Roscommon County Road Commission

Scott Eckstorm, Commissioner
James Porath, Commissioner
Justin Wykoff, Commissioner
Clint Stauffer, Commissioner
Brian Vaughn, Commissioner

820 E. West Branch Road
Prudenville, MI 48651

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NOTICE TO BIDDERS

The Roscommon County Road Commission will receive sealed bids until 2:00 p.m. on March 26, 2026. Bids will be opened for tabulation and review immediately thereafter. The bid will be awarded at the Roscommon County Road Commission's regularly scheduled board meeting on March 26, 2026 beginning at 7:00 p.m. Our office is located at 820 E. West Branch Road, Prudenville, MI 48651.

2026 Chip Seal & Fog Seal

Specifications may be obtained by contacting the Roscommon County Road Commission at the above address, on our website, www.roscommoncrc.com or by calling (989)-366-0333 ext. 1007 or emailing DahlstromB@roscommoncrc.com.

Submit bids in sealed envelope that is clearly marked with the words **"2026 Chip Seal & Fog Seal"**. The Roscommon County Road Commission reserves the right to reject any or all bids, to waive irregularities in any bid, to waive details in the specifications, and to accept the bid deemed to be in the best interest of Roscommon County. Quantities may include work on MDOT Trunklines.

The Roscommon County Road Commission has adopted a "Local Contractors Preference Policy". Please go to Adopted Policies, at www.roscommoncrc.com for details and application forms.

ROSCOMMON COUNTY BOARD
OF ROAD COMMISSIONERS

Jim Porath, Chair
Brian Vaughn, Vice Chair
Justin Wykoff, Member
Clint Stauffer, Member
Scott Eckstorm, Member

Bid Requirements

The Roscommon County Road Commission (RCRC) will receive sealed bids until 2:00 p.m. on March 26, 2026. Bids will be opened for tabulation and review immediately thereafter. The bid will be awarded at the Roscommon County Road Commission's regularly scheduled board meeting on March 26, 2026 beginning at 7:00 p.m. Our office is located at 820 E. West Branch Road, Prudenville, MI 48651.

2026 Chip Seal & Fog Seal

The contractor will be responsible for all materials, equipment and labor necessary for the surface preparation and application for Chip Seal and Fog Seal. The contractor must meet the requirements of the Michigan Department of Transportation 2020 Standard Specifications for Construction, RCRC Special Provision for Seal, Single Chip and MDOT Special Provision for Fog Seal.

Start Date: May 18, 2026 (or as approved by the Roscommon County Road Commission)

Completion Date: August 27, 2026 (or as approved by the Roscommon County Road Commission)

Contractor will provide flag control, temporary prismatic signs, minor traffic devices, and temporary raised pavement markers and is considered incidental to the unit prices submitted and must conform to the current MMUTCD manual.

Contractor is required to have a Preconstruction Meeting with Roscommon County Road Commission before any work begins.

Contractor must contact RCRC within 72 hours in advance of a start date and provide a progress schedule for the work. No work shall be done Friday, Saturday or Sunday without prior approval from the Roscommon County Road Commission.

The Roscommon County Road Commission reserves the right to add or delete quantities and projects to the bid list at the unit prices quoted.

The Roscommon County Road Commission reserves the right to perform acceptance testing on any materials being incorporated into the work for quality assurance purposes and reserves the right to reject any material found to be non-conforming.

Contractor will provide Certificate of Insurance prior to commencing production.
Certificate shall include:

- Board of County Road Commissioners and Roscommon County Road Commission and all employees named as additionally insured on all coverage.
- General Liability = (or greater than) $1,000,000 each occurrence.
- Automotive Liability = (or greater than) $1,000,000 each occurrence.
- Workers Compensation = statutory limits.

All incidental spills of hazardous materials shall be the Contractor's responsibility. Notification to the proper authorities and clean up shall conform to the Michigan Department of Environmental Control Response Act "Polluter's Pay Act" as amended. Any costs incurred through such notice, litigation, etc., shall be the responsibility of the Contractor.

Submit bids in an envelope that is clearly marked "2026 Chip Seal & Fog Seal". The RCRC reserves the right to reject any and all bids, to waive irregularities in the bids, to waive details in the specifications and to accept the bid deemed to be in the best interest of the Roscommon County Road Commission.

