



**Agenda**  
**Town Board Meeting**  
**Town of Lisbon, Town Hall**  
**Monday, January 29, 2018**  
**6:30 p.m.**

1. **Roll Call.**
2. **Pledge of Allegiance.**
3. **Comments from citizens present.** Citizens are invited to share their questions, comments, or concerns with the Town Board. When speaking, citizens should state their name and address for the record and limit their presentation to three minutes. Where possible, the Board will answer factual questions immediately. If a response would involve discussion of Board policy or decisions, which might be of interest to citizens, not present at the meeting, the Board may place the item on a future meeting agenda.
4. **Consent Agenda.** Items listed under the Consent Agenda are considered in one motion unless a Town Board member requests that an item be removed from the Consent Agenda.
  - A. January 8, 2018 Town Board minutes.
  - B. Resignation of Vicki Brahm from the Park Committee.
  - C. Picnic License for Ausblick Ski Patrol Carnival on February 11, 2018.
  - D. Exemption of Town Ordinance 13.08 and parts of Chapter 8 for the purpose of Heritage Weekend activities.
  - E. Operator's License for Morgan Corbeille - Kwik Trip
5. **Approval of Bills.**
6. **Announcements/Correspondence - Listing of upcoming meeting dates & times.**
7. **Department Reports - Presentation of activity statistics and recently attended meetings.**
  - A. Parks Department
  - B. Fire Department
  - C. Sheriff's Department
  - D. Town Administrator
8. **Supervisor's Reports** - This is an opportunity for Supervisors to report on respective Committees, Commissions, and Boards of which they serve as a member. Matters require no action or approval.
9. **New Business**
  - A. Discussion and necessary action to adopt Resolution 01-18, A Resolution to Close Loopholes that Shift a Greater Property Tax Burden from Commercial to Residential Homeowners (Dark Store).
  - B. Discussion and necessary action on the Proposed 2018 Road Project Plan.
  - C. Discussion and necessary action on a proposal to provide engineering services for the 2018 Pavement Resurfacing Program.
  - D. Discussion and necessary action on the Five Year Town Road Management Plan.
  - E. Discussion and necessary action to purchase a Heavy Duty Scan Tool.
  - F. Discussion of the Fire Department's 2695 Tender Pump failure and replacement.

**10. Recess into Closed Session pursuant to Wisconsin Statutes 19.85(1)(e) and (c) for the following reasons:**

(e) Deliberating or negotiating the purchase of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session.

1. Discuss proposed Forward Development Group Contract.

(c) Considering employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercises responsibility.

1. Town Administrator Performance Review and Contract.

**11. Reconvene into Open Session for possible action on Closed Session deliberations.**

**12. Adjournment.**

Joseph Osterman  
Town Chairman

Matthew Janecke  
Town Administrator

**NOTE:** Individual members of the Town Board will be available after the meeting to discuss town related issues with citizens who are present.

**NOTE:** Please notify the Town of Lisbon 72 hours in advance if you plan to attend and will need an interpreter or assistive hearing device.

**NOTICE:** It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information: no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

**Minutes of the Town Board Meeting  
Town of Lisbon, Town Hall  
Monday, January 8, 2018  
6:30 p.m.**

Chairman Osterman called the Town Board meeting to order at 6:30 PM.

**Roll Call:** Present: Chairman Osterman, Supervisors Gamiño, Moonen, Plotecher and Beal. Also present: Matthew Janecke, Town Administrator.

**Comments from citizens present.** None.

**Consent Agenda.** Items listed under the Consent Agenda are considered in one motion unless a Town Board member requests that an item be removed from the Consent Agenda.

- December 11, 2017 Town Board minutes.
- December 20, 2017 Town Board minutes.

*Motion by Chairman Osterman to approve the Consent Agenda. Seconded by Supervisor Gamiño. Motion carried, 5-0.*

**Approval of Bills.**

*Motion by Supervisor Moonen to approve the check registers as presented from December 21, December 28, 31, 2017 and January 5, 2018. Seconded by Supervisor Plotecher. Motion carried, 5-0.*

**Announcements/Correspondence - Listing of upcoming meeting dates & times.**

Chairman Osterman reviewed the list of upcoming Town meetings.

**Department Reports - Presentation of activity statistics and recently attended meetings.**

**Public Works Department** – Supervisor Moonen stated DPW went out 14 times in December for winter related events. They also assisted the Fire Department with ambulance 2651 repairs and the salt fill should have been delivered today.

**Town Administrator** – Administrator Janecke stated last week he met with Payne & Dolan about moving the Town's compost site for the 2019 season because they are quarrying faster than they planned. It will be moved to the corner of STH 164 and Plainview Road. The personnel manual has been submitted to the Labor Attorney. The Quiet Zone on N. Lisbon Road should be starting on January 23; signs have already been installed. He met with Kunkel Engineering and the Public Works Director regarding the 2018 road projects and a road plan will be submitted for the next Town Board meeting. This plan will also address the roads to be repaired with the remaining funds from \$8,000,000 borrow, which is about \$1,150,000. He had a meeting with Sussex about the proposed Town Center development and thinks good things will come from that.

Tax collection is going very well with \$13,000,000 collected and about \$3,000,000 left to collect. Treasurer Buchman and Deputy Treasurer Sharon are doing a great job. This is the Treasurer's first tax collection and it is going as smooth as years past. Lastly, he will be out of the office January 18-23.

**Supervisor's Reports.**

**Supervisor Beal** – Sanitary District is working on tidying up contracts.

**Recess into Closed Session pursuant to Wisconsin Statutes 19.85(1)(c) for the following reasons: Considering employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercises responsibility: Town Administrator Performance Review and Contract.**

*Motion by Supervisor Gamiño to convene into Closed Session pursuant to Wisconsin Statutes 19.85(1)(c) for the following reasons: Considering employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercises responsibility, more specifically the Town Administrator Performance Review and Contract.. Seconded by Supervisor Beal.*

**ROLL CALL VOTE:**

*Chairman Osterman: Yes  
Supervisor Gamiño: Yes  
Supervisor Moonen: Yes  
Supervisor Plotecher: Yes  
Supervisor Beal: Yes*

*Motion carried, 5-0, by roll call vote. Town Board convened into Closed Session at 6:47 PM.*

**Reconvene into Open Session for possible action on Closed Session deliberations.**

*Motion by Supervisor Moonen to reconvene into Open Session for possible action on Closed Session deliberations. Seconded by Supervisor Gamiño.*

**ROLL CALL VOTE:**

*Chairman Osterman: Yes  
Supervisor Gamiño: Yes  
Supervisor Moonen: Yes  
Supervisor Plotecher: Yes  
Supervisor Beal: Yes*

*Motion carried, 5-0, by roll call vote. The Town Board reconvened at 10:04 PM.*

**Adjournment.**

*Motion by Supervisor Beal to adjourn the Monday, January 8, 2018 Town Board of Supervisors meeting at 10:05 PM. Seconded by Supervisor Gamiño. Motion carried, 5-0.*

Respectfully submitted,

Gina C. Gresch, MMC/WCPC  
Town Clerk

January 15, 2018

RECEIVED  
By Gina Gresch at 2:00 pm, Jan 15, 2018

Chairperson Marlene Kumitsch:

It is with deep regrets that I must withdraw my membership from the Lisbon Parks Committee. Last week, President Trump signed an Executive Order requiring VA's to see all discharged service members for all mental health and whole health care despite eligibility. This is going to be implemented quickly. I am one of two directors assigned to a congressional task force and Clinical Oversight Council to operationalize and monitor the execution of the President's order. With this change, it is clear that I will not be able to give the Parks Committee the time and commitment that you deserve. I want you to know that I have really enjoyed working with all of you and hope to do so again in the near future. It is an honor to serve the Town of Lisbon in such a capacity. I am happy to transfer all of my contacts and information regarding the cemetery tour and will support your efforts as much as I can. I consider you all as friends and know that you will understand. Talk to you soon.

Sincerely,

Vicki Brahm

Application for Temporary Class "B" / "Class B" Retailer's License

See Additional Information on reverse side. Contact the municipal clerk if you have questions.

FEE \$ 10.00

Application Date: 1-12-18
County of WAUKESHA

Town Village City of LISBON

The named organization applies for: (check appropriate box(es).)

- A Temporary Class "B" license to sell fermented malt beverages at picnics or similar gatherings under s. 125.26(6), Wis. Stats.
A Temporary "Class B" license to sell wine at picnics or similar gatherings under s. 125.51(10), Wis. Stats.

at the premises described below during a special event beginning 2-11-18 and ending 2-11-18 and agrees to comply with all laws, resolutions, ordinances and regulations (state, federal or local) affecting the sale of fermented malt beverages and/or wine if the license is granted.

- 1. Organization (check appropriate box) -> Bona fide Club, Church, Lodge/Society, Chamber of Commerce or similar Civic or Trade Organization, Veteran's Organization, Fair Association

(a) Name AUSBLICK SKI CLUB
(b) Address P.O. Box 207 W260N6395 MARY HILL RD. SUSSEX, WI 53089
Town Village City

(c) Date organized 1970
(d) If corporation, give date of incorporation
(e) If the named organization is not required to hold a Wisconsin seller's permit pursuant to s. 77.54 (7m), Wis. Stats., check this box: [ ]

(f) Names and addresses of all officers:
President SCOTT ROBERTSON W260N6395 MARY HILL RD. SUSSEX, WI.
Vice President ABBY VOGGEN-HORN
Secretary MOE MINOR
Treasurer KRISTI HABANEK

(g) Name and address of manager or person in charge of affair: SCOTT ROBERTSON
W260N6395 MARY HILL RD. SUSSEX, WI. 53089

2. Location of Premises Where Beer and/or Wine Will Be Sold, Served, Consumed, or Stored, and Areas Where Alcohol Beverage Records Will be Stored:

- (a) Street number W260N6395 MARY HILL RD. SUSSEX, WI. 53089
(b) Lot Block
(c) Do premises occupy all or part of building? CLUB HOUSE AND DECK
(d) If part of building, describe fully all premises covered under this application, which floor or floors, or room or rooms, license is to cover:

3. Name of Event

- (a) List name of the event AUSBLICK SKI PATROL CARNIVAL
(b) Dates of event 2-11-18

DECLARATION

The Officer(s) of the organization, individually and together, declare under penalties of law that the information provided in this application is true and correct to the best of their knowledge and belief.

Officer Scott Robertson 1-11-18
Officer Abby Vogen-Horn

AUSBLICK SKI PATROL
Officer Moe Minor
Officer Kristi Habanek

Date Filed with Clerk
Date Reported to Council or Board
Date Granted by Council
License No.

Mark Kleinschmidt - mark@tomahawkmfg.com.

January 16, 2018

To the Town of Lisbon Board:

The Town of Lisbon Park committee will be hosting the Historical Heritage Weekend Event on August 11 & 12 of 2018. We are requesting exceptions to the Chapter 8 Park regulations and to the Town Exemptions.

Under 13.08 Exemptions 1h: Special, decorative, Town-owned displays or signs that are located in the public right-of-way on a temporary basis.

We are requesting permission to place banners and signs approximately 4 weeks before the August Heritage weekend on Town right-of-ways. Such banners and signs will be removed within two days after the event.

Under Chapter 8 Park Regulations:

8.03 hours: Requesting exemption to allow overnight camping.

8.09 Use of Firearms: Requesting allowing firearm and cannon demonstrations with no shot.

8.10 Fires: Requesting allowing small camp fires at the re-enactors camps.

8.14 Camping: Requesting allowing overnight camping for re-enactors only on Friday August 10

and Saturday August 11.

8.17 Parking: Requesting overnight parking for re-enactors only on Friday August 10 and Saturday August 11.

Thank you,

A handwritten signature in cursive script, appearing to read "Marlene Kumitsch".

Marlene Kumitsch  
Town of Lisbon Park Chair



# REQUEST FOR CONSIDERATION

<b>COMMITTEE CONSIDERATION:</b> Town Board
<b>ITEM DESCRIPTION:</b> Approval of Operator's License(s)
<b>PREPARED BY:</b> Gina C. Gresch, Clerk
<b>REPORT DATE:</b> Friday, January 26, 2018
<b>RECOMMENDATION:</b>  Approval of the Operator's License(s) as listed below. All applicant(s) submitted the appropriate paperwork and fee and passed the background check.
<b>EXPLANATION:</b> <ul style="list-style-type: none"><li>• Morgan Corbeille, Kwik Trip</li></ul>



**TOWN OF LISBON**  
W234 N8676 Woodside Rd.  
Lisbon, WI 53089

**Monday, January 22, 2018**

Dear Board Members:

This is to notify you of the Town of Lisbon meetings, office closures and elections from **January 30, 2018 through February 17, 2018** at the Town Hall, W234N8676 Woodside Road, unless indicated otherwise.

Thursday, February 01	Plan Commission at 6:30 P.M.
Monday, February 12	Supervisor's Office Hours at 6:00 P.M. followed by Town Board at 6:30 P.M. Town Board begins meeting with Public Hearing for Zoning Code PUD Text.

Sincerely,

Gina C. Gresch, MMC/WCPC  
Town of Lisbon Clerk

**NOTICE:** It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meetings to gather information: no action will be taken by any governmental body at the above-stated meetings other than the governmental body specifically referred to above in this notice. (All meetings are subject to change or cancellation)

## November 2017 Fire Chiefs Report Continued

### Notes on special activities and events:

1. November 4<sup>th</sup>, FD Auxiliary photo day
2. November 5<sup>th</sup>, FD Auxiliary Pancake breakfast

### Meetings attended by the Chief:

1. November 3<sup>rd</sup>, Bark River Budget meeting
2. November 8<sup>th</sup>, Meeting of Waukesha Co. Fire Chiefs
3. November 14<sup>th</sup>, Bark River Meeting
4. November 15<sup>th</sup>, Annual Town Budget meeting
5. November 27<sup>th</sup>, CMH Community Paramedic meeting

Respectfully Submitted;

A handwritten signature in dark ink, appearing to read "Douglas J. Brahm". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Douglas J. Brahm  
Lisbon Fire Chief

## December 2017 Fire Chiefs Report Continued

Notes on special activities and events:

1. December 1<sup>st</sup>, Lisbon Fire Department Auxiliary Christmas “Love Light” tree lighting ceremony, at Richard Jung Memorial Fire Station.
2. December 9<sup>th</sup>, Lisbon Fire Dept. held its “Breakfast with Santa” for the Fire Dept. employee’s children.
3. December 12<sup>th</sup>, Lisbon FD reevaluated by the Insurance Service Office

Meetings attended by the Chief:

1. December 4<sup>th</sup>, Officer meeting
2. December 6<sup>th</sup>, Meet with Pewaukee FD Hiring process
3. December 6<sup>th</sup>, Bark River Operations Committee Presentation
4. December 8<sup>h</sup>, Meeting with County Consultants; Feasibility Study Status
5. December 13<sup>th</sup>, County Chiefs meeting
6. December 20<sup>th</sup>, WCC dispatch meeting
7. December 20<sup>th</sup>, CMH Quarterly Leadership meeting

Respectfully Submitted;

A handwritten signature in dark ink, appearing to read "Douglas J. Brahm". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Douglas J. Brahm  
Lisbon Fire Chief

FIRE DEPT. MONTHLY STATISTICS  
2017

<u>Description</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>YTD</u>
<b>Personnel</b>													
Combination	37	37	37	37	37	37	37	37	37	37			N/A
Fire Only	11	11	16	20	20	20	20	20	20	20			N/A
EMS Only	4	4	4	4	4	4	4	4	4	4			N/A
Associate Paramedics	7	7	6	6	6	6	6	6	6	6			
EMS/Fire Preceptors	2	2	2	2	2	2	2	2	2	2			N/A
Chaplain	1	1	1	1	1	1	1	1	1	1			N/A
<b>Total Personnel</b>	<b>62</b>	<b>62</b>	<b>66</b>	<b>70</b>	<b>0</b>	<b>0</b>	N/A						
Note:paramedics	18	18	18	18	18	18	18	18	18	18			
<b>Calls</b>													
Fire Loss in \$	0	0	0	0	0	60,000	0	1,000	0				61,000
Fire	3	3	1	5	3	8	2	4	4	3			36
Medical	45	38	34	28	27	34	35	41	33	29			344
ALS Intercepts	4	6	3	10	8	17	5	8	9	5			75
Inter-facility transports	38	25	23	28	34	26	30	34	38	26			302
Vehicle Accidents	7	2	7	7	4	7	9	6	8	5			62
Search	0	0	0	0	0	0	0	0	0	1			1
Hazardous Cond.	1	1	2	2	0	7	1	2	2	2			20
False Alarm	6	1	2	1	1	5	2	2	0	7			27
Stand By	0	0	0	0	1	0	0	0	1	0			2
Service Call	2	0	2	1	1	7	4	3	3	3			26
Well Being/Good Intent	14	4	6	6	5	6	11	14	9	4			79
<b>Total Call</b>	<b>120</b>	<b>80</b>	<b>80</b>	<b>88</b>	<b>84</b>	<b>117</b>	<b>99</b>	<b>114</b>	<b>107</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>974</b>
<b>Inspections</b>													
Public Education	3	1	1	1	2	1	1	2	0	1			
Initial/Re-inspect preplans	0	2	3	0	10	1	0	11	0	0			
Sprinkler Review/Tests	0	0	0	0	1	0	0	1	0	0			
<b>Total Inspections/actions</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>13</b>	<b>5</b>	<b>3</b>	<b>15</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>52</b>

FIRE DEPT. MONTHLY STATISTICS  
2017

<u>Description</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>YTD</u>
<b>Training</b>													
Fire	1	2	2	2	1	2	1	3	1	1			
EMS	1	1	4	1	1	1	3	5	2	2			
Day	1	1	1	0	0	1	0	1	0	1			
Special	0	2	1	2	2	0	1	0	0	1			
Group	5	5	5	5	5	4	5	5	4	4			
<b>Total Trainings</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>10</b>	<b>14</b>	<b>7</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>99</b>

<u>Description</u>	<u>Jan.</u>	<u>Feb.</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>YTD</u>
<b>Education</b>													
EMT-Basic	2	2	2	2	2	0	0	0	1	1			N/A
Advanced EMT	0	0	0	0	0	0	0	0	0	0			N/A
Paramedic	6	6	6	5	5	1	1	1	4	4			N/A
Critical Care Paramedic	0	0	0	0	0	0	0	0	0	0			N/A
Firefighter I	0	0	0	0	0	1	1	1	1	1			N/A
Firefighter II	2	2	2	2	2	0	0	0	0	0			N/A
Aerial	0	0	0	0	0	1	1	1	0	0			N/A
Driver/Operator	0	0	0	0	0	0	0	0	0	0			N/A
Fire Officer I	0	0	0	0	0	0	0	0	0	0			N/A
Fire Officer II	0	0	0	0	0	0	0	0	0	0			N/A
Fire Safety officer	0	0	0	0	0	0	0	0	0	0			N/A
Fire Inspector	2	2	2	2	2	0	0	0	1	1			N/A
Fire Instructor	0	0	0	0	0	0	0	0	0	0			N/A
EVOC driving class	0	0	0	0	0	0	0	0	0	0			N/A
<b>Total Education</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>N/A</b>



# REQUEST FOR CONSIDERATION

<b>COMMITTEE CONSIDERATION:</b>	Town Board
<b>ITEM DESCRIPTION:</b>	Discussion and necessary action on Resolution 01-18, "Resolution to Close Loopholes that Shift a Greater Property Tax Burden from Commercial to Residential Homeowners".
<b>PREPARED BY:</b>	Matt Janecke, Town Administrator
<b>REPORT DATE:</b>	January 16, 2018
<b>RECOMMENDATION:</b>	Unanimously adopt Resolution 01-18.
<b>EXPLANATION:</b>	<p>The action request that I'm asking the Town Board to consider is a non-binding resolution in support of proposed state legislation reversing a 2008 Wisconsin Supreme Court decision, as well as legislation closing the "dark store loophole".</p> <p>Legislation would correct two aspects of the problem. Senate Bill (SB) 291/Assembly Bill (AB) 387 addresses a 2008 Wisconsin Supreme Court ruling that cut tax assessments on single tenant commercial properties, like Walgreens and CVS. That court interpretation left many of these stores paying taxes on half their fair market selling price. SB 292/AB 386 would halt the "Dark Store" strategy in which commercial property owners argue their properties should be assessed as if they were vacant or boarded up. Presently, hundreds of millions of dollars of taxable value is not on the rolls because of these strategies.</p> <p>Neither bill would increase the revenue municipalities collect; they would, however, distribute the cost of municipal services such as police, fire protection, and public works more fairly among all property taxpayers.</p> <p>Both bills have dozens of sponsors, legislators from both sides of the aisle. Local municipal leaders are asking for both SB291 and SB 292 to be scheduled for a vote.</p> <p>Additional points to consider:</p> <ul style="list-style-type: none"><li>• The goal of these bills is to avoid a large tax shift from commercial properties to other classes of property, primarily residential.</li><li>• Homeowners already currently pay 68 percent of the statewide property tax levy.</li><li>• Courts in other states like Michigan have upheld the "Dark Store" strategy, which argues that sales of closed, vacant stores can serve as comparables for determining the value of open, new stores, cutting property tax assessments for big box retail stores in some cases by as much as 50 percent.</li><li>• No appellate court in Wisconsin has endorsed the dark store strategy yet. However, if this strategy becomes successful in Wisconsin it could result in a shift of millions of dollars in tax burden from commercial property owners to homeowners and other taxpayers.</li><li>• The bills are modeled after similar legislation that the state of Indiana passed in 2016.</li><li>• It will ensure that the dark store tax strategy being used by big box retail chains to cut their property tax bills in half in Michigan and other states does not take hold in Wisconsin.</li><li>• The bill codifies language in Wisconsin case law and DOR's Wisconsin Property Assessment Manual.</li><li>• The bill clarifies that when assessors use sales of comparable properties for determining the value of a property they must use properties that are within the same market segment and similar to the property being assessed with regard to age, condition, use, type of construction, location, design, and economic characteristics.</li><li>• The bills explicitly provide that assessors may not use a dark and vacant store as a comparable for property that is not dark or vacant.</li></ul>

Although the Town of Lisbon does not have an over abundant amount of retail commercial properties that would seek to use these loopholes, by not addressing the precedence that has been set forth, other commercial building owners could attempt to use the same strategy. This would be especially detrimental to residential tax payers considering the amount of industrial buildings that are located in the Town. The Town Board should consider keeping the tax rate as low as possible by supporting legislation that will cause commercial property owners to pay their fair share of the tax levy.

