WINTER SERVICE PLAN 2021 - 2022



VERSION 11.00

SINEAD CASEY
SENIOR ENGINEER
ROADS DEPARTMENT
WEXFORD COUNTY COUNCIL
CARRICKLAWN
WEXFORD

October 2021

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1 Document Control

Version	Issue Date	Revision Details	Prepared	Approved
11.00	*October 29 2021*	*Final Draft*	*AD*	*SC*

2 Distribution List

Issued To	Organisation / Company	Location
Tom Enright	Wexford County Council	County Hall
Eamonn Hore	Wexford County Council	County Hall
Sinead Casey	Wexford County Council	County Hall
Tim Murphy	Wexford County Council	County Hall
Abraham Dunne	Wexford County Council	County Hall
Neil Dempsey	Wexford County Council	Enniscorthy District
Joanne Keoghe	Wexford County Council	Gorey Kilmuckridge District
Eilis Furlong	Wexford County Council	New Ross District
Sean Kavanagh	Wexford County Council	Wexford District
Mark Collins	Wexford County Council	Rosslare District
Hugh Russell	Wexford County Council	Machinery Yard
Tom Bates	Wexford County Council	Machinery Yard
Kieran Whelan	Wexford County Council	Machinery Yard
Geraldine Dowler	Wexford County Council	Machinery Yard
Amanda Richards	Wexford County Council	County Hall
Ray Murphy	Wexford County Council	County Hall
Seamus Kavanagh	Kilkenny County Council	Kilkenny
Ray Wickham	Carlow County Council	Carlow
Gabriel Hynes	Waterford CCC	Waterford
Michael Flynn	Wicklow County Council	Wicklow
Winter Maintenance Manager	TII	Parkgate Street
Jason Bolger	BAM Iridium O&M	Wicklow
David O'Grady	Department of Transport	Leeson Lane, Dublin, D02 TR60
Inspector Syl Hipwell	Garda Siochana	Gorey Garda Station
Head of Forecasting	Met Éireann	Glasnevin Hill, Dublin 9

3 Purpose and Scope

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

4 Policy

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

Priority 1 Routes (Red Routes). These are listed in the table below. Wexford County Council will try to ensure, as far as is reasonably practicable, the prevention of ice formation on these routes.

Priority 2 Routes (Blue Routes). These are listed in the table below. Wexford County Council will try to ensure, as far as is reasonably practicable, the prevention of ice formation on these routes. In extreme weather events Priority 1 Routes will take precedence over Priority 2 Routes in the allocation of available resources.

Priority 3 Routes (Green Routes). These are listed in the table below. As resources allow, Wexford County Council will provide periodic winter maintenance services on these routes. Such services will only be provided on selected occasions associated with particularly severe weather conditions. Motorists must not assume that pre-salting services have been provided to the Priority 3 Network.

Route Designation	Description	Level of Service
Priority 1	N11; N25; N30; N80; M11 (Clogh to Frankfort Interchange)	To be treated during all sub-zero (frost, ice, snow) weather events
Priority 2	R700; R702 (part of) from Enniscorthy to Kiltealy; R714; R723 (part of) from Ballymacar to Raheen; R725 (part of) from Gorey to Co. Bounds; R728; R730 (part of) from Drinagh Roundabout to Wexford Bridge to Ardcandrisk to Ballymackesy; R732; R733 (part of) from King Street to Ballyhack and from Slaght to Oaklands Roundabout; R734 (part of) from Slaght to Tellarought Cross; R738 (part of) from Waddingtown to Taghmon to Larkin's Cross; R739; R741; R742 (part of) from Gorey to Courtown; R744 (part of) from Templescoby to Castleellis; R746 (part of) from Wheelagower to Bunclody to Co. Bounds; R761 (part of) from Courtown Road Roundabout to Ballycanew Road Roundabout; R769; R770; R772; R890.	To be treated for the most part as per Priority 1, but may have interruptions to treatment in certain severe weather events
Priority 3	All other Regional Roads	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events

Mobilisation and treatment times for each type of route are set out in the table below.

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	1 hr	1 hr	When possible
Treatment Time	2.5 hrs	3 hrs	When possible

5 Overall Map of the Service Plan Area

Appendix 1 contains an overall map of the area covered by the Winter Service Plan. It includes the following:

- The overall extent of the network covered by the Winter Service Plan
- Treatment routes & their priority, using red for Priority 1 routes, blue for Priority 2 routes, and (where applicable) green for Priority 3 routes. The M11 Gorey Bypass, the M11 Gorey to Enniscorthy route and the N25 New Ross Bypass are indicated by the colour yellow; this route will be treated by the O&M operator – BAM/Iridium.
- Weather stations
- Compounds and Depots

6 Roles and Responsibilities

The names of key winter service personnel and their roles are contained in *Appendix 4*. The responsibilities are set out below.

6.1 Winter Service Manager

The Winter Service Manager's responsibilities are:

- To ensure the preparation of the Winter Service Plan prior to the start of each winter period
- To undertake co-ordination with neighbouring Local Authorities and any relevant private winter service operators on the Winter Service Plan, and to issue the Winter Service Plan to the TII and the Department of Transport
- To ensure the preparation of a rota of suitably experienced Duty Engineers identifying the availability of a decision maker throughout the entire Winter period, and send an electronic copy of the final roster to the TII and the bureau weather forecaster
- To ensure the preparation of a rota of suitably trained operatives identifying the availability of labour throughout the entire Winter period
- To ensure suitable plant, equipment and salt supplies are available to undertake effective Winter Service operations for the duration of the Winter period
- To provide advice to the Duty Engineer

- To give direction or advice on any aspect of the winter service
- To liaise with and report to the Director of Services for Roads
- To liaise with and report to the Senior Engineer, Roads
- To liaise with the TII and the Department of Transport
- To provide factual information concerning the network to An Garda Siochána for onward distribution to the press, local radio, RTE and AA
- To ensure the preparation of the network treatment maps for public communication
- To respond to public enquiries or winter service complaints that may arise
- To carry out an end-of-season review of issues that arose during the winter service period and to communicate any important aspects of this review to the Director of Services for Roads.

6.2 Duty Engineer

The Duty Engineer's responsibilities are to:

- Use the weather bureau service (Vaisala Manager) to examine the forecast and track the actual conditions on the routes
- Obtain updated or more detailed road weather forecasts by talking to the Duty Weather Forecaster using the telephone consultancy service, as required
- Make a decision based on the forecast data, and notify the Winter Service Supervisor of the proposed treatment for that night/day – the decision is to include the treatment to be carried out, commencement times, routes to be treated and spread rates
- Record decisions and details such as treatment records, decision times, commencement times, routes to be treated and spread rates
- Monitor the actual weather conditions until a decision is made and thereafter, as appropriate, to ensure that any changes to the forecast are identified and, on foot of these changes, to decide whether the proposed treatment should be revised
- Fill in the winter service returns on the TII Network Management System (NMS)
- Report to the TII in relation to salt stocks and salt requirements
- Liaise with An Garda Siochána, if required
- Communicate with other relevant parties
- Maintain records of any reported road conditions and of any reported blocked routes or lanes
- Make decisions on special situations, in consultation with the Winter Service Supervisor
- Consult and liaise with the Winter Service Manager during the preparation or revision of the Winter Service Plan

6.3 Winter Service Supervisor

This Winter Service Supervisor's responsibilities are to:

- Notify the designated Winter Service Driver(s), as per the rota, of the proposed treatment for that night/day, including the type of treatment to be carried out, the commencement times, the routes to be treated and the spread rates.
- Inform the Duty Engineer and Machinery Yard Fleet Manager of any servicing or maintenance needs for the winter service equipment or plant
- Update the Duty Engineer with estimates of local salt stocks
- Advise the Duty Engineer and the Winter Service Manager of modifications, incidents, or any problems encountered
- Consult and liaise with the Winter Service Manager during the preparation or revision of the Winter Service Plan

7 Rosters

The Duty Engineers' Roster is attached (see *Appendix 5*).

8 Routes and Protocols

There are five designated salting routes: Enniscorthy; Gorey; New Ross; Wexford; and Regional Roads. Each route has its own designated demountable salt spreader. There are two drivers assigned to each route. Drivers are utilised on alternate call-outs, i.e. if Driver A attends a call-out, Driver B will attend the subsequent call-out.

Appendix 2 contains Treatment Route Cards for all five routes. The Treatment Route Card contains a map of the treatment route, with accompanying driving instructions.

At approximately 14:00 each day, from 18 October 2021 to 30 April 2022, the Duty Engineer will examine the Vaisala Manager Weather Prediction System. If the Duty Engineer decides a call-out is warranted, he will contact the Winter Service Supervisor (WSS) by phone. The WSS will then mobilise the appropriate drivers, as required.

The aim is to treat the roads prior to the time of forecasted frost/ice formation.

Once a decision to salt has been made, the Duty Engineer will text the five Roads District Engineers, the nine General Services Supervisors, the Fleet Manager, the General Services Supervisor (Machinery Yard) and all the Winter Service Drivers. This is purely for information purposes.

The Duty Engineer will record all decisions made and actions taken on the Vaisala Manager system.

The decision to treat streets and footpaths in the urban areas will be made by the District Engineer. Treatment of these areas will be on an ad hoc basis and will not be as frequent as the treatment of Priority 1 or Priority 2 roads.

Since March 2013, Wexford County Council has operated a driver-only system in relation to their salting trucks. A risk assessment was carried out to ensure that this change did not result in any increased risk to the operatives. A copy of this Risk Assessment is contained in Appendix 8. While helpers will no longer be used for the normal winter maintenance operations, they will be brought back during snow and blizzard conditions.

9 O&M Operator and Cross Boundary Arrangements

9.1 Coordination with O&M Operator

Agreements are in place between TII and the O&M Operator Bam/Iridium in relation to the maintenance of the M11 Gorey Bypass, the M11 Gorey to Enniscorthy route and the N25 New Ross Bypass. This includes responsibility for the winter maintenance. The extents of the areas to be treated by the O&M Operator are displayed on the maps in Appendix 3.

BAM will text each of Wexford County Council's duty engineers in the event of a decision to treat the roads in their charge. Wexford County Council will reciprocate.