2026 Chip Seal & Fog Seal Bids
Roscommon County Road Commission

Road Name/ Township	Limits/Location	Length	Road Width	Item #1 34CS or 29A Chip Seal	Item # 2 Top CS-T Chip Seal	Item # 3 Fog Seal
		(Feet)	(Feet)	Syd	Syd	Syd
DENTON TOWNSHIP						
Dogwood Dr and Thirteenth St	CR 401 (Iroquois Ave) to M-55	1,627	20		3,879	3,879
Fifteenth St	Start of HMA to Dogwood Dr	738	18		1,498	1,498
Forest Park Ct	M-55 to End of Cul-de-sac	1,258	21		3,332	3,332
Fourteenth St	Start of HMA to Dogwood Dr	642	18		1,316	1,316
Park St	M-55 to End of HMA	404	24		999	999
Sixteenth St	M-55 to Dogwood Dr	1,025	20.5		2,463	2,463
PRIMARY PROJECTS						
CR 102 (Doyle Trl)	CR 100 (E Houghton Lake Dr) to M-18 (Roscommon Rd)	14,974	24	41,323		41,323
CR 300 (Muskegon Rd, Aqua Rd, Yeager Rd)	M-55 (W Lake City Rd) to Old US-27 (N Harrrison Rd)	25,347	23.5	66,152		66,152
TOTAL QTY				**107,475**	**13,487**	**120,962**

UPDATED- 2/2/2026

ROSCOMMON COUNTY ROAD COMMISSION
2026 CHIP & FOG SEAL

Item #1 34CS or 29A Chip Seal (Approx. 107,475 Syd.)

Seal, Single Chip with CM-90 and 34CS Natural Aggregate $_____per Syd.

Seal, Single Chip with CM-90 and 34CS Blast Furnace Slag $_____per Syd.

Seal, Single Chip with CM-90 and 29A Natural Aggregate $_____per Syd.

Seal, Single Chip with CM-90 and 29A Blast Furnace Slag $_____per Syd.

Seal, Single Chip (Alternate)_____ $_____per Syd.

Seal, Single Chip (Alternate)_____ $_____per Syd.

Item #2 Top CS-T Chip Seal Application (Approx. 13,487 Syd)

Seal, Single Chip with CM-90 and CS-T Natural Aggregate $_____per Syd.

Seal, Single Chip with CM-90 and CS-T Blast Furnace Slag $_____per Syd.

Seal, Single Chip (Alternate)_____ $_____per Syd.

Item #3 Fog Seal (Approx. 120,962 Syd)

Fog Seal (CQSEA)_____ $_____per Syd.

Fog Seal (Alternate)_____ $_____per Syd.

Fog Seal (Alternate)_____ $_____per Syd.

Item #4 Pick-up Sweeping (As-Needed Syd)

Pick-up Sweeping_____ $_____per Syd.

_____ _____
Company Name Telephone Number

_____ _____
Mailing Address Fax Number

_____ _____
City, State, Zip Email Address

_____ _____
Company Contact Person Date

_____
Authorized Company Representative's Signature

ROSCOMMON COUNTY ROAD COMMISSION

SPECIAL PROVISION
FOR
SEAL, SINGLE CHIP, MODIFIED

a. Description. The work consists of surface preparation and application of a single course chip seal. This work shall conform to the requirements of sections 505, 902 and 904 of the Standard Specifications for Construction and this special provision.

b. Equipment. All equipment must meet the requirements under section 505 of the Standard Specifications for Construction, except as modified herein:

1. Pressure Distibutor:
The pressure distributor shall have a computerized application rate and speed control device interconnected with the liquid asphalt pump such that the specified application rate will be supplied at any speed. This control shall have a radar ground sensing device that controls the application rate regardless of ground speed or spray bar width. The pressure distributor shall be capable of maintaining the asphalt at the specified temperature. The spray bar nozzles shall produce a uniform fan spray, and the shutoff shall be instantaneous with no dripping. Each pressure distributor shall be capable of maintaining the specified rate of application within +/- 0.015 gallons per square yard for each load.

2. Broom/Sweeper:
The use of a rotary-powered broom is required to remove the loose material from the surface to be treated and for removing loose aggregate after the work has been completed.

3. Pilot Car:
The pilot car will be omitted from this project.

c. General Placement Operations.