**UPDATE:**

Now entering the final 2.5 months of the 2017-2018 Legislative Session, it's looking less likely that legislative leaders will schedule a vote on both the dark store (SB 292/AB 386) and Walgreens reversal (SB 291/AB 387) bills before the session ends. On the Assembly side, the bills sit in the Assembly Ways and Means Committee. No committee vote has been held on the bills on the instruction of Assembly GOP leadership, which is insisting that the Senate take action on the bills first. Rep. Rob Brooks, the bills' author, has been told by Speaker Vos that if the Senate passes the bills there could be a discussion in caucus on whether to schedule a vote on the Assembly floor. If sufficient support existed within the GOP caucus (at least 50 votes) the bills could be scheduled. Meanwhile, Speaker Vos has been publicly saying he doesn't think the bills will pass this session.

On the Senate side, the Committee on Revenue, Financial Institutions, and Rural Issues voted unanimously to recommend passage of both bills in October. While the bills have strong support from Senators in both parties, it is GOP leadership's policy to not schedule a bill for a floor vote unless the GOP members alone can pass the bill.

The Senate majority leader, Sen. Fitzgerald, has not revealed his position on the bills, but clearly doesn't want the Senate to pass something and then have the Assembly not take it up. That would make him and the Senate GOP look bad to WMC and other business groups opposing the legislation.

The goal is to get at least one of the bills to a Senate vote. The bill with the best chance of being scheduled is the dark store bill, SB 292. Sen. Roth is the author. He is working to convince Sen. Fitzgerald and his fellow caucus members to schedule it for a floor vote in January or February. The Senate intends to meet at least one day each of those months. The Assembly intends to hold its final floor session in February.

Please contact me with any additional questions you might have.

**Source: League of Wisconsin Municipalities**



May 3, 2017

Dear Wisconsin State Legislator:

The League of Wisconsin Municipalities, the Wisconsin Counties Association, the Wisconsin Towns Association, and the Wisconsin Association of School Boards urge you to support the dark store bill, LRB-0373, that Rep. Rob Brooks and Sen. Roger Roth are currently circulating for co-sponsors. The bill is modeled after similar legislation that the state of Indiana passed in 2016. It will ensure that the dark store tax strategy being used by big box retail chains to cut their property tax bills in half in Michigan and other states does not take hold in Wisconsin. If this bill is not enacted and the dark store strategy wins in Wisconsin courts, the result will be a significant tax shift from commercial to residential property tax payers. Homeowners already bear a disproportionate share of the property tax burden (68%).

It is important to emphasize that if this bill is enacted local governments will not receive one dollar more in tax revenue. Enactment will, however, prevent even more of the tax burden from being shifted to homeowners.

The bill clarifies that when assessors use sales of comparable properties for determining the value of a property they must use properties that are within the same market segment and similar to the property being assessed with regard to age, condition, use, type of construction, location, design, and economic characteristics. The bill explicitly provides that assessors may not use a dark store as a comparable for property that is not dark or vacant.

The state's local government associations have prepared the attached packet of background information on why the dark store legislation is necessary. We urge you take a look at the information and then sign on to the dark store bill and help stop more of the property tax burden from being shifted to homeowners.

If you have any questions or need more information please give any of us a call.

Sincerely,

Curt Witynski, J.D.  
Assistant Director  
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## Issue Briefing: Dark Store and Walgreens Decision Tax Shift

### Court rulings giving tax cuts to chain stores result in tax increases for homeowners

Property taxes for homeowners and main street businesses are increasing in Wisconsin as national retailers pay less. A carefully-orchestrated wave of 100s of lawsuits in Wisconsin is forcing assessors to slash the market value of thriving national retail stores, shifting their tax burden to local mom and pop shops and to their home-owning customers. If the Legislature fails to close these loopholes, we estimate that millions of dollars in property taxes will shift from large commercial properties to homeowners and other taxpayers over the next few years.

The table below shows what assessors estimate the tax increases that homeowners in select communities will experience when the Dark Store strategy and Walgreens' decision is fully implemented. Calculations are based on amount of national chain retail, 2015 mill rates, and median home values:

City	Estimated Tax Increase	Average increase per home per year
Brookfield	5%	\$233.50
Hudson	9%	\$374.58
La Crosse	7%	\$197.12
Oconomowoc	8%	\$360.96
Pleasant Prairie	17%	\$892.50
Wauwatosa	7%	\$382.12
West Bend	8%	\$253.89

This is not a new problem, nor is it exclusive to Wisconsin. Wisconsin is merely the latest state to experience this coordinated legal attack on in-state taxpayers. Indiana and Michigan have already experienced it. In Indiana, the Legislature promptly slammed the door on this court-created loophole. A similar legislative fix is pending in Michigan. Wisconsin must do the same.

**Loophole #1: It's just a big empty box.** Tax attorneys for Target, Meijer, and other big box chains are using what is known as the "Dark Store Theory" to argue that the assessed value of a new, thriving store should be based on the value of vacant or abandoned buildings of similar size. They argue that regardless of their new location or how updated their building is the value for 'property tax purposes' should be based on the value of the buildings and locations they abandoned prior to moving into the new store at their new location.

**Real World Example from Wauwatosa:** The Lowe's store at 12000 W. Burleigh St. is currently challenging the city's assessed valuation. The City assessed the property at \$13.6 million. The City's expert believes the market value is actually \$17.7 million. Lowe's argues the property's current value is \$7.1 million of which \$3 million is attributed to land. Yet, the land was purchased in 2007 for \$9,012,800. Lowe's built a 140,000 square foot building in 2006 for approximately \$7 million, they then subsequently purchased the land after constructing the building. Altogether, Lowe's spent in excess of \$16 million to acquire the

land and build the structure. Now, Lowe's argues that the land was devalued from \$9 million to \$3 million because the big box store was constructed. Lowe's insists that under Wisconsin law (based on the *Walgreens* decision) only vacant dark stores, such as the vacated big box stores near the former Northridge shopping area, can be used as comparables. The City disagrees, but their only options are costly litigation or settling with the property owner on a compromise value.

**Loophole #2: Gold box on Wall Street, cardboard box on Main Street.** Walgreens and CVS stores use a different, but related strategy, to argue that the assessed value of their properties should be less than half of actual sale prices on the open market. The two have already sued more than 100 Wisconsin communities, claiming the rent they pay for their newly-constructed, highly-visible corner locations doesn't accurately reflect its fair market value for property tax purposes. Walgreens and CVS have won dramatic assessment reductions since a 2008 Wisconsin Supreme Court decision, *Walgreens v. City of Madison*, upheld this tax strategy. These properties are developed to the retailer's specifications and leased to them with no landlord responsibility other than collecting rent. More than 80% of Walgreen stores and 95% of CVS stores operate under a lease arrangement. Drugstores have become the most popular single-tenant properties in the national real estate investment market. But attorneys for Walgreen and CVS argue that their actual sale prices don't represent market value and the underlying leases are the wrong tool for determining the property's value for 'property tax purposes.' Instead, they say, the assessments should hinge on the amount the landlord could get if the drugstore moved out and a different retailer moved in.

**Real World Example from Oshkosh:** Walgreens challenged the City of Oshkosh's assessments of two of its stores. The city based its assessment on the actual amounts for which the properties were sold. The court rejected the city's approach and ordered that the two Walgreens be refunded for several tax years. The total amount of the refunds equaled \$305,672. Other taxpayers in Oshkosh now have to pick up Walgreen's former share of the tax burden. There are over 200 Walgreens located in Wisconsin's cities and villages.

**Other states have stopped this tax shift.** The Republican-controlled Indiana Legislature overwhelmingly passed bipartisan legislation in 2015 and 2016 prohibiting assessors from valuing new big box stores the same as abandoned stores in a different market segment. The Michigan legislature is considering similar proposals. In May 2016 the Michigan house passed a dark store fix bill by a vote of 97-11. The bill died in the Michigan Senate.

**Solution:** Follow Indiana's lead and pass legislation in Wisconsin closing off these tax strategies and stopping the tax shift to home owners. Pass legislation clarifying that:

1. Reverse the *Walgreens v. City of Madison* decision by clarifying that leases are appropriately factored into the valuation of leased properties (*Rep. Rob Brooks (R-Saukville and Sen. Duey Stroebel (R-Saukville) plan to introduce soon*); and
2. When using the comparable sale method of valuation, assessors shall consider as comparable only those sales within the same market segment exhibiting a similar highest and best use rather than similarly sized but vacant properties in abandoned locations. (*Rep. Rob Brooks and Sen. Roger Roth (R-Appleton) plan to introduce soon*).

RESOLUTION 01-18

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**RESOLUTION TO CLOSE LOOPHOLES THAT SHIFT A GREATER PROPERTY TAX BURDEN  
FROM COMMERCIAL TO RESIDENTIAL HOMEOWNERS**

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**WHEREAS**, home owners in Wisconsin already pay 70% of the total statewide property tax levy; and

**WHEREAS**, that disproportionate burden is about to get much worse unless the Legislature addresses tax avoidance strategies that national chains like Walgreens, and big box retail establishments like Target and Lowe's are using across the country to gain dramatic reductions in their property tax bills at the expense of homeowners and other taxpayers; and

**WHEREAS**, a carefully-orchestrated wave of 100s of lawsuits in Wisconsin is forcing assessors to slash the market value of thriving national retail stores, shifting their tax burden to local small business owners and homeowners; and

**WHEREAS**, Walgreens and CVS stores in Wisconsin have argued in communities across the state that the assessed value of their property for property tax purposes should be less than half of their actual sale prices on the open market; and

**WHEREAS**, in many cases the courts have sided with Walgreens and CVS, requiring communities to refund tax revenue back to the stores; and

**WHEREAS**, there are over 200 Walgreens stores located in Wisconsin's cities and villages; and

**WHEREAS**, Target, Lowe's, Meijer, Menards and other big box chains are using what is known as the "Dark Store Theory" to argue that the assessed value of a new store in a thriving location should be based on comparing their buildings to sales of vacant stores in abandoned locations from a different market segment; and

**WHEREAS**, the Republican-controlled Indiana state Legislature has on two occasions in the last two years overwhelmingly passed legislation prohibiting assessors from valuing new big box stores the same as nearby abandoned stores from a different market segment; and

**WHEREAS**, the Michigan state house overwhelmingly passed similar legislation in May of 2016.

**NOW, THEREFORE BE IT RESOLVED**, that the Common Council of the Town Board urges the Governor and the Legislature to protect homeowners from having even more of the property tax burden shifted to them by passing legislation clarifying that:

1. Leases are appropriately factored into the valuation of leased properties; and
2. When using the comparable sale method of valuation, assessors shall consider as comparable only those sales within the same market segment exhibiting a similar highest and best use rather than similarly sized but vacant properties in abandoned locations.

**PASSED AND ADOPTED** by the Town Board of the Town of Lisbon, Waukesha County, Wisconsin this 29<sup>th</sup> day of January, 2018.

TOWN BOARD, TOWN OF LISBON  
WAUKESHA COUNTY, WISCONSIN

BY: \_\_\_\_\_  
JOSEPH OSTERMAN, Chairman

BY: \_\_\_\_\_  
TEDIA GAMIÑO, Supervisor

BY: \_\_\_\_\_  
MARC MOONEN, Supervisor

BY: \_\_\_\_\_  
LINDA BEAL, Supervisor

BY: \_\_\_\_\_  
REBECCA PLOTECHER, Supervisor

ATTEST:

BY: \_\_\_\_\_  
Gina C. Gresch, MMC/WCPC  
Town Clerk



**Town of Lisbon, Wisconsin**  
**PRELIMINARY COST ESTIMATE**  
**Pavement Resurfacing Program**



September 21, 2017 Revised January 9, 2018

Roadway: Pulverize existing asphalt pavement. Base course to be inspected, undesirable locations to be undercut and replaced with aggregate base course, as directed by the Engineer. Asphalt pavement overlay to be placed at depth of either four or five inches, as indicated on the plans. Aggregate shoulder to be restored, as required.

**Total Project Estimate**

Center Oak Road	\$157,156.25
Micah Rd, Peterson Rd, Lynn Marie Ct, & Carole Ann Cir.	\$268,420.20
Plainview Road	\$224,512.75
Bonnie Lane	\$59,302.08
Lisbon Lawns Area	\$363,933.75
<b>Total Project Estimated Construction Cost</b>	<b>\$1,073,325.03</b>

**Center Oak Road Estimated Quantities**

Quantity	Unit	Item	Unit Cost	Item Cost
5,600	SY	Pulverize Asphalt Pavement	\$1.25	\$7,000.00
560	CY	Undercut and Base Course Material	\$32.00	\$17,920.00
210	TN	Base Aggregate Dense, 3/4"	\$18.00	\$3,780.00
1,650	TN	HMA Pavement	\$55.00	\$90,750.00
8,500	LF	Pavement Markings, 4" Latex	\$1.25	\$10,625.00
950	SY	Topsoil and Seeding	\$14.00	\$13,300.00
1	LS	Erosion Control	\$500.00	\$500.00
1	LS	Traffic Control & Access	\$1,500.00	\$1,500.00
		Contract Allowance for Materials and		
1	LS	Compaction Testing	\$1,500.00	\$1,500.00
Total Estimated Construction Cost				\$146,875.00
Engineering and Contingencies				\$10,281.25
<b>Total Estimated Project Cost</b>				<b>\$157,156.25</b>

**Town of Lisbon, Wisconsin**  
**PRELIMINARY COST ESTIMATE**  
**Pavement Resurfacing Program**



September 21, 2017 Revised January 9, 2018

Roadway: Pulverize existing asphalt pavement. Base course to be inspected, undesirable locations to be undercut and replaced with aggregate base course, as directed by the Engineer. Asphalt pavement overlay to be placed at depth of either four or five inches, as indicated on the plans. Aggregate shoulder to be restored, as required.

**Micah Rd, Peterson Rd, Lynn Marie Ct, Carole Ann Cir. Estimated Quantities**

Quantity	Unit	Item	Unit Cost	Item Cost
12,000	SY	Pulverize Asphalt Pavement	\$1.25	\$15,000.00
1,400	CY	Undercut and Base Course Material	\$32.00	\$44,800.00
420	TN	Base Aggregate Dense, 3/4"	\$18.00	\$7,560.00
2,720	TN	HMA Pavement	\$55.00	\$149,600.00
2,100	SY	Topsoil and Seeding	\$14.00	\$29,400.00
1	LS	Erosion Control	\$500.00	\$500.00
1	LS	Traffic Control & Access	\$2,500.00	\$2,500.00
		Contract Allowance for Materials and		
1	LS	Compaction Testing	\$1,500.00	\$1,500.00
Total Estimated Construction Cost				\$250,860.00
Engineering and Contingencies				\$17,560.20
<b>Total Estimated Project Cost</b>				<b>\$268,420.20</b>

**Plainview Road Estimated Quantities**

Quantity	Unit	Item	Unit Cost	Item Cost
10,000	SY	Pulverize Asphalt Pavement	\$1.25	\$12,500.00
1,000	CY	Undercut and Base Course Material	\$32.00	\$32,000.00
200	TN	Base Aggregate Dense, 3/4"	\$18.00	\$3,600.00
2,000	TN	HMA Pavement	\$55.00	\$110,000.00
16,500	LF	Pavement Markings, 4" Latex	\$1.25	\$20,625.00
1,900	SY	Topsoil and Seeding	\$14.00	\$26,600.00
1	LS	Erosion Control	\$500.00	\$500.00
1	LS	Traffic Control & Access	\$2,500.00	\$2,500.00
		Contract Allowance for Materials and		
1	LS	Compaction Testing	\$1,500.00	\$1,500.00
Total Estimated Construction Cost				\$209,825.00
Engineering and Contingencies				\$14,687.75
<b>Total Estimated Project Cost</b>				<b>\$224,512.75</b>

**Town of Lisbon, Wisconsin**  
**PRELIMINARY COST ESTIMATE**  
**Pavement Resurfacing Program**



September 21, 2017 Revised January 9, 2018

Roadway: Pulverize existing asphalt pavement. Base course to be inspected, undesirable locations to be undercut and replaced with aggregate base course, as directed by the Engineer. Asphalt pavement overlay to be placed at depth of either four or five inches, as indicated on the plans. Aggregate shoulder to be restored, as required.

**Lisbon Lawns Estimated Quantities**

Quantity	Unit	Item	Unit Cost	Item Cost
14,500	SY	Pulverize Asphalt Pavement	\$1.25	\$18,125.00
1,400	CY	Undercut and Base Course Material	\$32.00	\$44,800.00
600	TN	Base Aggregate Dense, 3/4"	\$18.00	\$10,800.00
4,100	TN	HMA Pavement	\$55.00	\$225,500.00
2,600	SY	Topsoil and Seeding	\$14.00	\$36,400.00
1	LS	Erosion Control	\$500.00	\$500.00
1	LS	Traffic Control & Access	\$2,500.00	\$2,500.00
		Contract Allowance for Materials and		
1	LS	Compaction Testing	\$1,500.00	\$1,500.00
Total Estimated Construction Cost				\$340,125.00
Engineering and Contingencies				\$23,808.75
<b>Total Estimated Project Cost</b>				<b>\$363,933.75</b>

**Bonnie Lane Estimated Quantities**

Quantity	Unit	Item	Unit Cost	Item Cost
2,450	SY	Pulverize Asphalt Pavement	\$1.25	\$3,062.50
300	CY	Undercut and Base Course Material	\$32.00	\$9,600.00
120	TN	Base Aggregate Dense, 3/4"	\$18.00	\$2,160.00
560	TN	HMA Pavement	\$55.00	\$30,800.00
500	SY	Topsoil and Seeding	\$14.00	\$7,000.00
1	LS	Erosion Control	\$800.00	\$800.00
1	LS	Traffic Control & Access	\$1,200.00	\$1,200.00
		Contract Allowance for Materials and		
1	LS	Compaction Testing	\$800.00	\$800.00
Total Estimated Construction Cost				\$55,422.50
Engineering and Contingencies				\$3,879.58
<b>Total Estimated Project Cost</b>				<b>\$59,302.08</b>



January 9, 2018

Mr. Matthew Janecke, Administrator/Clerk  
Town of Lisbon  
W234N8676 Woodside Road  
Lisbon, WI 53089-1545

**Re: 2018 Pavement Resurfacing Program  
Engineering Services Proposal**

Dear Mr. Janecke:

Pursuant to our discussion last week, please consider this transmittal a formal proposal to provide services in conjunction with the Town of Lisbon's 2018 Pavement Resurfacing Program. On behalf of Kunkel Engineering Group, we are pleased to present our proposal for your consideration.

I understand that the Town is considering five area projects slated for reconditioning next year.

- Center Oak Road, from Plainview Road to Termini
- Plainview Road, from Woodside to the Railroad
- Bonnie Lane, from County Line to Termini
- Lisbon Lawns Area (Northview Dr, Northview Ct, Parkview Dr, Ervin Pl, Quarry Rd.)
- Scenic Knoll/Western Oaks Subdivision (Micah Rd, Peterson Rd, Lynn Marie Ct, & Carole Ann Cir.)

Specific work efforts include pulverizing the existing pavement, regrading the pavement base and shoulders to provide symmetrical cross sections and a hot mix asphalt (HMA) paving overlay including shoulder reconstruction. It is understood that cross road culverts are to be inspected and may need to be replaced by either Town Staff or through the contract documents created. It is also understood that Center Oak Road will be partially funded utilizing Local Road Improvement Program funds through the Department of Transportation.

Kunkel Engineering Group hereby proposes to work diligently with Town administrative staff, including the Department of Public Works Director, to complete the project in a timely fashion. Kunkel Engineering Group proposes to undertake all work efforts as enumerated within Attachment A and complete same for a **maximum not to exceed fee of \$70,200.00**. Please note that the work scope is intended to be comprehensive and as such the fee as stipulated above will not be exceeded and moreover, may be reduced should the complexity or time expended be less than anticipated.

Again, on behalf of Kunkel Engineering Group, we sincerely appreciate the opportunity to work with the Town of Lisbon on the 2018 Pavement Resurfacing Program. Matt, should you or the Town Board have any questions or concerns, please advise me at your earliest convenience.

