



Specifications for SWC #504 Winter Road Maintenance Service and Materials

A. Scope of Work

The purpose of this Invitation to Bid (“ITB”) is to provide Winter Road Maintenance Services and Materials to the State of Tennessee (“State”) Agencies. Other Governmental Bodies, members of the University of Tennessee or Tennessee board of regents systems, and the nonprofit entities identified in Tenn. Code Ann. § 33-2-1001 (“Authorized Users”) may utilize the awarded Contract. Contractor agrees to extend this Contract to Authorized Users.

B. Liquid Calcium Chloride

- a. All Liquid Calcium Chloride provided will be a 32 percent solution of calcium chloride and water at 77° F.
- b. Certification - Supplier shall furnish Tennessee Department of Transportation (TDOT) at the time of delivery with certification as the following:
 1. Weight of liquid calcium chloride and temperature at the time of weighing.
 2. The number of gallons loaded
- c. Delivery - Delivery will be made when requested by the district maintenance engineer (D.M.E) ordering material.

Deliveries shall be made Monday through Friday between the hours of 8:00 am and 4:00 pm, excluding holidays, unless authorized by the D.M.E.

Deliveries will be requested in tanker loads of approximately 4300 gallons. Tanker will not be required to make more than three (3) stops per delivery within any district.

- d. Weight verification - The vendor shall provide a means of accurately determining the specific gravity and temperature of the solution at the point of delivery.

TDOT reserves the right to have the tanker weighed loaded and weighed empty at the time of delivery and at the expense of the vendor.

TDOT shall have the right to reject any delivery should the vendor fail to meet requirements of the contract or if the material has crystalized.

- e. Basis of Payment - Calcium chloride solution shall be paid for at the contract unit price bid per gallon of 32% solution at 77° F.
- f. Acceptable Brands - Liquidow, Sicalco, or equal. Note: Equal brands will need to be approved by TDOT prior to award.

C. De-Icer

Composition:	Calcium magnesium acetate hydrated CMA 96% minimum Inert material 4% maximum	
Particle Size:	Sieve	% Passing
	4	90 min
	14	10 max
Particle Shape:	Hard, angular, symmetrical	
Specific Gravity:	Minimum 1.2	
Bulk Density:	40 lb/cubic foot (loose) 44 lb/cubic foot (packed)	
Product PH:	PH 8 to 10 in a 10% solution	
Product attributes:		
Performance:	Breaks & inhibits bonding between ice & road surface.	
High CMA Content:	High heat of solution, low water content & high capacity for waters of hydration.	
Low Corrosion:	Does not corrode Zinc, Aluminum, concrete or steel. Will not harm bridges, road structures, roads, or vehicles. Contains no chloride.	
Packaging:	Bag shall be a minimum of 1000 kg (one metric ton).	
Minimum order:	Agencies shall order in a minimum of 6 bags per shipment.	

- a. Can be applied with the same equipment used for road salt
- b. Acceptable Brands: Cryotech CMA, Melt Snow CMA, or equal. Note: Equal brands will need to be approved by TDOT prior to award.

D. Liquid calcium chloride, non-corrosive de-icer

- a. Certification - Supplier shall furnish TDOT at the time of delivery with certification as the following
Supplier shall furnish TDOT at the time of delivery with certification as the following:
 - 1. Weight of liquid calcium chloride and temperature at the time of weighing.
 - 2. The number of gallons loaded
- b. Delivery - Delivery will be made when requested by the district maintenance engineer (D.M.E) ordering material.

Deliveries shall be made Monday through Friday between the hours of 8:00 am and 4:00 pm, excluding holidays, unless authorized by the D.M.E.

Deliveries will be requested in tanker loads of approximately 4300 gallons. Tanker will not be required to make more than three (3) stops per delivery within any district.

- c. Weight verification - The vendor shall provide a means of accurately determining the specific gravity and temperature of the solution at the point of delivery.

TDOT reserves the right to have the tanker weighed loaded and weighed empty at the time of delivery and at the expense of the vendor.

TDOT shall have the right to reject any delivery should the vendor fail to meet requirements of the contract or if the material has crystallized.

- d. Basis of payment - Liquid de-icer solution shall be paid for at the contract unit price bid per gallon.

- e. Acceptable brands: Liquid Dow Armor, Sicalco Si-TN-03, or equal. Note: Equal brands will need to be approved by TDOT prior to award.