1. The Contractor shall establish 1,000-foot intervals along the entire length of the project, prior to placing materials. The stations shall be clearly identified and maintained until project completion.

2. Keep all vehicles and equipment involved in the chip sealing operation as close to each other as practical. Keep the asphalt emulsion distributor within 100 feet of the chip spreader. Do not place cover aggregate on asphalt after it has cured.

3. Perform rolling within five minutes of placing the aggregate and before the asphalt has begun to cure. Make a minimum of two complete passes over the aggregate. A complete pass is one trip, forward and backward, over the same path.

4. Overlap each pass by one-half the width of the roller. Use a minimum of two rollers and proceed in a longitudinal direction at a speed not greater than 5 mph.

d. Quality Control. The following measures shall be taken by the Contractor to maintain quality control and uniformity. If a condition is identified that causes an unsatisfactory chip seal, all production work shall stop, and corrective action must immediately be taken. The Contractor shall perform the correction action at no additional cost to the contract.

1. **Liquid Asphalt**. The contractor shall apply the liquid at a temperature between 260°F and 300°F.

2. **Visible Dust**. During normal traffic operations any dust that is a nuisance or slightly impairs visibility is unsatisfactory. The roadway must be wet broomed until the condition is eliminated.

3. **Loose Stone**. During normal operations any stone picked off the surface by vehicles is unsatisfactory. The roadway must be wet broomed until the condition is eliminated.

4. **Bleeding or Tracking**. During normal operations any bleeding or tracking is unsatisfactory. The roadway must be sanded and swept clean. If the surface conditions call for further action, apply, roll, and broom a heated aggregate with the physical properties specified in Table 902-8 of the standard specifications.

5. **Rough Joints.** Transverse and longitudinal construction joints formed in a chip seal application that creates a bump or poor riding joint is unsatisfactory. The bump shall be removed by grinding the surface and lightly applying a fog seal over the ground area.

6. **Surface Patterns.** Any asymmetric appearance seen in the chip seal surface characterized by longitudinal grooves or ridges in the surface is unsatisfactory. The spray bar and nozzles must be readjusted to eliminate the surface pattern problem.

e. Liquid Asphalt. The liquid asphalt to be used shall be CM-90 or approved equal. The asphalt must meet the requirements specified in Table 1. The Contractor shall apply the liquid asphalt at a temperature between 260°F and 300°F, followed by a uniform application of coarse aggregate. The CM-90 or approved equal placement rate shall be within a residual target range of 0.27 to 0.29 gallons per square yard for the 34CS (after correction for temperature expansion and distillate loss). Construct a 100-foot test strip at the residual target rate of 0.28 gallons per square yard followed by a uniform application of coarse aggregate and review the application. If this target rate is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface condition of the pavement, the Contractor shall notify the Engineer immediately and prior to any further application.

Upon approval of the adjustments to the application rate by the Engineer, the Contractor shall then document the new JMF rate(s) by stationing and resume the application at the new rate. The Contractor shall continue to monitor the new application rate and report any noticeable changes to the Engineer. All truck demurrages will be the responsibility of the Contractor.

Table 1 – Chip Seal Matrix Modified Asphalt (CSMMA) – CM 90 or Approved Equal

Tests	Requirements CM-90 or Approved Equal
Modified Koppers Vacuum Viscosity, 25°C, P, ASTM D 4957	2,000 to 20,000
Flash Point, °C	
Tag Flash Point, °C, min, ASTM D 3143-98	65.5
Water in Petroleum, ASTM D 95-05, %, max	1.0
Cut-back Distillation, ASTM D 402-02	
Distillate, % by Vol of Total Distillate to 360°C	
To 225°C	0-2
To 260°C	0-5
To 315.5°C	10-65
Residue from Distillation to 360°C, min	90
Test on Residue from Distillation, ASTM D 402	
Penetration, 25°C, 100 r, 5 sec, ASTM D5 113	90-150
Ductility at 25°C, cm, min, ASTM D5 113	Report
Solubility in Trichloroethylene, %, min, ASTM D 2042-01	99.0
Softening Point, °C, min, ASTM D 36-95	60
Float Test, 60°C, sec, min, ASTM D 139-95	1200

f. Coarse Aggregate. Cover material to be used shall be approved 34CS per section 902 of the Standard Specifications for Construction. The 34CS placement rate shall be within the range of 17 to 20 pounds per square yard with a target rate of 19 pounds per square yard. If the target rate is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the Contractor shall notify the Engineer immediately and prior to any further application.