Sincerely,

KUNKEL ENGINEERING GROUP



Mitchell Leisses  
Office/Project Manager

Cc: Craig Kunkel, PE

enclosures

ACCEPTED:

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Town of Lisbon

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Date

**Attachment A**  
**Work Scope and Fee Estimate**

**Town of Lisbon**  
**2018 Pavement Resurfacing Program**

**Work Scope**

Task I – Design Services

- A. Field Work
  1. Inspect/Asbuilt existing roadway culverts
  2. Profile/Verify length and width of roadway
  3. Asbuilt existing driveway slopes
  
- B. Plan and Specification Preparation
  1. Develop Construction Plans
    - Hydraulic Evaluation/Culvert Design (if necessary)
    - Roadway Pulverize & Overlay
    - Pavement Details
    - Prepare Typical Cross Section
    - Prepare driveway maximum slope detail
  2. Prepare Project Specifications
    - Contract Documents
    - Bidding Documents
    - Construction Staging Plan
  3. Prepare Erosion Control Plans
  4. Permitting (if required)

Task II – Bidding and Construction Related Services

- A. Bidding
  1. Prepare and submit Advertisement to Bid to Town
  2. Distribute plans/specifications
  3. Respond to bidder's questions
  4. Conduct bid opening
  5. Tabulate bids and make recommendations of Contract Award to Town
  
- B. Construction Related Services
  1. Assist Town in executing contract documents
  2. Conduct Public Informational Meeting
  3. Conduct Preconstruction Conference and distribute meeting minutes
  4. Review and approve payment request
  5. Construction Staking
    - Culvert and reference staking
  6. Conduct Final Project Walk through with Town Staff
  7. Prepare Final Punch List

**Attachment A  
Work Scope and Fee Estimate**

- C. Resident Inspection (Full-time)
  - 1. Observe asphalt pulverizing
  - 2. Inspection of fine grading
  - 3. Proof roll, identify, and direct removal of soft spots
  - 4. Inspect paving activities
  - 5. Monitor adherence of construction schedule
  - 6. Meet with Town Residents/Business Owners regarding restoration, driveway approaches, etc.
  
- D. Town Coordination
  - 1. Attend Town Board meetings as requested
  - 2. Communicate and coordinate activities with Town's Public Works Director
  - 3. Assist Town with LRIP funding reimbursement

**Fee Estimate**

Task I – Design Services	\$24,570.00
Task II – Bidding and Construction Related Services	\$45,630.00
▪ Bidding	\$2,000.00
▪ Construction Related Services	\$7,200.00
▪ Inspection	\$36,430.00
▪ Town Coordination	No Charge
<b><i>Total Maximum Not to Exceed Fee:</i></b>	<b>\$70,200.00</b>

**Note:**

**Kunkel Engineering Group intends to schedule a walk-through of the completed projects prior to the expiration of the one year warranty provided within the contract documents. These work efforts are incorporated within the above tasks and fee estimate.**



# Town of Lisbon

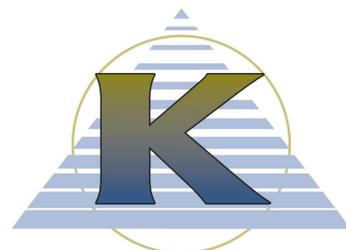
## Five Year Town Road Management Plan



Revised January 16, 2018

Prepared By:

Kunkel Engineering  
Group





# Town of Lisbon

## ***Introduction***

The Town of Lisbon is located in the northeast quadrant of Waukesha County. The Township covers approximately 30 square miles and includes over 10,000 residences within its boundary. State Trunk Highway 164 bisects the Township into two quadrants, East and West. The Town is bounded by the incorporated communities of the Village of Menomonee Falls, the Village of Sussex and the Village of Merton. Unincorporated communities including both Lake Five and Colgate also exist within the Township boundary.

The Town of Lisbon is governed by a Town Board comprised of four supervisors and a Town Chairman. In addition, the Town retains full time staff to undertake administrative functions as well as maintain the 96 miles of roadways under Town jurisdiction. Road maintenance includes clearing the highways of snow and ice during the winter months, clearing debris from roadside ditches and periodic pavement maintenance of the primarily asphalt roadways.

Town residents enjoy a quasi-rural atmosphere while maintaining a short commute to centers of employment within the Cities of Milwaukee and Waukesha. Recreational opportunities abound and include, among others, a Town park system and three golf courses. Residents also enjoy cultural and educational amenities, including a Town library. In addition to residential developments, the Town is also home to a myriad of commercial establishments, a limited amount of industrial property and open space provided by both farmland and conservation areas.

## ***Town Roadways***

There exists within the town of Lisbon approximately 96 miles of roadways under local jurisdiction. The balance of the roadways in and through the Township are maintained either by Waukesha County or the State of Wisconsin. The far majority of all roadways in the Town of Lisbon have been constructed as rural cross-sections and are of asphalt pavement. Beyond a number of collector roads, most of the roadways within the Township were constructed in conjunction with residential developments

## ***Town Road Management Plan***

In 2015, the Town of Lisbon set aside money within their annual budget, to undertake the development of a Five-Year Town Road Management Plan. The Plan, once completed, would establish priorities for roadway maintenance along with repair budgets and a schedule. The Management Plan was to be developed with four primary components:

- 1) Rate all roadways within the Township utilizing the PASER system
- 2) Propose repair techniques for the road segments
- 3) Develop costs to undertake repairs and facilitate a Capital Improvement Project borrowing
- 4) Prioritize roads to be repaired

A Five-Year Town Road Management Plan was created by Kunkel Engineering but with the approval of an \$8 million borrow, the Town of Lisbon was able to address the repair needs of approximately 21 miles of roadways throughout the township. With the majority of the most dilapidated roadways being repaired, the Town of Lisbon has request an update to their Five-Year Town Road Management Plan.

The new Town Road Management Plan will serve as the cornerstone to guide future decisions as they relate to road maintenance and repairs. A distinct advantage in developing a plan is that the Town is in a position to budget money to cost-effectively undertake road repairs prior to the time that deferred maintenance results in catastrophic pavement failure necessitating a full scale rebuild. The latter is an expensive alternative and can be avoided by developing a maintenance program that provides an extended lifecycle for all Town roads. Figure 1, below, illustrates an example of the impact of deferred maintenance upon repair budgets. In essence, left unmaintained, road rating condition declines rapidly and repair costs escalate exponentially within a short period of time.

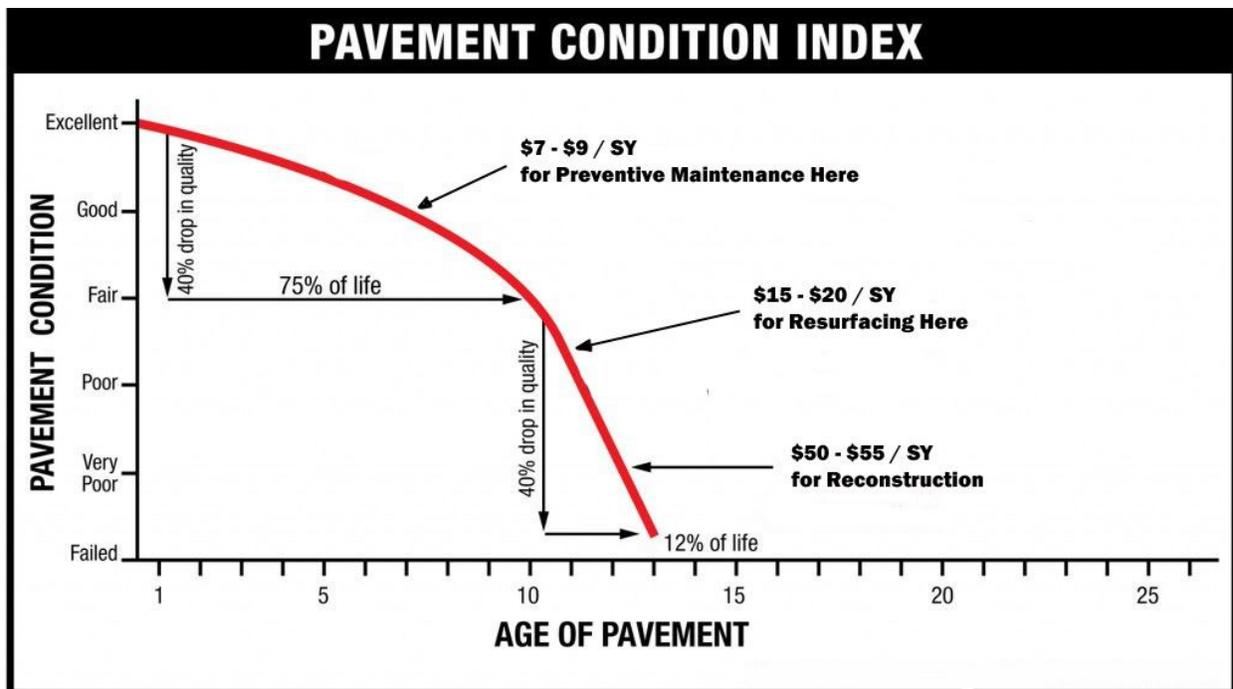


Figure 1

The Wisconsin Department of Transportation (WisDOT) has developed a rating system, Pavement Surface Evaluation and Rating (PASER). The use of PASER allows trained personnel the opportunity to utilize common denominators for the purposes of comparing conditions on all roadways within a single or multiple jurisdictions. Personnel rate roadways based upon surface condition using a grade of one through 10 with one signifying failure while a score of 10 reflects a new roadway in excellent condition. PASER was developed as a means to prioritize and schedule maintenance in a manner so as not to let a roadway deteriorate to the point where total reconstruction remains the sole option for repair.

The 2016 PASER score for the entire Township, completed in concert with Kunkel Engineering Group's first Town Road Management report, was established at 5.896 on a scale of 10. After the Town's investment of \$8 million into their roadways, the recently completed inspection resulted a PASER score of 7.406 for 2017. The current rating falls within the "good" to "very good" category. Figure 2, following page, of this report provides a map of all township roadways and their PASER ratings.

The WisDOT requires all corporate entities within the state to rate each mile of roadway within their jurisdiction utilizing the PASER system and enter the data into the Wisconsin Information System for Local Roads (WISLR) internet accessible system on a bi-annual basis. In part, the state utilizing a shared revenue formula, distributes tax dollars to municipalities based upon miles of roadways maintained in addition to local dollars expended for road maintenance projects. The system has been designed to reward municipalities for continuing to maintain roadways within their corporate jurisdictions by offsetting a small portion of the costs sustained in that endeavor. As an example of this, the Town of Lisbon was awarded \$19,000.00 to utilize on their 2018 resurfacing program (Center Oak Road).

### ***Typical Roadway Defects***

As previously addressed, the overall 2017 PASER score within the Town of Lisbon is a 7.4 on a scale to 10. Although each roadway rehabilitation project is determined on a case by case basis, there are four primary methods of undertaking road repair dependent upon the surface rating. In general terms, roadways that have been constructed on a solid base in a well-drained environment have a longer life cycle than roadways constructed with impaired conditions, i.e., poor structural base and high groundwater table. Freeze thaw conditions will also hasten the deterioration of roadways constructed over a poor sub-base.

A commonplace defect is rutting. Rutting transpires when material is displaced, producing channels in the wheel paths. It is triggered by traffic compaction or displacement of unstable material. Severe rutting, greater than two inches, is regularly the result of base or subgrade consolidation. Restoration of severe rutting necessitates the removal of the existing asphalt surface and reconstruction of the base course prior to resurfacing. Figure 3, on page 5, denotes severe rutting coupled with deteriorating asphalt pavement, suggestive of base failure.

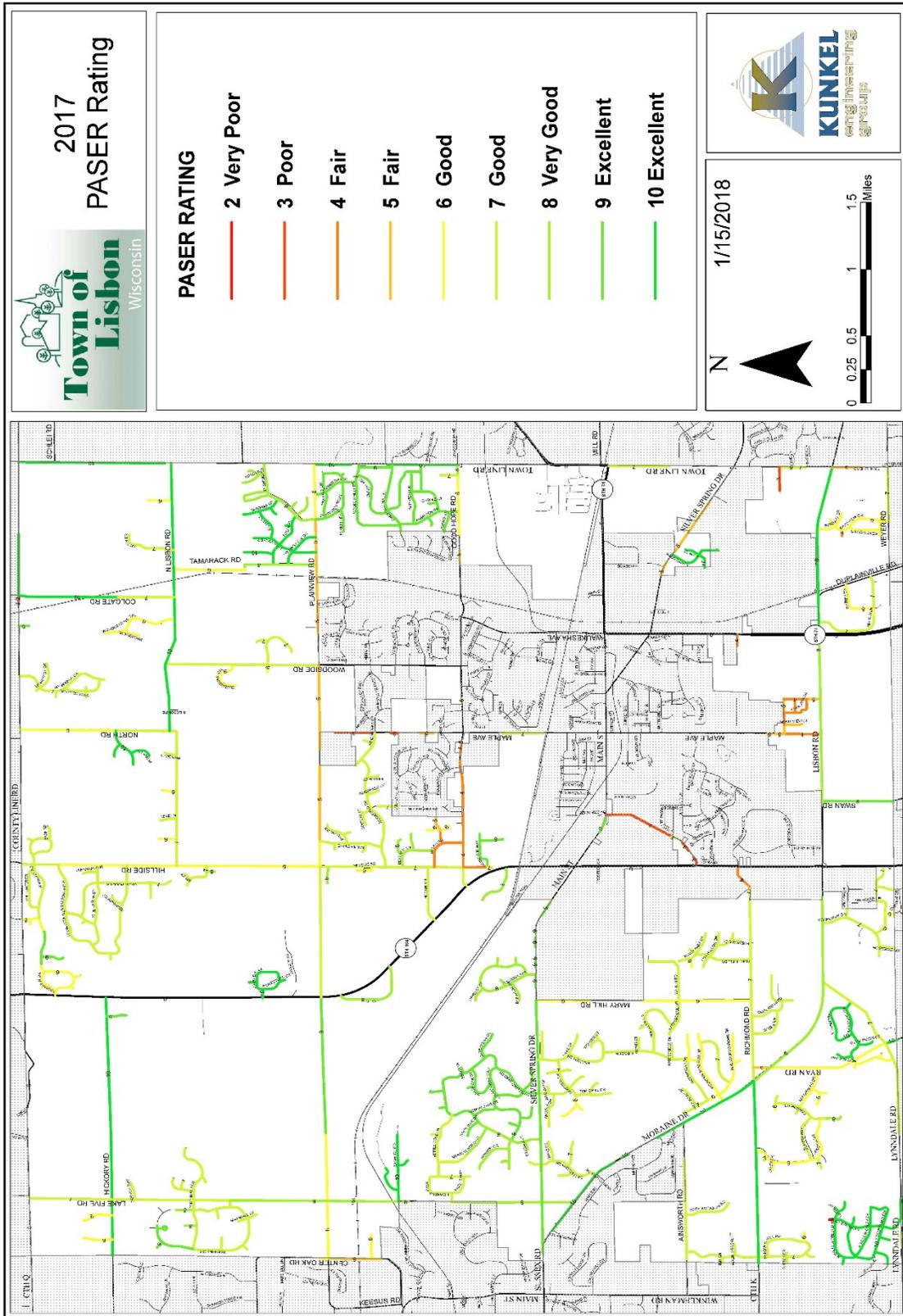


Figure 2



**Figure 3**

Below, in Figure 4, wheel path rutting due to poor asphalt mix design is exhibited. The pavement depressions can be observed, while indications of failure or cracking are not widespread at this time. Restoration typically involves the removal and replacement of the asphalt pavement only.



**Figure 4**

Another characteristic during the life of an asphalt pavement is cracking. The position and extent of cracks are beneficial in determining the proper repair technique. Figure 5, following page, is a sample of block cracking which occurs due to deteriorating asphalt pavement. Cracks normally intersect at near right angles and may exceed 10 feet in length. The closer cracking materializes designates a more advanced aging of the pavement, produced by shrinking and hardening of the asphalt over time. Mending cracks with a sealcoat during the early stages aids to reduce asphalt weathering. Advanced staged cracking compels an overlay or complete reconstruction to repair.

Interconnected cracks resulting in small pieces, typically called alligator cracks, suggest failed asphalt. Frequently alligator cracks are also the effect of a failed base material. Figure 6, following page, displays alligator cracking along the outer edge of the pavement, adjacent to the shoulder. This instance is most likely the result of unsuitable base material, which compacted under the traffic loading. Localized areas may be restored by excavating and replacing both base and pavement materials. Large areas require complete reconstruction.



**Figure 5**



**Figure 6**

### ***Roadway Rehabilitation Techniques***

It is imperative that all roadways within the Township be inspected and maintained on an annual basis as a means to ensure that they do not prematurely deteriorate.

Four primary means of undertaking roadway repairs are as follows:

- 1) Crack Sealing – routine maintenance (ratings of seven and eight)
- 2) Seal Coating – surface treatment (ratings of five and six)
- 3) Resurfacing – structural improvement (ratings of three and four)
- 4) Reconstruction – structural and base improvement (ratings of one and two)

The roadway repair techniques as delineated above are intended to extend the service life of the roadways being rehabilitated. In more general terms, they consist of the following:

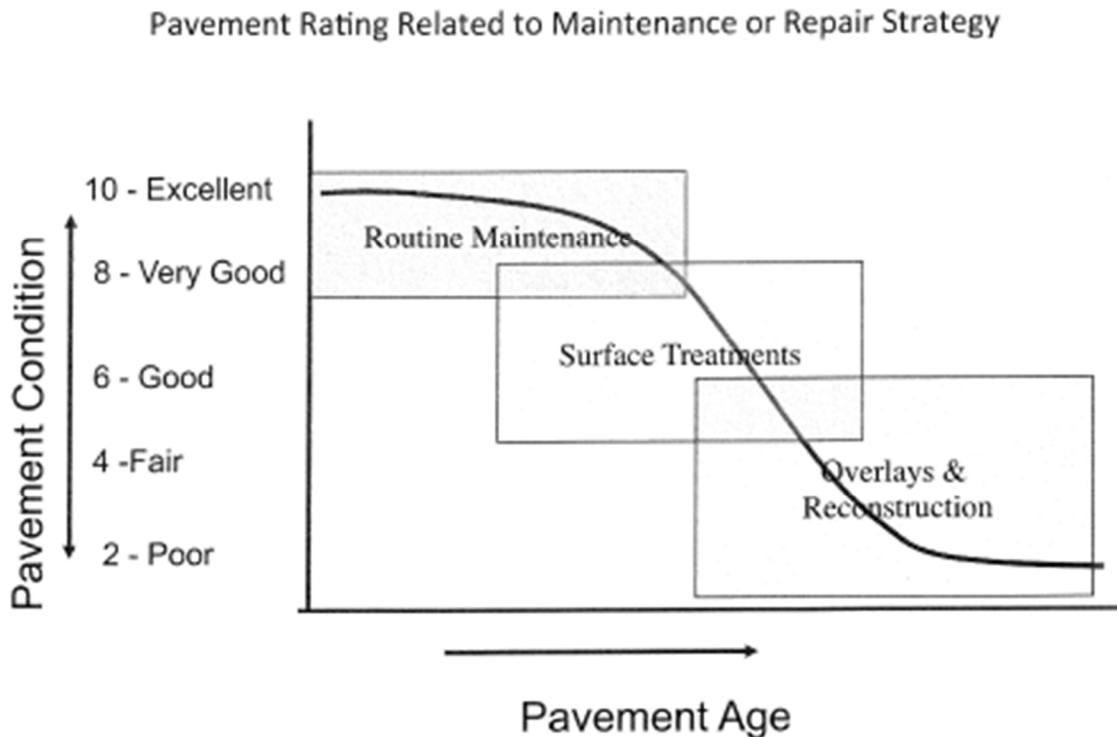
*Crack Sealing* – is generally considered the first line of defense against water intrusion into the pavement structure. The products that are commercially available are pliable in nature and generally expand and contract along with seasonal temperature fluctuations. The rationale behind sealing is to stop the intrusion of water into the pavement and base in order to preclude pavement damage during the freeze thaw cycle.

*Seal Coating* – is the process of applying a clay-stabilized mineral-aggregate asphalt emulsion over the existing asphalt pavement. The asphalt emulsion creates a surface layer that protects the asphalt pavement from ultraviolet rays in addition to providing a friction wear surface.

*Resurfacing* – is the process where the existing asphalt pavement is covered with an asphalt overlay, in effect increasing the structural integrity to the roadway.

*Reconstruction* – entails a complete rebuild of the roadway. Typical components consist of removal of the existing pavement, extensive subbase repair, installing new full depth aggregate base along with an asphalt pavement overlay. This may be accomplished via milling, pulverizing or excavation operations. Oftentimes, the roadside ditches will be reshaped within the right-of-way and storm structures/culverts replaced in conjunction with the project. Subsequent to reconstructing the roadway, new aggregate shoulders will be installed along the outside pavement edges.

Figure 7, below, depicts the types of pavement repairs necessitated by the pavement condition as determined by the PASER evaluation. The graph, although generic, indicates that annual inspections coupled with routine maintenance procedures comprise the most cost-effective way to extend pavement service life.



**Figure 7**

It is important to note that roads with ratings of one through five may require subbase repair, commonly known as excavation below subgrade (EBS), in addition to drainage improvements

which may include installation of new culverts and improvement of roadside ditches. These supplementary improvements will generate extra costs.

