



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

RE: WINTER MAINTENANCE PLAN 2019/2020

DATE: 14th October 2019

A Chara

The Winter Maintenance Season for 2019/2020 will extend from Monday 14th October 2019 to Thursday 30th April 2020. 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 2019/2020.

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.

A full copy of the Winter Services Plan 2019/2020 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 2019/2020. 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 2019/2020 in line with the details set out in this memo to Elected Members.

Seamus Kavanagh
Senior Engineer

Tim Butler
Director of Services



Kilkenny County Council



Winter Service Plan 2019 -2020



October 2019

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1. Document Control

Role	Name	Signature	Date
Prepared By:	John Prendergast		
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 14th, 2019 to April 30th, 2020). 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	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

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
Declan Murphy	14/10/2019	20/10/2019
Seamus Kavanagh	21/10/2019	27/10/2019
Stan Cullen	28/10/2019	03/11/2019
Stan Cullen	04/11/2019	10/11/2019
Seamus Kavanagh	11/11/2019	17/11/2019
Declan Murphy	18/11/2019	24/11/2019
Declan Murphy	25/11/2019	01/12/2019
Philippe Beubry	02/12/2019	08/12/2019
Philippe Beubry	09/12/2019	15/12/2019
Stan Cullen	16/12/2019	22/12/2019
Declan Murphy	23/12/2019	29/12/2019
Seamus Kavanagh	30/12/2019	05/01/2020
Stan Cullen	06/01/2020	12/01/2020
Philippe Beubry	13/01/2020	19/01/2020
Seamus Kavanagh	20/01/2020	26/01/2020
Declan Murphy	27/01/2020	02/02/2020
Philippe Beubry	03/02/2020	09/02/2020
Stan Cullen	10/02/2020	16/02/2020
Seamus Kavanagh	17/02/2020	23/02/2020
Declan Murphy	24/02/2020	01/03/2020
Philippe Beubry	02/03/2020	08/03/2020
Stan Cullen	09/03/2020	15/03/2020
Stan Cullen	16/03/2020	22/03/2020
Seamus Kavanagh	23/03/2020	29/03/2020
Seamus Kavanagh	30/03/2020	05/04/2020
Declan Murphy	06/04/2020	12/04/2020
Philippe Beubry	13/04/2020	19/04/2020
Philippe Beubry	20/04/2020	26/04/2020
DM, PB, SC, SK	27/04/2020	30/04/2020

*Week commencing 27th April '20 has 4 nights only.

Table 6.2 Drivers and Fitters Roster

Drivers	Fitters	Duty Period Start	Duty Period Finish
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Andy Cleere	14/10/2019	20/10/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Jacko Foley/James Fenlon	21/10/2019	27/10/2019
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Pat Kavanagh	28/10/2019	03/11/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/Jacko Foley	04/11/2019	10/11/2019
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	James Fenlon/Pat Kavanagh	11/11/2019	17/11/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Andy Cleere	18/11/2019	24/11/2019
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Jacko Foley/James Fenlon	25/11/2019	01/12/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Pat Kavanagh	02/12/2019	08/12/2019
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Andy Cleere/Jacko Foley	09/12/2019	15/12/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	James Fenlon/Pat Kavanagh	16/12/2019	22/12/2019
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Andy Cleere	23/12/2019	29/12/2019
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Jacko Foley/James Fenlon	30/12/2019	05/01/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Pat Kavanagh	06/01/2020	12/01/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/Jacko Foley	13/01/2020	19/01/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	James Fenlon/Pat Kavanagh	20/01/2020	26/01/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Andy Cleere	27/01/2020	02/02/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Jacko Foley/James Fenlon	03/02/2020	09/02/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Pat Kavanagh	10/02/2020	16/02/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Andy Cleere/Jacko Foley	17/02/2020	23/02/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	James Fenlon/Pat Kavanagh	24/02/2020	01/03/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Andy Cleere	02/03/2020	08/03/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Jacko Foley/James Fenlon	09/03/2020	15/03/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Declan Lawlor/Pat Kavanagh	16/03/2020	22/03/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Andy Cleere/Jacko Foley	23/03/2020	29/03/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	James Fenlon/Pat Kavanagh	30/03/2020	05/04/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Andy Cleere	06/04/2020	12/04/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Jacko Foley/James Fenlon	13/04/2020	19/04/2020
Matty Foley, Colm Killian, Nicky Grace, Pat Sweeney	Declan Lawlor/Pat Kavanagh	20/04/2020	26/04/2020
David Dooley, Martin Morrissey, Bill Harrison, Michael Reade	Andy Cleere/Jacko Foley	27/04/2020	30/04/2020

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 2 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 6 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
SG9 – Demountable	Machinery Yard	9m ³ Pre Wet	Oct '18	Oct '18	Oct '19	Oct '19
SG8 – Demountable	Machinery Yard	9m ³	Oct '18	Oct '18	Oct '19	Oct '19
SG7 – Demountable	Machinery Yard	9m ³	Oct '18	Oct '18	Oct '19	Oct '19
SG6 – Demountable	Machinery Yard	9m ³	Oct '18	Oct '18	Oct '19	Oct '19
SG5 – Demountable	Machinery Yard	9m ³	Oct '18	Oct '18	Oct '19	Oct '19
SG4 – Demountable	Machinery Yard	7m ³	Oct '18	Oct '18	Oct '19	Oct '19
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				

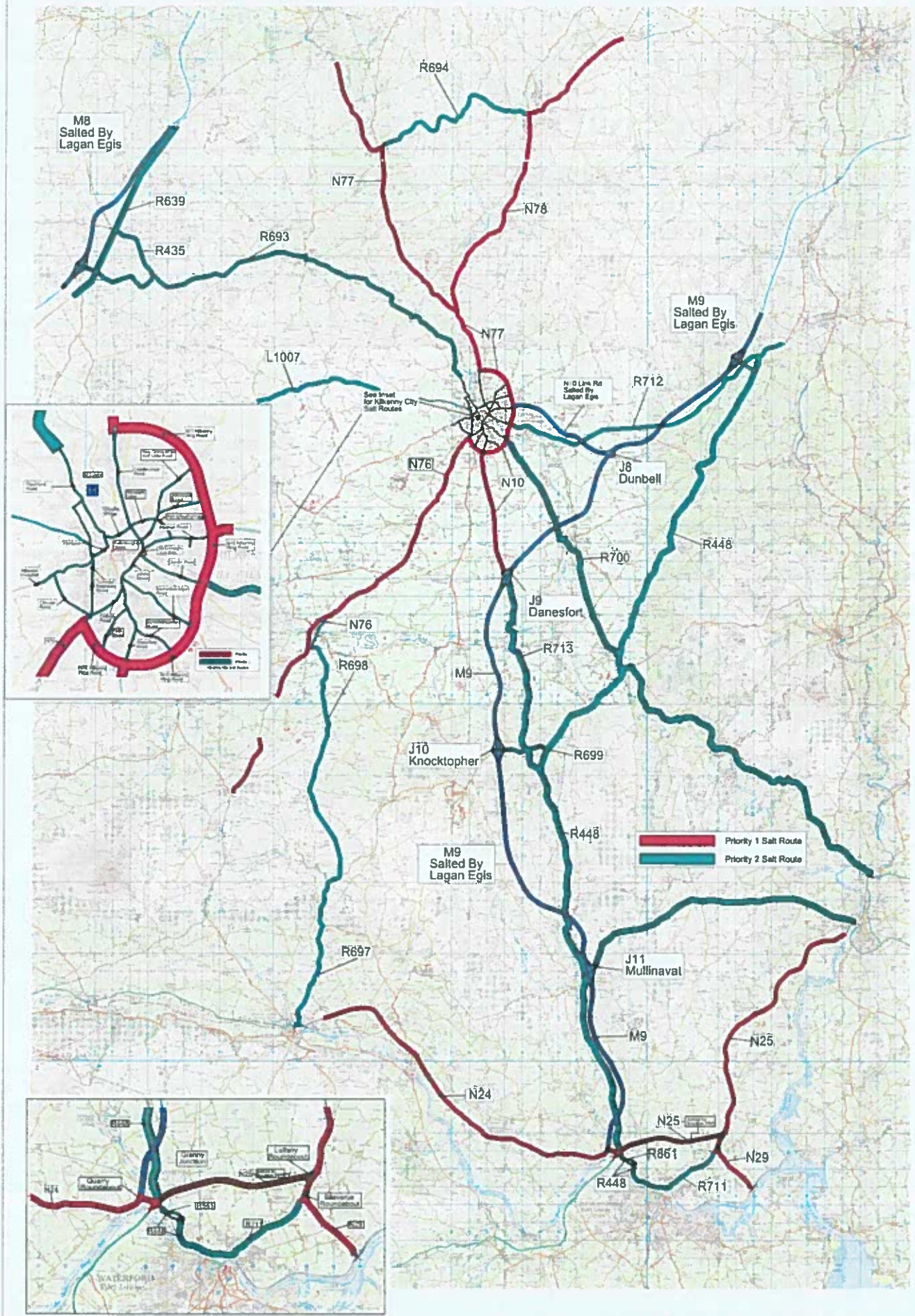
Table 9.2 Snow Ploughs & Loading Shovels