BAM and Wexford County Council will also exchange copies of their Winter Service Plans.

9.2 Cross Boundary Arrangements

Kilkenny County Council has agreed to salt a short section of the R704 in County Wexford, from its junction with the R723 in New Ross to the Kilkenny County bounds. Wexford County Council has no reciprocal arrangements with Kilkenny County Council.

Kilkenny and Wexford County Council will each text the other's duty engineers in the event of a decision to treat the roads in their charge.

Kilkenny County Council and Wexford County Council will also exchange copies of their Winter Service Plans.

Purely for information purposes, Wexford County Council will exchange copies of its Winter Service Plans with Carlow County Council, Wicklow County Council, and Waterford City and County Council.

10 Contact Details

Contact details for Duty Engineers, District Staff, Drivers, Met Office and Vaisala Helpdesk are listed in *Appendix 6*.

11 Decision Matrix

The decision matrix for the Duty Engineer is given below.

<table>
<tr><th rowspan="2">Road Surface Temperature</th><th rowspan="2">Precipitation</th><th colspan="3">Predicted Road Conditions</th></tr>
<tr><th>Wet</th><th>Wet Patches</th><th>Dry</th></tr>
<tr><td>May fall below 1°C</td><td>No rain
No hoar frost
No fog</td><td rowspan="3">Salt before frost</td><td rowspan="2">Salt before frost
(see note a)</td><td rowspan="2">No action likely, monitor weather
(see note a)</td></tr>
<tr><td rowspan="4">Expected to fall below 1°C</td><td>No rain
No hoar frost
No fog</td></tr>
<tr><td>Expected hoar frost
Expected fog</td><td colspan="2">Salt before frost (see note b)</td></tr>
<tr><td>Expected rain before freezing</td><td colspan="3">Salt after rain stops (see note c)</td></tr>
<tr><td>Expected rain during freezing</td><td colspan="3">Salt before frost and, as required, after rain stops (see note d)</td></tr>
<tr><td>Possible rain
Possible hoar frost
Possible fog</td><td colspan="2">Salt before frost</td><td>Monitor weather conditions</td></tr>
<tr><td colspan="2">Expected Snow</td><td colspan="3">Salt before snow fall</td></tr>
<tr><td colspan="5">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.</td></tr>
</table>

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.

12 Treatment Matrix

The guide used for treating roads with dry unmodified salt is given below.

Weather Conditions **Road Surface Conditions** **Road Surface Temperature (RST)**	**Treatment** **Air Temperature**	**Salt Spread Rate (gm/m^2)**	**Ploughing**
Frost or forecast frost RST at or above -5°C		10 Also refer to Note (b)	No
Frost or forecast frost RST below -5°C and above -10°C and dry or damp road conditions		20	No
Frost or forecast frost RST below -5°C and above -10°C and wet road conditions (existing or anticipated)		2 runs X 20	No
Light snow forecast (<10mm)		20	No
Forecast for Medium/heavy snow or a freezing rain forecast		2 runs X 20	No
Ice formed	Above -5°C	20	Not possible
Ice formed	At or below -5°C	2 runs X 20	Not possible
Snow covering exceeding 30mm		20 to supplement ploughing, up to 40 if temperatures are falling	Required
Snow accumulations due to prolonged falls		20 to 40 to supplement ploughing	Required
Hard packed snow/ice	Above -8°C	Successive treatments at 20 to 40 (repeat as needed)	Not possible
Hard packed snow/ice	At or below -8°C	Successive treatments at 20 to 40, supplemented by abrasives (repeat as needed)	Not possible
Sustained low temperatures	Below -10°C	Successive treatments at 20 to 40 (repeat as needed)	

Treatment Matrix Guide for Dry Unmodified Salt

Notes:

(a) Rate of spread for precautionary treatments may be adjusted to take account of variations occurring along the route such as residual salt, surface moisture (in the air or on the road surface) and traffic density.

(b) For salt stored outside, it may be necessary to increase the spread rate for precautionary treatment salting from $10gm/m^2$ to $15\text{-}20gm/m^2$.

(c) All decisions should be forecast based, recorded and require careful monitoring and review.

(d) Ice refers to all ice on the road surface, including black ice.

(e) All spread rates given above are obviously subject to availability of salt. Rates may have to be reduced or salt may have to be mixed with grit if there is a scarcity.

Location	**Salt Spread Rate**
Carriageways	As described in the Treatment Matrix Guide
Hard shoulder or carriageway marginal strips	50% of selected treatment
Porous Surfacing	Plus 25% of selected treatment
Footways, cycletracks and pedestrian areas	25 gm/m^2

Target Spread Rates by Location

13 Plant, Vehicles and Equipment

Wexford County Council operates 3 no. demountable salt spreaders, 2 no. permanent salt spreaders and 6 no. snowploughs to deliver its winter service. In addition, it has 3 standby demountable salt spreaders, which are used in emergencies and in the event of breakdowns.

Description	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of next Calibration	Date of next Service
Demountable salt spreader. *Enniscorthy Truck*. Fleet no. 106. 03 WX 5042.	Enniscorthy Depot	6m^3	October 2021	October 2021	October 20212	October 2022
Demountable salt spreader. *Gorey Truck*. Fleet no. 115. 11 WX 2327.	Enniscorthy Depot	6m^3	October 2021	October 2021	October 20212	October 2022
Permanent salt spreader. *New Ross Truck* Fleet No. 121. 132 KE 842	Wexford Depot	9m^3	October 2021	October 2021	October 20212	October 2022
Permanent salt spreader. *Wexford Truck* Fleet No. 120. 132 KE 841	Wexford Depot	9m^3	October 2021	Sept/Oct 2021	October 2022	Sept/Oct 2022
Demountable salt spreader. *Regional Roads.* Fleet no. 114. 11 WX 2326.	Enniscorthy Depot	6m^3	October 2021	October 2021	October 20212	October 2022
Demountable salt spreader. *Standby* Fleet no. 113. 09 WX 1194.	Enniscorthy Depot	6m^3	October 2021	Sept/Oct 2021	October 2022	Sept/Oct 2022
Demountable salt spreader. *Standby*. Fleet no. 112. 09 WX 1094.	Wexford Depot	6m^3	October 2021	Sept/Oct 2021	October 2022	Sept/Oct 2022
Demountable salt spreader.*Standby*. Fleet no. 107. 03 WX 5044.	Enniscorthy Depot	6m^3	October 2021	October 2021	October 20212	October 2022

Spreaders will remain permanently mounted during holiday periods.

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of next Service
Snowplough	Wexford Depot	09 WX 1094	October 2021	October 2022
Snowplough	Enniscorthy Depot	09 WX 1194	October 2021	October 2022
Snowplough	Enniscorthy Depot	03 WX 5044	October 2021	October 2022
Snowplough	Enniscorthy Depot	03 WX 5042	October 2021	October 2022
Snowplough	Enniscorthy Depot	11 WX 2326	October 2021	October 2022
Snowplough	Enniscorthy Depot	11 WX 2327	October 2021	October 2022
Snowplough	Wexford Depot	132 KE 841	October 2021	October 2022
Snowplough	Wexford Depot	132 KE 842	October 2021	October 2022
Teleporter 12 TS 676	Enniscorthy Depot		October 2021	March 2022
Teleporter 07 WX 11105	Wexford Depot		June 2021	December 2021

14 Supplementary Resources

Wexford County Council has 13 no. snow blades in stock. These will be fitted to privately hired tractors, when required, to assist with snow clearance operations. In cases of heavy snow, loading shovels, tractors with snow blades, graders and wheel diggers will be hired in. In addition, Wexford County Council will hire in agricultural contractors to assist with gritting operations on Priority 3 routes.

15 Community Involvement during Severe Weather Events

Schools and Community Groups

Schools and Community Groups are advised to plan ahead for severe weather events and to make the necessary arrangements to have sufficient supplies of materials, plant and equipment in storage or available to them to cater for their anticipated needs during such events. Materials and equipment should be acquired in a timely manner in advance of the winter season while stocks are available.

Business Sector

The Commercial, Retail & Business sectors are requested to lend assistance in periods of severe weather by clearing snow and ice from footpaths in front of their premises. Recent legal opinion on the matter states that no legal liability exists to those carrying out such works once they are executed in a safe manner. It should be noted that the application of hot water to remove snow and ice from footpaths is not a safe or an acceptable method as more often than not the water refreezes and exacerbates the initial problem.

Agricultural Sector

The Local Authority will endeavour to work with rural communities & the IFA where possible. The treatment of rural roads by third parties should be carried out in accordance with national policy in this area, once published.

16 Details of Depots

Map Ref.	Salt Depots	Routes Serviced	Indoor or Outdoor	Max Capacity (tonnes)	Minimum stock levels at:		
					1st Oct	15th Dec	1st Mar
297740, 141970	EY Depot, Old Dublin Rd	Enniscorthy; Gorey; Regional Roads	Indoor	280	70		
303020, 120630	WX Depot 1, Whitemill Ind. Est.	Wexford; New Ross;	Indoor	1235	440		
		TOTALS		**1515**	**1090**		

17 Salt

Wexford County Council will be assigned an allocation of salt by the TII for use on its National roads. A further allocation of salt will be assigned by the Department of Transport for use on the non-National roads. At the time of writing, Wexford County Council was still awaiting details of these allocations. The suppliers of salt have been chosen on the basis of a Framework competition. Tim Murphy, Duty Engineer, will be responsible for the countywide (including the urban areas) ordering of salt from the supplier(s) and for coordinating deliveries. Tim Murphy will also be responsible for reporting and updating salt usage on a weekly basis on the National Salt Management System.

18 Grit

In the event of snowfall being predicted, Wexford County Council will arrange the delivery of 2/6 mm grit to various depots throughout the County. The supply of grit will be to facilitate the mixing with salt.

In extreme weather events, consideration will be given to establishing grit stockpiles at strategic locations throughout the County to enable communities to grit non-priority routes.

19 Materials and Spares

Fuel for the winter service period is stored in a 14,000 litre tank in the Machinery Yard, Old Dublin Road, Enniscorthy. The minimum level of fuel to be maintained is 7,000 litres. The person responsible for ordering the fuel and ensuring that the minimum level is maintained is Geraldine Dowler, Assistant Staff Officer. Fuel is ordered through the SupplyGov.ie system. Suppliers vary, depending on the most economically advantageous tender submitted.