With recent rehabilitation projects being completed over the 2016 and 2017 construction seasons, the Town of Lisbon roadways are in excellent condition. Kunkel Engineering Group recommends that the pavement maintenance be achieved mostly through a combination of crack filling and seal coating techniques. In doing so, pavements early in the deterioration stages can be preserved at a lower cost, extending their lifetimes and delaying expensive repairs or replacements.

That said, there are a few roadway segments currently rated either a four or five (“fair”) on the PASER scale. These roadways are being proposed for the 2018 Pavement Resurfacing Project and are as follows:

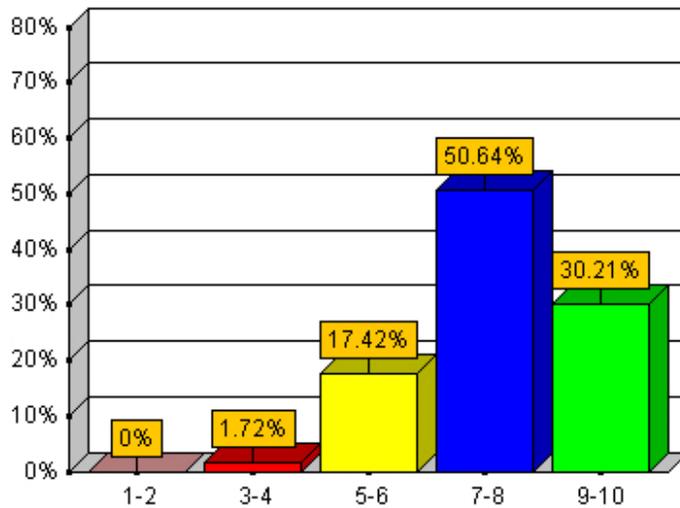
- Center Oak Road, from Plainview Road to Termini
- Plainview Road, from Woodside to the railroad
- Bonnie Lane, from County Line Road to Termini
- Lisbon Lawns Area (Northview Dr., Northview Ct., Parkview Dr., Ervin Pl., & Quarry Rd.)
- Scenic Knoll/Western Oaks Subdivision (Micah Rd., Peterson Rd., Lynn Marie Ct., & Carol Ann Ct.)

For the above listed roadway segments, it is proposed to pulverize the existing pavement, remove and repair areas with evidence of poor base conditions, and repave with a full width asphalt overlay followed by replacement of the gravel shoulders. The prescribed reconstruction technique will bring the most value to the Town in enhancing the structural integrity of the roadway and extending its lifespan without the expense of total reconstruction.

### ***Five-Year Town Road Management Plan Study***

Please note, the following study was completed assuming the Town of Lisbon follows through with completing the proposed 2018 Pavement Resurfacing Project. At the end of the 2018 Pavement Resurfacing Project, approximately, 19 percent of the Town roadways will be rated between three and six, described as poor and fair, requiring resurfacing or seal coating. A needs analysis was generated utilizing the WisDOT WISLR five-year budget plan. The resulting plan specifies a \$1,408,440 need for all maintenance and repair requirements in the Town within the next five years. Actual costs may vary from that produced by WISLR and a detailed cost estimate should be completed prior to acquiring funds. Figure 8, following page, illustrates the current PASER ratings as a percentage basis for all the roadways in the Town of Lisbon. It should be noted that no roadways are rated two or lower.

### Conditions Before Plan

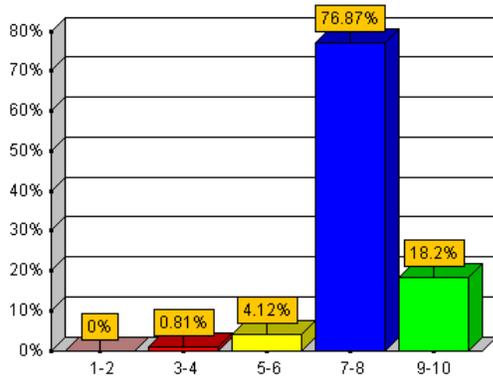


**Figure 8**

Kunkel Engineering Group prepared two scenarios for consideration by the Town of Lisbon as potential Five-Year Town Road Management Plans. An assessment was conducted on the premise of expending \$300,000 per year for all five years of the plan, resulting in a total expenditure of \$1,500,000. The result was the recommended rehabilitation of 61 miles or 62 percent utilizing routine maintenance of crack sealing and surface treatments of seal coating, while one percent was resurfacing. As the funding is slightly beneath the comprehensive need, this option also results in 35 miles, 37 percent, of roadway not included in the Five-Year Management Plan. Most of the roadways not included in this plan are rated an eight, nine, or ten, and don't require much maintenance needs.

As a result of the \$300,000 per year maintenance plan, the percentage of roadways rated three through six ultimately increases with this plan. As well, with most of the maintenance consisting of crack filling and seal coating, the nines and tens drop off slightly. Figure 9, below, provides supplemental illustrations of this plan.

Condition After Plan



Pavement Need & Expenditure Graphic

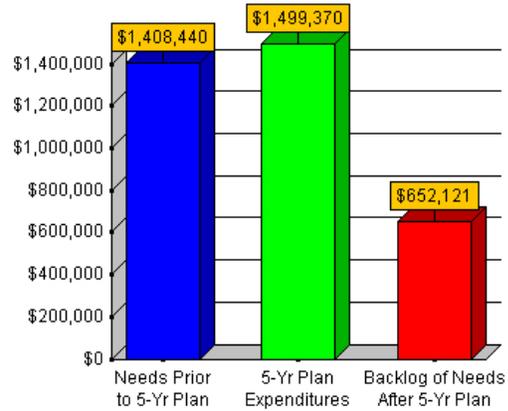
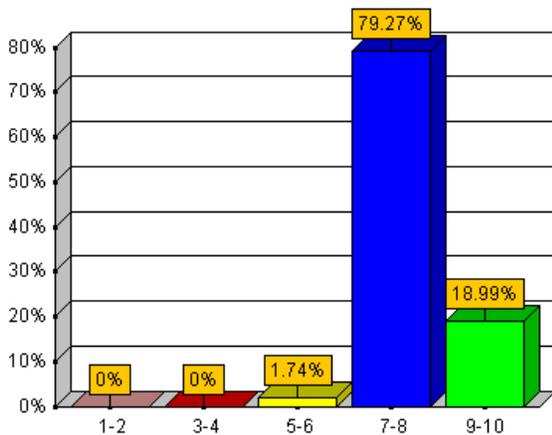


Figure 9

Another evaluation was conducted on the premise of allotting \$400,000 per year for all five years, resulting in an overall expenditure of \$2,000,000. The conclusion was the suggested rehabilitation of 64 miles or 67 percent using routine maintenance of crack sealing, surface treatments of seal coating, and additional pavement resurfacing. While the funding is increased, it may be more than what the Town would need to invest. At the end of this maintenance plan, there is no backlog of roadways to be addressed. Figure 10, below, further illustrates a synopsis of this plan.

Condition After Plan



Pavement Need & Expenditure Graphic

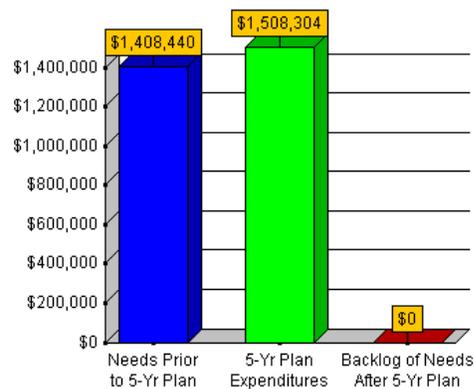


Figure 10

## ***Summary***

The Town of Lisbon has 96 miles of roadways under Township jurisdiction. The average 2016 PASER score for the Township was established at 5.8 on a scale to 10. Since then, the Town completed a two-year, \$8 million investment within their roadway system that has brought the PASER score up to 7.4. For the Town of Lisbon to maintain the current rating, or very close to it, a needs analysis was generated utilizing the WISLR five-year budget plan which determined a \$2,000,000 need or \$400,000 per year, for all maintenance and repairs requirements in the Town within the next five years.

Table 1, below, specifies characteristic costs per mile related to the assorted roadway maintenance or rehabilitation techniques. It can be observed that delaying preventative maintenance and surface treatments early in a pavement's lifecycle ultimately results in more costly pavement rehabilitation options at the end of the lifecycle.

<b>Description</b>	<b>Cost per Mile</b>
Crack Sealing	\$18,000
Seal Coating	\$64,000
Resurfacing	\$280,000
Reconstruction	\$670,000

**Table 1**

The Five-Year Road Management Plan for both the \$300,000 per year and \$400,000 per year can be found within the appendices of this document. Please note, as previously mentioned within this plan, the roadway conditions can be very dynamic from year to year, which is why it is recommended to complete the inspection of the roadway conditions the same. The attached five-year management plans are just a suggestion. The actual projects picked from year to year should be based off of the current conditions or that years inspection.

Kunkel Engineering Group is currently under contract with the Town of Lisbon to continue with the annual reevaluating of the town roads through 2019, and will continue to provide the Town with an annual rehabilitation priority list along with cost estimates.

The Five-Year Town Road Maintenance Plan will serve as the cornerstone to facilitate the Town Board in making future decisions relative to road maintenance and priorities.

# Appendix



Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 1

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management
														Priority Classification (PMPC)
Center Oak Rd	Marshall Dr / Center Oak Rd	1320	Plain View Rd / Keesus Rd	1584	264	22	55	6		7 Single Sealcoat	680	M	59.92	LCL
Colgate Rd	North Lisbon Rd	0	CTH Q / Colgate Rd	2043	2043	22	70	7		7 Crack Sealing	2497	M	74.9	LCL
Good Hope Rd	Woodland Creek Dr / Good Hope Rd	951	Coventry Meadows Ct	3380	2429	24	70	6		7 Single Sealcoat	6800	M	80	MAJ
Good Hope Rd	Michelle Ln / Good Hope Rd	364	Meadow Ln / Good Hope Rd	487	123	22	70	6		7 Single Sealcoat	316	M	80	MAJ
Good Hope Rd	Ridgewood Rd / Good Hope Rd	0	Maple Ave / Good Hope Rd	686	686	24	70	4		9 Resurfacing	15696	C	57.14	MAJ
High Rd	CTH K / CTH KF	0	Richmond Rd	634	634	22	70	5		6 Sealcoat with Patching	3238	M	49.93	LCL
Hillside Rd	North Lisbon Rd	0	Bittersweet Dr	4435	4435	24	70	6		7 Single Sealcoat	12417	M	80	MAJ
Hillside Rd	Plain View Rd	450	Watersedge Dr	4180	3730	24	70	6		7 Single Sealcoat	10691	M	80	MAJ
Hillside Rd	Watersedge Dr	0	North Lisbon Rd	1100	1100	24	70	6		7 Single Sealcoat	3079	M	80	MAJ
Hillside Rd	Plain View Rd	0	Watersedge Dr	450	450	24	70	6		7 Single Sealcoat	1290	M	80	MAJ
Lake Five Rd	Hickory Rd	0	CTH Q / Sherman Rd	3062	3062	22	65	7		7 Crack Sealing	3742	M	74.9	LCL
Lake Five Rd	Perennial Ter	418	Hickory Rd	3063	2645	22	70	7		7 Crack Sealing	3232	M	74.9	LCL
Lake Five Rd	Twin Pine Dr	0	Red Fox Run	1486	1486	22	70	7		7 Crack Sealing	1816	M	74.9	LCL
Lake Five Rd	Perennial Ter	211	Red Fox Run	418	207	22	65	7		7 Crack Sealing	253	M	74.9	LCL
Maple Ave	Northview Dr / Maple Ave	0	Johanssen Ct / Maple Ave	370	370	24	70	5		7 Sealcoat with Patching	2095	M	66.67	MIN
Maple Ave	Northview Dr / Maple Ave	475	Sussex Preserve Blvd / Maple Ave	634	159	20	55	5		6 Sealcoat with Patching	741	M	66.67	MIN
Maple Ave	CTH K	0	Northview Dr / Maple Ave	1320	1320	24	70	4		9 Resurfacing	31240	C	57.14	MIN
Maple Ave	Craven Dr / Maple Ave	370	Overland Dr / Overland Rd / Maple Ave	860	490	24	70	5		6 Sealcoat with Patching	2720	M	49.93	LCL
Mary Hill Rd	Katesbridge Dr / Walnut Rd / Mary Hill Rd	528	CTH VV / Mary Hill Rd	3290	2762	24	65	6		7 Single Sealcoat	7917	M	59.92	LCL
Mary Hill Rd	Richmond Rd	0	Katesbridge Dr / Walnut Rd / Mary Hill Rd	2693	2693	24	65	6		7 Single Sealcoat	7719	M	59.92	LCL
Mary Hill Rd	Katesbridge Dr / Walnut Rd / Mary Hill Rd	0	CTH VV / Mary Hill Rd	528	528	27	70	6		7 Single Sealcoat	1689	M	59.92	LCL
North Lisbon Rd	North Rd	0	Hillside Rd	5491	5491	22	70	7		7 Crack Sealing	6711	M	74.9	MIN
Norwauk Rd (2)	River Ln	0	Norwauk Ct / Norwauk Rd (1)	4436	4436	24	70	7		7 Crack Sealing	17743	M	49.9	LCL
Plain View Rd	STH 164	5438	Lake Five Rd	8026	2588	24	70	6		7 Single Sealcoat	7418	M	80	LCL
Plain View Rd	CTH V / Town Line Rd	0	Plainview Pkwy	2217	2217	20	65	6		7 Single Sealcoat	5369	M	80	LCL
Plain View Rd	Lake Five Rd	1003	Center Oak Rd / Keesus Rd	2270	1267	24	70	6		7 Single Sealcoat	3631	M	80	LCL
Plain View Rd	Kathleen Ave / Plain View Rd	0	Hillside Rd	1003	1003	24	70	6		7 Single Sealcoat	2874	M	80	LCL
Plain View Rd	Lake Five Rd	0	Center Oak Rd / Keesus Rd	1003	1003	20	65	6		7 Single Sealcoat	2428	M	80	LCL
Plain View Rd	Tamarack Rd / Plain View Rd	0	Maple Ave / Plain View Rd	5281	5281	22	70	5		6 Sealcoat with Patching	27578	M	66.67	LCL
Plain View Rd	Plainview Pkwy	0	Tamarack Rd / Plain View Rd	1848	1848	20	55	5		6 Sealcoat with Patching	8828	M	66.67	LCL
Richmond Rd	Crossover STH 164 / Richmond Rd	970	CTH K / CTH MD	8322	7352	22	70	7		7 Crack Sealing	8985	M	74.9	LCL
Ridge Field Dr	Hidden Oaks Dr	0	Hillside Rd	4647	4647	24	65	7		7 Crack Sealing	18588	M	49.9	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 1

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Tomahawk Dr	Hillside Rd	0	Bittersweet Dr	5755	5755	22	65	7	7	Crack Sealing	21100	M	49.9	LCL
Town Line Rd	CTH K / CTH V / Lisbon Rd / Town Line Rd	0	Weyer Rd / Town Line Rd	1056	1056	22	70	5	6	Sealcoat with Patching	5396	M	49.93	LCL
Twin Pine Cir	Perennial Ter	0	Perennial Ter	5285	5285	24	70	7	7	Crack Sealing	21139	M	49.9	LCL
Weyer Rd	Weyer Rd	106	Town Line Rd / Weyer Rd	2112	2006	20	70	7	7	Crack Sealing	2228	M	74.9	LCL
Woodside Rd	Plain View Rd / Woodside Rd	0	North Lisbon Rd	5650	5650	22	70	7	7	Crack Sealing	6905	M	74.9	LCL

16.76 Miles

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 2

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Ainsworth Rd	CTH KE / Winkleman Rd / Ainsworth Rd	1320	Basham Ln	4805	3485	24	55	7		7 Crack Sealing	13939	M	49.9	LCL
Batterjohn Dr	CTH VV / Stonehouse Dr	0	CTH MD / Merton Oaks Dr	2252	2252	27	70	7		7 Crack Sealing	10134	M	49.9	LCL
Beacon Hills Dr	CTH VV / Thousand Oak Dr	0	Termini	1900	1900	22	65	7		7 Crack Sealing	6966	M	49.9	LCL
Bittersweet Dr	Crestwood Dr	158	Hillside Rd	2587	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Blue Heron Dr	Hillside Rd	0	Tomahawk Dr	3379	3379	24	65	7		7 Crack Sealing	13515	M	49.9	LCL
Bracklyn Dr	Ridge Dr	0	Katesbridge Dr	3032	3032	30	70	7		7 Crack Sealing	15159	M	49.9	LCL
Carlene Dr	Termini	576	James Dr	2836	2060	24	65	7		7 Crack Sealing	8239	M	49.9	LCL
Crestwood Dr	Termini	0	Bittersweet Dr	4370	4370	24	65	7		7 Crack Sealing	17479	M	49.9	LCL
Five Iron Way	Pitching Wedge Ct / Woodside Rd	0	Termini	2217	2217	24	70	7		7 Crack Sealing	8868	M	49.9	LCL
Green Meadow Rd	Ainsworth Rd	0	Termini	1795	1795	24	70	7		7 Crack Sealing	7179	M	49.9	LCL
Hanover Hill Rd (1)	Bantry Rd / Hanover Hill Rd (2)	0	Hanover Hill Rd (2)	1954	1954	24	65	7		7 Crack Sealing	7815	M	49.9	LCL
Hanover Hill Rd (2)	CTH K / Walnut Grove Dr	0	Bantry Rd / Hanover Hill Rd (1)	2429	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Hillview Dr	Termini	0	Lake Dr	2429	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Howard Ln	STH 164	158	Hillside Rd	2376	2218	22	65	7		7 Crack Sealing	8131	M	49.9	LCL
Howard's Pass	Hazel's Way / Phyllis Way	0	Denton's Run / Kettle Cove Ln	1658	1658	24	65	7		7 Crack Sealing	6631	M	49.9	LCL
Indian Head Dr	Ski View Dr	0	Mountain Meadows Dr W	1848	1848	24	65	7		7 Crack Sealing	7392	M	49.9	LCL
Jolyn Dr	North Lisbon Rd	0	Termini	1995	1995	24	70	7		7 Crack Sealing	7980	M	49.9	LCL
Kettle Cove Ln	Denton's Run / Howard's Pass	306	Thousand Oak Dr	2629	2323	24	70	7		7 Crack Sealing	9291	M	49.9	LCL
Lake Dr	Termini	0	CTH VV	2059	2059	22	65	7		7 Crack Sealing	7549	M	49.9	LCL
Laura Way	Carlene Dr	0	Jessica Way	1795	1795	24	65	7		7 Crack Sealing	7179	M	49.9	LCL
McKerrow Dr	CTH K	0	Termini	3063	3063	24	65	7		7 Crack Sealing	12252	M	49.9	LCL
Monticello Dr	Mt Vernon Dr	0	Mt Vernon Dr	1584	1584	24	70	7		7 Crack Sealing	6336	M	49.9	LCL
Mount Du Lac Dr	Mountain Meadows Dr W	0	Mountain Shadows Dr	2323	2323	24	65	7		7 Crack Sealing	9291	M	49.9	LCL
Mt Vernon Dr	Termini	0	CTH Q	3696	3696	24	65	7		7 Crack Sealing	14784	M	49.9	LCL
North Hill Dr	Termini	0	Richmond Rd	2323	2323	24	65	7		7 Crack Sealing	9291	M	49.9	LCL
North Rd	North Lisbon Rd	0	Crooked Bridge Dr	2006	2006	22	70	7		7 Crack Sealing	7354	M	49.9	LCL
Perennial Ter	Lake Five Rd	0	Termini	2534	2534	24	65	7		7 Crack Sealing	10135	M	49.9	LCL
Quarry Corners Pkwy	Commerce Centre Dr	0	CTH K	2007	2007	28	65	7		7 Crack Sealing	10524	M	49.9	LCL
Quarry Corners Pkwy	Commerce Centre Dr	2007	CTH K	2165	158	44	65	7		7			49.9	LCL
Ridge Dr	Hillview Dr	211	Katesbridge Dr	2598	2387	30	70	7		7 Crack Sealing	11934	M	49.9	LCL
Walnut Grove Dr	Ainsworth Rd	0	CTH K / Hanover Hill Rd (2)	2746	2746	24	70	7		7 Crack Sealing	10983	M	49.9	LCL
Walnut Rd	Katesbridge Dr / Mary Hill Rd	0	Termini	2323	2323	22	65	7		7 Crack Sealing	8517	M	49.9	LCL
Whitewater Dr	Norwauk Rd (2)	0	Norwauk Rd (2)	1901	1901	24	70	7		7 Crack Sealing	7603	M	49.9	LCL