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	
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 (Winter Services Manager)	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	Area 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	Newrath 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
John Prendergast	Machinery Yard Engineer	Kilkenny County Council	Machinery Yard
tbc	Technical Services Supervisor	Kilkenny County Council	Machinery Yard
Lisa Bolger Hynes	Health & Safety Officer	Kilkenny County Council	County Hall, Kilkenny
Ray Wickham	A/Senior Engineer	Carlow County Council	
Adrian Barrett	Senior Engineer	Laois County Council	
Liam Brett	Senior Engineer	Tipperary County Council	
Noel O'Driscoll	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 Carmel Banville	Traffic Corps	An Garda Siochana	Thomastown Garda Station

Appendix 1 - Priority 1 & Priority 2 Treatment Routes



M8 Salted By Lagan Egis

M9 Salted By Lagan Egis

M9 Salted By Lagan Egis

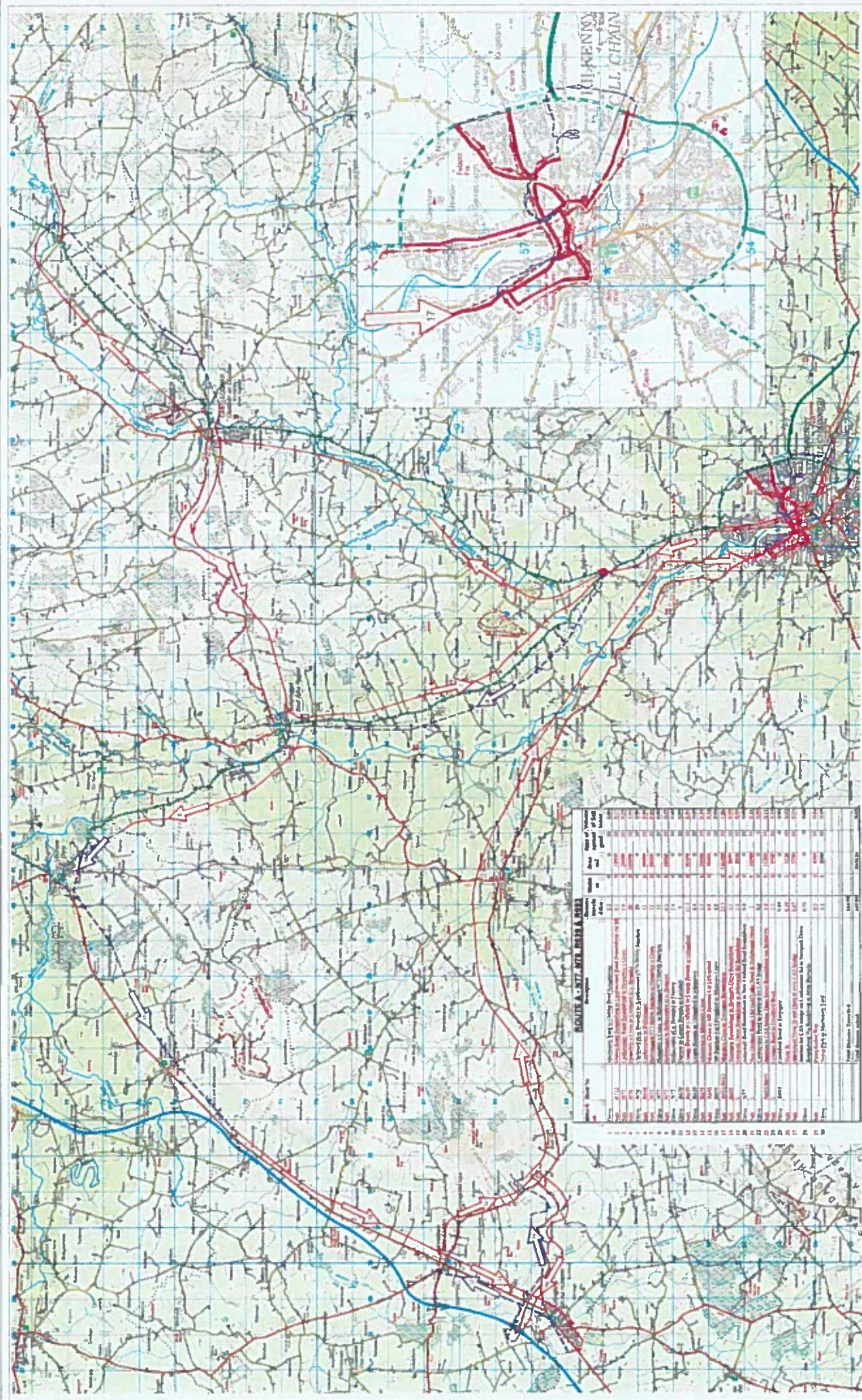
Priority 1 Salt Route
Priority 2 Salt Route



ROAD DESIGN SECTION
1 DEAM STREET
CILLARNEY

Rev	By	Date	Description

Project		KCC Salting Routes	
Component		Winter Maintenance	
Title		Priority 1 & 2 Routes	
Designed By	SA	File Name	
Drawn By	MS	Scale	NTS
Checked By	SW	Date	October 2015
		Drawn By	KCC/MS