E. De-icer - Magnesium Chloride

- a. Aqueous solution containing carbohydrates, proteins and other organic moieties derived from fermentation and distillation processes of agricultural products combined with magnesium chloride and other inorganic chlorides.

Physical Properties: Density 1.27 to 1.29 grams per mil
Weight per gallon (us): 10.6 to 10.75 lbs.
Total solids (105° Celsius) 53 to 56%

Chloride Content: Magnesium Chloride 12.5 - 14.5%
Calcium Chloride 3.8 – 4.3%
Sodium Chloride 0.1 – 0.4%
Potassium Chloride 0.1 – 0.3%

- b. Delivery - Delivery will be made when requested by the district maintenance engineer (D.M.E) ordering material.

Deliveries shall be made Monday through Friday between the hours of 8:00 am and 4:00 pm, excluding holidays, unless authorized by the D.M.E.

Deliveries will be requested in tanker loads of approximately 4800 gallons.

- c. Weight verification - The vendor shall provide a means of accurately determining the specific gravity and temperature of the solution at the point of delivery.

TDOT reserves the right to have the tanker weighed loaded and weighed empty at the time of delivery and at the expense of the vendor.

TDOT shall have the right to reject any delivery should the vendor fail to meet requirements of the contract or if the material has crystallized.

- d. Basis of payment: Liquid de-icer solution shall be paid for at the contract unit price bid per gallon.
- e. Acceptable brands/models: Magic Minus Zero, Ice B'Gone, or equal. Note: Equal brands will need to be approved by TDOT prior to award.

F. High performance cold patch material for TDOT (Specification M-108.10)

- a. Description - This specification shall govern for an asphaltic concrete mixture for the repair and patching of small pavement areas in asphaltic concrete and Portland cement concrete in cool to cold weather applications. The patching material shall be listed on the department's qualified products list for, patching materials, high performance cold patch. Acceptance of the material will be by manufacturer's certification stating that the material furnished is identical to that which was originally approved and shown on the department's qualified products list.
- b. Mixture properties - The mixture shall be designed so that it will have good workability and can be placed at temperatures of 20 to 140 degrees Fahrenheit without the addition of heat. The mixture shall have good adhesion to wet surfaces and be resistant to damage by water, salt and de-icing products. It shall consist primarily of crushed stone, cutback asphalt and additives. The mixture must be uniform and not require any mixing prior to use. It shall be capable of being removed from the container without significant adherence to the container.

Application of the mix must be able to be accomplished by hand labor. Traffic must be able to travel over the mix with little to no compaction immediately after installation without pick-up of the mix by vehicle tires. The mixture shall cure and harden with continued vehicle use.

- c. Test procedures - A completed product evaluation form, msds sheets, if applicable, product data information and a sample of the product being tested must be submitted to the division of materials and tests.

Following receipt of the submitted information, the manufacturer shall be required to install his product(s) on both asphalt and concrete surfaces as directed by the division of materials and tests. The cold patch material shall be installed in either November or December and the evaluation will continue through the end of may of the following year. At the completion of the evaluation period, if the test patch areas in both the concrete and asphalt surfaces have remained intact and performed satisfactorily, the material will be added to the qualified products list.

Information regarding the QPL may be obtained from the TDOT's web site at <http://www.tn.gov/tdot/topic/tdot-materialstests-research-product-evaluation-qualified-products> or by contacting:

The Division of Materials and Tests
6601 Centennial Boulevard
Nashville, TN 37243-0360
615-350-4101

Contacts: Danny Lane or Joseph Kerstetter

- d. Each bidder shall submit with their bid, certification that the material they bid is of the same formulation as that furnished for approval to be placed on the qualified products list. Any change in formulation will require that a sample be submitted for re-evaluation.

Qualified Products List 13-A (13.001)
(Bulk)

<u>Manufacturer</u>	<u>Product</u>
Arrow Paving	Arrow Paving PM-22 (Cutback AC)
Cold Mix Manufacturing Corp	Greenpatch
Eubank Asphalt Paving	Big Red's Coldpatch (Cutback AC)
Hudson Materials Co	Enviropatch (Non-Cutback AC)
Logan County Asphalt Co	Proline Cold Patch (Cutback AC)
Lojac Enterprises	E-Z Street Asphalt (Cutback AC)
Marathon Petroleum Co LP	Performac HP-2 Bio (Cutback AC)
QPR (Quality Pavement Repair)	QPR (Cutback AC)
Seaboard Asphalt Products Co	Bond-X High Performance Cold Mix (Cutback AC)
Seaboard Asphalt Products Co	Bond-X Green High Performance Cold Mix (Non-Cutback AC)
Unique Paving Materials Corp	U.P.M. High Performance Cold Mix (Cutback AC)

Note: Brand/model bid must be on the QPL as of the bid opening date to qualify for award.