14.52 Miles

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 3

Muni:	LISBON (T)					January 3, 2018
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management
														Priority Classification (PMPC)
Aberdeen Dr	McKerrow Dr		Seven Stones Dr / Aberdeen Dr	1108	1108	24	70	7		7 Crack Sealing	4431	M	49.9	LCL
Aberdeen Dr	Cheviot Dr	158	Seven Stones Dr / Aberdeen Dr	779	621	24	70	7		7 Crack Sealing	2484	M	49.9	LCL
Adams Ct	Ridge Dr		Termini	512	512	30	70	7		7 Crack Sealing	2559	M	49.9	LCL
Ainsworth Rd	Green Meadow Rd	1584	CTH MD / Ainsworth Rd	2019	435	24	70	7		7 Crack Sealing	1740	M	49.9	LCL
Ardeevin Ct	Batterjohn Dr		Termini	661	661	27	70	7		7 Crack Sealing	2974	M	49.9	LCL
Argyle Dr	Termini		Beacon Hills Dr	1320	1320	22	65	7		7 Crack Sealing	4839	M	49.9	LCL
Arrowhead Dr	Termini		Carlene Dr	264	264	24	65	7		7 Crack Sealing	1056	M	49.9	LCL
Bark Rd	Norwauk Rd (2)		Termini	581	581	24	70	7		7 Crack Sealing	2323	M	49.9	LCL
Bay Ct	Watersedge Dr		Termini	327	327	24	70	7		7 Crack Sealing	1308	M	49.9	LCL
Bittersweet Ct	Bittersweet Dr		Termini	211	211	24	65	7		7 Crack Sealing	843	M	49.9	LCL
Bittersweet Dr	Blue Heron Dr		Tomahawk Dr	792	792	24	65	7		7 Crack Sealing	3168	M	49.9	LCL
Boden Ln	Glen Ridge Rd	264	Richmond Rd	1584	1320	24	70	7		7 Crack Sealing	5280	M	49.9	LCL
Boden Ln	Glen Ridge Rd		Richmond Rd	264	264	24	70	7		7 Crack Sealing	1056	M	49.9	LCL
Brandt Cir	Termini		Beacon Hills Dr	317	317	24	65	7		7 Crack Sealing	1267	M	49.9	LCL
Century Ct	Termini		Stonefield Ct	581	581	24	65	7		7 Crack Sealing	2323	M	49.9	LCL
Clearview Dr	Blue Heron Dr	211	Termini	634	423	24	65	7		7 Crack Sealing	1692	M	49.9	LCL
Clearview Dr	Blue Heron Dr		Termini	211	211	24	65	7		7 Crack Sealing	843	M	49.9	LCL
Commerce Centre Dr	Betker Dr		Duplainville Rd	1263	1263	24	70	7		7 Crack Sealing	5052	M	49.9	LCL
Commerce Centre Dr	Quarry Corners Pkwy		Betker Dr	422	422	28	65	7		7 Crack Sealing	1968	M	49.9	LCL
Copper Ct	Twin Pine Cir		Termini	353	353	24	70	7		7 Crack Sealing	1411	M	49.9	LCL
Coventry Meadows Ct	Good Hope Rd		Termini	631	631	24	70	7		7 Crack Sealing	2523	M	49.9	LCL
Crest Dr	Lake Dr		Termini	1003	1003	24	65	7		7 Crack Sealing	4011	M	49.9	LCL
Deerfield Ct	Hidden Oaks Dr		Termini	422	422	24	65	7		7 Crack Sealing	1687	M	49.9	LCL
Denton's Run	Termini		Howard's Pass / Kettle Cove Ln	1145	1145	24	65	7		7 Crack Sealing	4579	M	49.9	LCL
Elizabeth Dr	Jessica Way		Termini	475	475	24	65	7		7 Crack Sealing	1899	M	49.9	LCL
Emerald Fields Ct	Meadow Ridge Dr		Termini	370	370	24	65	7		7 Crack Sealing	1479	M	49.9	LCL
Fanad Ct	Batterjohn Dr		Termini	788	788	27	70	7		7 Crack Sealing	3546	M	49.9	LCL
Fieldcrest Cir	Perennial Ter		Termini	317	317	24	70	7		7 Crack Sealing	1267	M	49.9	LCL
Fox Hollow Dr	Termini		Termini	1478	1478	24	65	7		7 Crack Sealing	5911	M	49.9	LCL
Glen Ridge Ct	Glen Ridge Rd		Termini	845	845	24	70	7		7 Crack Sealing	3379	M	49.9	LCL
Glen Ridge Rd	Glen Ridge Ct	105	Richmond Rd	1267	1162	24	70	7		7 Crack Sealing	4647	M	49.9	LCL
Glen Ridge Rd	Termini		Glen Ridge Ct	317	317	24	70	7		7 Crack Sealing	1267	M	49.9	LCL
Glen Ridge Rd	Glen Ridge Ct		Boden Ln	105	105	24	70	7		7 Crack Sealing	420	M	49.9	LCL
Hanover Hill Ct	Hanover Hill Rd (2)		Termini	422	422	24	65	7		7 Crack Sealing	1687	M	49.9	LCL
Hawksview Ct	Twin Pine Cir		Termini	630	630	24	70	7		7 Crack Sealing	2520	M	49.9	LCL
Hazel's Way	Denton's Run		Howard's Pass / Phyllis Way	935	935	24	65	7		7 Crack Sealing	3739	M	49.9	LCL
Hermitage Dr	Termini		Termini	1320	1320	24	65	7		7 Crack Sealing	5280	M	49.9	LCL
Hidden Oaks Dr	Termini		Maple Ave / Hidden Oaks Dr	1373	1373	24	65	7		7 Crack Sealing	5491	M	49.9	LCL
High Point Dr	Mountain Meadows Dr W		Termini	845	845	24	65	7		7 Crack Sealing	3379	M	49.9	LCL
Highland Presever Ct	Termini		Crestwood Dr	619	619	24	65	7		7 Crack Sealing	2475	M	49.9	LCL
Hillcrest Cir	Termini		Top -O- Hill Dr	634	634	22	65	7		7 Crack Sealing	2323	M	49.9	LCL
Hillside Rd	Termini		Wildwood Way	210	210	24	70	7		7 Crack Sealing	840	M	49.9	MAJ
Hilltop Ct	Termini		Ridge Field Dr	528	528	24	65	7		7 Crack Sealing	2112	M	49.9	LCL
Howard Ln	STH 164		Hillside Rd	158	158	22	70	7		7 Crack Sealing	579	M	49.9	LCL
Hyde Park Dr	Mt Vernon Dr		Termini	211	211	24	65	7		7 Crack Sealing	843	M	49.9	LCL
Inverness Dr	Termini		McKerrow Dr	581	581	24	65	7		7 Crack Sealing	2323	M	49.9	LCL
James Dr	Carlene Dr		Termini	264	264	24	70	7		7 Crack Sealing	1056	M	49.9	LCL
Jean Ct	Termini		Sharon Dr	317	317	22	65	7		7 Crack Sealing	1161	M	49.9	LCL
Jessica Ct	Termini		Jessica Way	264	264	24	65	7		7 Crack Sealing	1056	M	49.9	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 3

Muni:	LISBON (T)					January 3, 2018
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management	
														Priority Classification (PMPC)	
Justins Way	Kettle Cove Ln	0	Termini	327	327	24	70	7		7	Crack Sealing	1308	M	49.9	LCL
Katesbridge Dr	Bracklyn Dr	0	Mary Hill Rd / Walnut Rd	1043	1043	30	70	7		7	Crack Sealing	5214	M	49.9	LCL
Katesbridge Dr	Ridge Dr	0	Termini	554	554	30	70	7		7	Crack Sealing	2769	M	49.9	LCL
Katesbridge Dr	Termini	0	Bracklyn Dr	388	388	27	70	7		7	Crack Sealing	1746	M	49.9	LCL
Kathleen Ave	Kathleen Ct	370	Plain View Rd	1689	1319	22	65	7		7	Crack Sealing	4836	M	49.9	LCL
Kathleen Ave	Ridge Field Dr	0	Sharon Dr	1004	1004	24	65	7		7	Crack Sealing	4015	M	49.9	LCL
Kathleen Ct	Kathleen Ave	0	Termini	422	422	24	65	7		7	Crack Sealing	1687	M	49.9	LCL
Kettle Cove Ln	Denton's Run / Howard's Pass	0	Meadowwood Ln	306	306	24	65	7		7	Crack Sealing	1224	M	49.9	LCL
L-Dee Ln	North Lisbon Rd	0	Termini	634	634	24	65	7		7	Crack Sealing	2535	M	49.9	LCL
Lakeview Dr	Lake Dr	0	Top -O- Hill Dr	1426	1426	24	65	7		7	Crack Sealing	5703	M	49.9	LCL
Marion Ct	North Lisbon Rd	0	Termini	528	528	24	70	7		7	Crack Sealing	2112	M	49.9	LCL
Marshall Ct	Marshall Dr / Twin Pine Cir	0	Termini	479	479	24	70	7		7	Crack Sealing	1915	M	49.9	LCL
Marshall Dr	Marshall Ct / Twin Pine Cir	0	Termini	355	355	24	70	7		7	Crack Sealing	1419	M	49.9	LCL
Meadow Ridge Dr	Perennial Ter	0	Termini	1161	1161	24	65	7		7	Crack Sealing	4644	M	49.9	LCL
Meadowview Ct	Twin Pine Cir	0	Termini	448	448	24	70	7		7	Crack Sealing	1791	M	49.9	LCL
Meadowwood Ln	Woodland Oaks Dr	1293	Kettle Cove Ln	2482	1189	22	70	7		7	Crack Sealing	4359	M	49.9	LCL
Meider Dr	Termini	0	Tomahawk Dr	211	211	22	65	7		7	Crack Sealing	772	M	49.9	LCL
Mountain Meadows Dr W	Indian Head Dr	0	Termini	1056	1056	24	65	7		7	Crack Sealing	4224	M	49.9	LCL
Norwauk Ct	Norwauk Rd (1) / Norwauk Rd (2)	0	Termini	264	264	24	70	7		7	Crack Sealing	1056	M	49.9	LCL
Norwauk Rd (1)	Norwauk Rd (2)	0	Norwauk Ct / Norwauk Rd (2)	581	581	24	70	7		7	Crack Sealing	2323	M	49.9	LCL
Perennial Ter	Twin Pine Cir	0	Twin Pine Cir	1511	1511	24	70	7		7	Crack Sealing	6043	M	49.9	LCL
Perennial Ter	Twin Pine Cir	0	Lake Five Rd	399	399	24	70	7		7	Crack Sealing	1596	M	49.9	LCL
Pewaukee Rd	Termini / Pewaukee Rd	1953	Rocky Hollow Pass / Pewaukee Rd	2164	211	20	70	7		7	Crack Sealing	702	M	49.9	LCL
Phyllis Way	Lake Five Rd	0	Hazel's Way / Howard's Pass	364	364	24	70	7		7	Crack Sealing	1455	M	49.9	LCL
Red Fox Run	Lake Five Rd	0	Termini	739	739	24	65	7		7	Crack Sealing	2955	M	49.9	LCL
Richmond Rd	Crossover STH 164 / Richmond Rd	0	North Hill Dr / Richmond Rd	970	970	22	70	4		9	Resurfacing	15303	C	42.8	LCL
Ridge Dr	Katesbridge Dr	0	Ski View Dr	385	385	30	70	7		7	Crack Sealing	1924	M	49.9	LCL
Ridge Dr	Hillview Dr	0	Adams Ct	211	211	30	70	7		7	Crack Sealing	1054	M	49.9	LCL
Ridge Field Ct	Termini	0	Ridge Field Dr	528	528	24	65	7		7	Crack Sealing	2112	M	49.9	LCL
Sagamore Dr	Termini	0	Termini	369	369	24	65	7		7	Crack Sealing	1476	M	49.9	LCL
Seven Iron Ct	Five Iron Way	0	Termini	528	528	24	70	7		7	Crack Sealing	2112	M	49.9	LCL
Seven Stones Dr	Aberdeen Dr / Seven Stones Dr	279	Crossover STH 164	1225	946	24	70	7		7	Crack Sealing	3783	M	49.9	LCL
Seven Stones Dr	William Dr	631	Crossover STH 164	733	102	32	70	7		7	Crack Sealing	543	M	49.9	LCL
Seven Stones Dr	William Dr	553	Crossover STH 164	631	78	32	70	7		7	Crack Sealing	415	M	49.9	LCL
Sharon Dr	Termini	0	Kathleen Ave	1056	1056	22	65	7		7	Crack Sealing	3871	M	49.9	LCL
St Patricks Ct	Bracklyn Dr	0	Termini	341	341	30	70	7		7	Crack Sealing	1704	M	49.9	LCL
Stepping Stones Way	Seven Stones Dr	0	Cheviot Dr / Stepping Stone Way	634	634	24	70	7		7	Crack Sealing	2535	M	49.9	LCL
Steven St	Termini	0	Kathleen Ave	211	211	20	65	7		7	Crack Sealing	702	M	49.9	LCL
Stonefield Ct	Ridge Field Dr / Stonefield Dr	0	Termini	580	580	24	65	7		7	Crack Sealing	2319	M	49.9	LCL
Stonefield Dr	Overland Dr / Stonefield Dr	236	Ridge Field Dr / Stonefield Ct	975	739	24	65	7		7	Crack Sealing	2955	M	49.9	LCL
Stonehouse Dr	Batterjohn Dr / CTH VV	0	Termini	400	400	24	70	7		7	Crack Sealing	1599	M	49.9	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 3

Muni:	LISBON (T)					January 3, 2018
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management	
														Priority Classification (PMPC)	
Sutton Ct	Termini	0	Hanover Hill Rd (2) / Sutton Dr	211	211	24	65	7		7	Crack Sealing	843	M	49.9	LCL
Sutton Dr	Whistling Hill Cir / Sutton Dr	293	Hanover Hill Rd (2) / Sutton Ct	557	264	24	65	7		7	Crack Sealing	1056	M	49.9	LCL
Tamnamore Dr	Batterjohn Dr	0	Termini	983	983	27	70	7		7	Crack Sealing	4423	M	49.9	LCL
Teri Ln	Walnut Grove Dr	0	Termini	211	211	24	70	7		7	Crack Sealing	843	M	49.9	LCL
Tomahawk Ct	Tomahawk Dr	0	Termini	581	581	24	65	7		7	Crack Sealing	2323	M	49.9	LCL
Tomahawk Dr	Blue Heron Dr	1109	Bittersweet Dr	1901	792	24	65	7		7	Crack Sealing	3168	M	49.9	LCL
Top -O- Hill Dr	Termini	0	Lakeview Dr	1320	1320	22	65	7		7	Crack Sealing	4839	M	49.9	LCL
Twin Pine Dr	Twin Pine Cir	0	Lake Five Rd	283	283	24	70	7		7	Crack Sealing	1131	M	49.9	LCL
Walnut Grove Ct	Walnut Grove Dr	0	Termini	528	528	24	70	7		7	Crack Sealing	2112	M	49.9	LCL
Watersedge Dr	Hillside Rd	0	Termini	1381	1381	24	70	7		7	Crack Sealing	5523	M	49.9	LCL
William Dr	McKerrow Dr	0	Aberdeen Dr / William Dr	370	370	24	65	7		7	Crack Sealing	1479	M	49.9	LCL
Windy Pass Dr	North Hill Dr	0	Termini	845	845	24	65	7		7	Crack Sealing	3379	M	49.9	LCL
Windy Pass Dr	Termini	0	North Hill Dr	739	739	24	65	7		7	Crack Sealing	2955	M	49.9	LCL
Wooded Ct	Hillview Dr	0	Termini	475	475	24	65	7		7	Crack Sealing	1899	M	49.9	LCL
Wrendale Ct	Wrendale Dr	0	Termini	422	422	24	65	7		7	Crack Sealing	1687	M	49.9	LCL
Wrendale Dr	Termini	0	Fox Hollow Dr	845	845	24	65	7		7	Crack Sealing	3379	M	49.9	LCL
Yarotta Cir	Termini	0	Termini	1003	1003	24	65	7		7	Crack Sealing	4011	M	49.9	LCL

12.61 Miles

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 4

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management	
														Priority Classification (PMPC)	
Aberdeen Ct	Termini	0	Aberdeen Dr	211	211	24	70	6		7	Single Sealcoat	1166	M	39.92	LCL
Bantry Rd	Termini	0	Hanover Hill Rd (1) / Hanover Hill Rd (2)	317	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Bayberry Ct	Bayberry Dr	0	Termini	370	370	22	65	6		7	Single Sealcoat	1857	M	39.92	LCL
Bayberry Dr	CTH JK	0	CTH KF	1636	1636	22	65	6		7	Single Sealcoat	8216	M	39.92	LCL
Betker Dr	Commerce Centre Dr	0	Duplainville Rd	1848	1848	24	70	6		7	Single Sealcoat	10225	M	39.92	LCL
Cheviot Dr	Aberdeen Dr	0	Bluestem Ct / Cheviot Dr	317	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Clubhouse Cir	Woodside Rd	0	Termini	686	686	24	70	6		7	Single Sealcoat	3658	M	39.92	LCL
Commerce Centre Dr	Quarry Corners Pkwy	422	Betker Dr	739	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Cordell Dr	North Lisbon Rd	0	Termini	528	528	24	70	6		7	Single Sealcoat	2921	M	39.92	LCL
Country Ct	Riverview Dr (2)	0	Termini	211	211	24	65	6		7	Single Sealcoat	1166	M	39.92	LCL
Dubnicka Dr	Plainview Pkwy	0	CTH V / Town Line Rd	1109	1109	22	70	8		7	Crack Sealing	4065	M	49.9	LCL
E-Jay Ln	Termini	0	North Lisbon Rd	739	739	24	65	6		7	Single Sealcoat	4087	M	39.92	LCL
East View Dr	Weyer Rd	0	Termini	2535	2535	24	70	6		7	Single Sealcoat	14027	M	39.92	LCL
Eddy Ct	River Ln	0	Termini	264	264	24	70	6		7	Single Sealcoat	1443	M	39.92	LCL
Elmwood Rd	North Lisbon Rd	0	Termini	898	898	24	70	6		7	Single Sealcoat	4907	M	39.92	LCL
Garnnet Ct	Center Oak Rd	0	Termini	1056	1056	24	65	6		7	Single Sealcoat	5843	M	39.92	LCL
Hickory Nut Ln	Bayberry Dr	0	Termini	158	158	22	65	6		7	Single Sealcoat	793	M	39.92	LCL
Hoag Ln	Dubnicka Dr	0	Termini	898	898	22	70	8		7	Crack Sealing	3292	M	49.9	LCL
James Dr	Termini	0	Carlene Dr	264	264	24	70	6		7	Single Sealcoat	1460	M	39.92	LCL
Katherine Ct	Termini	0	Plainview Pkwy	264	264	22	70	8		7	Crack Sealing	967	M	49.9	LCL
Maple Ave	Overland Dr / Overland Rd / Maple Ave	422	Maple Ave	2052	1630	22	65	3		9	Mill and Overlay	48350	C	37.45	LCL
N Face Ct	Perennial Ter	0	Termini	428	428	24	70	8		7	Crack Sealing	1711	M	49.9	LCL
North Rd	Crooked Bridge Dr	0	CTH Q	3485	3485	22	70	6		7	Single Sealcoat	17732	M	39.92	LCL
Norwauk Rd (2)	Sennott Ct / Sennott Dr	1053	River Ln	1528	475	24	70	6		7	Single Sealcoat	2595	M	39.92	LCL
Pitching Wedge Ct	Five Iron Way / Woodside Rd	0	Termini	422	422	24	70	6		7	Single Sealcoat	2250	M	39.92	LCL
Plainview Pkwy	Dubnicka Dr	0	Dubnicka Dr	1003	1003	22	70	8		7	Crack Sealing	3676	M	49.9	LCL
Plainview Pkwy	Dubnicka Dr	0	Plain View Rd	1109	1109	18	70	8		7	Crack Sealing	5457	M	49.9	LCL
Plainview Pkwy	Dubnicka Dr	1109	Plain View Rd	1690	581	22	70	8		7			M	49.9	LCL
Preserve Pl	Termini	0	Wooded Ridge Trl	581	581	24	65	6		7	Single Sealcoat	3214	M	39.92	LCL
Quail Holw	Red Wing Rd	0	Termini	211	211	24	65	6		7	Single Sealcoat	1166	M	39.92	LCL
Red Wing Rd	Hickory Rd	0	Termini	1109	1109	24	65	6		7	Single Sealcoat	6135	M	39.92	LCL
River Ln	Norwauk Rd (2)	0	CTH Q / Briar Ridge Ln	634	634	24	70	6		7	Single Sealcoat	3464	M	39.92	LCL
River's Hollow Ct	Riverview Dr (1) / Riverview Dr (2)	0	Termini	211	211	24	65	6		7	Single Sealcoat	1166	M	39.92	LCL
Riverview Ct	Riverview Dr (2)	0	Termini	317	317	24	65	6		7	Single Sealcoat	1753	M	39.92	LCL
Riverview Dr (1)	River's Hollow Ct / Riverview Dr (2)	0	Riverview Dr (2)	475	475	24	65	6		7	Single Sealcoat	2626	M	39.92	LCL
Riverview Dr (2)	STH 164	0	River's Hollow Ct / Riverview Dr (1)	2904	2904	24	65	6		7	Single Sealcoat	16068	M	39.92	LCL
Roberta Dr	Termini	0	CTH K	1267	1267	24	70	6		7	Single Sealcoat	7009	M	39.92	LCL
Rudy Ct	Termini	0	Hoag Ln	475	475	22	70	8		7	Crack Sealing	1741	M	49.9	LCL
Sennott Dr	Riverview Dr (2)	0	Norwauk Rd (2) / Sennott Ct	370	370	24	65	6		7	Single Sealcoat	2045	M	39.92	LCL
Susan Pl	Termini	0	Plainview Pkwy	898	898	22	70	8		7	Crack Sealing	3292	M	49.9	LCL
Sweetbriar Ln	Hickory Rd	0	Termini	1162	1162	24	65	6		7	Single Sealcoat	6428	M	39.92	LCL
Tamarack Rd	North Lisbon Rd	0	Susan Pl	2693	2693	18	65	6		7	Single Sealcoat	11130	M	39.92	LCL
Twin Pine Cir	Termini	0	Perennial Ter	634	634	24	70	8		7	Crack Sealing	2535	M	49.9	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 4