A limited number of spare parts for winter service machinery are stored in the Machinery Yard, Old Dublin Road, Enniscorthy. The person responsible for re-ordering parts is the Workshop Foreman in the Machinery Yard. All spare parts are ordered from Romaquip Ltd., Birr, Co. Offaly; Telephone: 057 9120836.

20 Appendices

The various Appendices connected with this Winter Service Plan are contained in the following pages. The list of Appendices is given below.

Appendix 1	Overall Map of the Service Plan Area
Appendix 2	Treatment Route Cards
Appendix 3	BAM – Winter Maintenance Arrangements for:
	Gorey Bypass; Enniscorthy Bypass and New Ross Bypass
Appendix 4	Names and Roles of Key Personnel
Appendix 5	Duty Engineers' Roster
Appendix 6	Contact Details
Appendix 7	Duty Engineer's Record Sheet
Appendix 8	Risk Assessment

Appendix 1

Overall Map of the Service Plan Area

ROUTE DESIGNATION	DESCRIPTION	LEVEL OF SERVICE
PRIORITY 1 (Red Route)	N11 ; N25 ; N30 ; N80 ; M11 LINK (Clogh to Frankfort Interchange)	To be treated during all sub -zero (frost,ice,snow) weather events
PRIORITY 2 (Blue Route)	R700 - R702 (Part of) from Enniscorthy to Kiltealy - R714 R723 Ballymacar Roundabout to Co. Bounds R725 from Gorey to Co. Bounds - R728 R730 (Part of) from Drinagh Roundabout to Ferrycarrig & Ferrycarrig to Ballymacksey R732 - R733 (Part of) from King Street to Arthurstown and from Slaght to Brandon House Hotel - R734 (Part of) from Slaght to Tellaraught Cross R738 (Part of) from Larkin's Cross to Waddingtown R739 - R741 R742 (Part of) from Gorey to Courtown R744 (Part of) from Templescoby to Castleellis R746 (Part of) from Doran's Cross to Bunclody, Bunclody to the Co. Boundary R769 - R770 - R772 - R890 - L2025	To be treated for the most part as per Priority 1, but may have interruptions to treatment in certain severe weather events.
PRIORITY 3 (Green Route)	All other Regional Roads	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events
M11 GOREY / ENNISCORTHY PPP SCHEMES	M11 Motorway PPP Schemes - Winter Maintenance to be carried out by the Concessionaire (BAM / Iridium)	
N25 / N30 NEW ROSS PPP SCHEME	N25 / N30 New Ross PPP Scheme - Winter Maintenance to be carried out by the Concessionaire (BAM / Iridium)	

M11 Arklow Bypass Weather Station
CARNEW
CRAANFORD
GOREY
COURTOWN
BUNCLODY
CLOUGH
M11 LINK
CAMOILN
BALLYCANEW
FERNS
BALLYCARNEY
BALLYGARRET
KILTEALY
N25 Enniscorthy Weather Station
Enniscorthy Salt Depot
KILMUCKRIDGE
RATHNURE
ENNISCORTHY
BALLAGHKEEN
BLACKWATER
CLONROCHE
BALLYWILLIAM
OILGATE
PALACE
NEW ROSS
N30 NEW ROSS PPP SCHEME
ADAMSTOWN
CASTLEBRIDGE
CURRACLOE
BALLYNABOLA
CARRICKBYRNE
CAMAROSS
N25 NEW ROSS PPP SCHEME
NEWBAWN
BARNTOWN
WEXFORD
Wexford Salt Depot
TAGHMON
N25 Drinagh Weather Station
ROSSLARE
KILLINICK
ROSSLARE HARBOUR
TAGOAT
KILRANE
WELLINGTON BRIDGE
BALDWINSTOWN
BALLYHACK
ARTHURSTOWN
RAMSGRANGE
CARRICK
DUNCORMICK
BRIDGETOWN
DUNCANNON
KILMORE
FETHARD
KILMORE QUAY

	Weather Stations
	Salt Depots

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EAMONN HORE DIRECTOR OF SERVICES
SINEAD CASEY SENIOR ENGINEER

DRAWING NOTES

DRAWING DATA

INCLUDES ORDNANCE SURVEY IRELAND DATA UNDER OSI LICENSE NUMBER WEXFORD2020/34/CCMA /WEXFORD COUNTY COUNCIL. UNAUTHORISED REPRODUCTION INFRINGES ORDNANCE SURVEY IRELAND AND GOVERNMENT OF IRELAND COPYRIGHT © ORDNANCE SURVEY IRELAND 2021

NORTH

DRAWN BY	D. CODD C.T.
CHECKED BY	A. DUNNE S.E.E
APPROVED BY	S. CASEY S.E.
ISSUE DATE	NOVEMBER 2021
SCALE	NTS
SHEET SIZE	A4
DWG NUMBER	WX-WSP-01
REVISION	0

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021-2022

DRAWING TITLE
Overall Map of the Winter Service Plan Area

Appendix 2

Treatment Route Cards

Route No. 1 - Enniscorthy Truck

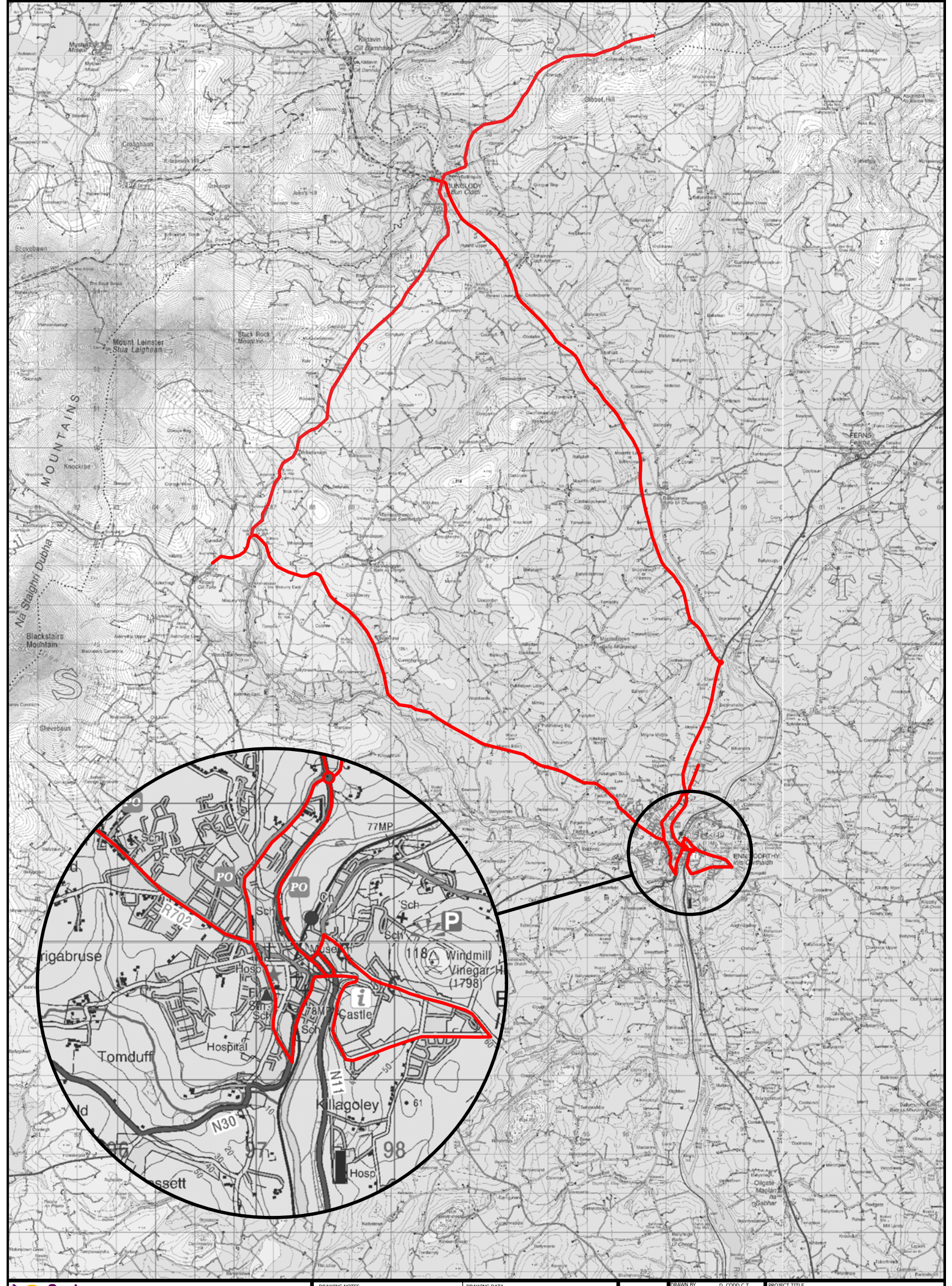
Reg. No. 03 WX 5042 Fleet No. 106

Average Spread Width : 8.0 metres

Road No.	*Description*	*Length (km)*	*Salt*
L2008	Machinery Yard to Blackstoops roundabout	0.80	No
R772	Blackstoops Roundabout to Old Bridge	1.70	Yes
R744	Old Bridge to Drumgoold to Esmonde Rd to New Bridge	3.50	Yes
R772	New Bridge via Old Bridge to Castle Hill roundabout	0.70	Yes
R744/N30	Castle Hill Roundabout to R730 junction (Area Bounds)	11.10	Yes
N30/R744	R730 junction to 1798 Centre	10.50	No
R890	1798 Centre to the Duffry to Blackstoops Roundabout	2.88	Yes
R890	Blackstoops Roundabout to The Duffry	1.48	No
R702	The Duffry to school at Kiltealy	15.54	Yes
R702	School at Kiltelay to Dorans Cross Roads	1.74	No
R746	Dorans Cross Roads to Bunclody to County bounds R746	18.20	Yes
R746	County bounds to Bunclody Roundabout	7.21	No
N80/R772	Bunclody Rbt to Bridge N80 Bunclody to Blackstoops Rbt	18.62	Yes
L2008	Blackstoops Roundabout to Machinery Yard	0.80	Yes

