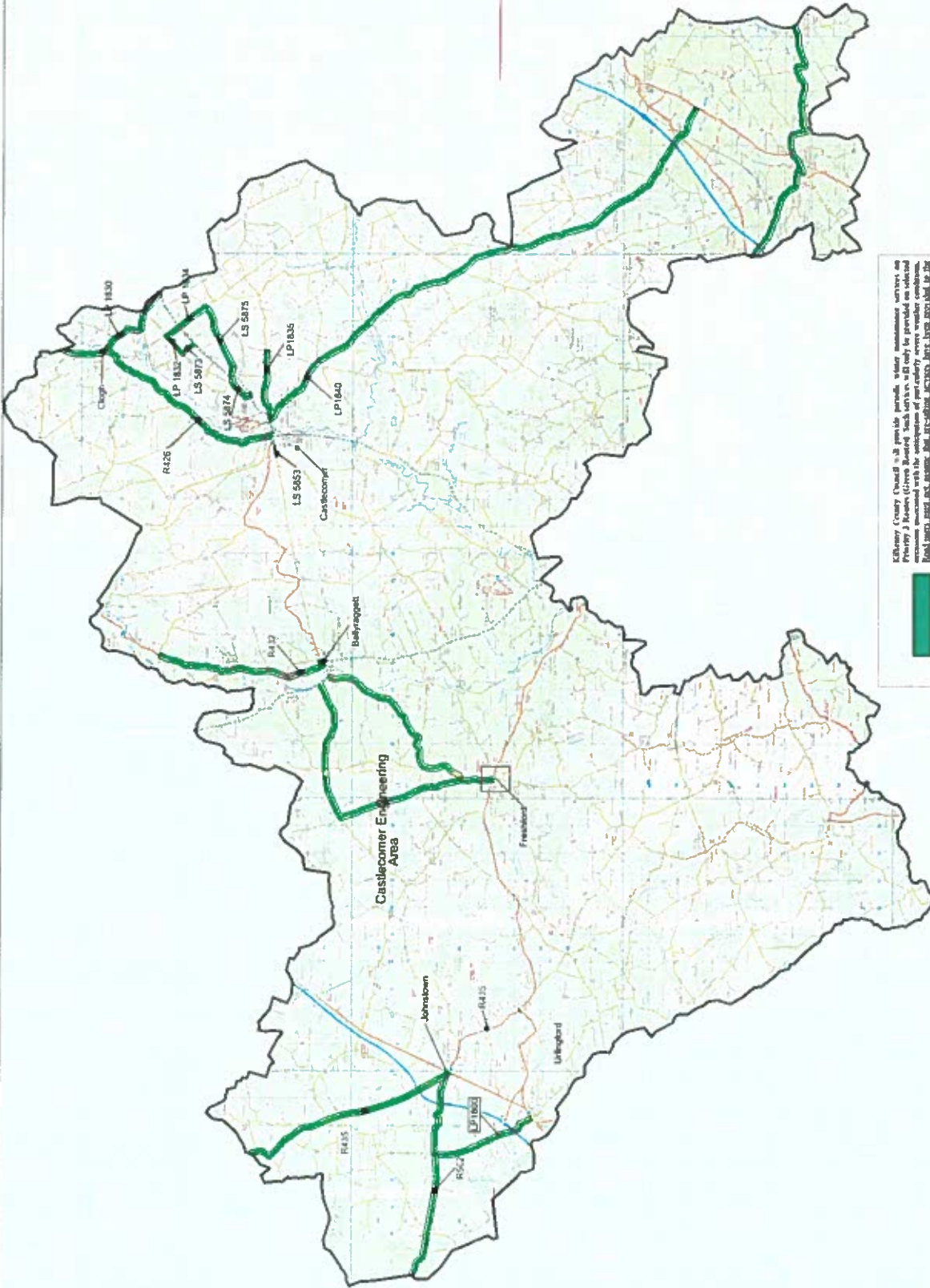
Project	RCC Salting Routes
Client	Water Lias Division
Contract	Priority 3 Corkan Railway Homestead
Drawn By	E.A.
Checked By	R.B.
Scale	1:10,000
Date	11/01/2011