ROUTE A-177-N17-N18-N83-N833

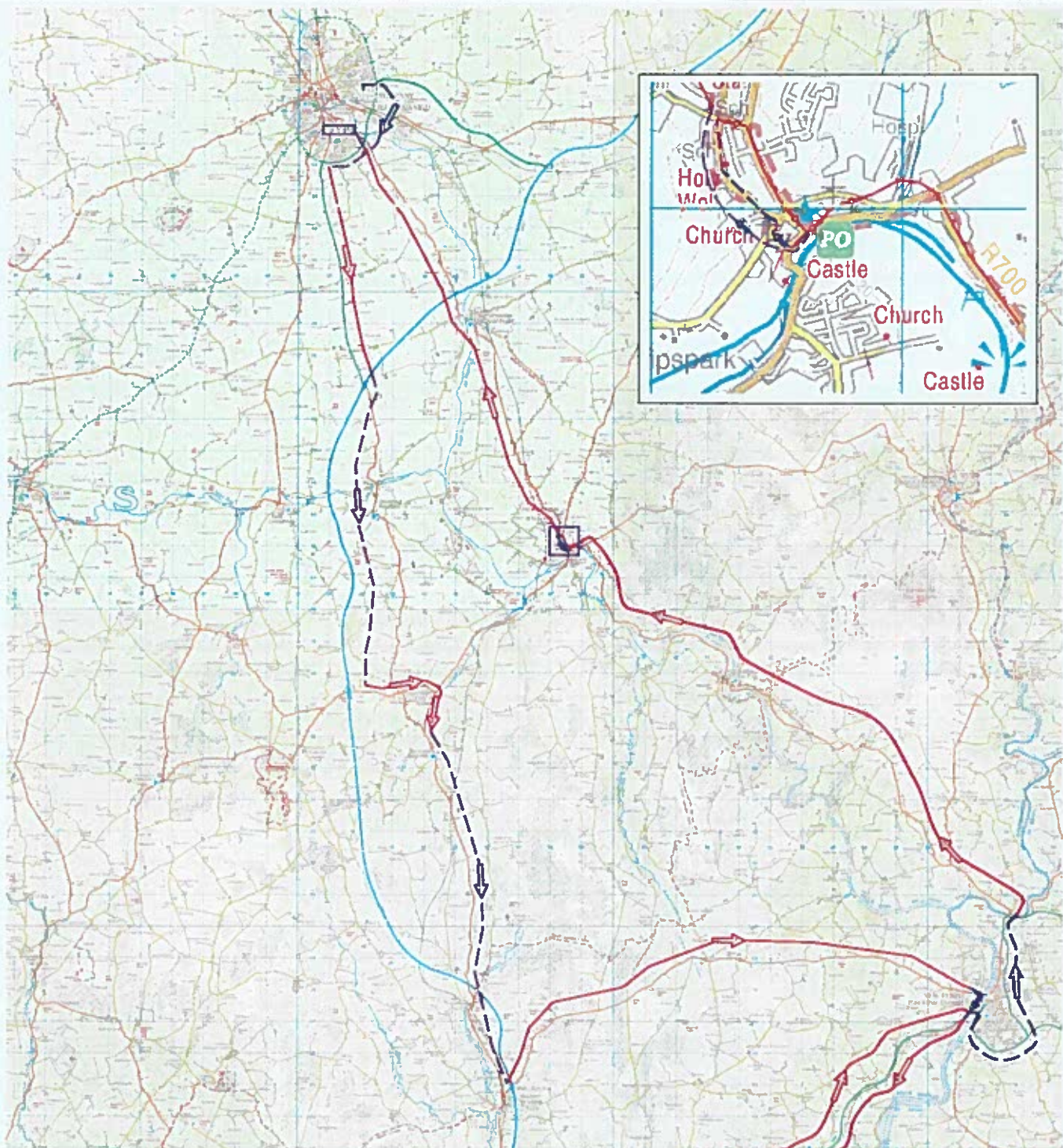
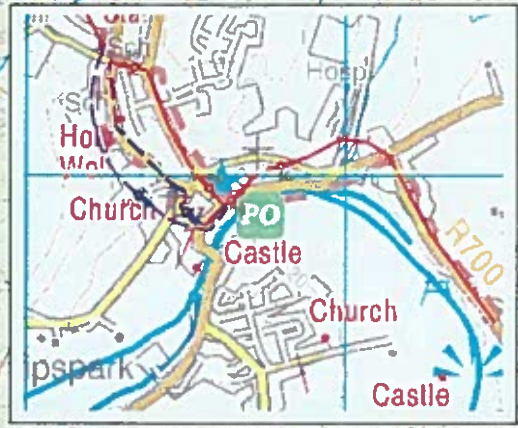
Order	Stop No.	Stop Name	Stop Type	Stop Category	Stop Code	Stop Lat	Stop Lon	Stop Alt.
1	1	St. James's Park	Stop	1	1	53.3398	-6.2540	100
2	2	St. James's Park	Stop	1	2	53.3398	-6.2540	100
3	3	St. James's Park	Stop	1	3	53.3398	-6.2540	100
4	4	St. James's Park	Stop	1	4	53.3398	-6.2540	100
5	5	St. James's Park	Stop	1	5	53.3398	-6.2540	100
6	6	St. James's Park	Stop	1	6	53.3398	-6.2540	100
7	7	St. James's Park	Stop	1	7	53.3398	-6.2540	100
8	8	St. James's Park	Stop	1	8	53.3398	-6.2540	100
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14	14	St. James's Park	Stop	1	14	53.3398	-6.2540	100
15	15	St. James's Park	Stop	1	15	53.3398	-6.2540	100
16	16	St. James's Park	Stop	1	16	53.3398	-6.2540	100
17	17	St. James's Park	Stop	1	17	53.3398	-6.2540	100
18	18	St. James's Park	Stop	1	18	53.3398	-6.2540	100
19	19	St. James's Park	Stop	1	19	53.3398	-6.2540	100
20	20	St. James's Park	Stop	1	20	53.3398	-6.2540	100
21	21	St. James's Park	Stop	1	21	53.3398	-6.2540	100
22	22	St. James's Park	Stop	1	22	53.3398	-6.2540	100
23	23	St. James's Park	Stop	1	23	53.3398	-6.2540	100
24	24	St. James's Park	Stop	1	24	53.3398	-6.2540	100
25	25	St. James's Park	Stop	1	25	53.3398	-6.2540	100
26	26	St. James's Park	Stop	1	26	53.3398	-6.2540	100
27	27	St. James's Park	Stop	1	27	53.3398	-6.2540	100
28	28	St. James's Park	Stop	1	28	53.3398	-6.2540	100
29	29	St. James's Park	Stop	1	29	53.3398	-6.2540	100
30	30	St. James's Park	Stop	1	30	53.3398	-6.2540	100
31	31	St. James's Park	Stop	1	31	53.3398	-6.2540	100
32	32	St. James's Park	Stop	1	32	53.3398	-6.2540	100
33	33	St. James's Park	Stop	1	33	53.3398	-6.2540	100
34	34	St. James's Park	Stop	1	34	53.3398	-6.2540	100
35	35	St. James's Park	Stop	1	35	53.3398	-6.2540	100
36	36	St. James's Park	Stop	1	36	53.3398	-6.2540	100
37	37	St. James's Park	Stop	1	37	53.3398	-6.2540	100
38	38	St. James's Park	Stop	1	38	53.3398	-6.2540	100
39	39	St. James's Park	Stop	1	39	53.3398	-6.2540	100
40	40	St. James's Park	Stop	1	40	53.3398	-6.2540	100
41	41	St. James's Park	Stop	1	41	53.3398	-6.2540	100
42	42	St. James's Park	Stop	1	42	53.3398	-6.2540	100
43	43	St. James's Park	Stop	1	43	53.3398	-6.2540	100
44	44	St. James's Park	Stop	1	44	53.3398	-6.2540	100
45	45	St. James's Park	Stop	1	45	53.3398	-6.2540	100
46	46	St. James's Park	Stop	1	46	53.3398	-6.2540	100
47	47	St. James's Park	Stop	1	47	53.3398	-6.2540	100
48	48	St. James's Park	Stop	1	48	53.3398	-6.2540	100
49	49	St. James's Park	Stop	1	49	53.3398	-6.2540	100
50	50	St. James's Park	Stop	1	50	53.3398	-6.2540	100

Project: NCC Salary Review
 Component: Winter Salary Plan
 Title: Public No. N17-N18-N83-N833
 Drawn By: JG
 Drawn On: 11/1
 Checked By: JG
 Checked On: 11/1
 Project No.: 12-001
 © 2007 NCC

Rev.	By	Date	Description

KILKENNY COUNTY COUNCIL
 Comhairle Contae Chill Chainnigh
 8000 GERRARD STREET,
 DUBLIN 11 (D11 11E1)
 01 454 8001





Route C - N10, R700, R704 & N25						
Order	Start/End	Road No.	Description	Distance (km)	Volume	Area (m ²)
1	Drive	N76	Machinery Yard to Waterford Road Roundabout	0.6	0	0
2	Left	N10	Waterford Road Roundabout to 20 Duponts	1.4	0	19000
3	Drive	N25	20 Duponts to 100 Aynsley	10.7	0	140000
4	Left	R700	J.O. Roundabout to Slieve Donard Junction	1.8	0	24000
5	Left	R700	Slieve Donard Junction to Ballycote R446 R711 Junction	1.4	0	17000
6	Drive	R446	Ballycote R446 R711 Junction to Millbrook R446 R704 Junction	11.1	0	140000
7	Left	R704	Millbrook R446 R711 Junction to Millbrook R446 R704 Junction	11.1	0	140000
8	Drive	R704	Millbrook R446 R711 Junction to 4 entry Roundabout on N25	0.8	0	10000
9	Left	N25	New Road to Lifford Roundabout	14.2	0	180000
10	Drive	N25	Lifford Roundabout to 4 entry Roundabout on N25	0.8	0	10000
11	Left	N25	Port Road (both directions) including Port Avenue Road	0	0	0
12	Left	N25	Port Road (both directions) including Port Avenue Road	0	0	0
13	Left	N25	Lifford Roundabout to Keshbrook N25 R704 Junction	11.2	0	140000
14	Drive	N25 N25	County Boundary on N25 to Ferrybridge	0.6	0	8000
15	Left	R700	Ferry Bridge N25 to Thomastown R166 R700 Junction	33.7	0	430000
16	Left	R446	Leam Street	0.1	0	1000
17	Drive	R446	Leam Street from Leam St to Leam St to Area Office	0.7	0	9000
18	Left	R700/R446	Area Office to Thomastown R446 R700 Junction	0.6	0	8000
19	Drive	R446	Leam Street, Millbrook, Ferry Bridge & Leam St to Area Office	0.8	0	10000
20	Left	R700	Thomastown R446 R700 Junction to Thomastown Roundabout	11.2	0	140000
21	Drive		Machinery Yard to Thomastown Road Roundabout	1.2	0	16000
Total distance travelled				168.3		
Total distance coded				167.7		667600