Muni:	LISBON (T)					January 3, 2018
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Watersedge Ct	Watersedge Dr	0	Termini	290	290	24	70	8		7 Crack Sealing	1159	M	49.9	LCL
Wedgewood Glen	Termini	0	Termini	845	845	24	70	6		7 Single Sealcoat	4674	M	39.92	LCL
West View Dr	Wedgewood Glen	0	East View Dr	1162	1162	24	70	6		7 Single Sealcoat	6428	M	39.92	LCL
Wooded Ridge Trl	North Lisbon Rd	0	Termini	3009	3009	24	65	6		7 Single Sealcoat	16649	M	39.92	LCL

8.15 Miles

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
Year 5

Muni:	LISBON (T)	January 3, 2018				
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management
														Priority Classification (PMPC)
Arrowhead Dr	Carlene Dr		0 CTH KF	1743	1743	24	65	6		7 Sealcoat with Patching	70301	M	33.27	LCL
Beverly Ln	Hillside Rd		0 Micah Rd	1152	1152	24	70	8		7 Crack Sealing	4608	M	49.9	LCL
Carlene Dr	Termini		0 Jessica Way	576	576	24	70	8		7 Crack Sealing	2304	M	49.9	LCL
Good Hope Rd	Crossover STH 164		0 Hillside Rd	898	898	24	70	7		7 Single Sealcoat	2753	M	80	MAJ
Hansen Dr	Hickory Chasm Dr		0 Termini	1478	1478	22	70	8		7 Crack Sealing	5418	M	49.9	LCL
Hickory Chasm Dr	Termini		0 Woodland Oaks Dr	1162	1162	24	70	8		7 Crack Sealing	4647	M	49.9	LCL
Hickory View Ln	Termini	561	Hillside Rd	686	125	24	70	8		7 Crack Sealing	499	M	49.9	LCL
Hillside Rd	Good Hope Rd		0 Hickory View Ln	4646	4646	24	70	7		7 Single Sealcoat	13008	M	80	MAJ
Hillside Rd	Bittersweet Dr		0 CTH Q / Hillside Rd	1373	1373	24	70	7		7 Crack Sealing	1830	M	0	MAJ
Hillside Rd	Hillside Ln	1214	Hickory View Ln	1584	370	24	70	7		7 Single Sealcoat	1059	M	80	MAJ
Hillside Rd	Hickory View Ln		0 Plain View Rd	317	317	28	70	7		7 Single Sealcoat	986	M	80	MAJ
Jay Ln	STH 164		0 STH 164	3062	3062	22	70	8		7 Crack Sealing	11226	M	49.9	LCL
Jessica Way	CTH K		0 Carlene Dr	4594	4594	24	65	6		7 Sealcoat with Patching	185281	M	33.27	LCL
Lake Five Rd	CTH MD		0 Plain View Rd	7339	7339	22	70	8		7 Crack Sealing	8969	M	74.9	LCL
Lake Five Rd	Plain View Rd		0 Twin Pine Dr	3741	3741	22	70	8		7 Crack Sealing	4572	M	74.9	LCL
Lauren Dr	Beverly Ln		0 Termini	650	650	24	70	8		7 Crack Sealing	2599	M	49.9	LCL
Lynndale Ln	Termini		0 Willow Creek	158	158	18	35	2		5 Add Stone+Regrade+Ditch	791	C	19.96	LCL
Maple Ave	Champeny Rd / Maple Ave	845	Prides Rd / Maple Ave	2429	1584	40	75	7		7 Joint Sealing	3238	M	0	MAJ
Meadowwood Ln	Woodland Oaks Dr		0 Kettle Cove Ln	1293	1293	22	70	8		7 Crack Sealing	4740	M	49.9	LCL
Oakdale Ln	Woodland Oaks Dr		0 Termini	422	422	22	70	8		7 Crack Sealing	1546	M	49.9	LCL
Plain View Rd	Hillside Rd		0 STH 164	2640	2640	22	70	7		7 Single Sealcoat	6981	M	80	LCL
Plain View Rd	Hillside Rd	2640	STH 164	5280	2640	22	65	7		7 Single Sealcoat	6981	M	80	LCL
Robyn Ct	Beverly Ln		0 Termini	728	728	24	75	8		7 Joint Sealing	892	M	49.9	LCL
Surrey Hill Ct	Hickory Chasm Dr		0 Termini	370	370	22	70	8		7 Crack Sealing	1356	M	49.9	LCL
Tamarack Rd	North Lisbon Rd	2693	Plain View Rd	5386	2693	22	70	8		7 Crack Sealing	9873	M	49.9	LCL
Woodland Oaks Dr	CTH VV		0 Thousand Oak Dr / White Pine Dr	2376	2376	22	70	8		7 Crack Sealing	8712	M	49.9	LCL

9.12 Miles

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
 Projects Not in Five-Year Plan

Muni: LISBON (T)  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Alta Vista Dr	Hamilton Dr / Wooded Hills Dr	0	Willowview Dr	475	475	24	65	9		8 No Action	0.00		0.0	LCL
Alta Vista Dr	Hamilton Dr / Wooded Hills Dr	475	Cherry Hill Rd	1584	1109	24	70	9		8 No Action	0.00		0.0	LCL
Alta Vista Dr	Willowview Dr	264	Cherry Hill Rd	792	528	20	65	9		8 No Action	0.00		0.0	LCL
Autumn Trl	Bayberry Dr	0	Bayberry Dr	2482	2482	22	70	10		9 No Action	0.00		0.0	LCL
Avon Ct	Termini	0	Termini	1162	1162	22	70	10		9 No Action	0.00		0.0	LCL
Bayberry Dr	CTH KF	0	CTH JK	2587	2587	22	70	10		9 No Action	0.00		0.0	LCL
Beverly Ln	Lauren Dr	211	Micah Rd	739	528	24	70	8		8 No Action	0.00		0.0	LCL
Blackthorn Ct	Termini	0	Bayberry Dr	634	634	22	70	10		9 No Action	0.00		0.0	LCL
Blossom Ln	East View Dr	0	Termini	211	211	20	55	4		4 Resurfacing	8,048.00		0.0	LCL
Bonnie Ln	Termini	0	CTH V / Town Line Rd	1003	1003	18	55	10		10 No Action	0.00		0.0	LCL
Bramble Dr	Plainview Pkwy	0	Golf View Ln	1689	1689	22	65	9		8 No Action	0.00		0.0	LCL
Brighton Ct	Termini	0	Victoria Cir (2)	792	792	24	70	8		8 No Action	0.00		0.0	LCL
Camelot Ct	Victoria Cir (2)	0	Termini	528	528	24	70	8		8 No Action	0.00		0.0	LCL
Cameron Ct	Termini	0	Thousand Oak Dr	317	317	24	70	9		8 No Action	0.00		0.0	LCL
Canterbury Ln	Termini	0	Victoria Cir (2)	317	317	24	70	8		8 No Action	0.00		0.0	LCL
Carberry St	Plain View Rd	0	Wooded Hills Dr	1689	1689	22	65	9		8 No Action	0.00		0.0	LCL
Carol Ann Ct	Peterson Rd	0	Termini	422	422	24	70	10		9 No Action	0.00		0.0	LCL
Carole Ct	Willowview Dr	0	Termini	317	317	22	65	9		8 No Action	0.00		0.0	LCL
Center Oak Rd	Plain View Rd / Keesus Rd	0	Keesus Rd / Center Oak Rd	1690	1690	24	70	10		9 No Action	0.00		0.0	LCL
Center Oak Rd	Garnet Ct	106	Keesus Rd / Center Oak Rd	317	211	22	65	10		9 No Action	0.00		0.0	LCL
Cherry Hill Rd	Valleyview Dr	0	Wooded Hills Dr	4752	4752	22	65	9		8 No Action	0.00		0.0	LCL
Chestnut Hill Rd	Woodland Creek Dr / Chestnut Hill Rd	686	Wooded Hills Dr	950	264	22	70	9		8 No Action	0.00		0.0	LCL
Chestnut Hill Rd	Wooded Hills Dr	0	CTH V / Bonnie Ln	2640	2640	22	65	9		8 No Action	0.00		0.0	LCL
Colgate Rd	North Lisbon Rd	2043	CTH Q / Colgate Rd	5702	3659	22	70	10		9 No Action	0.00		0.0	LCL
Conservancy Ct	Wildwood Way	0	Termini	857	857	24	70	9		8 No Action	0.00		0.0	LCL
Courtland Cir	Willow Creek	739	Termini	5861	5122	24	70	10		9 No Action	0.00		0.0	LCL
Coventry Ct	Victoria Cir (2)	0	Termini	317	317	24	70	8		8 No Action	0.00		0.0	LCL
Crooked Bridge Ct	Crooked Bridge Dr	0	Termini	634	634	22	70	10		9 No Action	0.00		0.0	LCL
Crooked Bridge Dr	Termini	0	North Rd	1584	1584	22	70	10		9 No Action	0.00		0.0	LCL
Duplainville Rd	Weyer Rd / Duplainville Rd	0	CTH K	3010	3010	22	70	n/a		0 n/a	0.00		0.0	LCL
Edgewood Dr	Thousand Oak Dr	0	Termini	1056	1056	24	70	9		8 No Action	0.00		0.0	LCL
Ervin Pl	Parkview Dr	0	Quarry Rd	581	581	20	55	10		10 No Action	0.00		0.0	LCL
Esker Ln	Thousand Oak Dr	0	Termini	211	211	24	65	9		8 No Action	0.00		0.0	LCL
Eyrie Dr	Termini	0	Windy Pass Dr	317	317	24	65	6		5 Sealcoat with Patching	12,780.50		0.0	LCL
Fairview Ln	Homestead Rd / Spring Hill Blvd	0	Homestead Rd	1900	1900	24	70	10		9 No Action	0.00		0.0	LCL
Fieldstone Ln	Wooded Hills Dr	0	Chestnut Hill Rd	1214	1214	18	55	9		8 No Action	0.00		0.0	LCL
Forest Hill Ln	Plainview Pkwy	0	Termini	792	792	22	65	9		8 No Action	0.00		0.0	LCL
Friess Pl	Susan Pl	0	Termini	1056	1056	22	70	10		9 No Action	0.00		0.0	LCL
Golf Ln	Willow Creek	0	Termini	317	317	18	70	10		10 No Action	0.00		0.0	LCL
Golf View Ct	Golf View Ln	0	Termini	158	158	30	65	9		8 No Action	0.00		0.0	LCL
Golf View Ln	Carberry St / Plainview Pkwy	0	Bramble Dr	1057	1057	22	65	9		8 No Action	0.00		0.0	LCL
Good Hope Rd	Hillside Rd	0	Ridgewood Rd / Good Hope Rd	3797	3797	24	70	10		10 No Action	0.00		0.0	MAJ
Good Hope Rd	Ridgewood Rd / Good Hope Rd	950	Maple Ave / Good Hope Rd	1003	53	24	70	10		10 No Action	0.00		0.0	MAJ
Good Hope Rd	Canyon Meadows Ct / Good Hope Rd	1426	Hamilton Dr / Good Hope Rd	2007	581	22	65	10		10 No Action	0.00		0.0	MAJ
Good Hope Rd	Coventry Meadows Ct	0	CTH V / CTH W / Good Hope Rd	422	422	24	70	8		8 No Action	0.00		0.0	MAJ
Hamilton Ct	Termini	0	Hamilton Dr	370	370	22	65	9		8 No Action	0.00		0.0	LCL
Hamilton Dr	Good Hope Rd	0	Alta Vista Dr / Wooded Hills Dr	1796	1796	24	65	9		8 No Action	0.00		0.0	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
 Projects Not in Five-Year Plan

Muni: LISBON (T)  
 Year: 1 2 3 4 5 Backlog  
 Budget: 300000 300000 300000 300000 300000 652121  
 Expenditures: 286800 311601 279973 255821 365175

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Heather Way	Bayberry Dr	0	Termini	634	634	22	70	10		9 No Action	0.00		0.0	LCL
Hickory Chasm Ct	Hickory Chasm Dr	0	Termini	475	475	22	70	9		8 No Action	0.00		0.0	LCL
Hickory Chasm Dr	Woodland Oaks Dr	0	Wilderness Way	2641	2641	24	70	9		8 No Action	0.00		0.0	LCL
Hickory Field Ct	Hickory Rd	0	Termini	737	737	24	70	9		8 No Action	0.00		0.0	LCL
Hickory Rd	STH 164	0	Lake Five Rd	8026	8026	22	70	10		9 No Action	0.00		0.0	MIN
Hickory Rd	Lake Five Rd	0	Hideaway Dr / Hickory Rd	2217	2217	22	70	10		9 No Action	0.00		0.0	LCL
Hickory View Ln	Termini	0	Hillside Rd	561	561	24	55	8		8 No Action	0.00		0.0	LCL
Hillside Ln	Hillside Rd	0	Termini	686	686	20	65	6		5 Sealcoat with Patching	22,936.00		0.0	LCL
Hillside Rd	Wildwood Way	0	Good Hope Rd	898	898	24	70	4		4 Resurfacing	41,496.00		0.0	MAJ
Homestead Rd	Termini	0	Fairview Ln / Spring Hill Blvd	897	897	24	70	10		9 No Action	0.00		0.0	LCL
Indian Head Dr	Termini	0	Ski View Dr	1003	1003	24	65	6		5 Sealcoat with Patching	40,332.50		0.0	LCL
Indiangrass Ln	Crossover STH 164	0	Termini	1795	1795	24	70	8		8 No Action	0.00		0.0	LCL
James Dr	Termini	0	Jessica Way	264	264	24	65	6		5 Sealcoat with Patching	10,648.00		0.0	LCL
Janet Ct	Janet Dr	0	Termini	581	581	24	65	6		5 Sealcoat with Patching	23,428.50		0.0	LCL
Janet Dr	Arrowhead Dr	0	Termini	528	528	24	65	6		5 Sealcoat with Patching	21,296.00		0.0	LCL
Jeanine Ln	Termini	0	Hamilton Dr	792	792	22	65	9		8 No Action	0.00		0.0	LCL
Jerilane Ct	Maryann's Way / Jerilane Ct	581	Courtland Cir	1373	792	24	70	10		9 No Action	0.00		0.0	LCL
Jessy Ct	Termini	0	Courtland Cir	475	475	24	70	10		9 No Action	0.00		0.0	LCL
Kettleridge Ct	Termini	0	White Oak Dr	370	370	24	70	9		8 No Action	0.00		0.0	LCL
Lakeview Ct	Lakeview Dr	0	Termini	792	792	24	65	6		5 Sealcoat with Patching	31,944.00		0.0	LCL
Lakeview Dr	Top -O- Hill Dr	0	Termini	634	634	24	65	6		5 Sealcoat with Patching	25,490.50		0.0	LCL
Lettie Ln	Willow Creek	0	Termini	211	211	24	70	10		9 No Action	0.00		0.0	LCL
Linden Ln	Fairview Ln	0	Termini	317	317	24	70	10		9 No Action	0.00		0.0	LCL
Lisbon Oaks Dr	Hickory Chasm Dr	0	Thousand Oak Dr	898	898	24	70	9		8 No Action	0.00		0.0	LCL
Longview Dr	Plain View Rd	0	Termini	2798	2798	22	70	10		9 No Action	0.00		0.0	LCL
Lynn Marie Ct	Termini	0	Peterson Rd	475	475	24	70	10		9 No Action	0.00		0.0	LCL
Lynndale Ln	Willow Creek	0	CTH JK	3432	3432	24	70	10		9 No Action	0.00		0.0	LCL
Lynwood Dr	CTH VV	0	Termini	1742	1742	22	70	10		9 No Action	0.00		0.0	LCL
Mary Ann Ct	Termini	0	Sandras Dr	317	317	22	70	10		9 No Action	0.00		0.0	LCL
Micah Rd	Hillside Rd	0	Good Hope Rd	1848	1848	24	70	10		10 No Action	0.00		0.0	LCL
Mitchell Ln	CTH F	0	Termini	423	423	24	70	4		4 Resurfacing	19,740.00		0.0	LCL
Monarch Ct	Twin Pine Cir	0	Termini	211	211	24	70	9		8 No Action	0.00		0.0	LCL
Monarch Ct	Termini	0	Termini	475	475	38	70	9		8 No Action	0.00		0.0	LCL
Mountain Meadows Dr E	Termini	0	Mountain Meadows Dr W	1162	1162	24	65	6		5 Sealcoat with Patching	46,728.00		0.0	LCL
Mountain Meadows Dr W	Termini	0	Indian Head Dr	2112	2112	24	65	6		5 Sealcoat with Patching	84,949.00		0.0	LCL
Mountain Shadows Dr	Termini	0	CTH MD	2957	2957	24	65	6		5 Sealcoat with Patching	118,932.00		0.0	LCL
North Lisbon Rd	CTH V / Town Line Rd	0	North Rd	10824	10824	22	70	10		9 No Action	0.00		0.0	MIN
Northview Ct	Termini	0	Northview Dr	686	686	22	65	10		10 No Action	0.00		0.0	LCL
Northview Dr	Maple Ave	0	Quarry Rd	1373	1373	22	55	10		10 No Action	0.00		0.0	LCL
Norwauk Rd (2)	Sennott Ct / Sennott Dr	0	River Ln	1053	1053	24	70	9		8 No Action	0.00		0.0	LCL
Oakwood Ct	Termini	0	Oakwood Rd	475	475	22	70	10		9 No Action	0.00		0.0	LCL
Oakwood Rd	Lake Five Rd	0	Termini	2692	2692	20	70	10		9 No Action	0.00		0.0	LCL
Parkview Dr	Northview Dr / Parkview Dr	0	Quarry Rd	1320	1320	22	55	10		10 No Action	0.00		0.0	LCL
Penny Ln	Termini	0	Crooked Bridge Dr	845	845	24	70	10		9 No Action	0.00		0.0	LCL
Peterson Rd	Micah Rd	0	Stonfield Dr / Peterson Rd	1056	1056	24	70	10		9 No Action	0.00		0.0	LCL
Pewaukee Rd	Rocky Hollow Pass / Pewaukee Rd	0	CTH VV / Main St / Pewaukee Rd	1954	1954	20	55	3		3 Mill and Overlay	75,116.00		0.0	LCL
Pewaukee Rd	Termini / Pewaukee Rd	0	Rocky Hollow Pass / Rd	1003	1003	20	55	3		3 Mill and Overlay	38,542.00		0.0	LCL
Plain View Rd	Maple Ave / Plain View Rd	0	Kathleen Ave / Plain View Rd	3318	3318	22	70	10		10 No Action	0.00		0.0	LCL
Plain View Rd	Maple Ave / Plain View Rd	3960	Kathleen Ave / Plain View Rd	4277	317	24	70	10		9 No Action	0.00		0.0	LCL
Plain View Rd	STH 164	0	Lake Five Rd	5438	5438	22	70	9		8 No Action	0.00		0.0	LCL

Town of Lisbon - \$300,000/Year Town Road Maintenance Plan  
 Projects Not in Five-Year Plan

