



MOORESVILLE STREET DEPARTMENT

Snow & Ice Control Plan



Town of Mooresville Street Department

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EXECUTIVE SUMMARY

The Town of Mooresville's Snow and Ice Control Plan is designed to organize reasonable, cost effective maintenance efforts during periods of snow or ice. In this plan Town streets are divided into major collectors and arterials, plus streets that serve schools, medical facilities and major employment centers. These areas receive de-icing, sanding and plowing first. This assures a street network system so that emergency services can be provided. Snow events in Mooresville vary in severity from a couple of inches to over one foot in depth. The variety of conditions that can occur during the snow-and-ice season in the Town makes advance preparation more difficult.

Combinations of these factors and the rate and accumulation of snowfall, moisture content, presence of sleet, freezing rain or hail, temperature during and after the storm, wind velocity, time of day or night, day or days of the week, storm duration, and intervals between storms interact to make each storm unique. The primary purpose of the snow and ice control plan is to provide effective use of equipment and personnel, minimize impact to the environment, help contain costs, and organize safe travel routes for emergency responders and the motoring public during winter storm events. Some inconvenience may be caused to citizens as snow is moved out of the streets. In certain areas snow may be plowed onto sidewalks or into driveways. It is the responsibility of each property owner to clear their driveway and all sidewalk areas adjacent to their property. Town crews put forth maximum effort during winter storm events, with prolonged storms becoming very tiring to the operators running the snow removal equipment. Equipment breakdowns, staffing availability and abrupt changes in the weather can each have drastic effects on snow removal efforts. These issues must be dealt with on an individual basis during each storm. These various factors are considered when establishing procedures for snow and ice removal and when evaluating their effectiveness in minimizing a storm's impact on the community. Snow and ice removal efforts are conducted with input from Police and Fire, but with a major emphasis on motorist safety, cost effectiveness, environmental benefits and operational logistics. In order to make the Town of Mooresville's Snow and Ice Control Plan effective requires the cooperation of many people including Public Works, emergency responders, and most importantly, the citizens of Mooresville.

PURPOSE

The primary purpose of the Snow and Ice Control Plan is to organize snow and ice removal efforts so that safe travel routes are available during snowstorms. The plan has been developed to facilitate this objective as it relates to street maintenance activities during adverse weather conditions. The procedures presented in this plan serve to outline the manner in which the Public Works Department directs Town crews and contractors in solving the problem of snow and ice control during ordinary and emergency situations. In addition, the Snow and Ice Control Plan provides the general public and Town officials with an insight into the complexity of snow and ice control operations and summarizes policies and procedures to be followed by Town personnel. The plan addresses five areas of concern:

1. Service Objectives
2. Level of Service
3. Operational Procedures
4. Special Requests
5. Economic and Environmental Considerations

Snow and ice control is a matter that is taken very seriously. It is an area that involves safety, liability, economic, environmental, and energy conservation issues. The Snow and Ice Control Plan recognize the unacceptability of snow clogged, ice covered, unsafe and impassable roadways. Finally, snow and ice control is addressed as an uncertain activity. Snowfall rate, temperature, wind velocity, storm duration and many other issues affect response.

SERVICE OBJECTIVES

To have all designated streets in the Snow Removal Plan plowed and sanded within 24 hours after a storm.

1. To reduce the cost of snow removal through the acquisition and utilization of efficient equipment and methods thereby minimizing the cost of hiring contractors.
2. To divide the Town into areas where one truck equipped with a plow and sander can effectively provide snow removal service in each area.
3. For major storms, to divide and efficiently utilize operating personnel to ensure effective snow removal.
4. To sufficiently train adequate numbers of personnel to operate all available snow removal equipment.

LEVEL OF SERVICE

The range of service possibilities vary from a “curb to curb bare asphalt” of snow and ice on every street, alley, sidewalk and pedestrian crosswalk in the Town to a policy of “do nothing”. The first extreme is not within the realm of practicality and the second is unacceptable to the residents of Mooresville. A snow and ice control program includes varying levels of service for Town streets, depending on a variety of factors such as traffic volumes, emergency access, public safety, and available equipment. A list of Town owned and operated equipment is provided on page 11.

The primary objective of the Public Works Department is to provide for the safe and orderly movement of vehicular traffic throughout the Town during all weather conditions including severe winter storms. Although the Public Works Department strives to keep all lanes of traffic moving, during extreme weather conditions travel may be limited to one lane of vehicular traffic in each direction.