Round Trip = 94.77 km

Salt on 73.04 km of road



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Roads & Transportation

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SHEET SIZE	A4
DWG NUMBER	WX-WSP-01-01
REVISION	0

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021-2022

DRAWING TITLE
Salting Routes
- Enniscorthy Truck Route 1 -

Route No. 2 - Gorey Truck

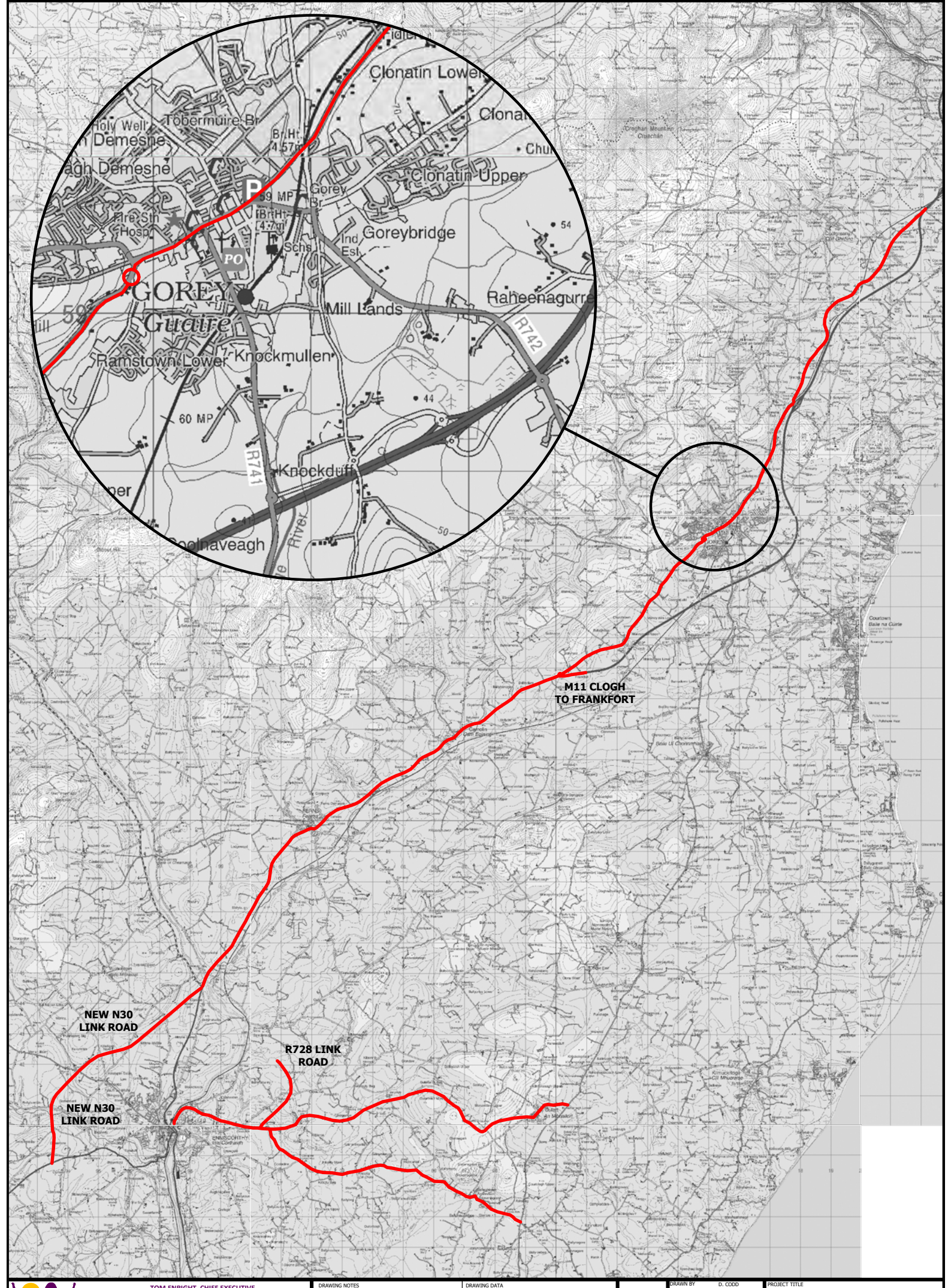
Reg. No. 11 WX 2327 Fleet No. 115

Average Spread Width : 8.0 metres

Road No.	*Description*	*Length (km)*	*Salt*
R772	Machinery Yard to Clavass Roundabout	3.00	No
N30	Clavass Roundabout to Templescoby Roundabout	8.20	Yes
N30	Templescoby Roundabout to Scarawalsh Rbt.	8.20	No
R772	Scarawalsh Roundabout to Clogh Roundabout	13.20	Yes
M11	Clogh Roundabout to Frankfort Junction	0.60	Yes
M11	Frankfort Junction to Clogh Roundabout	0.60	Yes
R772	Clogh Roundabout to County Bounds	20.50	Yes
R772	County Bounds to The Avenue	13.20	No
R741	The Avenue to Castle Ellis	25.40	No
R744	Castle Ellis to Tomnafunshoge	9.50	Yes
Local	Tomnafunshoge to Kilnamanagh Lower	11.00	Yes
Local	Kilnamanagh Lower to Tomnafunshoge	11.00	No
R728	Tomnafunshoge to Ballydawmore	2.80	Yes
R728	Ballydawmore to Tomnafunshoge	2.80	No
R744	Tomnafunshoge to Old Bridge, Enniscorthy	3.70	Yes
R772	Old Bridge to Machinery Yard	2.90	No

Round Trip = 136.6 km

Salt on 70.1 km of road



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DWG NUMBER	REVISION
WX-WSP-01-01	0

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021-2022

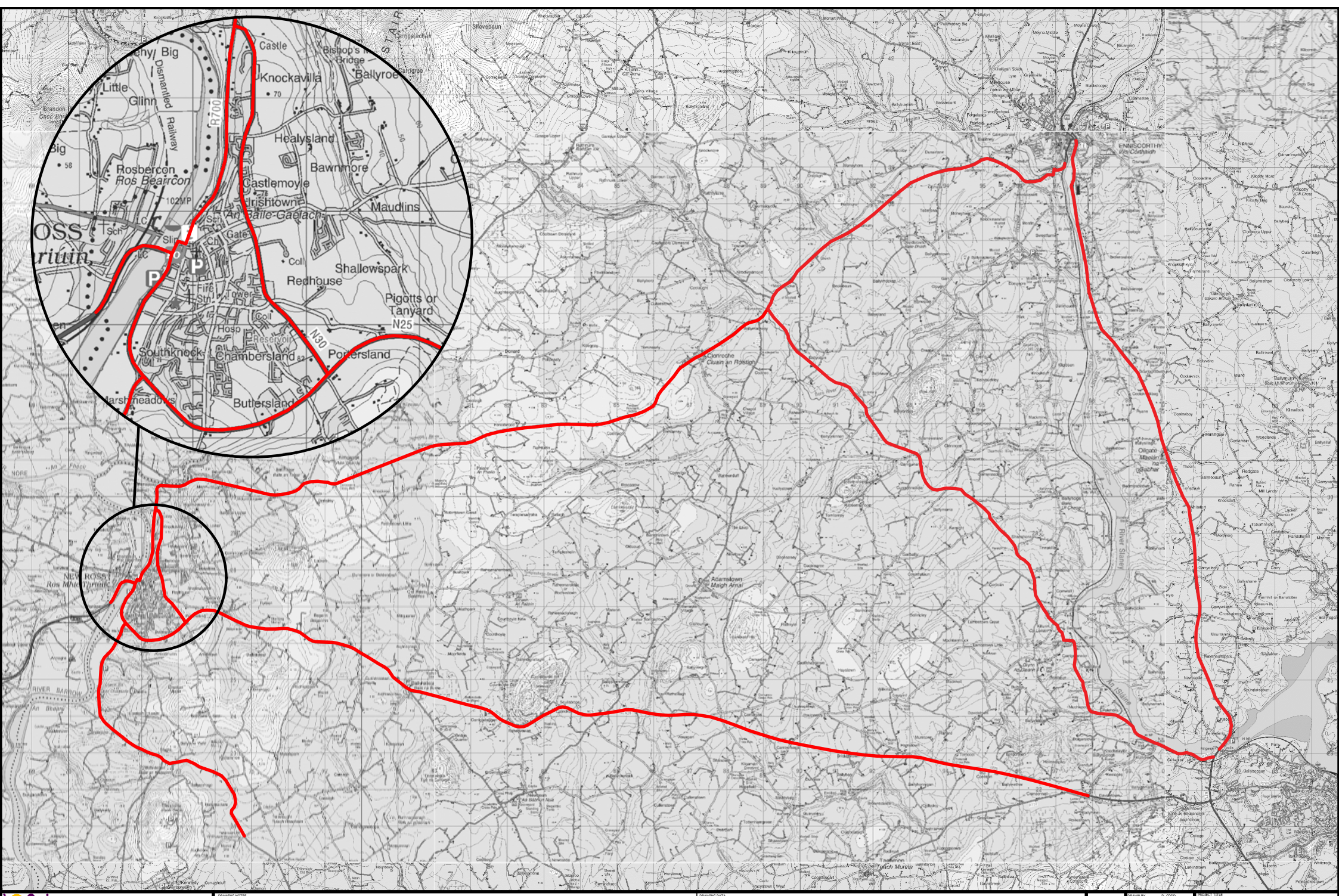
DRAWING TITLE
Salting Routes
- Gorey Truck Route 2 -

Route No. 3 - New Ross Truck
Reg. No. 132 KE 842 Fleet No. 121
Average Spread Width : 8.5 metres