Muni:	LISBON (T)					
Year:	1	2	3	4	5	Backlog
Budget:	300000	300000	300000	300000	300000	652121
Expenditures:	286800	311601	279973	255821	365175	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Plainview Pkwy	Plain View Rd	0	Carberry St / Golf View Ln	2534	2534	24	65	9		8 No Action	0.00		0.0	LCL
Quarry Rd	Parkview Dr / Northview Dr	528	CTH K	1847	1319	22	55	10		10 No Action	0.00		0.0	LCL
Rolling Hills Dr	Plain View Rd	0	Tamarack Rd	1637	1637	22	70	10		9 No Action	0.00		0.0	LCL
Rudy Jr Ct	Termini	0	Susan Pl	211	211	22	70	10		9 No Action	0.00		0.0	LCL
Sandras Dr	Plainview Pkwy	0	Scott St	897	897	22	70	10		9 No Action	0.00		0.0	LCL
Sandras Dr	Scott St	0	Termini	581	581	22	70	10		9 No Action	0.00		0.0	LCL
Scott St	Sandras Dr	0	Longview Dr	1214	1214	22	70	10		9 No Action	0.00		0.0	LCL
Sennott Ct	Norwauk Rd (2) / Sennott Dr	0	Termini	840	840	24	70	9		8 No Action	0.00		0.0	LCL
Sennott Dr	Riverview Dr (2)	370	Norwauk Rd (2) / Sennott Ct	638	268	24	70	9		8 No Action	0.00		0.0	LCL
Short Rd	Termini	0	CTH Q	158	158	16	55	9		9 No Action	0.00		0.0	LCL
Ski View Dr	Mountain Shadows Dr	0	Ridge Dr	739	739	24	65	6		5 Sealcoat with Patching	29,714.00		0.0	LCL
Spring Hill Blvd	STH 164	0	Fairview Ln / Homestead Rd	370	370	48	70	10		9 No Action	0.00		0.0	LCL
Sunset Ct	Twin Pine Cir	0	Termini	287	287	24	70	9		8 No Action	0.00		0.0	LCL
Susan Pl	Plainview Pkwy	0	Tamarack Rd	2164	2164	22	70	10		9 No Action	0.00		0.0	LCL
Swan Rd	Lindsay Rd / Swan Rd	1637	CTH K	4277	2640	22	70	9		8 No Action	0.00		0.0	LCL
Thousand Oak Dr	White Pine Dr / Woodland Oaks Dr	0	Beacon Hills Dr / CTH VV	7551	7551	24	65	9		8 No Action	0.00		0.0	LCL
Timber Ridge	Thousand Oak Dr	0	Termini	475	475	24	65	9		8 No Action	0.00		0.0	LCL
Twin Pine Cir	Perennial Ter	0	Monarch Ct	1779	1779	24	70	9		8 No Action	0.00		0.0	LCL
Twin Pine Cir	Monarch Ct	0	Termini	106	106	24	70	9		8 No Action	0.00		0.0	LCL
Valleyview Dr	Willowview Dr	0	Cherry Hill Rd	211	211	24	70	9		8 No Action	0.00		0.0	LCL
Valleyview Dr	Willowview Dr	211	CTH V	1056	845	18	65	9		8 No Action	0.00		0.0	LCL
Victoria Cir (1)	Victoria Cir (2)	0	Victoria Cir (2) / Waverly Pl	634	634	24	70	8		8 No Action	0.00		0.0	LCL
Victoria Cir (2)	CTH VV	0	Victoria Cir (1)	4119	4119	24	70	8		8 No Action	0.00		0.0	LCL
Waverly Pl	Victoria Cir (1) / Victoria Cir (2)	0	Termini	264	264	24	70	8		8 No Action	0.00		0.0	LCL
White Oak Dr	Thousand Oak Dr	0	Wilderness Way	1742	1742	24	70	9		8 No Action	0.00		0.0	LCL
White Pine Dr	Thousand Oak Dr / Woodland Oaks Dr	0	Termini	686	686	24	70	9		8 No Action	0.00		0.0	LCL
Wilderness Way	Termini	0	Thousand Oak Dr	3379	3379	22	65	9		8 No Action	0.00		0.0	LCL
Wildwood Way	Hillside Rd	0	Termini	1522	1522	24	70	9		8 No Action	0.00		0.0	LCL
Willow Creek	Courtland Cir	1426	Termini	6442	5016	24	70	10		9 No Action	0.00		0.0	LCL
Willowview Dr	Alta Vista Dr	0	Valleyview Dr	422	422	24	70	9		8 No Action	0.00		0.0	LCL
Willowview Dr	Valleyview Dr	0	Hamilton Dr	1162	1162	22	65	9		8 No Action	0.00		0.0	LCL
Wooded Hills Dr	CTH V / Town Line Rd	0	Alta Vista Dr / Hamilton Dr	4436	4436	24	65	9		8 No Action	0.00		0.0	LCL
Woodside Ct	Termini	0	Hickory Chasm Dr	792	792	24	70	9		8 No Action	0.00		0.0	LCL

35.18 Miles

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 1

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 400000 400000 400000 400000 400000 0  
 Expenditures: 396846 402767 357268 279459 71964

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management
														Priority Classification (PMPC)
Ainsworth Rd	CTH KE / Winkleman Rd / Ainsworth Rd	1320	Basham Ln	4805	3485	24	55	7		7 Crack Sealing	13939	M	49.9	LCL
Blue Heron Dr	Hillside Rd	0	Tomahawk Dr	3379	3379	24	65	7		7 Crack Sealing	13515	M	49.9	LCL
Bracklyn Dr	Ridge Dr	0	Katesbridge Dr	3032	3032	30	70	7		7 Crack Sealing	15159	M	49.9	LCL
Center Oak Rd	Marshall Dr / Center Oak Rd	1320	Plain View Rd / Keesus Rd	1584	264	22	55	6		7 Single Sealcoat	680	M	59.92	LCL
Colgate Rd	North Lisbon Rd	0	CTH Q / Colgate Rd	2043	2043	22	70	7		7 Crack Sealing	2497	M	74.9	LCL
Crestwood Dr	Termini	0	Bittersweet Dr	4370	4370	24	65	7		7 Crack Sealing	17479	M	49.9	LCL
Good Hope Rd	Woodland Creek Dr / Good Hope Rd	951	Coventry Meadows Ct	3380	2429	24	70	6		7 Single Sealcoat	6800	M	80	MAJ
Good Hope Rd	Michelle Ln / Good Hope Rd	364	Meadow Ln / Good Hope Rd	487	123	22	70	6		7 Single Sealcoat	316	M	80	MAJ
Good Hope Rd	Ridgewood Rd / Good Hope Rd	0	Maple Ave / Good Hope Rd	686	686	24	70	4		9 Resurfacing	15696	C	57.14	MAJ
High Rd	CTH K / CTH KF	0	Richmond Rd	634	634	22	70	5		6 Sealcoat with Patching	3238	M	49.93	LCL
Hillside Rd	North Lisbon Rd	0	Bittersweet Dr	4435	4435	24	70	6		7 Single Sealcoat	12417	M	80	MAJ
Hillside Rd	Plain View Rd	450	Watersedge Dr	4180	3730	24	70	6		7 Single Sealcoat	10691	M	80	MAJ
Hillside Rd	Watersedge Dr	0	North Lisbon Rd	1100	1100	24	70	6		7 Single Sealcoat	3079	M	80	MAJ
Hillside Rd	Plain View Rd	0	Watersedge Dr	450	450	24	70	6		7 Single Sealcoat	1290	M	80	MAJ
Lake Five Rd	Hickory Rd	0	CTH Q / Sherman Rd	3062	3062	22	65	7		7 Crack Sealing	3742	M	74.9	LCL
Lake Five Rd	Perennial Ter	418	Hickory Rd	3063	2645	22	70	7		7 Crack Sealing	3232	M	74.9	LCL
Lake Five Rd	Twin Pine Dr	0	Red Fox Run	1486	1486	22	70	7		7 Crack Sealing	1816	M	74.9	LCL
Lake Five Rd	Perennial Ter	211	Red Fox Run	418	207	22	65	7		7 Crack Sealing	253	M	74.9	LCL
Maple Ave	Northview Dr / Maple Ave	0	Johanssen Ct / Maple Ave	370	370	24	70	5		7 Sealcoat with Patching	2095	M	66.67	MIN
Maple Ave	Northview Dr / Maple Ave	475	Sussex Preserve Blvd / Maple Ave	634	159	20	55	5		6 Sealcoat with Patching	741	M	66.67	MIN
Maple Ave	CTH K	0	Northview Dr / Maple Ave	1320	1320	24	70	4		9 Resurfacing	31240	C	57.14	MIN
Maple Ave	Craven Dr / Maple Ave	370	Overland Dr / Overland Rd / Maple Ave	860	490	24	70	5		6 Sealcoat with Patching	2720	M	49.93	LCL
Mary Hill Rd	Katesbridge Dr / Walnut Rd / Mary Hill Rd	528	CTH VV / Mary Hill Rd	3290	2762	24	65	6		7 Single Sealcoat	7917	M	59.92	LCL
Mary Hill Rd	Richmond Rd	0	Katesbridge Dr / Walnut Rd / Mary Hill Rd	2693	2693	24	65	6		7 Single Sealcoat	7719	M	59.92	LCL
Mary Hill Rd	Katesbridge Dr / Walnut Rd / Mary Hill Rd	0	CTH VV / Mary Hill Rd	528	528	27	70	6		7 Single Sealcoat	1689	M	59.92	LCL
McKerrow Dr	CTH K	0	Termini	3063	3063	24	65	7		7 Crack Sealing	12252	M	49.9	LCL
Mt Vernon Dr	Termini	0	CTH Q	3696	3696	24	65	7		7 Crack Sealing	14784	M	49.9	LCL
North Lisbon Rd	North Rd	0	Hillside Rd	5491	5491	22	70	7		7 Crack Sealing	6711	M	74.9	MIN
Norwauk Rd (2)	River Ln	0	Norwauk Ct / Norwauk Rd (1)	4436	4436	24	70	7		7 Crack Sealing	17743	M	49.9	LCL
Plain View Rd	STH 164	5438	Lake Five Rd	8026	2588	24	70	6		7 Single Sealcoat	7418	M	80	LCL
Plain View Rd	CTH V / Town Line Rd	0	Plainview Pkwy	2217	2217	20	65	6		7 Single Sealcoat	5369	M	80	LCL
Plain View Rd	Lake Five Rd	1003	Center Oak Rd / Keesus Rd	2270	1267	24	70	6		7 Single Sealcoat	3631	M	80	LCL
Plain View Rd	Kathleen Ave / Plain View Rd	0	Hillside Rd	1003	1003	24	70	6		7 Single Sealcoat	2874	M	80	LCL
Plain View Rd	Lake Five Rd	0	Center Oak Rd / Keesus Rd	1003	1003	20	65	6		7 Single Sealcoat	2428	M	80	LCL

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 1

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 400000 400000 400000 400000 400000 0  
 Expenditures: 396846 402767 357268 279459 71964

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Plain View Rd	Tamarack Rd / Plain View Rd	0	Maple Ave / Plain View Rd	5281	5281	22	70	5		6 Sealcoat with Patching	27578	M	66.67	LCL
Plain View Rd	Plainview Pkwy	0	Tamarack Rd / Plain View Rd	1848	1848	20	55	5		6 Sealcoat with Patching	8828	M	66.67	LCL
Richmond Rd	Crossover STH 164 / Richmond Rd	970	CTH K / CTH MD	8322	7352	22	70	7		7 Crack Sealing	8985	M	74.9	LCL
Ridge Dr	Hillview Dr	211	Katesbridge Dr	2598	2387	30	70	7		7 Crack Sealing	11934	M	49.9	LCL
Ridge Field Dr	Hidden Oaks Dr	0	Hillside Rd	4647	4647	24	65	7		7 Crack Sealing	18588	M	49.9	LCL
Tomahawk Dr	Hillside Rd	0	Bittersweet Dr	5755	5755	22	65	7		7 Crack Sealing	21100	M	49.9	LCL
Town Line Rd	CTH K / CTH V / Lisbon Rd / Town Line Rd	0	Weyer Rd / Town Line Rd	1056	1056	22	70	5		6 Sealcoat with Patching	5396	M	49.93	LCL
Twin Pine Cir	Perennial Ter	0	Perennial Ter	5285	5285	24	70	7		7 Crack Sealing	21139	M	49.9	LCL
Walnut Grove Dr	Ainsworth Rd	0	CTH K / Hanover Hill Rd (2)	2746	2746	24	70	7		7 Crack Sealing	10983	M	49.9	LCL
Weyer Rd	Weyer Rd	106	Town Line Rd / Weyer Rd	2112	2006	20	70	7		7 Crack Sealing	2228	M	74.9	LCL
Woodside Rd	Plain View Rd / Woodside Rd	0	North Lisbon Rd	5650	5650	22	70	7		7 Crack Sealing	6905	M	74.9	LCL

21.72 Miles

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 2

Muni: LISBON (T) January 3, 2018  
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 Budget: 400000 400000 400000 400000 400000 0  
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On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Aberdeen Dr	McKerrow Dr	0	Seven Stones Dr / Aberdeen Dr	1108	1108	24	70	7		7 Crack Sealing	4431	M	49.9	LCL
Aberdeen Dr	Cheviot Dr	158	Seven Stones Dr / Aberdeen Dr	779	621	24	70	7		7 Crack Sealing	2484	M	49.9	LCL
Adams Ct	Ridge Dr	0	Termini	512	512	30	70	7		7 Crack Sealing	2559	M	49.9	LCL
Ardeevin Ct	Batterjohn Dr	0	Termini	661	661	27	70	7		7 Crack Sealing	2974	M	49.9	LCL
Argyle Dr	Termini	0	Beacon Hills Dr	1320	1320	22	65	7		7 Crack Sealing	4839	M	49.9	LCL
Bark Rd	Norwauk Rd (2)	0	Termini	581	581	24	70	7		7 Crack Sealing	2323	M	49.9	LCL
Batterjohn Dr	CTH VV / Stonehouse Dr	0	CTH MD / Merton Oaks Dr	2252	2252	27	70	7		7 Crack Sealing	10134	M	49.9	LCL
Beacon Hills Dr	CTH VV / Thousand Oak Dr	0	Termini	1900	1900	22	65	7		7 Crack Sealing	6966	M	49.9	LCL
Bittersweet Dr	Crestwood Dr	158	Hillside Rd	2587	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Bittersweet Dr	Blue Heron Dr	0	Tomahawk Dr	792	792	24	65	7		7 Crack Sealing	3168	M	49.9	LCL
Boden Ln	Glen Ridge Rd	264	Richmond Rd	1584	1320	24	70	7		7 Crack Sealing	5280	M	49.9	LCL
Carlene Dr	Termini	576	James Dr	2636	2060	24	65	7		7 Crack Sealing	8239	M	49.9	LCL
Century Ct	Termini	0	Stonefield Ct	581	581	24	65	7		7 Crack Sealing	2323	M	49.9	LCL
Commerce Centre Dr	Betker Dr	0	Duplainville Rd	1263	1263	24	70	7		7 Crack Sealing	5052	M	49.9	LCL
Coventry Meadows Ct	Good Hope Rd	0	Termini	631	631	24	70	7		7 Crack Sealing	2523	M	49.9	LCL
Crest Dr	Lake Dr	0	Termini	1003	1003	24	65	7		7 Crack Sealing	4011	M	49.9	LCL
Denton's Run	Termini	0	Howard's Pass / Kettle Cove Ln	1145	1145	24	65	7		7 Crack Sealing	4579	M	49.9	LCL
Fanad Ct	Batterjohn Dr	0	Termini	788	788	27	70	7		7 Crack Sealing	3546	M	49.9	LCL
Five Iron Way	Pitching Wedge Ct / Woodside Rd	0	Termini	2217	2217	24	70	7		7 Crack Sealing	8868	M	49.9	LCL
Fox Hollow Dr	Termini	0	Termini	1478	1478	24	65	7		7 Crack Sealing	5911	M	49.9	LCL
Glen Ridge Ct	Glen Ridge Rd	0	Termini	845	845	24	70	7		7 Crack Sealing	3379	M	49.9	LCL
Glen Ridge Rd	Glen Ridge Ct	105	Richmond Rd	1267	1162	24	70	7		7 Crack Sealing	4647	M	49.9	LCL
Green Meadow Rd	Ainsworth Rd	0	Termini	1795	1795	24	70	7		7 Crack Sealing	7179	M	49.9	LCL
Hanover Hill Rd (1)	Bantry Rd / Hanover Hill Rd (2)	0	Hanover Hill Rd (2)	1954	1954	24	65	7		7 Crack Sealing	7815	M	49.9	LCL
Hanover Hill Rd (2)	CTH K / Walnut Grove Dr	0	Bantry Rd / Hanover Hill Rd (1)	2429	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Hawksview Ct	Twin Pine Cir	0	Termini	630	630	24	70	7		7 Crack Sealing	2520	M	49.9	LCL
Hazel's Way	Denton's Run	0	Howard's Pass / Phyllis Way	935	935	24	65	7		7 Crack Sealing	3739	M	49.9	LCL
Hermitage Dr	Termini	0	Termini	1320	1320	24	65	7		7 Crack Sealing	5280	M	49.9	LCL
Hidden Oaks Dr	Termini	0	Maple Ave / Hidden Oaks Dr	1373	1373	24	65	7		7 Crack Sealing	5491	M	49.9	LCL
High Point Dr	Mountain Meadows Dr W	0	Termini	845	845	24	65	7		7 Crack Sealing	3379	M	49.9	LCL
Highland Presever Ct	Termini	0	Crestwood Dr	619	619	24	65	7		7 Crack Sealing	2475	M	49.9	LCL
Hillcrest Cir	Termini	0	Top -O- Hill Dr	634	634	22	65	7		7 Crack Sealing	2323	M	49.9	LCL
Hilltop Ct	Termini	0	Ridge Field Dr	528	528	24	65	7		7 Crack Sealing	2112	M	49.9	LCL
Hillview Dr	Termini	0	Lake Dr	2429	2429	24	65	7		7 Crack Sealing	9715	M	49.9	LCL
Howard Ln	STH 164	158	Hillside Rd	2376	2218	22	65	7		7 Crack Sealing	8131	M	49.9	LCL
Howard's Pass	Hazel's Way / Phyllis Way	0	Denton's Run / Kettle Cove Ln	1658	1658	24	65	7		7 Crack Sealing	6631	M	49.9	LCL
Indian Head Dr	Ski View Dr	0	Mountain Meadows Dr W	1848	1848	24	65	7		7 Crack Sealing	7392	M	49.9	LCL
Inverness Dr	Termini	0	McKerrow Dr	581	581	24	65	7		7 Crack Sealing	2323	M	49.9	LCL
Jolyn Dr	North Lisbon Rd	0	Termini	1995	1995	24	70	7		7 Crack Sealing	7980	M	49.9	LCL
Katesbridge Dr	Bracklyn Dr	0	Mary Hill Rd / Walnut Rd	1043	1043	30	70	7		7 Crack Sealing	5214	M	49.9	LCL
Katesbridge Dr	Ridge Dr	0	Termini	554	554	30	70	7		7 Crack Sealing	2769	M	49.9	LCL
Kathleen Ave	Kathleen Ct	370	Plain View Rd	1689	1319	22	65	7		7 Crack Sealing	4836	M	49.9	LCL
Kathleen Ave	Ridge Field Dr	0	Sharon Dr	1004	1004	24	65	7		7 Crack Sealing	4015	M	49.9	LCL

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 2

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On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Kettle Cove Ln	Denton's Run / Howard's Pass	306	Thousand Oak Dr	2629	2323	24	70	7		7 Crack Sealing	9291	M	49.9	LCL
L-Dee Ln	North Lisbon Rd	0	Termini	634	634	24	65	7		7 Crack Sealing	2535	M	49.9	LCL
Lake Dr	Termini	0	CTH VV	2059	2059	22	65	7		7 Crack Sealing	7549	M	49.9	LCL
Lakeview Dr	Lake Dr	0	Top -O- Hill Dr	1426	1426	24	65	7		7 Crack Sealing	5703	M	49.9	LCL
Laura Way	Carlene Dr	0	Jessica Way	1795	1795	24	65	7		7 Crack Sealing	7179	M	49.9	LCL
Marion Ct	North Lisbon Rd	0	Termini	528	528	24	70	7		7 Crack Sealing	2112	M	49.9	LCL
Meadow Ridge Dr	Perennial Ter	0	Termini	1161	1161	24	65	7		7 Crack Sealing	4644	M	49.9	LCL
Meadowwood Ln	Woodland Oaks Dr	1293	Kettle Cove Ln	2482	1189	22	70	7		7 Crack Sealing	4359	M	49.9	LCL
Monticello Dr	Mt Vernon Dr	0	Mt Vernon Dr	1584	1584	24	70	7		7 Crack Sealing	6336	M	49.9	LCL
Mount Du Lac Dr	Mountain Meadows Dr W	0	Mountain Shadows Dr	2323	2323	24	65	7		7 Crack Sealing	9291	M	49.9	LCL
Mountain Meadows Dr W	Indian Head Dr	0	Termini	1056	1056	24	65	7		7 Crack Sealing	4224	M	49.9	LCL
North Hill Dr	Termini	0	Richmond Rd	2323	2323	24	65	7		7 Crack Sealing	9291	M	49.9	LCL
North Rd	North Lisbon Rd	0	Crooked Bridge Dr	2006	2006	22	70	7		7 Crack Sealing	7354	M	49.9	LCL
Norwauk Rd (1)	Norwauk Rd (2)	0	Norwauk Rd (2)	581	581	24	70	7		7 Crack Sealing	2323	M	49.9	LCL
Perennial Ter	Lake Five Rd	0	Termini	2534	2534	24	65	7		7 Crack Sealing	10135	M	49.9	LCL
Perennial Ter	Twin Pine Cir	0	Twin Pine Cir	1511	1511	24	70	7		7 Crack Sealing	6043	M	49.9	LCL
Quarry Corners Pkwy	Commerce Centre Dr	0	CTH K	2007	2007	28	65	7		7 Crack Sealing	10524	M	49.9	LCL
Quarry Corners Pkwy	Commerce Centre Dr	2007	CTH K	2165	158	44	65	7		7			49.9	LCL
Red Fox Run	Lake Five Rd	0	Termini	739	739	24	65	7		7 Crack Sealing	2955	M	49.9	LCL
Ridge Field Ct	Termini	0	Ridge Field Dr	528	528	24	65	7		7 Crack Sealing	2112	M	49.9	LCL
Seven Iron Ct	Five Iron Way	0	Termini	528	528	24	70	7		7 Crack Sealing	2112	M	49.9	LCL
Seven Stones Dr	Aberdeen Dr / Seven Stones Dr	279	Crossover STH 164	1225	946	24	70	7		7 Crack Sealing	3783	M	49.9	LCL
Sharon Dr	Termini	0	Kathleen Ave	1056	1056	22	65	7		7 Crack Sealing	3871	M	49.9	LCL
Stepping Stones Way	Seven Stones Dr	0	Cheviot Dr / Stepping Stone Way	634	634	24	70	7		7 Crack Sealing	2535	M	49.9	LCL
Stonefield Ct	Ridge Field Dr / Stonefield Dr	0	Termini	580	580	24	65	7		7 Crack Sealing	2319	M	49.9	LCL
Stonefield Dr	Overland Dr / Stonefield Dr	236	Ridge Field Dr / Stonefield Ct	975	739	24	65	7		7 Crack Sealing	2955	M	49.9	LCL
Tamnamore Dr	Batterjohn Dr	0	Termini	983	983	27	70	7		7 Crack Sealing	4423	M	49.9	LCL
Tomahawk Ct	Tomahawk Dr	0	Termini	581	581	24	65	7		7 Crack Sealing	2323	M	49.9	LCL
Tomahawk Dr	Blue Heron Dr	1109	Bittersweet Dr	1901	792	24	65	7		7 Crack Sealing	3168	M	49.9	LCL
Top -O- Hill Dr	Termini	0	Lakeview Dr	1320	1320	22	65	7		7 Crack Sealing	4839	M	49.9	LCL
Walnut Grove Ct	Walnut Grove Dr	0	Termini	528	528	24	70	7		7 Crack Sealing	2112	M	49.9	LCL
Walnut Rd	Katesbridge Dr / Mary Hill Rd	0	Termini	2323	2323	22	65	7		7 Crack Sealing	8517	M	49.9	LCL
Watersedge Dr	Hillside Rd	0	Termini	1381	1381	24	70	7		7 Crack Sealing	5523	M	49.9	LCL
Whitewater Dr	Norwauk Rd (2)	0	Norwauk Rd (2)	1901	1901	24	70	7		7 Crack Sealing	7603	M	49.9	LCL
Windy Pass Dr	North Hill Dr	0	Termini	845	845	24	65	7		7 Crack Sealing	3379	M	49.9	LCL
Windy Pass Dr	Termini	0	North Hill Dr	739	739	24	65	7		7 Crack Sealing	2955	M	49.9	LCL
Wrendale Dr	Termini	0	Fox Hollow Dr	845	845	24	65	7		7 Crack Sealing	3379	M	49.9	LCL
Yarotta Cir	Termini	0	Termini	1003	1003	24	65	7		7 Crack Sealing	4011	M	49.9	LCL