Qualified products list 13-A (13.001)
(Containerized)

<u>Manufacturer</u>	<u>Product</u>
Aqua Patch Road Materials	Aqua Patch
CeraTech Inc.	PM-22
Cold Mix Manufacturing Corp	Greenpatch
Hudson Materials Co	Enviropatch (Non-Cutback AC)
International Roadway Research	Instant Road Repair (Cutback AC)
Logan County Asphalt Co	Proline Cold Patch (Cutback AC)
Lojac Enterprises	E-Z Street Asphalt (Cutback AC)
Oldcastle	Sakrete US Cold Patch
QPR (Quality Pavement Repair)	QPR (Cutback AC)
Roadstone, LLC	Aquaphalt
Seaboard Asphalt Products Co	Bond-X High Performance Cold Mix (Cutback AC)
Seaboard Asphalt Products Co	Bond-X Green High Performance Cold Mix (Non-Cutback AC)
The Quikrete Companies	Quikrete Commercial Grade Permanent Blacktop Repair (Cutback AC)
Unique Paving Materials Corp	U.P.M. High Performance Cold Mix (Cutback AC)
Unique Paving Materials Corp	Rephalt (Non-Cutback AC)
Unique Paving Materials Corp	SPM-CB Spec (Cutback AC)

Note: Brand/model bid must be on the QPL as of the bid opening date to qualify for award.

G. High Performance “Year Around” Permanent Pavement Repair Material

- a. Description - This material shall be a plant or pug mill mixed, high performance pavement patching material capable of storage in an uncovered outdoor stockpile for a maximum of 12 months. It shall be composed of laboratory approved mineral aggregates and modified bituminous No VOC Liquid Blend capable of coating wet aggregates (up to 4% moisture) without stripping and have stripping resistance of retained coating of not less than 95%. The permanent asphalt repair shall be uniform, remain flexible and cohesive to -15°F and be capable of retaining adhesive qualities in wet applications. The patching materials shall be able to repair asphalt, concrete, surface treated roads and shall not require removal and replacement if ever the pavement is overlaid.
- b. Application Dates Required - Year around high performance pothole repair material
- c. Field Applications - Material must be usable workable from -15° F to 105° F. Must work in water filled holes
- d. Warranty - Must be guaranteed as permanent (until surrounding pavement area fails Pavement Repair material, when used according to directions, and applied to deteriorated concrete or bituminous pavement surfaces, is guaranteed to adhere permanently, to the repaired area or until the surrounding pavement area fails).

Vendor will replace actual volumes of material used, at no charge, if, for any reason, patch material should ever ravel, release, or otherwise fail in any properly repaired area.

- e. Environmental impact - The modified bituminous asphalt repair must have an independent test conducted by a certified laboratory as to toxicology results in a Static Acute Bio Assay Procedures for Hazardous Materials which determines effect of run-off into waterways, lakes, ponds, and ground water. Furthermore, results of analysis for the toxicity should indicate a 0% mortality rate of *Daphnia magna* at 100% effluent concentration. Further, the repair material must be classified as non-hazardous, and biologically non-toxic. No VOC Repair Material conforms to ASTM D402 requirements. Independent laboratory results are required prior to award.
- f. Materials -
 1. Aggregate - The aggregate shall consist of 100% crushed stone or a laboratory approved equivalent under ASTM C-136. All aggregate is to be from approved sources, and representative samples of both fine and coarse aggregate shall be from the plant site and laboratory tested. Sampling and testing methods shall be in accordance with accepted local practice.

Gradation analysis to comply with all local requirements. Recommended gradation analysis is as follows:

SCREEN SIZES PERCENTAGE PASSING

3/8” (9.5mm) 100
#4 (4.75mm) 20 - 85
#8 (2.36mm) 2 - 30
#16 (1.18mm) 0 - 10
#50 (0.75mm) 0 - 6

#200 0 - 2

All aggregate percentages are based on the total weight of aggregate.

ASTM C-88 Soundness Loss 12.0% Max.