Road No.	***Description***	***Length (km)***	***Salt***
Local / R733	Wexford Depot to Duncannon Road Roundabout	1.10	No
N25	Duncannon Rd Rbt. to Ferycarrig Bridge Jct. (R730)	3.38	No
N11/R772	Ferycarrig Bdg. Jct. (R730) to New Bdg. Enniscorthy	17.78	Yes
R772/N11	New Bridge Enniscorthy to Heritage Park Jct.	18.06	No
R730	Heritage Park jct. (N25) to R730 jct Ballymackessy	19.02	Yes
N30/R714/R700	R730 jct. Ballymackessy to Mountelliott Rbt.	19.20	Yes
Local	Mountelliott Rbt. to New Ross Bridge	2.21	Yes
Local	New Ross Bridge to Mountelliot Roundabout	2.21	No
R700	Mountelliot Roundabout to Kents Cross Rbt.	3.42	Yes
R723	Kents Cross Rbt. to Oaklands Rbt. (W. bound only)	2.03	Yes
R733	Oaklands Roundabout to junction with R734	4.90	Yes
R734	R733/R734 junction to Tellarought Cross	3.60	Yes
R733/734	Tellarought Cross to Oaklands Roundabout	8.50	No
R723	Oaklands Rbt. New Ross Brg. (W bound only)	1.21	Yes
R723	New Ross Bridge to Co. Bounds at Kilkenny	1.04	Yes
R723	Co. Bounds at Kilkenny to New Ross Brg.	1.04	No
R723	New Ross Bridge to Kents Cross Rbt. (E bound only)	3.24	Yes
R723/N25	Kents Cross Rbt. to Ballymacar Roundabout	1.84	Yes
N25	Ballymacar Rbt. Cushionstown Church N25	3.09	Yes
N25	Cushionstown Church to Larkin's Cross	21.07	Yes
N25	Larkin's Cross to Newtown Road Roundabout	3.40	No
N11/R733/Local	Newtown Rd Rbt. to Ducannon Rd Rbt. to depot	3.02	No

Round Trip = 144.36 km

Salt on 103.65 km of road



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SHEET SIZE	A4
DWG NUMBER	WX-WSP-01-01
REVISION	1

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021-2022

DRAWING TITLE
Salting Routes
- New Ross Truck Route 3 -

Route No. 4 - Wexford Truck

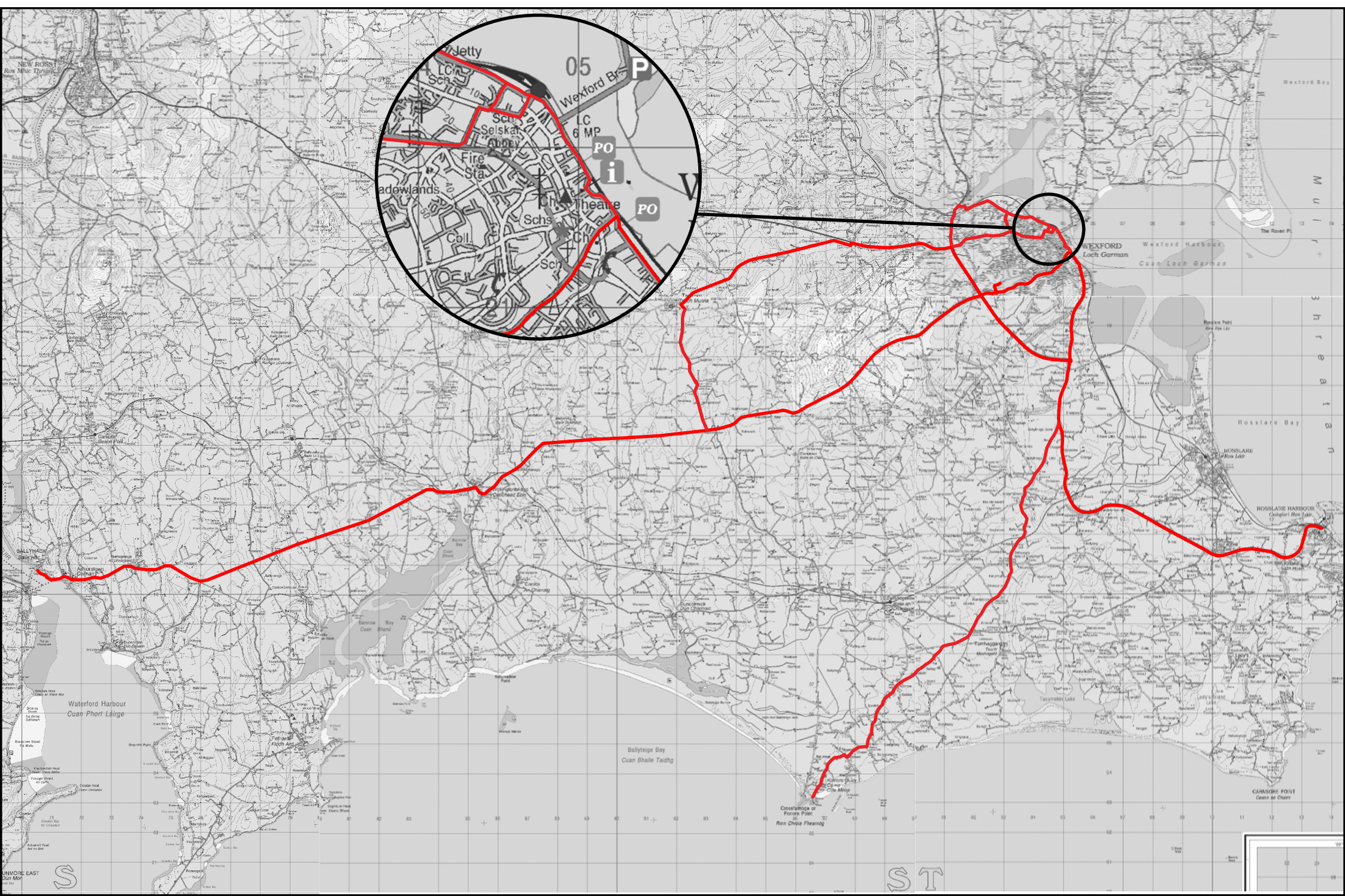
Reg. No. 132 KE 841 Fleet No. 120

Average Spread Width : 8.0 metres

Road No.	*Description*	*Length (km)*	*Salt*
Local	Wexford Depot to Woodies Roundabout	0.60	Yes
R733	Woodies Rbt. to Duncannon Road Roundabout	0.50	Yes
R733/770	Duncannon Road Roundabout to Ballyhack	35.20	Yes
R770/733	Ballyhack to Waddingtown	24.30	No
R738	Waddingtown to Taghmon	4.30	Yes
R738	Taghmon to Larkin's Cross	6.60	Yes
N25	Larkin's Cross to Newtown Road Roundabout	3.40	Yes
N25	Newtown Road Roundabout to Drinagh Roundabout	5.70	Yes
N25	Drinagh Roundabout to Rosslare Harbour	14.50	Yes
N25	Rosslare Harbour to R736 jct. Tagoat	4.44	No
R736	Tagoat to Tenacre Cross R739	9.40	No
R739	Tenacre Cross to Kilmore Quay Rbt.	8.50	No
R739	Kilmore Quay Rbt. to N25 Jct. Sheepwalk	16.69	Yes
N25	R739 Jct. Sheepwalk to Drinagh Roundabout	2.26	No
R730	Drinagh Roundabout to King Street	3.80	Yes
R733	King Street to Woodies Roundabout	3.00	Yes
R733	Woodies Rbt. to Duncannon Road Roundabout	0.50	No
N25	Duncannon Rd Rbt. to Newtown Road Rbt	1.90	No
N11	Newtown Road Rbt to Ferrigcarrig Bridge Jct.	1.47	Yes
R730	Ferrycarrig Bridge Jct. to Seamus Kelly Roundabout	1.95	Yes
Local	Seamus Kelly Rbt to Hospital jct.	1.65	Yes
Local	Hospital Road Junction to Seamus Kelly Rbt.	0.90	No
R730	Seamus Kelly Rbt to 1798 Street Junction	1.53	Yes
R730	1798 Street Junction to King Street	1.15	Yes
R730	King Street to Redmond Square	0.98	No
R730/R769	Redmond Square to Newtown Rd Rbt via 1798 Street	3.54	Yes
N25/R733/L.	Newtown Road Roundabout to Depot	3.21	No