Sidewalks and driveways are also concerns and are addressed as follows:

- Public Works will clear sidewalks abutting Town owned properties.
- Residents are responsible for clearing driveways and sidewalks. Please make an effort to put shoveled snow onsite in your yard and not back in the street where it can block catch basins. If your property sidewalk is adjacent to an arterial, it is recommended that you wait until the plows have cleared that roadway.

PRIORITIES

The Town of Mooresville receives an annual average snowfall of 25.9 inches. This plan recognizes that it is not possible to remove all of the snow simultaneously from all of the streets. Factors effecting snow and ice control operations include snowfall rate and accumulation, moisture content, temperature, time of day, night or week, wind velocity, and the duration of the storm. Priorities must be established so that major arterials and other collector streets are cleared first in order that vehicular traffic may continue to move safely and efficiently on the Town’s street network. This plan establishes and defines the following priorities.

Priority One: Major Collectors and Arterials

Priority One routes are given priority designation as they provide a network system for emergency services operations, interconnect high volume streets and serve as the major street network within the City.

HIGH PRIORITY STREETS

Indiana Street

Main Street

Bridge Street

Carlise Street

St. Clair Street

Indianapolis Road

Samuel Moore Parkway

Washington Street

Harrison Street

South Street

Priority Two: Selected Collector Streets

Priority Two include other collector streets necessary to provide access to major arterials. These routes also include routes to schools, medical facilities, major employment centers and those streets requiring special attention such as steep hills or curves.

Priority Three: Residential/Other

Priority Three includes most residential streets and alleys and others not mentioned above. Normally these streets will be cleared by the Town of Mooresville staff as resources permits. After operations on priorities one and two have been accomplished, special requests will be responded to once the need is verified by The Public Works Department. The response will depend on resource availability (manpower, equipment, etc.) and backlog of the requests.

Non Priority: Private Streets

Private streets are not the responsibility of the Town of Mooresville.

OPERATIONAL PROCEDURES

The Street Maintenance Division Supervisor will respond to advance notice of an approaching storm by taking the following steps:

1. Ordering plows and/or sanders to be installed on Town trucks;
2. Closely monitoring weather developments;
3. Alerting Town crews that may be called back to work at any time, due to possible weather conditions.

When snowfall or freezing rain is possible, the Street Maintenance Division Supervisor will direct crews to begin operations when, in the supervisor's opinion, one or more of the following conditions exist:

Condition 1.

Icing of streets is occurring or likely to occur, creating a hazard to vehicular traffic.

Procedure: Slick or icy spots will be sanded to reduce the hazard or danger to vehicular traffic. Particular attention will be given to areas near stop signs, traffic signals, hills, rail road crossings, and school crossing zones, especially those on or adjacent to streets on the priority one routes.

Salt will be applied depending on weather conditions. Sand is applied on an as needed basis.

Condition 2.

Snowfall accumulation which exceeds two (2) inches on priority one routes is imminent or occurring.

Procedure: When snow depth exceeds two inches, snow removal crews will commence plowing on priority one routes. The goal is to keep these streets open to travel so that emergency services can reach all parts of the Town with minimum delay. Once these streets have been cleared of snow, operations will begin on priority two routes. Snow will be plowed to the curb line on priority one and two routes.

Condition 3.

Snowfall has accumulated on non-priority streets in amounts sufficient to halt or block traffic. This typically means an accumulation exceeding two (2) inches on the streets.

Procedure: Plowing of residential streets will be from curb to curb. Plowing of residential streets will be done by The Town of Mooresville staff as resources allow. Plowing of residential streets may begin when accumulations have reached two (2)

inches. Special considerations will be given to areas at where steep conditions exist to allow for safe travel of emergency vehicles.

The plowing will normally be done by pushing the snow toward the side of the street. Where it is practical care will be exercised to minimize the blocking of driveways and burying of sidewalks. **However, Public Works recognizes that blocking driveways and burying sidewalks is at most times unavoidable. The burden is then with the property owner or occupant to clear them.**

The above described procedures do not result in a “Bare Pavement Policy.” Unlike plowing by County or State Highway crews, snow plowing in an urbanized area is performed at very low speed and requires considerably more time to accomplish than in non-urban areas.

De-Icing Procedures

The Town of Mooresville will use industry standard product to aid in the traction on street surfaces. De-icers can be applied before a storm to prevent the street surface from freezing. During a storm event Anti icer can be used to accelerate the melting of ice and snow.

SPECIAL REQUESTS

Citizens who have questions or requests about snow and ice control or unsafe winter driving conditions should contact the Public Works Department, 317-831-9547. Calls received by the Street Maintenance Division or Public Works Department Office during or after a winter storm will be logged in order to provide a record of the call.