ASTM C-131 Los Angeles Abrasion 40.0% Max.

ASTM C-117-200 -200 Sieve (by wash) 2.0% Max.

ASTM C-127, 127 Absorption 1.0 - 2.0% Max.

ASTM C-127, 128 Specific Gravity 2.55 - 2.75% Max

ASTM C-122 Soft Aggregates 3.0% Max.

2. Aggregate Acceptance - Aggregate compatibility approval must be obtained from the Quality Control Facility in Charleston, South Carolina prior to material mixing at any mixing plant.
3. Bituminous Material The modified bituminous liquid blend shall be No VOC Liquid which meets the following requirements:

ASTM D-1310 Flashpoint (TOC): 400°F (204°C) Min.

ASTM D-2170 Kinematic Viscosity at 140°F (60°C): 300-4000 ASTM D-95 Water 0.2% Max.

ASTM D-402 Distillate Test (volume of original sample):

To 437°F (225°C) 0%

To 500°F (260°C) 0%

To 600°F (315°C) 0%

Residue from distillate at 680°F (360°C) 0.62%

Residue Tests

ASTM D-2171 ABS. Viscosity at 140°F (60°C): 125-425 Poises

ASTM D-5 Penetration: 200 Min.

ASTM D-113 Ductility at 39°F (4°C) 0.4 in./Min: 100 Min.

ASTM D-2042 Solubility in Trichloroethylene: 99% Min.

4. No VOC Liquid Blend shall be shipped from authorized blending terminal locations. Liquid shall be completely blended at terminal under supervision of authorized Quality Control personnel. No additives, modifiers, or extra ingredients are to be introduced into the liquid blend at any time after shipment from terminal. A copy of bill of lading and material certification shall accompany every shipment. No VOC Liquid Blend shall be shipped in insulated tankers to maintain oil temperature during transportation.
- g. Plant Mix - The finished material shall consist of aggregates meeting material as specified in Section A) Aggregate, and the bituminous liquid blend meeting material specified in section B) No VOC Bituminous Material as indicated in the proposed job mix formula. No VOC Bituminous Material shall be accepted at the supplier's source and at the plant site on the basis of a supplier material certification.

The preferred mixing ratio shall be 4.0% to 6.0% liquid blend per finished metric ton (2,000 lbs.) of mixed material. Continuous on-site testing will determine exact final mixing ratio which will be identified in the final job mix formula. All aggregate percentages are based on the total weight of the aggregate. The No VOC Liquid Blend content is based on the total weight of the mix.

The job mix formula information shall provide:

1. Aggregate gradation band and aggregate type.
2. No VOC Liquid Blend - amount and type including any additives used.
3. Temperature ranges for material preparation.

h. Manufacturing Preparation & Operation

1. Asphalt Plant Production - The mixture is to be produced through a conventional hot asphalt plant only under the direct supervision of a qualified sales representative and finished product will not exceed 180°F (82°C). The No VOC Liquid Blend shall not be heated above 200°F. The final mixture must be tested in accordance with on-site quality control requirements.
 2. Pug Mill Production - The mixture can be produced through a cold manufacturing process (PUGMILL). The No VOC Liquid Blend shall be heated between 220°F (104°C) to 260°F (126°C). The No VOC Liquid Blend temperature is elevated to help with the adhesion process between the bituminous liquid and the aggregate. The finished mix will not exceed 180°F when produced through the pugmill. The final mixture must be tested in accordance with the on-site quality control requirements.
 3. Stockpile Inspection - Prior to production, the stockpile site is to be inspected for any contaminant such as dirt, sand or debris that may affect the quality of the No VOC Repair Material. The stockpile area should be a hard surface, preferably paved with concrete, or a bituminous surface. Six (6) month shelf life. No VOC Repair. Material may be stockpiled up to 6 months in an uncovered outdoor stockpile
 4. Specification Sampling - A one quart sample of the No VOC Liquid Blend will be retained at the asphalt depot prior to shipping. On delivery of the tank truck, an additional one-quart sample will be taken by the sales representative and is to be retained by the customer/producer for a period of one year, or until the stockpile is depleted
 5. Quality Control - On each load, a Quality Control Report will be prepared by the Quality Control Technician. All phases of production of the plant operation and the material testing on each 150 tons of production will be prepared and entered accordingly in each category. Site tests will be completed which include Spot Test, Strip Resistance, Coating Observation and Roll Test.
 6. Heating of Finished Product - No VOC Material should not be heated above 70°F (21°C) when utilizing a hot box.
 7. Training of Installation Crews - Will make available a complete training program for all road crews to ensure correct patching methods, along with updates on this subject.
- i. No VOC High Performance Pavement Repair, when applied according to our directions to deteriorated concrete or bituminous pavement surfaces, is guaranteed to adhere permanently to the repaired area for the life of the repair or until the surrounding pavement area fails. Will replace actual volumes of No VOC at no charge for any No VOC High Performance Pavement Repair that should ever ravel or release from a properly repaired area.