Round Trip = 161.97 km

Salt on 105.58 km of road



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REVISION	0

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021-2022

DRAWING TITLE
Salting Routes
- Wexford Truck Route 4 -

Route No. 5 - Regional Road Truck

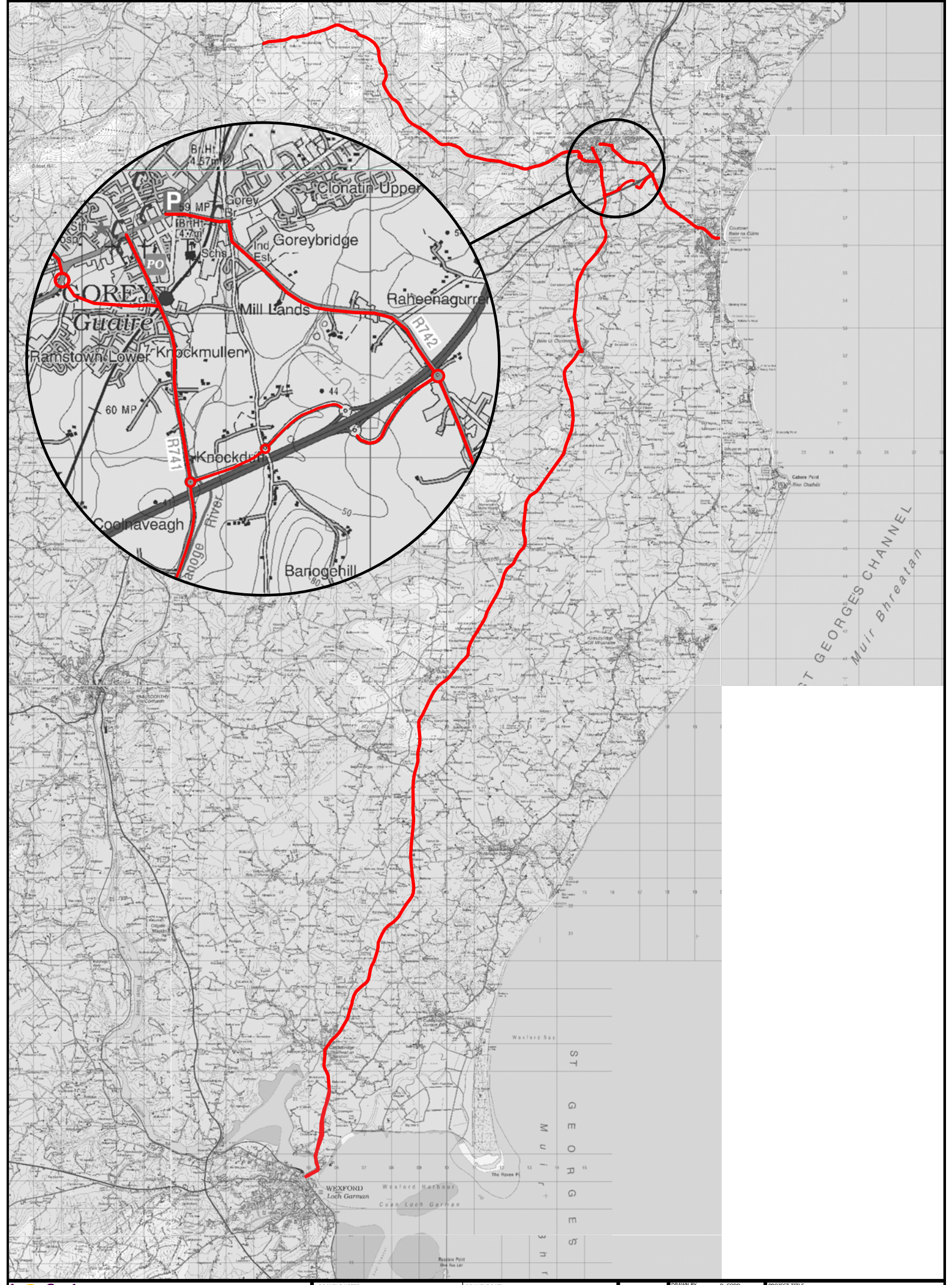
Reg. No. 11 WX 2326 Fleet No. 114

Average Spread Width : 7.5 metres

Road No.	*Description*	*Length (km)*	*Salt*
R772/N11	Machinery Yard to Ferrigcarrig Bridge Jct.	20.10	No
R730	Ferrigcarrig Bridge to Wexford Bridge	3.91	No
R741	Wexford Bridge to The Avenue Roundabout	41.70	Yes
Local	The Avenue Rndbt. to Gorey Monument Roundabout	0.70	Yes
R725	Gorey Monument Roundabout to Co. Bounds	14.50	Yes
R725	Co. Bounds to Gorey Monument Roundabout	14.50	No
Local	Gorey Monument Roundabout to The Avenue Roundabout	0.70	No
R741	The Avenue Roundabout to Main Street, Gorey	0.40	Yes
R772	Main Street, Gorey to Esmonde Street	0.35	No
R742	Esmonde Street to Courtown	5.80	Yes
R742	Courtown to Courtown Road Roundabout	3.50	No
R761	Courtown Road Rndbt. to Ballycanew Road Roundabout	2.40	Yes
R761	Ballycanew Road Roundabout to Junction 23	1.80	No
M11	Junction 23 to Ballydawmore (Junction 25)	23.80	No
N30	Ballydawmore to Scarawalsh Roundabout	4.20	No
R772	Scarawalsh Roundabout to Machinery Yard	3.00	No

Round Trip = 141.36 km

Salt on 65.50 km of road



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REVISION	1

PROJECT TITLE
Wexford County Council
Winter Service Plan 2021 - 2022

DRAWING TITLE
Salting Routes
- Regional Roads Truck Route 5 -

Appendix 3

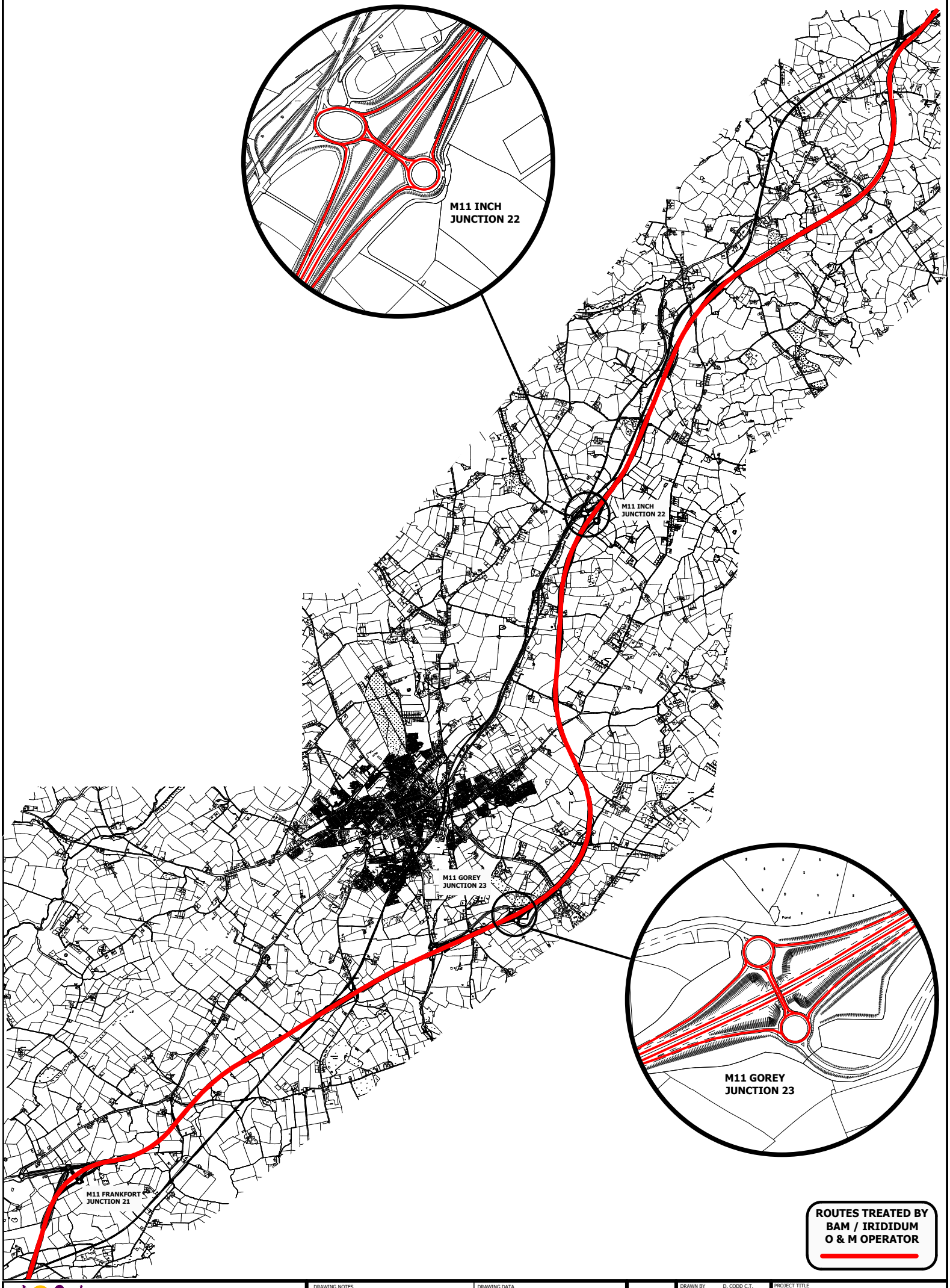
BAM/Iridium O&M Operator

Winter Maintenance Arrangements

Gorey Bypass

M11 Gorey to Enniscorthy Scheme

N25 New Ross Bypass



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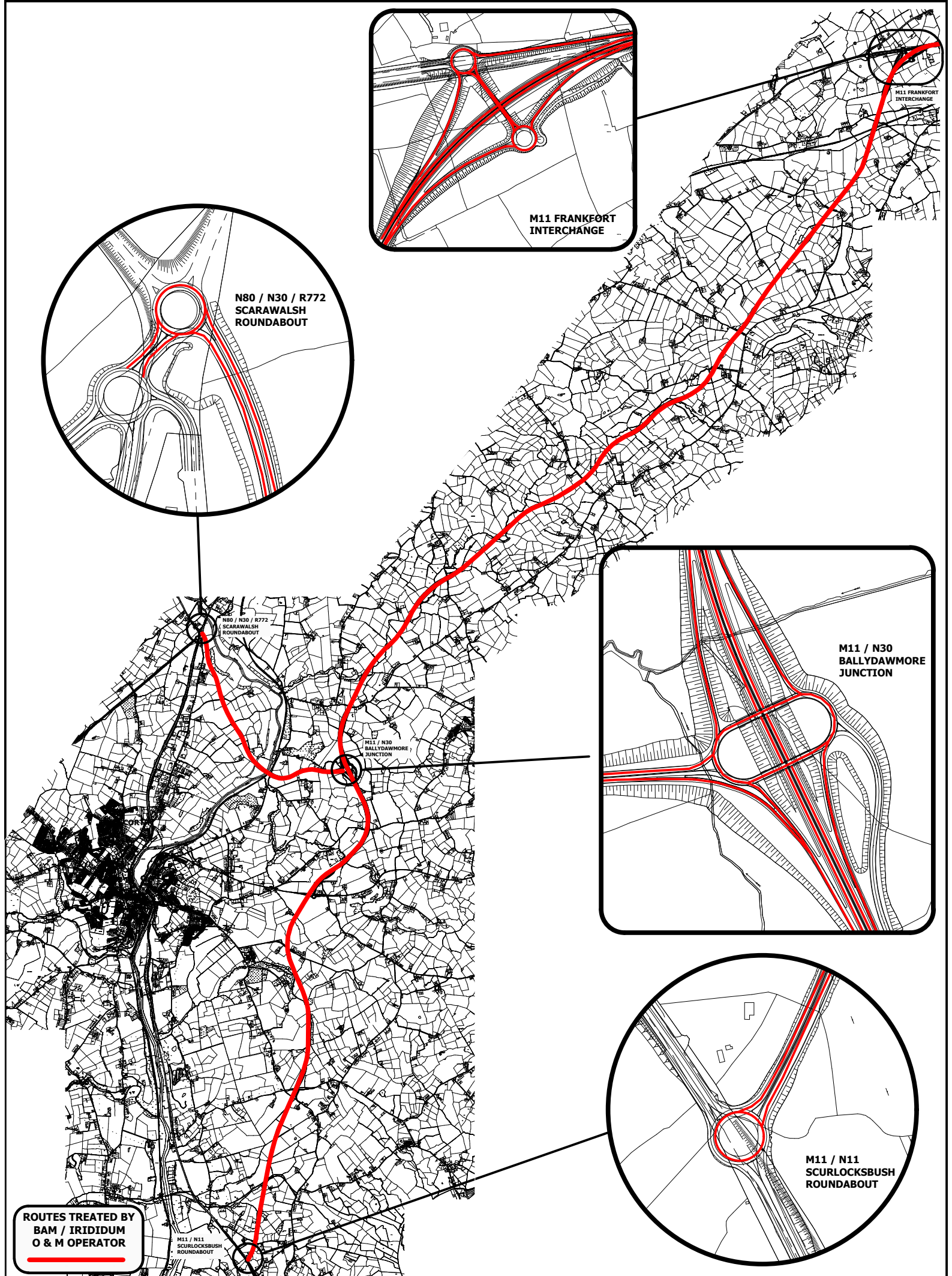
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PROJECT TITLE
BAM / Iridium O & M Operator
Winter Maintenance Arrangements