Rev	By	Date	Description

KILKENNY COUNTY COUNCIL
 COMBATABLE CHURCH O'NEILL CHAIRMAN

10000 BLOSSOM STREET
 KILKENNY, CO. KILKENNY





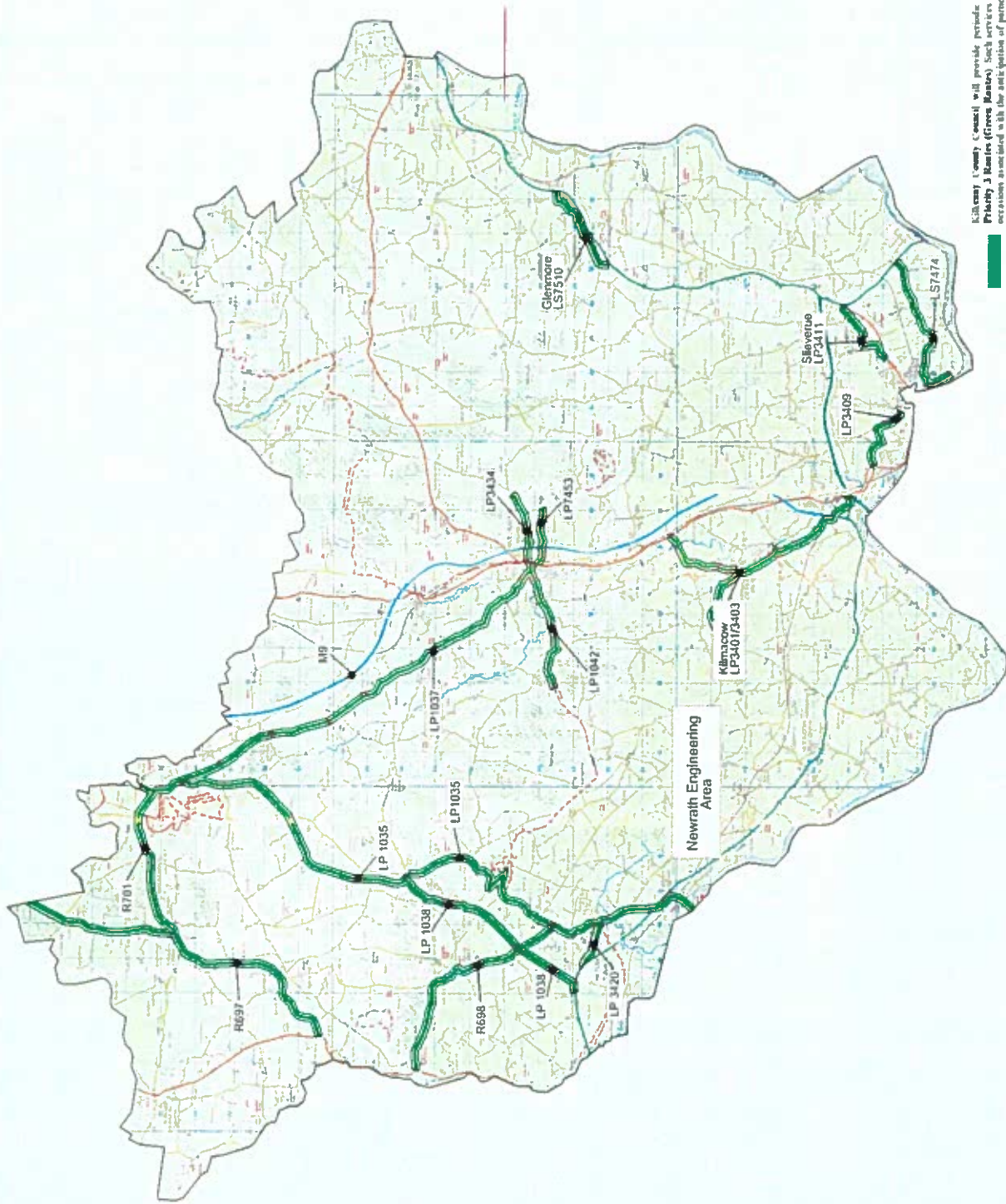
Kilkenny County Council is to provide periodic, winter maintenance services on Primary 2 Routes (Green Boxes). Such services will only be provided on selected roads which are shown with the green box on the map. The map shows the roads which are to be provided with winter maintenance services. Road users must not assume that the roads shown are available for the winter maintenance services. For more information, please contact the Traffic Management Unit.

Project:	RCC School Road
Client:	Kilkenny County Council
Site:	Primary 2 Route Castlecomer Area
Drawn By:	EA
Drawn On:	10/11
Drawn At:	10/11
Drawn By:	EA
Drawn On:	10/11
Drawn At:	10/11

Date	By	Drawn	Checked

KILKENNY COUNTY COUNCIL
 Councillor Christine O'Connell
 ROAD DESIGN SECTION
 1 COLLEGE STREET
 KILKENNY





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. Road users must not assume that green routes have been provided in the future network.