Upon approval of changes by the Engineer, the Contractor shall then document the new JMF rate(s) by stationing and resume the application at the new rate. The Contractor shall continue to monitor the new application rate and report any noticeable changes to the Engineer.

g. Delayed Acceptance. The delayed acceptance will not occur until after 30 days from the time of placement of the fog seal.

h. Measurement and Payment. Completed work, as measured, will be paid for at the contract unit price for the following contract items:

Pay Item **Pay Unit**

Seal, Single Chip, Modified ..... Square Yard

Payment for the **Seal, Single Chip, Modified** includes all equipment, labor and materials for placement of a single application of liquid asphalt and aggregate, brooming, establishment of yield intervals, documentation and delayed acceptance inspection.

No adjustments in the unit price will be made for approved rate of liquid asphalt and/or aggregate that are within the ranges specified.

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
FOG SEAL

CFS:TGH 1 of 4 APPR:KPK:NDM:08-30-24

a. Description. This work consists of an application of a fog seal. A fog seal is a light application of a quick-setting emulsified asphalt diluted with water. Ensure all work and materials are in accordance with the standard specifications, except as modified herein.

b. Materials. Furnish materials in accordance with subsection 904.03 of the Standard Specifications for Construction with the following alternative:

1. Asphalt Emulsion. Furnish Cationic Quick Setting Emulsified Asphalt (CQSEA) meeting the requirements of Table 1.

Dilute asphalt emulsion, at a maximum of one part asphalt emulsion to one part water, at the emulsion plant.

c. Equipment. Use equipment that is safe, environmentally acceptable, and capable of producing a quality product.

1. Pressure Distributor. Ensure the pressure distributor has the following characteristics:

A. Has a ground speed computer-controlled device interconnected with the asphalt emulsion pump such that the specified application rate is supplied at any speed.

B. Can maintain the asphalt emulsion at the specified temperature.

C. Has spray bar nozzles capable of producing a uniform fan spray and with shutoff control that is instantaneous, with no dripping.

D. Can maintain the specified application rate within ±0.015 gallons per square yard (gal/syd) for each load.

2. Miscellaneous. Furnish a power broom and all necessary hand tools, thermometers, etc. Ensure distributors and power brooms are equipped with at least one visible approved flashing, rotating, or oscillating amber light.

d. Pre-Paving On-Site Meeting. A pre-paving meeting between the Engineer and Contractor will be held prior to beginning work. The agenda for this meeting will include a review of the following:

1. Work schedule,

2. Traffic control plan,

3. Equipment calibration and adjustments,

4. Condition of materials and equipment, and

5. Quality control plan (JMF, Yield Check Methods, etc.).

e. Construction. Place the longitudinal construction joint at the edge of metal of the driving lane; at a location requiring a minimal overlap onto the driving lane; or at a location requiring a minimal overlap of the new longitudinal joint resulting from milling and resurfacing.

Where corrugations are present longitudinal joints are to be constructed at the outside edge of the far side of the corrugation on the first pass. Place the longitudinal joint at the outside edge of the opposite side of the corrugation for the second application.

If applying fog seal to a chip seal, begin the application of the fog seal within 48 hours of the completion of the chip seal work on the project, but not on the same day as the application of chip seal. Once the fog seal application has begun, work must continue to completion except for; work restrictions outlined in the contract, state holidays, weekends, or inclement weather as defined in the following paragraph.

Apply the fog seal only when the pavement and air temperature is 55 °F or above. Do not apply the fog seal if there is forecast of greater than 50 percent chance of rain within 2 hours of application. Do not apply the fog seal if temperatures are forecast to be below 32 °F within 24 hours from the time of application.

Use pressure sufficient to apply emulsion at a uniform rate, but without splattering or drilling from the spray bar. Adjust nozzle angle and spray bar height to ensure correct spray pattern.

Apply fog seal at a rate of 0.07 to 0.15 gallons of diluted material per square yard of pavement treated. Ensure the fog seal application results in a uniform coverage of emulsion just sufficient to flow into and seal the pavement pores, small cracks, and voids. The asphalt emulsion application rate, as determined by a yield check, must not exceed a tolerance of ±0.015 gal/syd from the established JMF application rate.