H. Special instructions

- a. Bulk high performance cold patch-delivered (QPL 13 A 13.001) - Each region may place one (1) order for a minimum of 250 tons per year for delivery to the regional location and the respective districts. There will be multiple delivery points in amounts as determined by the regional office. Deliveries shall be made within approximately 14 days of receipt of purchase order. The vendor may make multiple deliveries to complete orders, however, the order shall be completed within fourteen days after receiving order.

1. Example: 50 tons delivered to regional location and 40 tons delivered to the 5 district offices within the region.
 2. Each region estimates placing order in November or early December.
- b. Bulk high performance cold patch-delivered (QPL 13.A 13.001) - Each district will place orders with a 50-ton minimum on an as-needed basis. Delivery shall be made within approximately 14 days of receipt of purchase order.
 - c. Bulk high performance cold patch-picked up at vendor's plant (QPL 13.A 13.001) - Regions will place orders at least 24 hours prior to picking up at vendors plant location. The regions will request a minimum of 50 ton per purchase order on an as needed basis.
 - d. High performance cold patch, containerized-delivered (QPL 13.A 13.001) - Regions will place orders for 1 to 9 pallets on an as needed basis. Delivery shall be made within approximately 14 days of receipt of purchase order.
 - e. High performance cold patch, containerized-delivered (QPL 13.A 13.001) -Regions will place orders for a minimum of 10 pallets per purchase order and in increments of 10 pallets (i.e. 10, 20, 30, etc.) On an as needed basis. Delivery shall be made within approximately 14 days of receipt of purchase order.

Note: Cold patch containing cutback material will not be purchased or used from April 1 through October 31 as per TCA § 1200-03-18.32. All other cold patch material must be available year round.

- f. High Performance "Year Around" permanent pavement repair material and Bulk High Performance "Year Around" Permanent Pavement Repair Material -Each district will place orders with a 100-ton minimum on an as-needed basis. Delivery shall be made within approximately 14 days of receipt of purchase order.
- g. Containerized High Performance "Year Around" Permanent Pavement Repair Material - Regions will place orders at least 24 hours prior to picking up at vendor's plant location. The regions will request a minimum of 100 ton per purchase order on an as needed basis.
- h. Containerized High Performance "Year Around" Permanent Pavement Repair - Regions will place orders for 17 pallets on an as needed basis. Delivery shall be made within approximately 14 days of receipt of purchase order.

I. Preparation of invoices for payment

- a. Submit an original invoice and four copies or a certified copy and four copies. If a certified copy must be used instead of an original invoice the certified copy shall read, "This document is to be accepted as our original invoice," and approved with a proper signature of the firm.
- b. The invoice submitted to the department for payment shall be itemized Showing each delivery ticket number, date, and quantity and shall be accompanied by a copy of each delivery ticket. If the invoice form does not have sufficient space, a detailed listing itemizing the above information shall be attached and forwarded with the invoice and a copy of each delivery ticket. Invoices submitted in any form other than outlined above will not be considered for payment.
- c. When a certified test report is required by the specifications, a copy of the test report shall accompany the invoice submitted to the department of transportation for payment.

TDOT Regional Locations:

The following is a list of TDOT regional locations, district numbers and points of contact:

Dept of Transportation - Region I
Districts 17-19
7345 region lane
Knoxville, TN 37914
Attn: Ben Price, 865-594-2458

Dept of Transportation - Region III
Districts 37-39
6601 Centennial Blvd.
Nashville, TN 37243-0360
Attn: Shay Deason, 615-350-4342

Dept of Transportation - Region II
Districts 27-29
4005 Cromwell Road
Chattanooga, TN 37421
Attn: Gwen Whittaker, 423-510-1132

Dept of Transportation - Region IV
Districts 47-49
300 Benchmark Place
Jackson, TN 38302-0429
Attn: Ross Sherwood, 731-935-0191