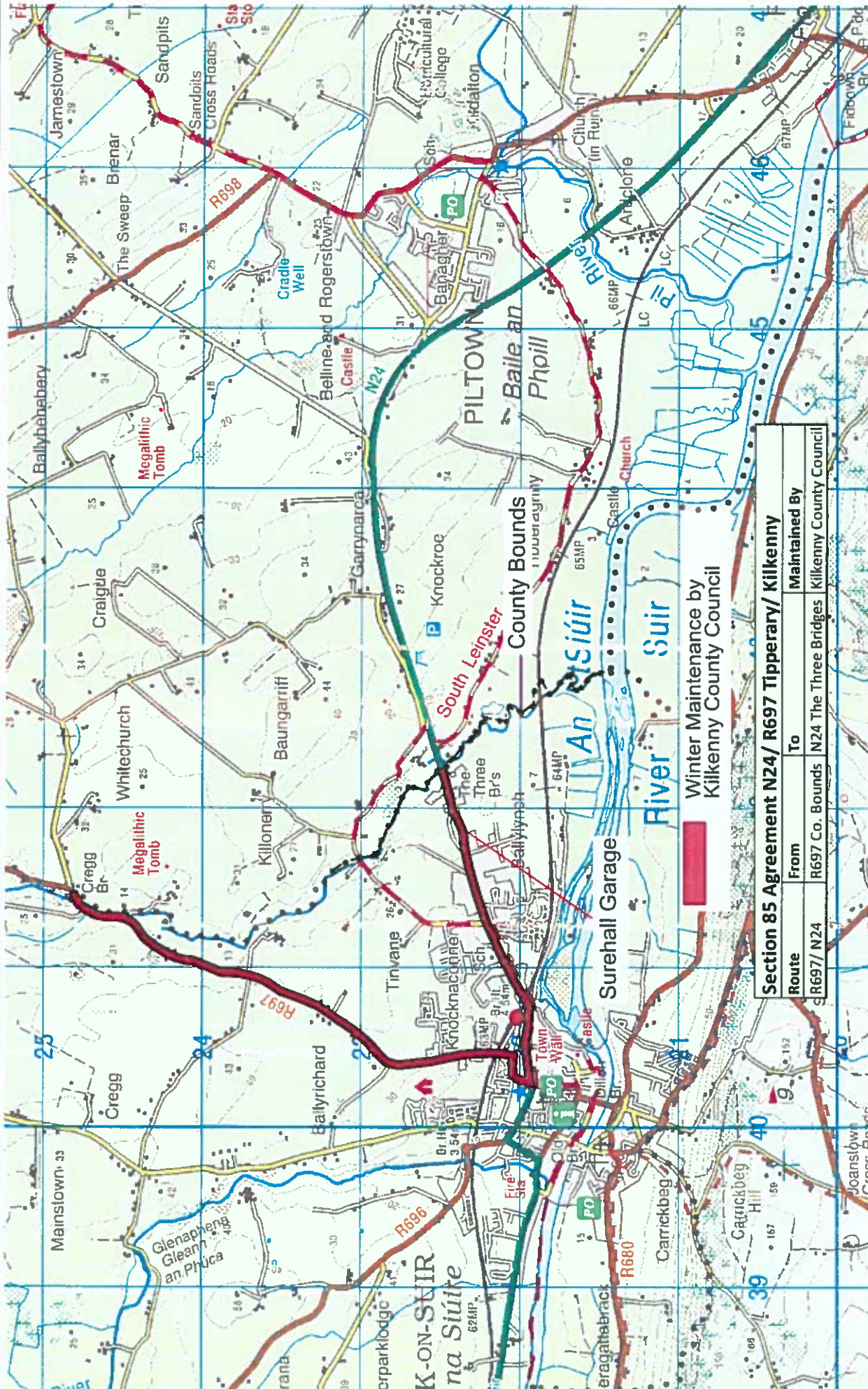


KILKENNY COUNTY COUNCIL
 COMBINE CHINAISE CHILL CHALKING
 4000 DESIGN SECTION
 1 DUBLIN STREET
 KILKENNY

Rev	By	Date	Description

Project	KLCG Substation
Component	Water Mainlines
Title	Priority 3 Routes - Newrain Area
Drawn By	SA
Checked By	MS
Drawn No.	1/10
Scale	
Date	05/04/2020
Drawn No.	KLCG-1000-1-04