If a condition is identified that causes an unsatisfactory fog seal, stop all production work and perform corrective action immediately at no additional cost to the contract. If there are adverse environmental conditions, furnish the Engineer an action plan that clearly demonstrates how the fog seal operation will be adjusted for the actual environmental conditions.

Allow the Engineer access to all work in progress for the purpose of quality assurance review and testing.

f. Quality Control. Establish, maintain, and follow an effective QC system in accordance with current Department procedures. The QC system must detail plans, procedures, and organization necessary to furnish and apply a fog seal that complies with the contract. Follow the QC system until work is accepted.

Establish, maintain, and follow a Contractor Quality Control (CQC) plan sufficient to ensure that the warranty related treatment complies with the contract. The CQC plan must cover all fog seal operations. Submit a copy of the plan to the Engineer, at the preconstruction meeting, for approval. Follow the approved plan throughout the project.

Include the following information, at a minimum, in the CQC plan:

1. Materials to be used on the project.

2. Sampling and testing methods used to determine compliance with material specifications.

3. Equipment to be used on the project.

4. Calibration method used to determine compliance with the application rates.

5. Procedures for pavement preparation.

6. Controls implemented by the Contractor to ensure that the fog seal material is cured or set up satisfactorily before opening to traffic.

7. Procedures implemented by the Contractor for monitoring initial acceptance requirements.

g. Documentation. Furnish the Engineer a daily report including the following information:

1. Control section, project number, county, route, Engineer;

2. Date, air temperature, pavement temperature, humidity;

3. Asphalt emulsion temperature;

4. Beginning and ending stations;

5. JMF: application and dilution rates (asphalt emulsion);

6. Yield checks on asphalt emulsion (3 per day, minimum);

7. Length, width, total square yards; and

8. Contractor's signature.

Furnish asphalt emulsion documentation in accordance with current Department acceptance procedures.

h. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	**Pay Unit**
Seal, Fog	Square Yard

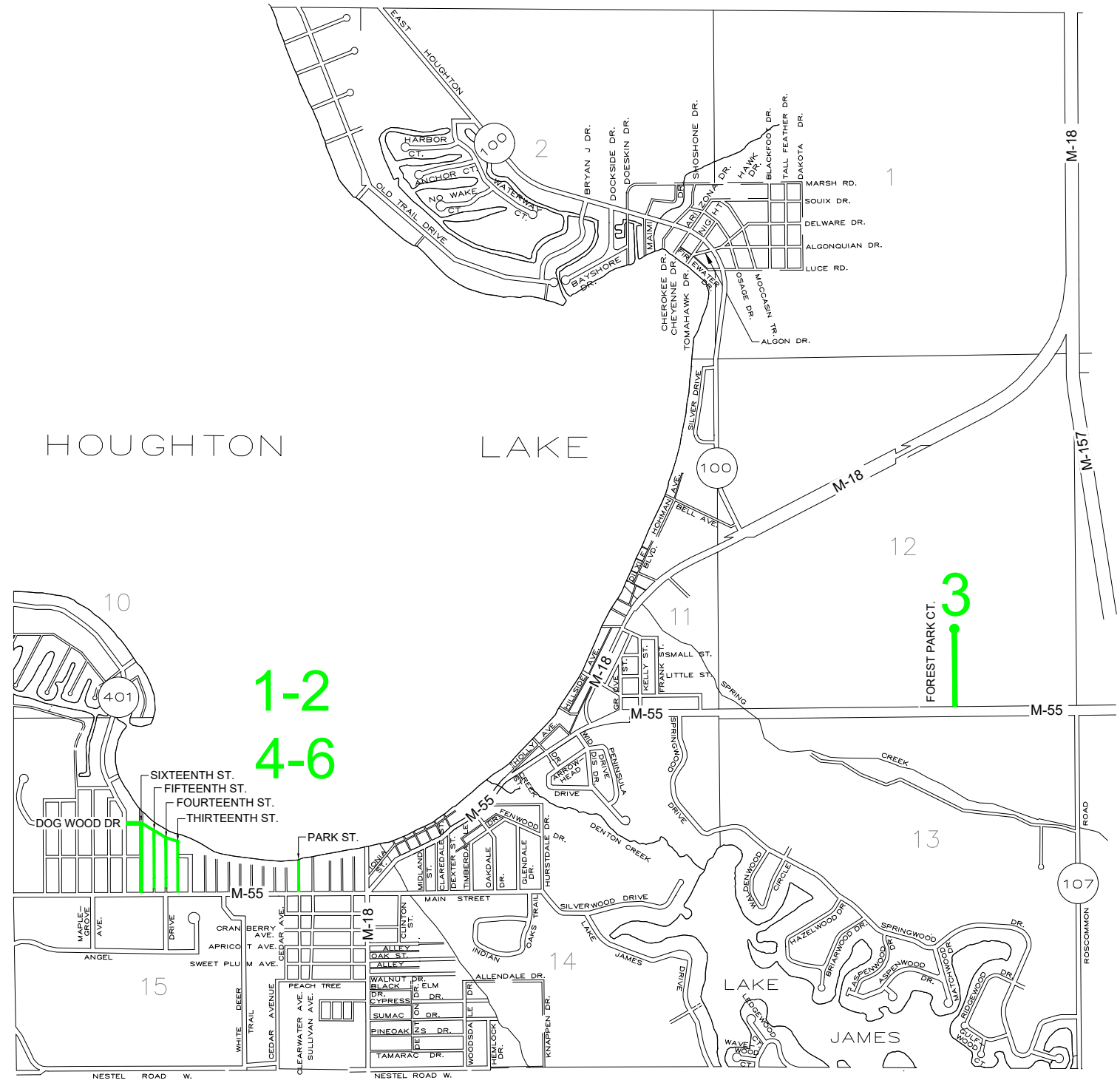
Seal, Fog includes placement of the asphalt emulsion including surface preparation, stationing, and documentation.