The following are TDOT's district maintenance engineers - superintendents and counties

Region I

11. Johnson City District 17 North

Dexter Justis
865-594-2655
Box 3518 CRS
Johnson City, TN 37602-3518

Counties: Carter, Johnson, Sullivan,
Unicoi, Washington

12. Morristown District 17 South

Dexter Justis
865-594-2655
1825 State Street
Morristown, TN 37814

Counties: Grainger, Hamblen, Hancock,
Hawkins

13. Newport District 18 East

Kristin Qualls
865-594-2350
Box 28
Newport, TN 37822

Counties: Cocke, Greene, Jefferson

14. Lafollette District 19 North
Clint Bane

865-594-2408
2841 General Carl. W. Stiner Hwy.
Lafollette, TN 37766

Counties: Anderson, Campbell,
Claiborne, Scott, Union

15. Knoxville District 18 West

Kristin Qualls
865-594-2350
Box 58
Knoxville, TN 37901

Counties: Blount, Knox, Sevier

16. Harriman District 19 South

Clint Bane
865-594-2350
1951 South Roane
Harriman, TN 37748

Counties: Loudon, Monroe, Morgan,
Roane

Region II

21. Chattanooga District 29

Jeff Blevins
423-510-1218
P.O. Box 22368
Chattanooga, TN 37422-2368

Counties: Bradley, Hamilton, McMinn,
Meigs, Polk

22. Dunlap District 28 East

Jeremy Price
931-454-1920
P.O. Box 355
Dunlap, TN 37327

Counties: Bledsoe, Grundy, Marion,
Sequatchie, Ban Buren

23. Crossville District 27 East
Bo Hoskins
931-528-4311
P.O. Box 1069
Crossville, TN 38557

Counties: Cumberland, Fentress,
Overton, Pickett, Rhea

24. Cookeville District 27 West

Bo Hoskins
931-528-4311
P.O. Box 2929
Cookeville, TN 38502

Counties: Clay, Dekalb, Jackson,
Putnam, White

25. Tullahoma District 28 West

Jeremy Price
931-454-1920
P.O. Box 98
Tullahoma, TN 37388

Counties: Cannon, Coffee, Franklin,
Warren

Region III

31. Nashville District 37 South

Dewayne Rogers
615-350-4044
6601 Centennial Blvd.
Nashville, TN 37209

Counties: Davidson, Williamson

32. Gallatin
Dewayne Rogers District 37 North

615-350-4044
1215 Hartsville Pk.
Gallatin, TN 37066

Counties: Macon, Smith, Sumner,
Trousdale, Wilson

33. Clarksville District 38 North

Derek Pryor
931-582-6293
1918 Wilma Rudolph Blvd.
Clarksville, TN 37040

Counties: Cheatham, Houston,
Montgomery, Robertson, Stewart,

34. Belfast District 39 East

Ed McLain
931-276-2218
2099 Fayetteville Hwy.
Belfast, TN 37019

Counties: Bedford, Lincoln, Marshall,
Moore, Rutherford

35. McEwen District 38 South

Derek Pryor
931-582-6293
Rt. 3, Box 306B
McEwen, TN 37101

Counties: Dickson, Hickman,
Humphreys, Perry

36. Lawrenceburg District 39 West

Ed McLain
931-276-2218
1213 N. Locust
Lawrenceburg, TN 38464

Counties: Giles, Lawrence, Lewis,
Maury, Wayne

Steve Sellers
731-935-0172
Box 2929
Bethel Springs, TN 38502

Region IV

41. Mckenzie District 47 East

Richard Adkisson
731-935-0205
P.O. Box 637
Mckenzie, TN 38201

Counties: Benton, Carroll, Decatur,
Henry, Weakley

Counties: Chester, Fayette, Hardeman,
Hardin, McNairy

44. Jackson District 48 North

Steve Sellers
731-935-0172
Box 429
Jackson, TN 38302-0429

42. Newbern District 47 West

Richard Adkisson
731-935-0205
Box 179
Newbern, TN 38059

Counties: Dyer, Gibson, Lake, Obion

Counties: Crockett, Haywood,
Henderson, Madison

45. Arlington District 49

Brandon Akins
731-935-0191
Box 126
Arlington, TN 38002

43. Bethel springs District 48 South

Counties: Lauderdale, Shelby, Tipton