DRAWING TITLE
M11 Gorey Bypass



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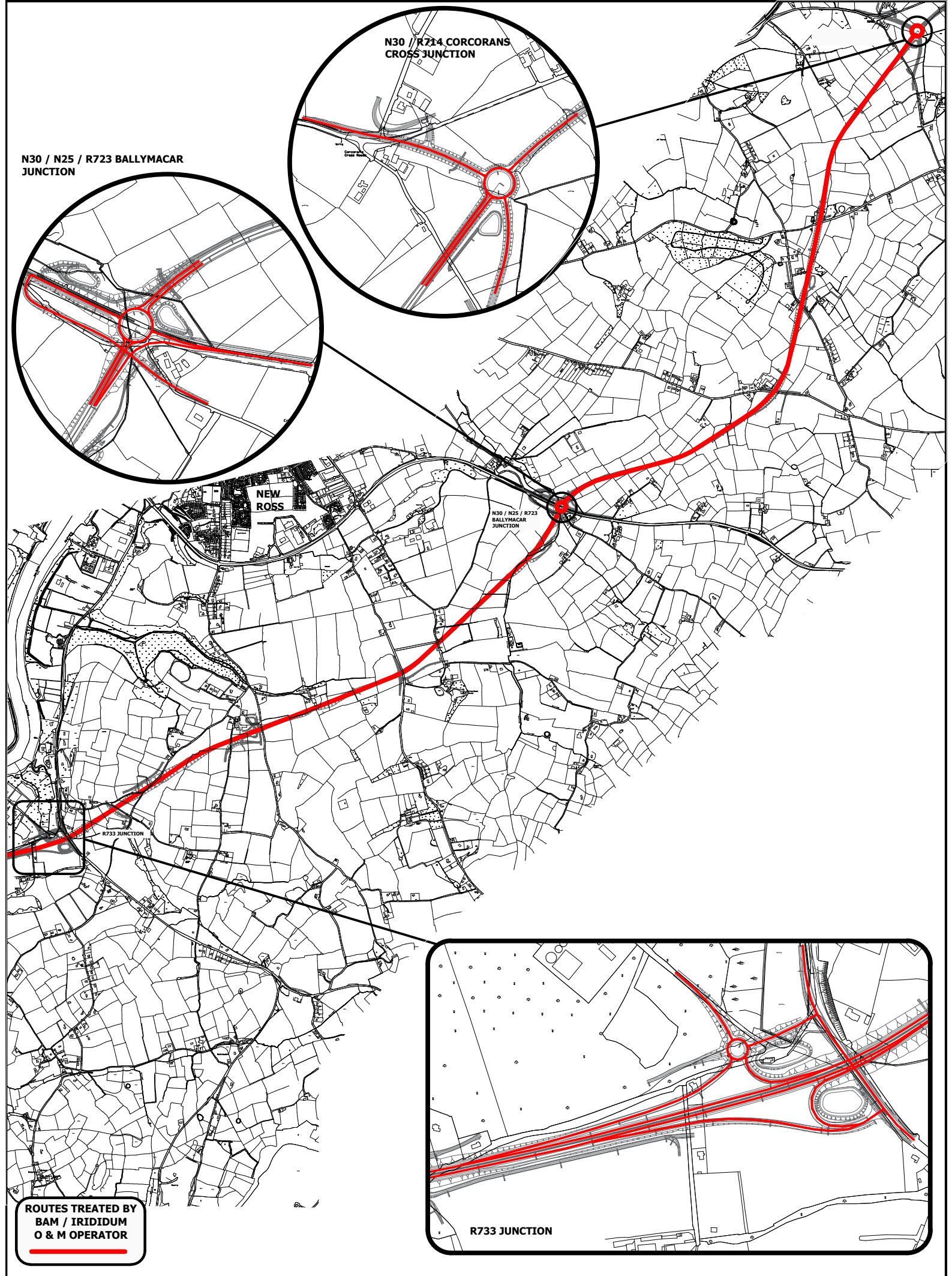
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PROJECT TITLE
BAM / Iridium O & M Operator Winter Maintenance Arrangements

DRAWING TITLE
M11 Gorey to Enniscorthy Scheme



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PROJECT TITLE
BAM / Iridium O & M Operator Winter Maintenance Arrangements

DRAWING TITLE
N25 New Ross Bypass

Appendix 4

Names and Roles of Key Personnel

Winter 2021 / 2022

Names and Roles of Personnel

Winter Service Manager	*Abraham Dunne*
Duty Engineers	*Tim Murphy*
	Sinead Casey
	Abraham Dunne
Winter Service Supervisor	*Tom Bates* *Hugh Russell*
Winter Service Drivers	*Anthony Magee (Enniscorthy Truck)*
	Andrew Holden (Enniscorthy Truck)
	John Quigley (Gorey Truck)
	Mick Devereux (Gorey Truck)
	Jim Creane (New Ross Truck)
	Kevin Murphy (New Ross Truck)
	Jon Birney (Wexford Truck)
	Jim Jeffares (Wexford Truck)
	Michael Armstrong (Regional Road Truck)
	Paul Finn (Regional Road Truck)
	Martin Byrne (Replacement Driver)
	James Murphy (Replacement Driver)
	John Doyle (Replacement Driver)
	Shem Roberts (Replacement Driver)
	Alan Carton (Replacement Driver)

Adrian Kelly (Replacement Driver)

Vincent Stamp (Replacement Driver)

John Tobin (Replacement Driver)

Liam Levingstone (Replacement Driver)

Winter Service Helpers (to be called on during snow and blizzard conditions)

Pat Hendricks (Helper – Enniscorthy Truck)

Larry Cloke (Helper – Enniscorthy Truck)

John Joe Jordan (Helper – Gorey Truck)

Stephen McCormack (Helper – Gorey Truck)

Tom Smith (Helper – Gorey Truck)

Tom Byrne (Helper – New Ross Truck)

Martin Connick (Helper – New Ross Truck)

Ger O'Reilly (Helper – Wexford Truck)

Joe Goff (Helper – Wexford Truck)

Mick Carthy (Helper – Wexford Truck)

Jimmy Hillis (Helper – Wexford Truck)

Paul Jordan (Helper - Regional Road Truck)

Sean Fenlon (Helper – Regional Road Truck)

Appendix 5

Duty Engineers' Roster

Winter Service Duty Engineers' Roster for the Period 18th October 2021 to 30th April 2022

Local Authority Name: *Wexford County Council*

Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials
18/10/2021	**TM**	13/12/2021	**SC**	07/02/2022	**TM**	04/04/2022	**SC**
25/10/2021	**SC**	20/12/2021	**AD**	14/02/2022	**SC**	11/04/2022	**SC**
01/11/2021	**SC**	27/12/2021	**TM**	21/02/2022	**AD**	18/04/2022	**AD**
08/11/2021	**AD**	03/01/2021	**SC**	28/02/2022	**TM**	25/04/2022	**AD**
15/11/2021	**TM**	10/01/2022	**AD**	07/03/2022	**SC**		
22/11/2021	**SC**	17/01/2022	**TM**	14/03/2022	**AD**		
29/11/2021	**AD**	24/01/2022	**SC**	21/03/2022	**TM**		
06/12/2021	**TM**	31/01/2022	**AD**	28/03/2022	**TM**		

Duty Engineer's Name & Initials	*Office Phone No*	*Office E-mail Address*	*Mobile No*
Abraham Dunne **AD**			
Sinead Casey **SC**			
Tim Murphy **TM**			

Send to: CAFO, Met. Éireann, Glasnevin Hill, Dublin 9. Attention: Duty SMO. E-mail:

Copy to: Owen Smith, Transport Infrastructure Ireland, Parkgate Business Centre, Parkgate Street, Dublin 8. E-mail:

Appendix 6

Contact Details

Winter 2021 / 2022

Contact Details

Name	**Mobile Number**	**Home / Work Number**

General

Tim Murphy
Sinead Casey
Abraham Dunne
David Codd

Hugh Russell
Tom Bates
Kieran Whelan

Met Office

Vaisala Helpdesk

BAM O&M

Eduard Martinez
Michael Kenny
Don Doyle
Conor Cardiff
Jason Bolger
Pat Byrne

Carlow County Council

Pat Harrington
Ray Wickham
Barry Knowles
Jerry Crowley

Kilkenny County Council

Seamus Kavanagh
Philippe Beubry
Stan Cullen
Declan Murphy

Waterford City and County Council

Gabriel Hynes
Josephine McGrath
Alan Kirwan

Wicklow County Council

Pat Clarke
Declan O'Brien
Brian O Sullivan
Conor Carty

Enniscorthy District

M J Rossiter
Johnny Walsh
Neil Dempsey
District Office
Emergency Number

Gorey Kilmuckridge District

Robert Steacy
Declan Mulhall
Joanne Kehoe
Area Office
Emergency Number

New Ross District

Tom Hogan
Henry Rochford
Eilis Furlong
District Office
Emergency Number

Wexford District

John Furlong
John Ross
Sean Kavanagh
District Office
Emergency Number

Rosslare District

James Kavanagh
Padraig Power
Mark Collins
District Office
Emergency Number

Drivers

Enniscorthy Truck

Anthony Magee
Andrew Holden

Gorey Truck

John Quigley
Mick Devereux

New Ross Truck

Jim Creane
Kevin Murphy

Wexford Truck

Jon Birney
Jim Jeffares

Regional Road Truck

Michael Armstrong
Paul Finn

Replacements

Martin Byrne
James Murphy
John Doyle
Shem Roberts
Alan Carton
Adrian Kelly
Vincent Stamp
Liam Levingstone
John Tobin

Helpers

Enniscorthy Truck

Pat Hendricks
Larry Cloke

Gorey Truck

John Joe Jordan
Stephen McCormack
Tom Smith

New Ross Truck

Tom Byrne
Martin Connick

Wexford Truck

Ger O'Reilly
Joe Goff
Mick Carthy
Jimmy Hillis

Regional Road Truck

Paul Jordan
Sean Fenlon

Appendix 7

Duty Engineer's Record Sheet

DUTY ENGINEER'S REPORT

Name of Duty Engineer:

From: To:

Number of precautionary treatment turnouts?	
Number of post salting turnouts (after occurrence of ice or snow)?	