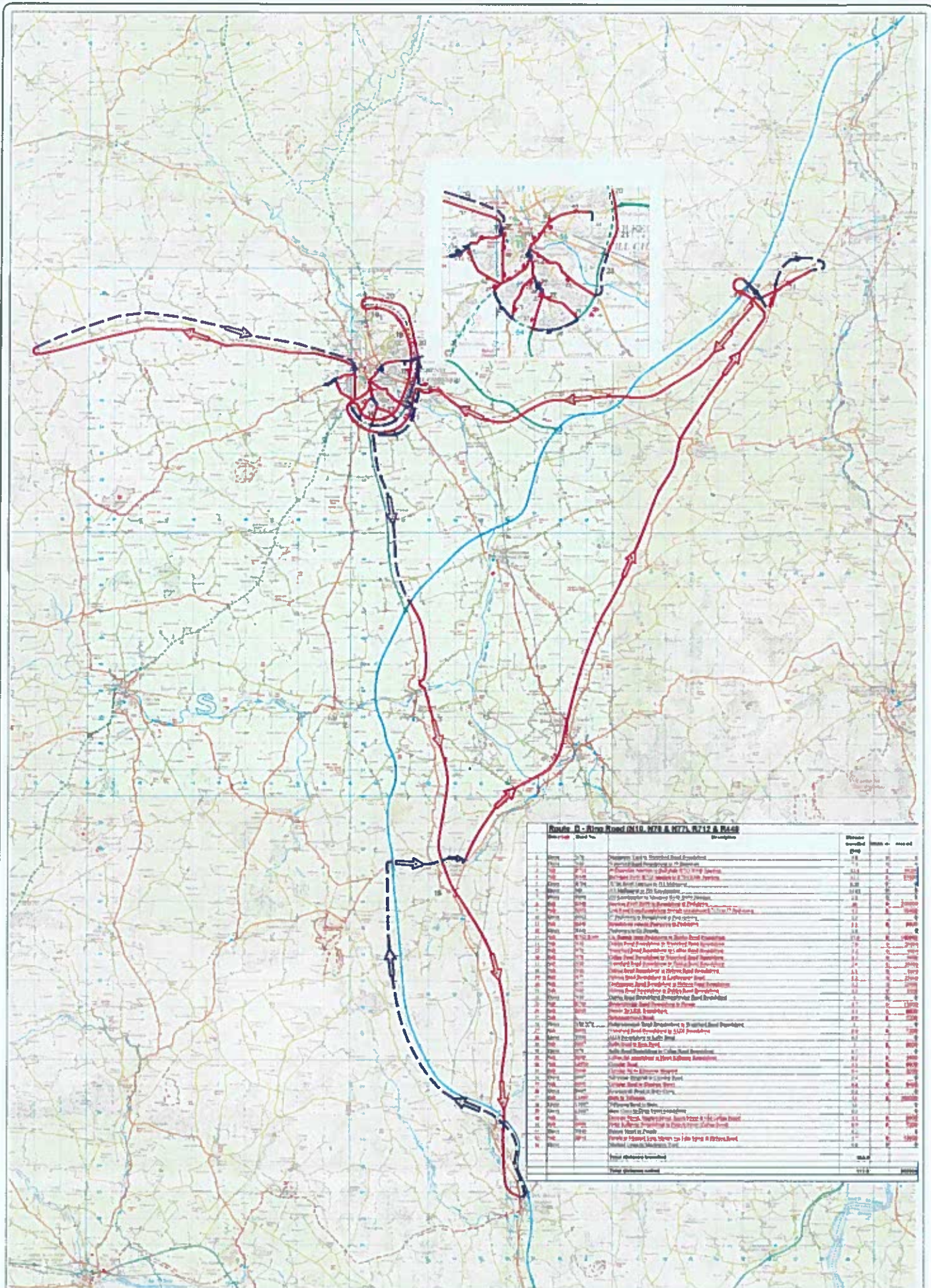
Area also coded by PTF Company



Rev	By	Date	Description

Tender Issue

Project: KCC Sinking Routes			
Component: Water Service Plan			
Title: Route C - N10, R700, R704 & N25			
Designed By: SA	Prepared By: MB	Drawn By: MB	Checked By: SW
Drawn By: MB	Scale: NTS	Date: October 2015	