If an emergency situation occurs, call 911. Equipment will be diverted for emergencies **ONLY WHEN REQUESTED BY AN EMERGENCY SERVICE AGENCY OR THE TOWN OF MOORESVILLE POLICE OR FIRE DEPT.** City Police and Fire Crews have constant communications with our staff during storm conditions. It is a crime to make a false emergency request.

PERSONNEL RESPONSIBILITY

Operators:

The snowplow operators are the key to the success of the Snow Removal Program.

These operators are responsible for:

- Working together as a team to ensure efficient service is provided
- Providing a timely, effective service for their designated routes
- Maintaining vehicles, plows and sanders in safe working order
- Properly documenting snow removal activities
- Serving as goodwill ambassadors for the Town.
- All operators will follow DOT standards when operating CDL equipment.
- Follow all DMV regulation (hours of operating)

Supervisors:

Crew supervisors are responsible for:

- Maintaining a positive work environment to enhance the teamwork concept
- Coordination of service to ensure timely, effective coverage
- Coordinating vehicle, plow and sander maintenance and repair to ensure safe operations and adequate coverage
- Maintaining supply inventories to ensure adequate levels
- Timely, courteous response to service complaints, requests and inquiries
- Providing training opportunities for snowplow operators

Management:

Management is responsible for:

- Providing adequate resources to ensure timely, effective service
- Creating a positive work environment, thereby making the teamwork concept possible
- Creating training and feedback avenues for supervisors and operators Utilizing various forums to create and maintain public awareness and support for snow removal activities

IMPORTANT PROCEDURES

- Plowing is scheduled to begin with an accumulation of approximately 2 or more inches of snow.
- Limited sanding is done during a snowfall because falling snow covers the sand and it is scraped away on subsequent plowing passes, requiring additional sanding.
- Subdivision roads may not be plowed if parked vehicles or other obstructions interfere with the safe and continuous operation of snow removal equipment. Equipment will return to plow after parked vehicles or obstructions are removed.
- Operators will return to widen roads as conditions warrant. During a major storm, cleanup operations may be on-going for three to four days after the storm.
- Mailboxes installed along roadways are at the risk of the owner. Mailboxes damaged from lack of owner maintenance, snow load from plowing, or vandalism are not the responsibility of the Town. Postal regulations require residents to clear snow in front of mailboxes to allow mail delivery.
- During winter, the freeze/thaw effects on pavement can rapidly form potholes. Crews will be dispatched as quickly as possible to repair potholes. Temporary materials must be used during winter and may not endure.
- Any steep streets may be subject to public closure. These streets will be evaluated and re-opened when the operation of equipment is no longer unsafe or a danger to the public.
- The Town will work closely, within our resources, with our local emergency services ensuring that response to these locations will not be affected.

HOW CAN YOU HELP

- Be patient, be assured that during a snowstorm every reasonable effort will be made to keep roadways open. During a major snowstorm, all our operators and snow removal equipment will be on the road.
- Do not attempt to stop a snowplow or obstruct its path. Plows must maintain speed for maximum efficiency.
- When approaching snow removal equipment from the rear, travel a minimum of 200 feet behind allowing for sanding and abrupt movements. **DO NOT** Pass unless absolutely necessary.
- Use extreme caution when passing snow removal equipment, before you pass please honk your horn and/or flash your headlights to alert the operator you intend to pass. Do not pass until the operator signals you to do so.

- Do not park along snow routes. In residential areas, leave room for plows to get through safely-if possible, park off the street.
- Do not put garbage or recycling containers in the street.

WINTER DRIVING TIPS

- Do not drive unless you must.
- If you must drive, exercise extreme caution. Driving on snow-packed and icy roads requires your full attention and demands your best driving skills.
- Have adequate snow tires or chains in or on your vehicle.
- Remember to brake slowly and leave adequate room between your vehicle and the vehicle ahead of you.
- Be patient, drive at reduced speeds.
- Allow sufficient travel time to reach your destination. "Please" Drive defensively, and remember please BE courteous.

SNOW REMOVAL EQUIPMENT

All winter operations equipment has pre-winter inspection through Fleet Division and HTE, on an annual basis. Flow rates will be calibrated at the same time.

Snow and Ice Control Equipment

- 4 Heavy Plow Trucks
- 3 Standard Plow Trucks
- 1 Loader
- 1 Backhoe
- 1 Bobcat
- Other Miscellaneous Equipment