Table 1: Cationic Quick Setting Emulsified Asphalt (CQSEA)

	Requirements
	CQSEA
Viscosity, Saybolt Furol, *AASHTO T59/ASTM D7496*:	
At 25 °C, sec	20–100
Storage Stability Test, *AASHTO T59/ASTM D6930*, 24 hr, % Difference, max	1
Particle Charge Test, *AASHTO T59/ASTM D7402* (a)	Positive
Sieve Test, *AASHTO T59/ASTM D6933*, % max (Distilled Water)	0.10
Residue, min	60
Tests on Distillation Residue:	
Penetration, 25 °C, 100 g, 5 sec, dmm, *AASHTO T49/ASTM D5/D5M*	40–90
Ductility, 25 °C, 5 cm/min, cm, min, *AASHTO T51/ASTM D113/D113M*	40
Solubility in Trichloroethylene, % min, *AASHTO T44/ASTM D2042*	97.5
Ash Content, % max, *ASTM D128*	2
a. If Particle Charge Test is inconclusive, material having a maximum pH of 6.7 is acceptable.	

ROSCOMMON COUNTY ROAD COMMISSION

DENTON TWP 2026 LOCAL CHIP/FOG SEAL PROJECTS

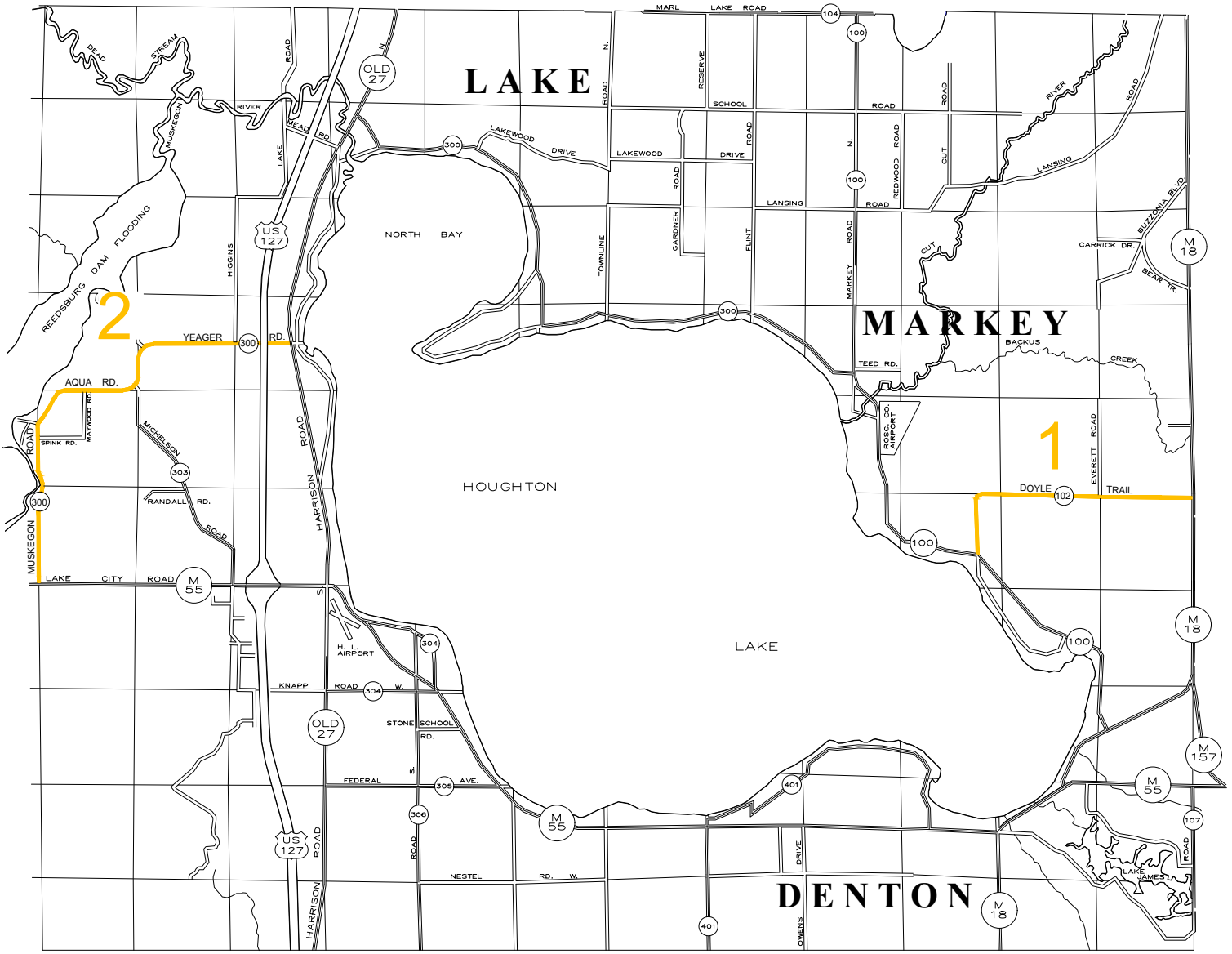


NORTH

DENTON				
2026 ROAD PLAN	**SEGMENT**	**MILEAGE**	**TREATMENT**	**KEY**
Dogwood Dr and Thirteenth St	CR 401 (Iroquois Ave) to M-55	0.31	Chip Seal and Fog Seal	1
Fifteenth St	Start of HMA to Dogwood Dr	0.14	Chip Seal and Fog Seal	2
Forest Park Ct	M-55 to End of Cul-de-sac	0.24	Chip Seal and Fog Seal	3
Fourteenth St	Start of HMA to Dogwood Dr	0.12	Chip Seal and Fog Seal	4
Park St	M-55 to End of HMA	0.08	Chip Seal and Fog Seal	5
Sixteenth St	M-55 to Dogwood Dr	0.19	Chip Seal and Fog Seal	6