Route D - Ring Road (N10, N78 & N77, R712 & R448)					
Order	Start No.	Stop/End	Description	Distance (km)	Notes
1	100	101	Ring Road to North Road Junction	1.0	
2	101	102	North Road to Ring Road Junction	1.0	
3	102	103	Ring Road to Ring Road Junction	1.0	
4	103	104	Ring Road to Ring Road Junction	1.0	
5	104	105	Ring Road to Ring Road Junction	1.0	
6	105	106	Ring Road to Ring Road Junction	1.0	
7	106	107	Ring Road to Ring Road Junction	1.0	
8	107	108	Ring Road to Ring Road Junction	1.0	
9	108	109	Ring Road to Ring Road Junction	1.0	
10	109	110	Ring Road to Ring Road Junction	1.0	
11	110	111	Ring Road to Ring Road Junction	1.0	
12	111	112	Ring Road to Ring Road Junction	1.0	
13	112	113	Ring Road to Ring Road Junction	1.0	
14	113	114	Ring Road to Ring Road Junction	1.0	
15	114	115	Ring Road to Ring Road Junction	1.0	
16	115	116	Ring Road to Ring Road Junction	1.0	
17	116	117	Ring Road to Ring Road Junction	1.0	
18	117	118	Ring Road to Ring Road Junction	1.0	
19	118	119	Ring Road to Ring Road Junction	1.0	
20	119	120	Ring Road to Ring Road Junction	1.0	
21	120	121	Ring Road to Ring Road Junction	1.0	
22	121	122	Ring Road to Ring Road Junction	1.0	
23	122	123	Ring Road to Ring Road Junction	1.0	
24	123	124	Ring Road to Ring Road Junction	1.0	
25	124	125	Ring Road to Ring Road Junction	1.0	
26	125	126	Ring Road to Ring Road Junction	1.0	
27	126	127	Ring Road to Ring Road Junction	1.0	
28	127	128	Ring Road to Ring Road Junction	1.0	
29	128	129	Ring Road to Ring Road Junction	1.0	
30	129	130	Ring Road to Ring Road Junction	1.0	
31	130	131	Ring Road to Ring Road Junction	1.0	
32	131	132	Ring Road to Ring Road Junction	1.0	
33	132	133	Ring Road to Ring Road Junction	1.0	
34	133	134	Ring Road to Ring Road Junction	1.0	
35	134	135	Ring Road to Ring Road Junction	1.0	
36	135	136	Ring Road to Ring Road Junction	1.0	
37	136	137	Ring Road to Ring Road Junction	1.0	
38	137	138	Ring Road to Ring Road Junction	1.0	
39	138	139	Ring Road to Ring Road Junction	1.0	
40	139	140	Ring Road to Ring Road Junction	1.0	
41	140	141	Ring Road to Ring Road Junction	1.0	
42	141	142	Ring Road to Ring Road Junction	1.0	
43	142	143	Ring Road to Ring Road Junction	1.0	
44	143	144	Ring Road to Ring Road Junction	1.0	
45	144	145	Ring Road to Ring Road Junction	1.0	
46	145	146	Ring Road to Ring Road Junction	1.0	
47	146	147	Ring Road to Ring Road Junction	1.0	
48	147	148	Ring Road to Ring Road Junction	1.0	
49	148	149	Ring Road to Ring Road Junction	1.0	
50	149	150	Ring Road to Ring Road Junction	1.0	
51	150	151	Ring Road to Ring Road Junction	1.0	
52	151	152	Ring Road to Ring Road Junction	1.0	
53	152	153	Ring Road to Ring Road Junction	1.0	
54	153	154	Ring Road to Ring Road Junction	1.0	
55	154	155	Ring Road to Ring Road Junction	1.0	
56	155	156	Ring Road to Ring Road Junction	1.0	
57	156	157	Ring Road to Ring Road Junction	1.0	
58	157	158	Ring Road to Ring Road Junction	1.0	
59	158	159	Ring Road to Ring Road Junction	1.0	
60	159	160	Ring Road to Ring Road Junction	1.0	
61	160	161	Ring Road to Ring Road Junction	1.0	
62	161	162	Ring Road to Ring Road Junction	1.0	
63	162	163	Ring Road to Ring Road Junction	1.0	
64	163	164	Ring Road to Ring Road Junction	1.0	
65	164	165	Ring Road to Ring Road Junction	1.0	
66	165	166	Ring Road to Ring Road Junction	1.0	
67	166	167	Ring Road to Ring Road Junction	1.0	
68	167	168	Ring Road to Ring Road Junction	1.0	
69	168	169	Ring Road to Ring Road Junction	1.0	
70	169	170	Ring Road to Ring Road Junction	1.0	
71	170	171	Ring Road to Ring Road Junction	1.0	
72	171	172	Ring Road to Ring Road Junction	1.0	
73	172	173	Ring Road to Ring Road Junction	1.0	
74	173	174	Ring Road to Ring Road Junction	1.0	
75	174	175	Ring Road to Ring Road Junction	1.0	
76	175	176	Ring Road to Ring Road Junction	1.0	
77	176	177	Ring Road to Ring Road Junction	1.0	
78	177	178	Ring Road to Ring Road Junction	1.0	
79	178	179	Ring Road to Ring Road Junction	1.0	
80	179	180	Ring Road to Ring Road Junction	1.0	
81	180	181	Ring Road to Ring Road Junction	1.0	
82	181	182	Ring Road to Ring Road Junction	1.0	
83	182	183	Ring Road to Ring Road Junction	1.0	
84	183	184	Ring Road to Ring Road Junction	1.0	
85	184	185	Ring Road to Ring Road Junction	1.0	
86	185	186	Ring Road to Ring Road Junction	1.0	
87	186	187	Ring Road to Ring Road Junction	1.0	
88	187	188	Ring Road to Ring Road Junction	1.0	
89	188	189	Ring Road to Ring Road Junction	1.0	
90	189	190	Ring Road to Ring Road Junction	1.0	
91	190	191	Ring Road to Ring Road Junction	1.0	
92	191	192	Ring Road to Ring Road Junction	1.0	
93	192	193	Ring Road to Ring Road Junction	1.0	
94	193	194	Ring Road to Ring Road Junction	1.0	
95	194	195	Ring Road to Ring Road Junction	1.0	
96	195	196	Ring Road to Ring Road Junction	1.0	
97	196	197	Ring Road to Ring Road Junction	1.0	
98	197	198	Ring Road to Ring Road Junction	1.0	
99	198	199	Ring Road to Ring Road Junction	1.0	
100	199	200	Ring Road to Ring Road Junction	1.0	
Total Distance				100.0	

KILKENNY COUNTY COUNCIL
Comhairle Contae Chill Chainnigh

ROAD DESIGN SECTION
1 DEAN STREET
KILKENNY

Rev	By	Date	Description

Tender Ref: _____

Project: KCC Salted Routes

Component: Winter Service Plan

Title: Route D- Ring Road (N10, N78, & N77, R712 & R448)