Signed: _____

Date: _____

Date	***Call Out (Y/N)***	***Time Decision Made***	***Met Eireann (Y/N)***	***Routes to be Salted***	***Start Time***	***Salt Type***	***Directed Rate of Spread***

Appendix 8

Risk Assessment - Salting

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Mounting / Demounting the Salt Spreader	Drivers	Ensure personnel involved in the operation are trained and instructed in the correct procedure.	Senior Executive Engineer (Non-National Roads)
		The mounting and demounting of the spreader should only be carried out by persons trained in the procedure.	Driver
		The mounting and demounting of the spreader should only be carried out on a level, firm and marked concrete base, and in a well lit area.	Driver
		Ensure the mount/demount Load Safety Strap is properly adjusted and correctly fitted before mounting and demounting the spreader. The mounting/demounting cannot take place without the Load Safety Strap being in place.	Driver
		Personnel are prohibited from crossing underneath a demounted or partly demounted spreader. Other than the necessary personnel required to mount/demount the spreader unit, all other personnel must stand outside the working zone.	All Personnel
		After mounting, ensure the Load Safety Strap is only removed and stored when the spreader is firmly secured to the truck with the tie down strappings provided.	Driver
		After demounting, ensure the Load Safety Strap is only removed when the truck is not bearing any of the weight of the spreader and the support legs are down and locked.	Driver
		Ensure the Load Safety Strap and the tie down strappings comply with: *EN 12195 Part 1* and *EN 12195 Part 2.*	Fleet Manager
		Ensure that inspections of the straps and strappings are carried out by a competent person at intervals recommended by the Supplier/Manufacturer.	Fleet Manager

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Mounting / Demounting the Salt Spreader (cont.)	Drivers	Ensure that only legibly marked and labelled straps and strappings are used.	Fleet Manager
		Ensure that straps and strappings are never used when knotted.	Driver
		Visually examine straps and strappings before each use. Straps and strappings are not to be used if there are deformations, pronounced signs of wear or signs of corrosion.	Driver
		Ensure that repairs to straps and strappings are only carried out by a certified supplier.	Fleet Manager
		Ensure straps and strappings when not in use are stored in a cool and dry area. Straps and strappings must be protected against adverse weather conditions and chemically active environments.	Driver
Loading of Salt into the Spreader	Drivers	Teleporter, loading shovel or digger should only be operated out by a competent, qualified person.	CSCS Ticket Holder
		Manual controls for operating the hopper cover and flashing beacons are located at the rear of the spreader unit, and are accessible from ground level.	Driver
		Adequate lighting is to be provided at each loading location. The illumination of the loading area shall not be dependent on the lights on the loading shovel to maintain suitable levels of light. The level of light should not allow shadows in the loading zone.	Senior Executive Engineer (Non-National Roads)
		Other than the necessary personnel required to load the salt into the spreader, all other personnel must stand outside the loading zone.	All Personnel

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Loading of Salt into the Spreader (cont.)	Drivers	Under no circumstances should personnel climb on to the top of the salt spreader during or after the loading operation.	All Personnel
Fueling Spreader	Drivers	The operator will access the fuel tank using the mounted steps on the rear of the spreader. Ensure the steps are clean and free from defects. Use the handrails provided. Once on the platform, close over the top guard rail to prevent accidental fall from height.	Driver
Spreading Salt	Salt Spreading Personnel General Public	Ensure that all salt spreading personnel receive appropriate training.	Senior Executive Engineer (Non-National Roads)
		Ensure that all salt spreading personnel are briefed at the start of each season.	Senior Executive Engineer (Non-National Roads)
		The routes of the Salt Spreader Unit are to be assessed and organised in a manner that will ensure the driver of the Salt Spreader Unit can carry out his duties in a safe and orderly manner. Turning areas for each route are to be identified.	Senior Executive Engineer (Non-National Roads)
		The Driver of the Salt Spreader must adhere to the Rules of the Road and comply with the Road Traffic Acts.	Driver
		The unit should never travel at a speed in excess of 80km/h. The speed limit should always be adhered to. Cognisance should be taken of weather conditions and the route to be traversed.	Driver
		Before each spreading operation, the operator will carry out a programme of prescribed checks. The Salt Spreading is not to commence unless these checks have been successfully completed.	Driver

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Spreading Salt (cont.)	Salt Spreading Personnel General Public	Ensure the flashing amber beacons are working and turn them on before leaving the depot.	Driver
		Manual control panel for salt spreader is located in the cab. Exercise caution when adjusting controls.	Driver
		In the event that the truck breaks down, contact is to be made with the General Services Supervisor (Machinery Yard) to arrange repairs. The hazard warning lights and amber flashing beacons are to be switched on during the breakdown. Ensure that high visibility clothing is worn before exiting the vehicle. Ensure extreme caution is exercised when exiting the vehicle. Remain alert to traffic and other road users. If safe to do so, put warning triangle at least 45 metres behind broken down vehicle on same side of the road. Remain vigilant and alert at all times. Ensure that you return to a safe area. Do not stand between vehicle and on-coming traffic. When the breakdown or emergency is over, ensure that the warning triangle is retrieved in a safe manner, remaining alert to other traffic .	Driver
		In the event that the spreader breaks down, the unit is to be returned to the depot for repair works. The spreading is to be completed using the spare spreader, if available, or using another Area's spreader once it has completed its own spreading operations.	Driver

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Spreading Salt (cont.)	Salt Spreading Personnel General Public	In the event that the salt on the spreader blocks up, the unit is to be parked off the road, preferably in a well lit area. Under no circumstances should an attempt be made to clear a blockage while the truck is on the carriageway or hard shoulder. Turn off the conveyor at manual control panel located in the cab. The hazard warning lights and amber flashing beacons are to be switched on while the unit is parked up. Ensure that high visibility clothing is worn before exiting the vehicle. Ensure extreme caution is exercised when exiting the vehicle, walking to the rear and mounting the steps to adjust the 'gate'. Do not climb up onto the hopper. The hopper is not to be entered when the conveyor is moving or when the spreader is operating. Do not touch or come close to any moving parts. Return to the cab on the off-road side to turn on the conveyor. When the blockage is cleared, resume normal operation. Exercise care when emerging into traffic.	Driver
		Manual control panel for salt spreader is located in the cab. Exercise caution when operating controls.	Driver
		The hopper is not to be entered when the conveyor is moving or when the spreader is operating.	All Personnel
		Do not touch or come close to any moving parts.	All Personnel
		Stand a safe distance away from the spreader when it is operating.	All Personnel
		Do not walk behind the spreader when the salt is being spread. Flying material from the spreader can inflict injury.	All Personnel
Unloading Spreader and Washing Down	Salt Spreading Personnel	Vehicle is fitted with reversing camera. Take care when reversing.	Driver

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Unloading Spreader and Washing Down (cont.)	Salt Spreading Personnel	Ensure spinner is switched off before emptying the hopper.	Driver
		Do not touch or come close to any moving parts.	All Personnel
		Stand a safe distance away from the conveyor when it is unloading. Note: the conveyor is operating at high speed.	All Personnel
Slips, Trips and Falls	Salt Spreading Personnel	High visibility vests/jackets are to be worn at all times when outside the cab of the truck. Jackets for personnel on the Gorey Bypass must be Class 3.	All Personnel
		Appropriate safety footwear with good soles must be worn at all times.	All Personnel
		Ensure steps are clean and free from defects.	Driver
		Ensure all guards are in place before removing lumps of salt or checking quantity of salt in the hopper.	Driver
		Do not walk or stand on the grid at the top of the hopper.	All Personnel
Working Close to the Public	General Public	When driving past pedestrians and in built up areas, ensure the rate of spread is adjusted to prevent members of the public from being sprayed with salt.	Driver
Lone Working	Driver	Salting arrangements should be such that at least two salt spreader units are located and are deployed from the assigned depots. Work schedules are such that salt spreading personnel should start work at the same time at the depots.	Senior Executive Engineer (Non-National Roads)
		Carry mobile phone adequately charged with emergency contact details pre-stored.	Driver

Hazard Activity	***Persons at Risk***	***Control***	***Action Person***
Lone Working (cont.)	Driver	Salt spreading units are fitted with GPS. Opeations can be monitored especially in the event of an emergency arising .	Senior Executive Engineer (Non-National Roads)
		Adequate lighting is to be provided at each depot.	Senior Executive Engineer (Non-National Roads)
Driving Own Vehicle to and from the Depot	Driver / General Public	Ensure the vehicle is roadworthy and legally compliant.	Driver
		Adhere to the Rules of the Road.	Driver
		Drive at an apporpriate speed with due regard to weather and road conditions. Do not exceed the speed limit.	Driver
		Park in a safe manner. Ensure vehicle is locked and windows closed. Do not leave items in view in the vehicles.	Driver
		Organise salting activities and schedules so as not to create undue driver fatigue (e.g. 7:00 pm start and driver rotation)	Senior Executive Engineer (Non-National Roads)
		Salt spreading operations are arranged, where practicable, to take place prior to the onset of freezing temperatures.	Senior Executive Engineer (Non-National Roads)