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



Winter Maintenance by
Kilkenny County Council

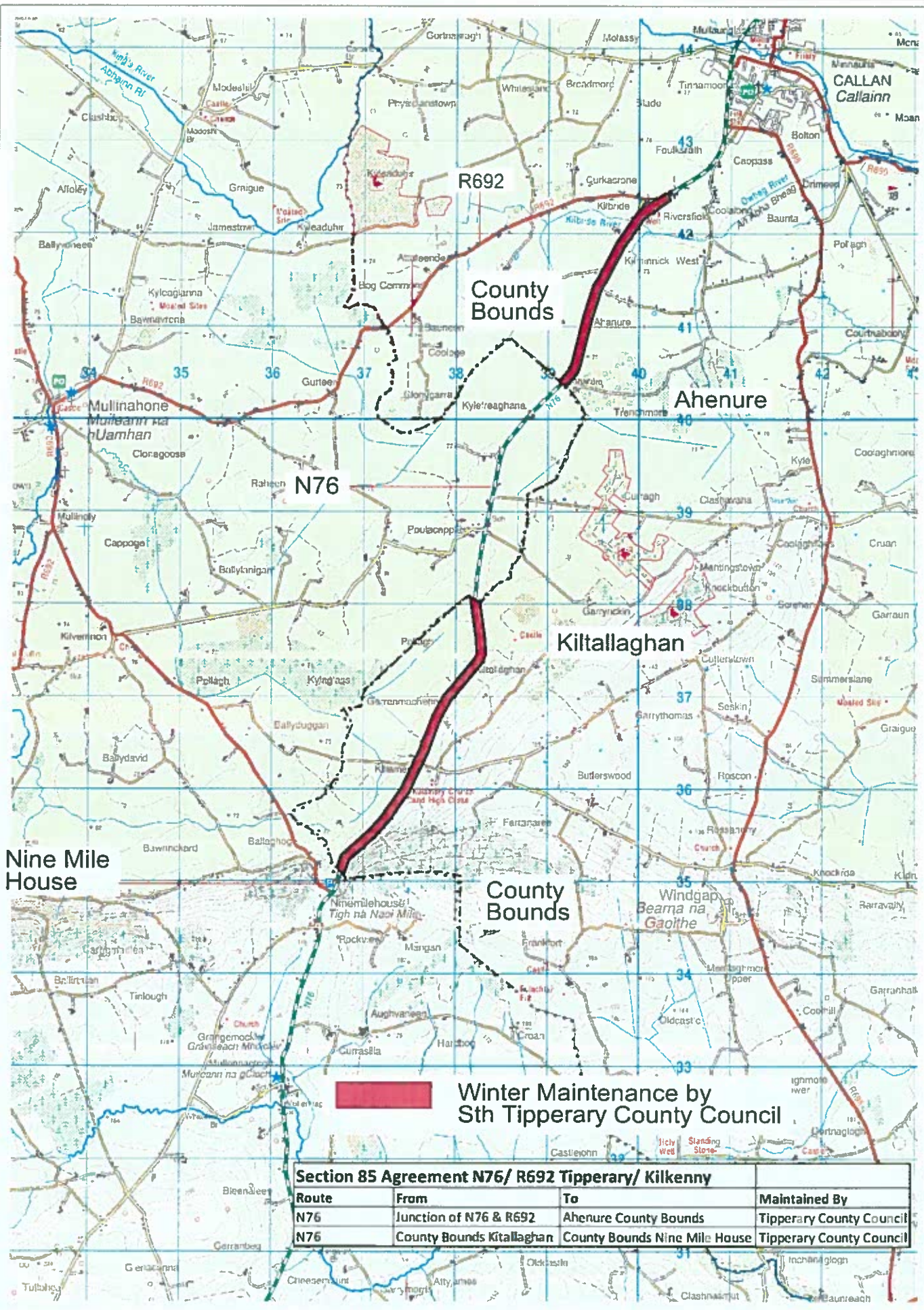
Route	From	To	Maintained By
R697/ N24	R697 Co. Bounds	N24 The Three Bridges	Kilkenny County Council



KILKENNY COUNTY COUNCIL
Countryside Challenge
AN tSiúir
1 DEAN STREET
KILKENNY

No.	By	Date	Description

Project: RCL Safety Routes
 Objective: Winter Maintenance
 Title: Section 85 Tipperary County Council
 Drawn By: SA
 Scale: 1:5
 Checked By: SW
 Date: 12/01/2015



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 Safety Routes		
Client:	Sth Tipperary Council		
Title:	Section 85 Tipperary County Council		
Designed By:	SA	File Name:	
Drawn By:	HE	Scale:	1:1000
Checked By:	SA	Date:	12/01/2015
			KCC-15-008