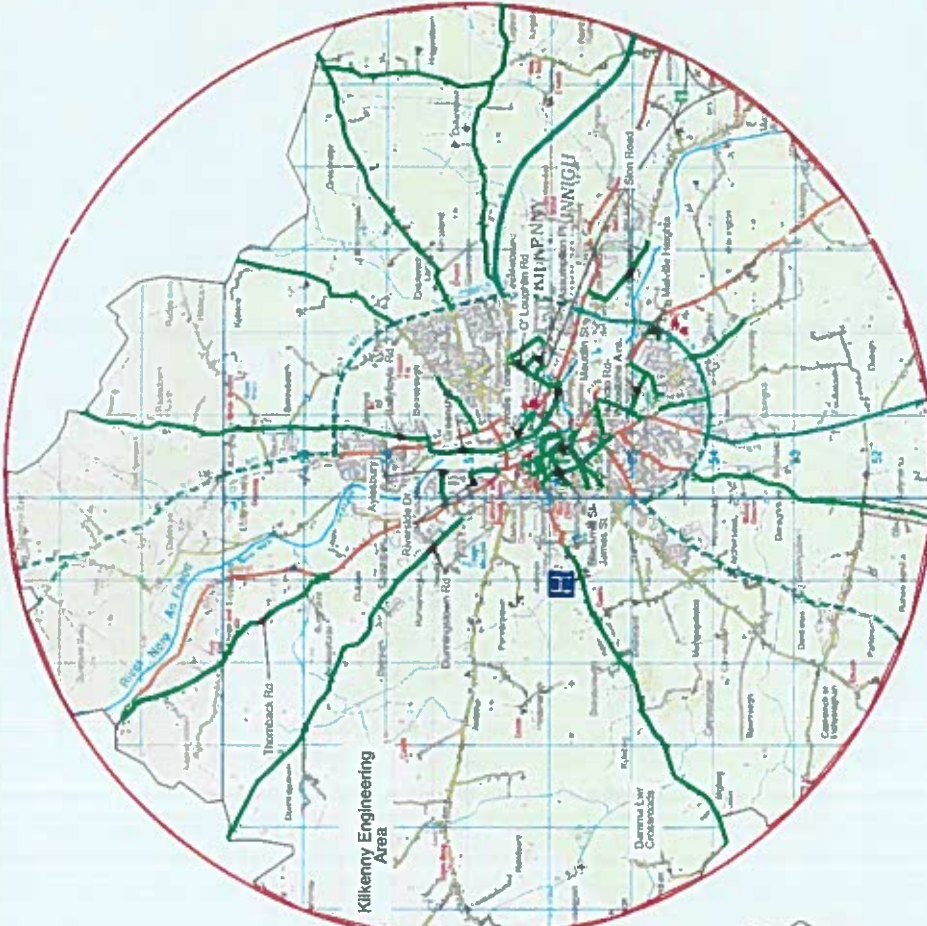
Designed By: BA **File Name:** _____

Drawn By: HD **Scale:** 1:10 **Drawing No.:** KCC-WSP-143-04

Checked By: SW **Date:** October 2011

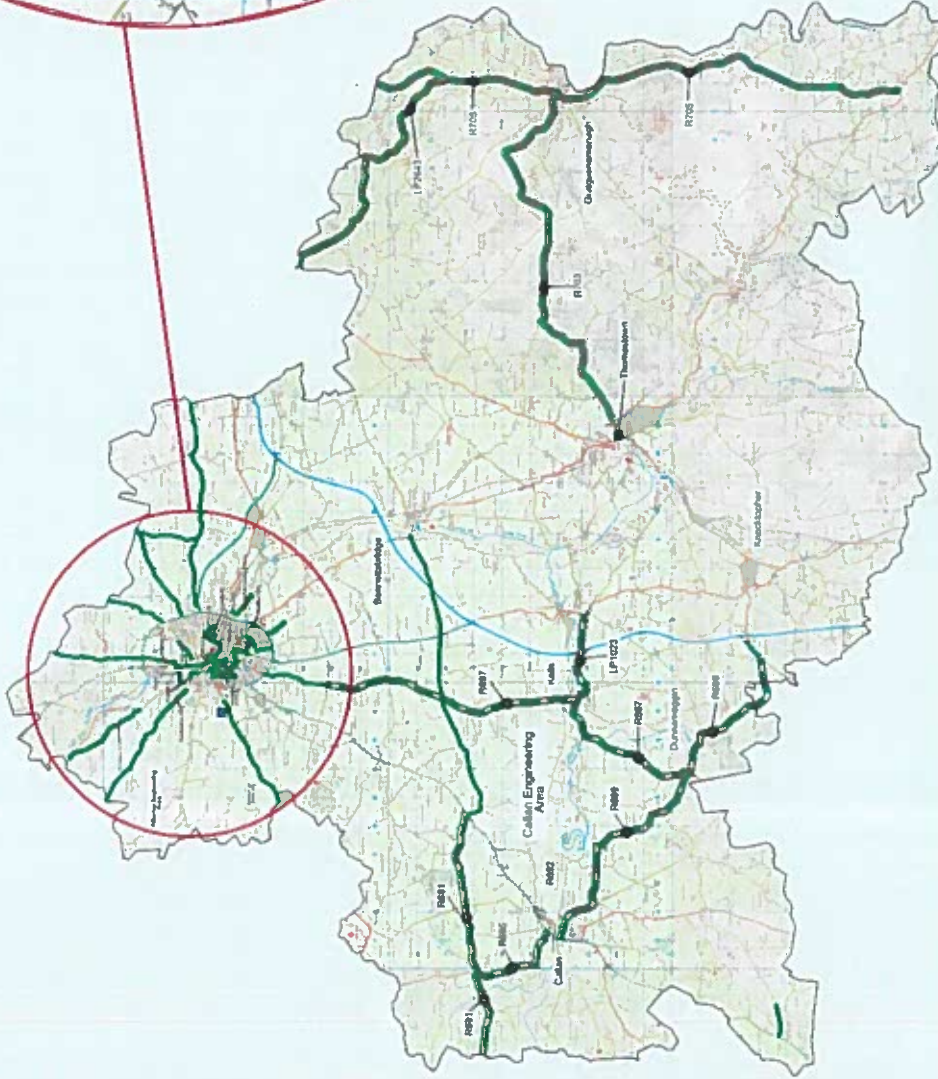
Appendix 2 - Priority 3

Treatment Routes



Kilkenny County Council will provide periodic water transmission services on Priority 2 Routes (Green Routes). Such services will only be provided on selected occasions associated with the anticipation of particularly severe weather conditions. **CONSTRUCTION AND MAINTENANCE WORKS MUST BE STOPPED IMMEDIATELY TO AVOID DISRUPTION TO SERVICES.**

Priority 2 Routes

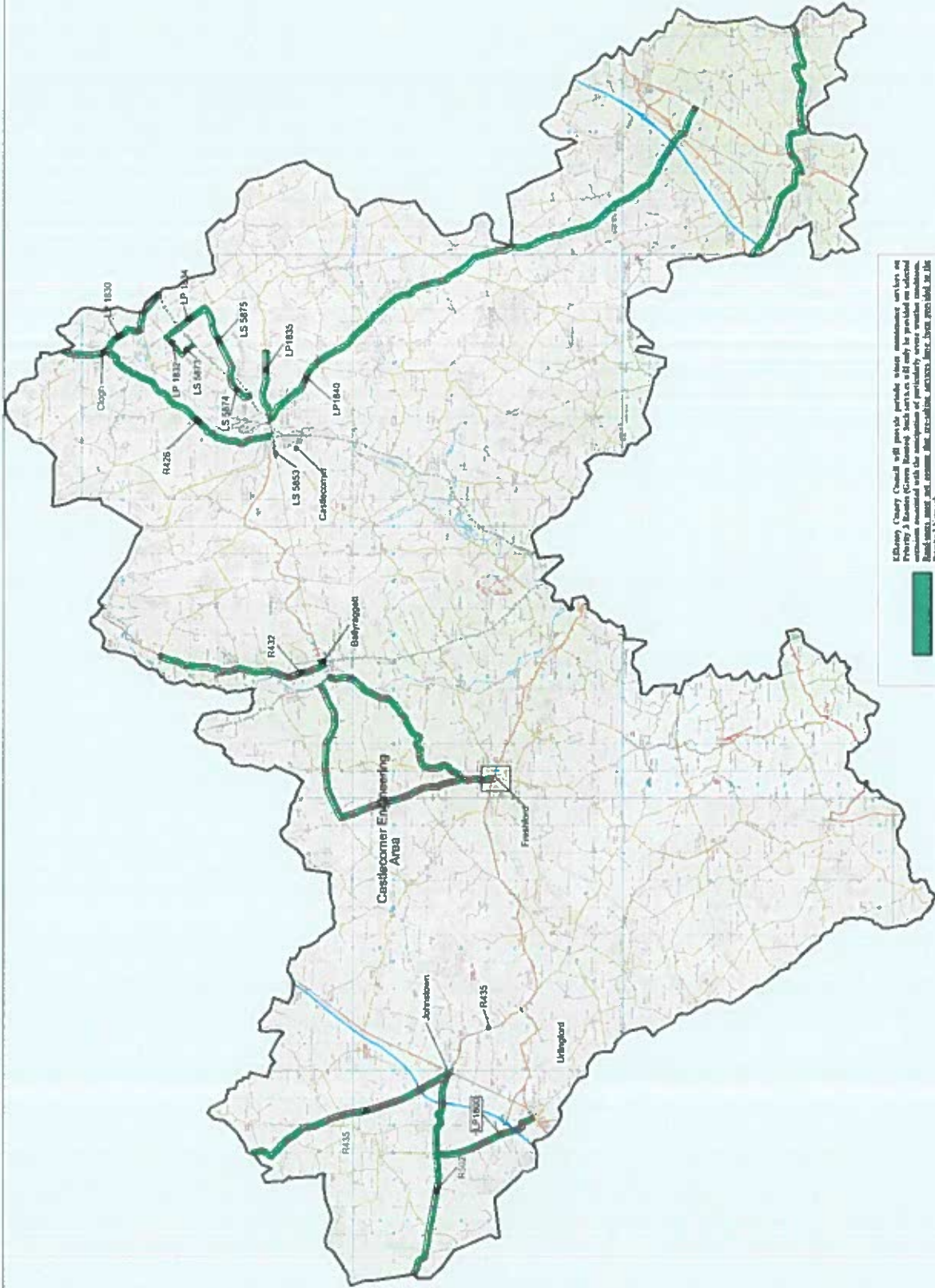


KILKENNY COUNTY COUNCIL
Community Challenge One Challenge
ROAD DESIGN SECTION
1 DEAN STREET
KILKENNY



Rev	By	Date	Description

Project: KCC Staffing Review
Component: Winter Maintenance
Title: Priority 2 Urban Kilkenny Transmission
Designed By: EA
Drawn By: FJG
Checked By: EFG
Date: October 2018
Drawing No.: KCC/18/04/1



Kilenny County Council will provide periodic vehicle maintenance surveys on Priority 3 Routes (Green Boxes). Such surveys will only be provided on selected roads. The results of these surveys will be used to determine the priority of road works and will inform the road works programme. Road works and other maintenance activities have been provided in the Priority 3 Network.