ROSCOMMON COUNTY ROAD COMMISSION

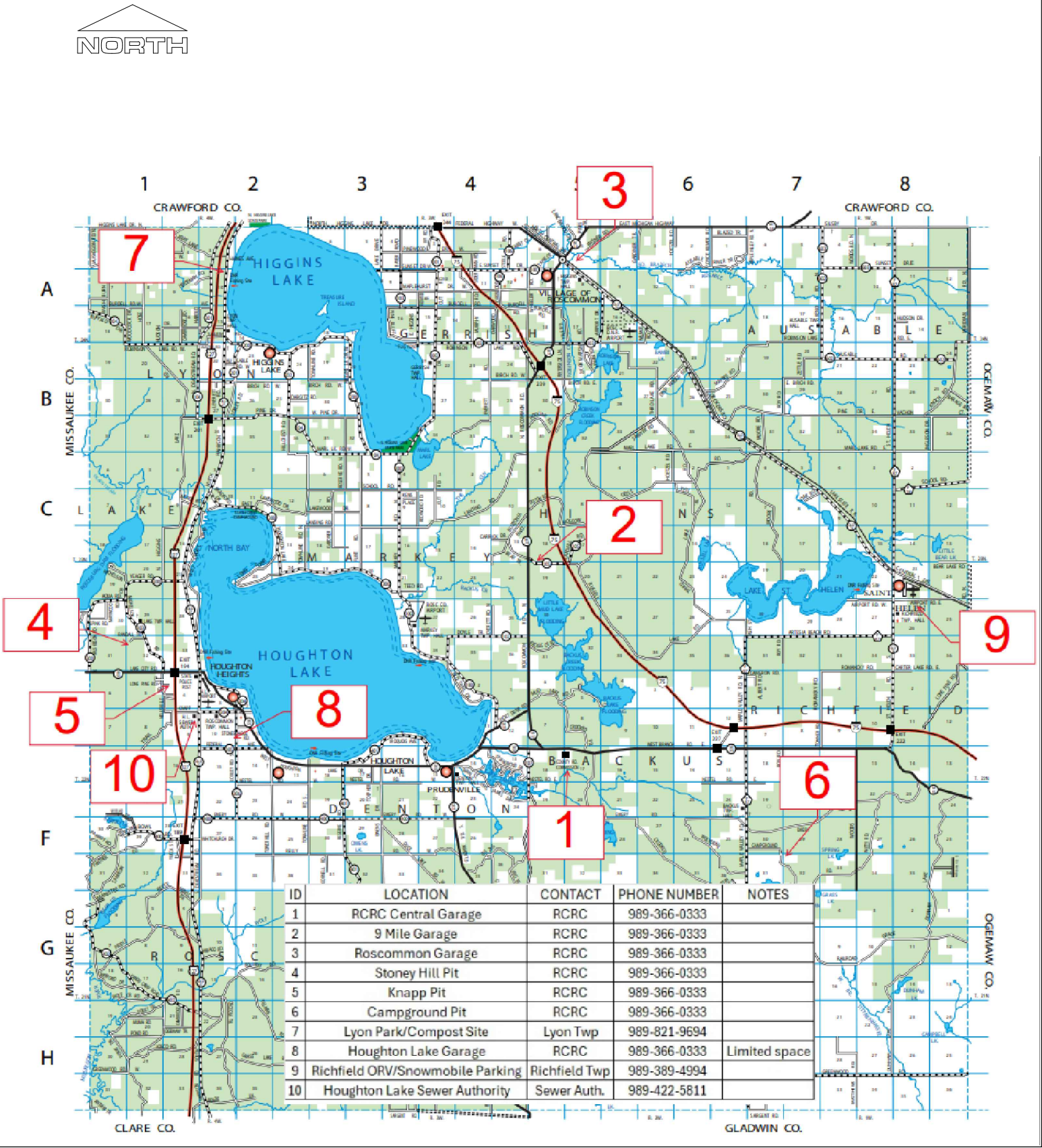
2026 PRIMARY CHIP/FOG SEAL PROJECTS



NORTH

RCRC Primary				
2026 ROAD PLAN	**SEGMENT**	**MILEAGE**	**TREATMENT**	**KEY**
CR 102 (Doyle Trl)	CR 100 (E Houghton Lake Dr) to M-18 (Roscommon Rd)	2.84	Chip Seal and Fog Seal	1
CR 300 (Muskegon Rd, Aqua Rd, Yeager Rd)	M-55 (W Lake City Rd) to Old US-27 (N Harrrison Rd)	4.8	Chip Seal and Fog Seal	2

ROSCOMMON COUNTY ROAD COMMISSION
POTENTIAL STOCKPILE LOCATIONS



ID	LOCATION	CONTACT	PHONE NUMBER	NOTES
1	RCRC Central Garage	RCRC	989-366-0333	
2	9 Mile Garage	RCRC	989-366-0333	
3	Roscommon Garage	RCRC	989-366-0333	
4	Stoney Hill Pit	RCRC	989-366-0333	
5	Knapp Pit	RCRC	989-366-0333	
6	Campground Pit	RCRC	989-366-0333	
7	Lyon Park/Compost Site	Lyon Twp	989-821-9694	
8	Houghton Lake Garage	RCRC	989-366-0333	Limited space
9	Richfield ORV/Snowmobile Parking	Richfield Twp	989-389-4994	
10	Houghton Lake Sewer Authority	Sewer Auth.	989-422-5811	