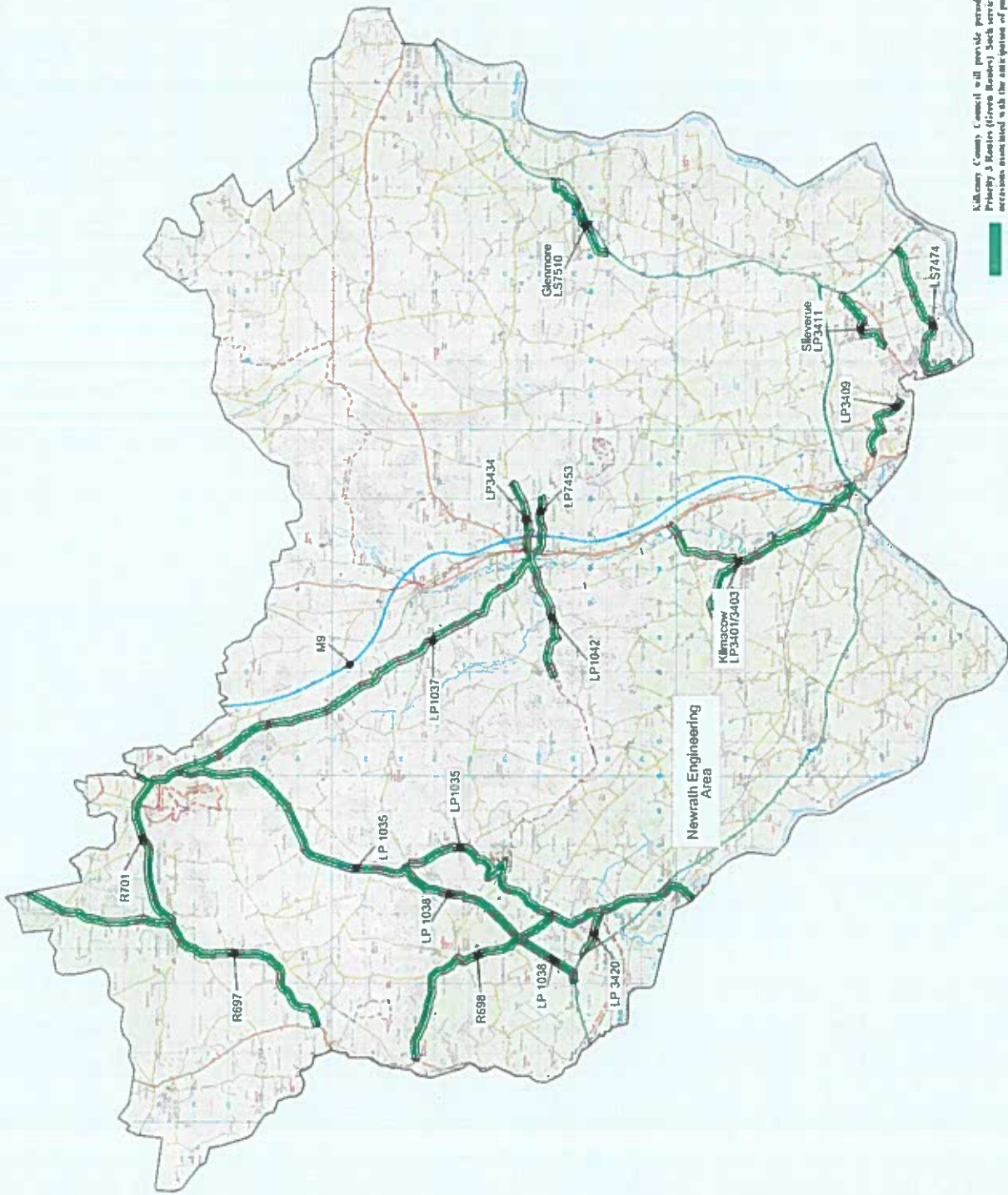
Project:	KCC Safety Study
Component:	Water Maintenance
Title:	Priority 3 Routes Castlecomer Area
Developed By:	KA
Drawn By:	MS
Checked By:	SW
Date:	October 2018
Drawn No.:	1/1/2018/P3

Rev	By	Date	Description

KILKENNY COUNTY COUNCIL
Commuter Charge DIB Challenge

ROAD DESIGN SECTION
 1 DEAN STREET
 8 KILKENNY





Kilkeny County Council will provide periodic water maintenance services on Priority 3 Routes (Green Routes). Such services will only be provided on selected occasions as indicated on the route points of particular concern under conditions. Road works, road closures, etc. will be arranged, services have been provided by the Public Network.

No.	By	Date	Description

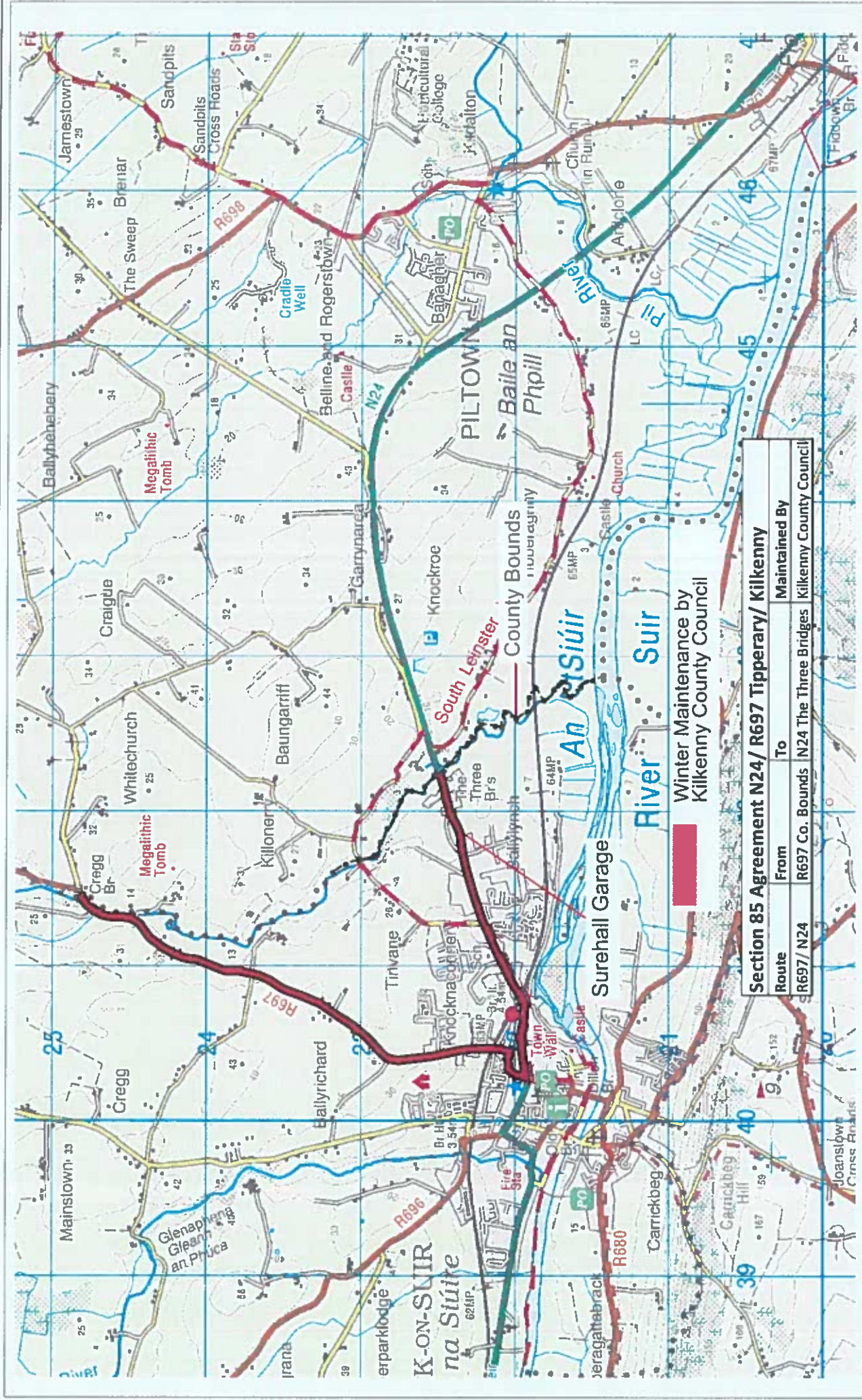
KILKENY COUNTY COUNCIL
 Central Office
 1 Main Street
 KILKENY



Project: KCC Storm Sewerage
Component: Water Mainlines
Title: Priority 3 Routes Pilot Area
Designed By: SA
Drawn By: MS
Scale: N.P.
Drawn by: MS
Checked by: SA

Project: KCC Storm Sewerage
Component: Water Mainlines
Title: Priority 3 Routes Pilot Area
Designed By: SA
Drawn By: MS
Scale: N.P.
Drawn by: MS
Checked by: SA

Appendix 3 - Section 85 - Treatment Routes Maps



Winter Maintenance by
Kilkenny County Council

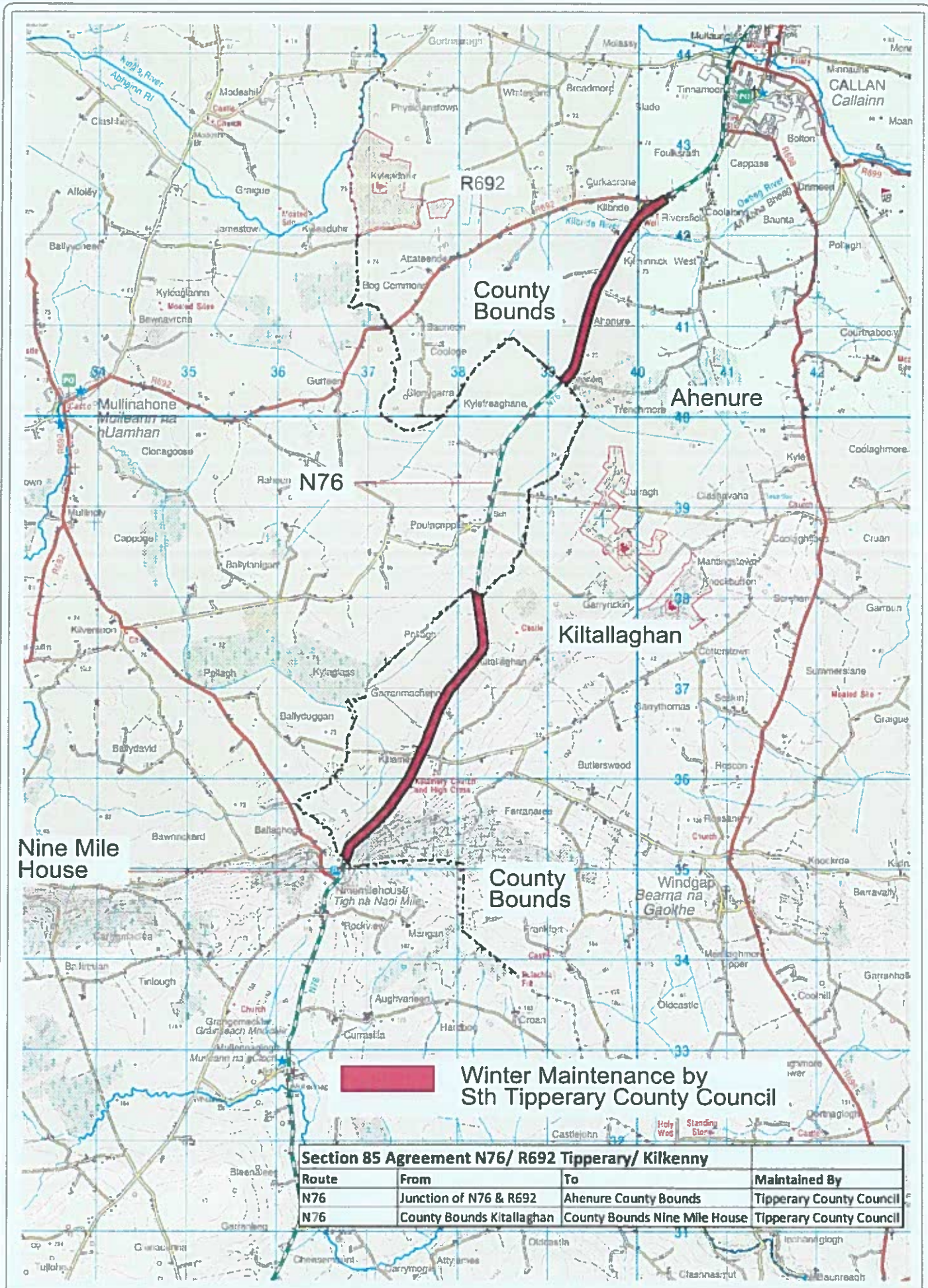
Route	From	To	Maintained By
R697/ N24	R697 Co. Bounds	N24 The Three Bridges	Kilkenny County Council



KILKENNY COUNTY COUNCIL
Commairle Chontae Chill Chainnigh
ROAD WORK SECTION
1 DEAN STREET
KILKENNY

Ref	St	Date	Description

Project: KCC Sailing Routes
 Client: Winter Maintenance
 Section: 85 Tipperary County Council
 Drawn By: BA
 Scale: 1:5000
 Date: October 2015
 Drawing No: KCC-10101



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: A/CB Rating Routes			
Component: Winter Maintenance			
Title: Section 85 Tipperary County Council			
Designed By: SA	File Name:	Drawing No.	
Drawn By: HB	Scale: 1:1	KCC-266-02	
Checked By: BLV	Date: October 2014		

On-call for 'Salting' for period Monday 14 Oct 2019 -> 30 Apr 2020

Monday-Sunday incl.		Drivers				Fitters		Duty Engineer	
8:00 a.m. Monday	Route A	Route B	Route C	Route D					
14-Oct-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Andy Cleere	Declan Murphy			
21-Oct-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Jacko Foley/James Fenlon	Seamus Kavanagh			
28-Oct-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Pat Kavanagh	Stan Cullen			
04-Nov-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Andy Cleere/Jacko Foley	Stan Cullen			
11-Nov-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	James Fenlon/Pat Kavanagh	Seamus Kavanagh			
18-Nov-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Andy Cleere	Declan Murphy			
25-Nov-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Jacko Foley/James Fenlon	Declan Murphy			
02-Dec-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Pat Kavanagh	Philippe Beubry			
09-Dec-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Andy Cleere/Jacko Foley	Philippe Beubry			
16-Dec-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	James Fenlon/Pat Kavanagh	Stan Cullen			
23-Dec-19	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Andy Cleere	Declan Murphy			
30-Dec-19	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Jacko Foley/James Fenlon	Seamus Kavanagh			
06-Jan-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Pat Kavanagh	Stan Cullen			
13-Jan-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Andy Cleere/Jacko Foley	Philippe Beubry			
20-Jan-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	James Fenlon/Pat Kavanagh	Seamus Kavanagh			
27-Jan-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Andy Cleere	Declan Murphy			
03-Feb-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Jacko Foley/James Fenlon	Philippe Beubry			
10-Feb-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Pat Kavanagh	Stan Cullen			
17-Feb-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Andy Cleere/Jacko Foley	Seamus Kavanagh			
24-Feb-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	James Fenlon/Pat Kavanagh	Declan Murphy			
02-Mar-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Andy Cleere	Philippe Beubry			
09-Mar-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Jacko Foley/James Fenlon	Stan Cullen			
16-Mar-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Declan Lawlor/Pat Kavanagh	Stan Cullen			
23-Mar-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Andy Cleere/Jacko Foley	Seamus Kavanagh			
30-Mar-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	James Fenlon/Pat Kavanagh	Seamus Kavanagh			
06-Apr-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Andy Cleere	Declan Murphy			
13-Apr-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Jacko Foley/James Fenlon	Philippe Beubry			
20-Apr-20	Matty Foley	Colm Killian	Nicky Grace	Pat Sweeney	Declan Lawlor/Pat Kavanagh	Philippe Beubry			
27-Apr-20	David Dooley	Martin Morrissey	Bill Harrison	Michael Reade	Andy Cleere/Jacko Foley	DM, PB, SC, SK			
*Week commencing 27th April '20 has 4 nights only									
Route A	N77, N78, R639, R693			Matty Foley	David Dooley	148L/SG7			
Route B	N76, N24, R448			Colm Killian	Martin Morrissey	254L/SG9			
Route C	N10, R700, N25, R704			Nicky Grace	Bill Harrison	147L/SG8			
Route D	R713, R712, R449, Ring Road			Pat Sweeney	Michael Reade	255L/SG6			

Contact No's.

	Work Mob.	
Fitters		
Declan Lawlor	087-219 8707	056-775 2958
Andy Cleere	087-901 0100	056-776 7041
Pat Kavanagh	087-251 2140	056-772 6325
James Fenlon	087-219 8715	087-228 5710
Jacko Foley	087-258 7125	087-944 9831
Drivers		
Matty Foley	087-219 8743	086-104 9465
David Dooley	087-219 8737	087-134 3669
Colm Killian	087-219 8739	086-395 2938
Bill Harrison	087-900 9844	
Michael Reade	087-219 8705	
Nicky Grace	087-771 6668	
Martin Morrissey	087-905 5479	
Pat Sweeney	087-374 9248	
Duty Engineers		
Declan Murphy	087-221 1994	
Philippe Beubry	087-278 8526	
Stan Cullen	087-348 0481	
Seamus Kavanagh	087-052 4077	
Machinery Yard		
John Prendergast	087-348 8028	
Art Hennessy	087-707 5199	

148L/SG7	Route A
254L/SG9	Route B
147L/SG8	Route C
255L/SG6	Route D
140L/SG4	Spare
141L/SG5	Spare