19.05 Miles

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 3

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 Expenditures: 396846 402767 357268 279459 71964

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management	
														Priority Classification	
Aberdeen Ct	Termini	0	Aberdeen Dr	211	211	24	70	6		7	Single Sealcoat	1166	M	39.92	LCL
Ainsworth Rd	Green Meadow Rd	1584	CTH MD / Ainsworth Rd	2019	435	24	70	7		7	Crack Sealing	1740	M	49.9	LCL
Arrowhead Dr	Termini	0	Carlene Dr	264	264	24	65	7		7	Crack Sealing	1056	M	49.9	LCL
Arrowhead Dr	Carlene Dr	0	CTH KF	1743	1743	24	65	6		7	Single Sealcoat	9644	M	39.92	LCL
Bantry Rd	Termini	0	Hanover Hill Rd (1) / Hanover Hill Rd	317	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Bay Ct	Watersedge Dr	0	Termini	327	327	24	70	7		7	Crack Sealing	1308	M	49.9	LCL
Bayberry Ct	Bayberry Dr	0	Termini	370	370	22	65	6		7	Single Sealcoat	1857	M	39.92	LCL
Bayberry Dr	CTH JK	0	CTH KF	1636	1636	22	65	6		7	Single Sealcoat	8216	M	39.92	LCL
Betker Dr	Commerce Centre Dr	0	Duplainville Rd	1848	1848	24	70	6		7	Single Sealcoat	10225	M	39.92	LCL
Bittersweet Ct	Bittersweet Dr	0	Termini	211	211	24	65	7		7	Crack Sealing	843	M	49.9	LCL
Boden Ln	Glen Ridge Rd	0	Richmond Rd	264	264	24	70	7		7	Crack Sealing	1056	M	49.9	LCL
Brandt Cir	Termini	0	Beacon Hills Dr	317	317	24	65	7		7	Crack Sealing	1267	M	49.9	LCL
Cheviot Dr	Aberdeen Dr	0	Cheviot Dr	317	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Clearview Dr	Blue Heron Dr	211	Termini	634	423	24	65	7		7	Crack Sealing	1692	M	49.9	LCL
Clearview Dr	Blue Heron Dr	0	Termini	211	211	24	65	7		7	Crack Sealing	843	M	49.9	LCL
Clubhouse Cir	Woodside Rd	0	Termini	686	686	24	70	6		7	Single Sealcoat	3658	M	39.92	LCL
Commerce Centre Dr	Quarry Corners Pkwy	0	Betker Dr	422	422	28	65	7		7	Crack Sealing	1968	M	49.9	LCL
Commerce Centre Dr	Quarry Corners Pkwy	422	Betker Dr	739	317	24	70	6		7	Single Sealcoat	1753	M	39.92	LCL
Copper Ct	Twin Pine Cir	0	Termini	353	353	24	70	7		7	Crack Sealing	1411	M	49.9	LCL
Cordell Dr	North Lisbon Rd	0	Termini	528	528	24	70	6		7	Single Sealcoat	2921	M	39.92	LCL
Country Ct	Riverview Dr (2)	0	Termini	211	211	24	65	6		7	Single Sealcoat	1166	M	39.92	LCL
Deerfield Ct	Hidden Oaks Dr	0	Termini	422	422	24	65	7		7	Crack Sealing	1687	M	49.9	LCL
E-Jay Ln	Termini	0	North Lisbon Rd	739	739	24	65	6		7	Single Sealcoat	4087	M	39.92	LCL
East View Dr	Weyer Rd	0	Termini	2535	2535	24	70	6		7	Single Sealcoat	14027	M	39.92	LCL
Eddy Ct	River Ln	0	Termini	264	264	24	70	6		7	Single Sealcoat	1443	M	39.92	LCL
Elizabeth Dr	Jessica Way	0	Termini	475	475	24	65	7		7	Crack Sealing	1899	M	49.9	LCL
Elmwood Rd	North Lisbon Rd	0	Termini	898	898	24	70	6		7	Single Sealcoat	4907	M	39.92	LCL
Emerald Fields Ct	Meadow Ridge Dr	0	Termini	370	370	24	65	7		7	Crack Sealing	1479	M	49.9	LCL
Eyrie Dr	Termini	0	Windy Pass Dr	317	317	24	65	6		7	Single Sealcoat	1753	M	39.92	LCL
Fieldcrest Cir	Perennial Ter	0	Termini	317	317	24	70	7		7	Crack Sealing	1267	M	49.9	LCL
Garnnet Ct	Center Oak Rd	0	Termini	1056	1056	24	65	6		7	Single Sealcoat	5843	M	39.92	LCL
Glen Ridge Rd	Termini	0	Glen Ridge Ct	317	317	24	70	7		7	Crack Sealing	1267	M	49.9	LCL
Glen Ridge Rd	Glen Ridge Ct	0	Boden Ln	105	105	24	70	7		7	Crack Sealing	420	M	49.9	LCL
Hanover Hill Ct	Hanover Hill Rd (2)	0	Termini	422	422	24	65	7		7	Crack Sealing	1687	M	49.9	LCL
Hickory Nut Ln	Bayberry Dr	0	Termini	158	158	22	65	6		7	Single Sealcoat	793	M	39.92	LCL
Hillside Ln	Hillside Rd	0	Termini	686	686	20	65	6		7	Single Sealcoat	3093	M	39.92	LCL
Hillside Rd	Termini	0	Wildwood Way	210	210	24	70	7		7	Crack Sealing	840	M	49.9	MAJ
Howard Ln	STH 164	0	Hillside Rd	158	158	22	70	7		7	Crack Sealing	579	M	49.9	LCL
Hyde Park Dr	Mt Vernon Dr	0	Termini	211	211	24	65	7		7	Crack Sealing	843	M	49.9	LCL
Indian Head Dr	Termini	0	Ski View Dr	1003	1003	24	65	6		7	Single Sealcoat	5481	M	39.92	LCL
James Dr	Carlene Dr	0	Termini	264	264	24	70	7		7	Crack Sealing	1056	M	49.9	LCL
James Dr	Termini	0	Jessica Way	264	264	24	65	6		7	Single Sealcoat	1460	M	39.92	LCL
James Dr	Termini	0	Carlene Dr	264	264	24	70	6		7	Single Sealcoat	1460	M	39.92	LCL
Janet Ct	Janet Dr	0	Termini	581	581	24	65	6		7	Single Sealcoat	3214	M	39.92	LCL
Janet Dr	Arrowhead Dr	0	Termini	528	528	24	65	6		7	Single Sealcoat	2921	M	39.92	LCL
Jean Ct	Termini	0	Sharon Dr	317	317	22	65	7		7	Crack Sealing	1161	M	49.9	LCL
Jessica Ct	Termini	0	Jessica Way	264	264	24	65	7		7	Crack Sealing	1056	M	49.9	LCL
Jessica Way	CTH K	0	Carlene Dr	4594	4594	24	65	6		7	Single Sealcoat	25418	M	39.92	LCL
Justins Way	Kettle Cove Ln	0	Termini	327	327	24	70	7		7	Crack Sealing	1308	M	49.9	LCL
Katesbridge Dr	Termini	0	Bracklyn Dr	388	388	27	70	7		7	Crack Sealing	1746	M	49.9	LCL
Kathleen Ct	Kathleen Ave	0	Termini	422	422	24	65	7		7	Crack Sealing	1687	M	49.9	LCL

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														Priority Classification (PMPC)
Kettle Cove Ln	Denton's Run / Howard's Pass		0 Meadowwood Ln	306	306	24	65	7		7 Crack Sealing	1224	M	49.9	LCL
Lakeview Ct	Lakeview Dr		0 Termini	792	792	24	65	6		7 Single Sealcoat	4382	M	39.92	LCL
Lakeview Dr	Top -O- Hill Dr		0 Termini	634	634	24	65	6		7 Single Sealcoat	3464	M	39.92	LCL
Marshall Ct	Marshall Dr / Twin Pine Cir		0 Termini	479	479	24	70	7		7 Crack Sealing	1915	M	49.9	LCL
Marshall Dr	Marshall Ct / Twin Pine Cir		0 Termini	355	355	24	70	7		7 Crack Sealing	1419	M	49.9	LCL
Meadowview Ct	Twin Pine Cir		0 Termini	448	448	24	70	7		7 Crack Sealing	1791	M	49.9	LCL
Meider Dr	Termini		0 Tomahawk Dr	211	211	22	65	7		7 Crack Sealing	772	M	49.9	LCL
Mountain Meadows Dr E	Termini		0 Dr W	1162	1162	24	65	6		7 Single Sealcoat	6350	M	39.92	LCL
Mountain Meadows Dr W	Termini		0 Indian Head Dr	2112	2112	24	65	6		7 Single Sealcoat	11545	M	39.92	LCL
Mountain Shadows Dr	Termini		0 CTH MD	2957	2957	24	65	6		7 Single Sealcoat	16164	M	39.92	LCL
North Rd	Crooked Bridge Dr		0 CTH Q	3485	3485	22	70	6		7 Single Sealcoat	17732	M	39.92	LCL
Norwauk Ct	Norwauk Rd (1) / Norwauk Rd (2)		0 Termini	264	264	24	70	7		7 Crack Sealing	1056	M	49.9	LCL
Norwauk Rd (2)	Sennott Ct / Sennott Dr	1053	River Ln	1528	475	24	70	6		7 Single Sealcoat	2595	M	39.92	LCL
Perennial Ter	Twin Pine Cir		0 Lake Five Rd	399	399	24	70	7		7 Crack Sealing	1596	M	49.9	LCL
Pewaukee Rd	Termini / Pewaukee Rd	1953	Rocky Hollow Pass / Pewaukee Rd	2164	211	20	70	7		7 Crack Sealing	702	M	49.9	LCL
Phyllis Way	Lake Five Rd		0 Hazel's Way / Howard's Pass	364	364	24	70	7		7 Crack Sealing	1455	M	49.9	LCL
Pitching Wedge Ct	Five Iron Way / Woodside Rd		0 Termini	422	422	24	70	6		7 Single Sealcoat	2250	M	39.92	LCL
Preserve Pl	Termini		0 Wooded Ridge Trl	581	581	24	65	6		7 Single Sealcoat	3214	M	39.92	LCL
Quail Holw	Red Wing Rd		0 Termini	211	211	24	65	6		7 Single Sealcoat	1166	M	39.92	LCL
Red Wing Rd	Hickory Rd		0 Termini	1109	1109	24	65	6		7 Single Sealcoat	6135	M	39.92	LCL
Richmond Rd	Crossover STH 164 / Richmond Rd		0 North Hill Dr / Richmond Rd	970	970	22	70	4		9 Resurfacing	15303	C	42.8	LCL
Ridge Dr	Katesbridge Dr		0 Ski View Dr	385	385	30	70	7		7 Crack Sealing	1924	M	49.9	LCL
Ridge Dr	Hillview Dr		0 Adams Ct	211	211	30	70	7		7 Crack Sealing	1054	M	49.9	LCL
River Ln	Norwauk Rd (2)		0 CTH Q / Briar Ridge Ln	634	634	24	70	6		7 Single Sealcoat	3464	M	39.92	LCL
River's Hollow Ct	Riverview Dr (1) / Riverview Dr (2)		0 Termini	211	211	24	65	6		7 Single Sealcoat	1166	M	39.92	LCL
Riverview Ct	Riverview Dr (2)		0 Termini	317	317	24	65	6		7 Single Sealcoat	1753	M	39.92	LCL
Riverview Dr (1)	River's Hollow Ct / Riverview Dr (2)		0 Riverview Dr (2)	475	475	24	65	6		7 Single Sealcoat	2626	M	39.92	LCL
Riverview Dr (2)	STH 164		0 Riverview Dr (1)	2904	2904	24	65	6		7 Single Sealcoat	16068	M	39.92	LCL
Roberta Dr	Termini		0 CTH K	1267	1267	24	70	6		7 Single Sealcoat	7009	M	39.92	LCL
Sagamore Dr	Termini		0 Termini	369	369	24	65	7		7 Crack Sealing	1476	M	49.9	LCL
Sennott Dr	Riverview Dr (2)		0 Norwauk Rd (2) / Sennott Ct	370	370	24	65	6		7 Single Sealcoat	2045	M	39.92	LCL
Seven Stones Dr	William Dr	631	Crossover STH 164	733	102	32	70	7		7 Crack Sealing	543	M	49.9	LCL
Seven Stones Dr	William Dr	553	Crossover STH 164	631	78	32	70	7		7 Crack Sealing	415	M	49.9	LCL
Ski View Dr	Mountain Shadows Dr		0 Ridge Dr	739	739	24	65	6		7 Single Sealcoat	4038	M	39.92	LCL
St Patricks Ct	Bracklyn Dr		0 Termini	341	341	30	70	7		7 Crack Sealing	1704	M	49.9	LCL
Steven St	Termini		0 Kathleen Ave	211	211	20	65	7		7 Crack Sealing	702	M	49.9	LCL
Stonehouse Dr	Batterjohn Dr / CTH VV		0 Termini	400	400	24	70	7		7 Crack Sealing	1599	M	49.9	LCL
Sutton Ct	Termini		0 Hanover Hill Rd (2) / Sutton Dr	211	211	24	65	7		7 Crack Sealing	843	M	49.9	LCL
Sutton Dr	Whistling Hill Cir / Sutton Dr	293	Hanover Hill Rd (2) / Sutton Ct	557	264	24	65	7		7 Crack Sealing	1056	M	49.9	LCL

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 3

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 400000 400000 400000 400000 400000 0  
 Expenditures: 396846 402767 357268 279459 71964

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Sweetbriar Ln	Hickory Rd	0	Termini	1162	1162	24	65	6		7 Single Sealcoat	6428	M	39.92	LCL
Tamarack Rd	North Lisbon Rd	0	Susan Pl	2693	2693	18	65	6		7 Single Sealcoat	11130	M	39.92	LCL
Teri Ln	Walnut Grove Dr	0	Termini	211	211	24	70	7		7 Crack Sealing	843	M	49.9	LCL
Twin Pine Dr	Twin Pine Cir	0	Lake Five Rd	283	283	24	70	7		7 Crack Sealing	1131	M	49.9	LCL
Wedgewood Glen	Termini	0	Termini	845	845	24	70	6		7 Single Sealcoat	4674	M	39.92	LCL
West View Dr	Wedgewood Glen	0	East View Dr	1162	1162	24	70	6		7 Single Sealcoat	6428	M	39.92	LCL
William Dr	McKerrow Dr	0	Aberdeen Dr / William Dr	370	370	24	65	7		7 Crack Sealing	1479	M	49.9	LCL
Wooded Ct	Hillview Dr	0	Termini	475	475	24	65	7		7 Crack Sealing	1899	M	49.9	LCL
Wooded Ridge Trl	North Lisbon Rd	0	Termini	3009	3009	24	65	6		7 Single Sealcoat	16649	M	39.92	LCL
Wrendale Ct	Wrendale Dr	0	Termini	422	422	24	65	7		7 Crack Sealing	1687	M	49.9	LCL

12.95 Miles

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan

Year 4

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 400000 400000 400000 400000 400000 0  
 Expenditures: 396846 402767 357268 279459 71964

														Pavement Management	
														Priority Classification	
On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	(PMPC)	
Blossom Ln	East View Dr	0	Termini	211	211	20	55	4		9	Resurfacing	8048	C	28.51	LCL
Dubnicka Dr	Plainview Pkwy	0	CTH V / Town Line Rd	1109	1109	22	70	8		7	Crack Sealing	4065	M	49.9	LCL
Good Hope Rd	Crossover STH 164	0	Hillside Rd	898	898	24	70	7		7	Crack Sealing	1197	M	0	MAJ
Hillside Rd	Wildwood Way	0	Good Hope Rd	898	898	24	70	4		9	Resurfacing	41496	C	28.51	MAJ
Hillside Rd	Good Hope Rd	0	Hickory View Ln	4646	4646	24	70	7		7	Crack Sealing	6194	M	0	MAJ
Hillside Rd	Bittersweet Dr	0	CTH Q / Hillside Rd	1373	1373	24	70	7		7	Crack Sealing	1830	M	0	MAJ
Hillside Rd	Hillside Ln	1214	Hickory View Ln	1584	370	24	70	7		7	Crack Sealing	493	M	0	MAJ
Hillside Rd	Hickory View Ln	0	Plain View Rd	317	317	28	70	7		7	Crack Sealing	493	M	0	MAJ
Hoag Ln	Dubnicka Dr	0	Termini	898	898	22	70	8		7	Crack Sealing	3292	M	49.9	LCL
Katherine Ct	Termini	0	Plainview Pkwy	264	264	22	70	8		7	Crack Sealing	967	M	49.9	LCL
Lynndale Ln	Termini	0	Willow Creek	158	158	18	35	2		4	Add Stone+Regrade	369	M	28.51	LCL
Maple Ave	Overland Dr / Overland Rd / Maple Ave	422	Maple Ave	2052	1630	22	65	3		9	Mill and Overlay	48350	C	37.45	LCL
Maple Ave	Champeny Rd / Maple Ave	845	Prides Rd / Maple Ave	2429	1584	40	75	7		7	Joint Sealing	3238	M	0	MAJ
Mitchell Ln	CTH F	0	Termini	423	423	24	70	4		9	Resurfacing	19740	C	28.51	LCL
N Face Ct	Perennial Ter	0	Termini	428	428	24	70	8		7	Crack Sealing	1711	M	49.9	LCL
Pewaukee Rd	Rocky Hollow Pass / Pewaukee Rd	0	CTH VV / Main St / Pewaukee Rd	1954	1954	20	55	3		9	Mill and Overlay	75116	C	24.95	LCL
Pewaukee Rd	Termini / Pewaukee Rd	0	Rocky Hollow Pass / Pewaukee Rd	1003	1003	20	55	3		9	Mill and Overlay	38542	C	24.95	LCL
Plain View Rd	Hillside Rd	0	STH 164	2640	2640	22	70	7		7	Crack Sealing	3226	M	0	LCL
Plain View Rd	Hillside Rd	2640	STH 164	5280	2640	22	65	7		7	Crack Sealing	3226	M	0	LCL
Plainview Pkwy	Dubnicka Dr	0	Dubnicka Dr	1003	1003	22	70	8		7	Crack Sealing	3676	M	49.9	LCL
Plainview Pkwy	Dubnicka Dr	0	Plain View Rd	1109	1109	18	70	8		7	Crack Sealing	5457	M	49.9	LCL
Plainview Pkwy	Dubnicka Dr	1109	Plain View Rd	1690	581	22	70	8		7				49.9	LCL
Rudy Ct	Termini	0	Hoag Ln	475	475	22	70	8		7	Crack Sealing	1741	M	49.9	LCL
Susan Pl	Termini	0	Plainview Pkwy	898	898	22	70	8		7	Crack Sealing	3292	M	49.9	LCL
Twin Pine Cir	Termini	0	Perennial Ter	634	634	24	70	8		7	Crack Sealing	2535	M	49.9	LCL
Watersedge Ct	Watersedge Dr	0	Termini	290	290	24	70	8		7	Crack Sealing	1159	M	49.9	LCL

5.39 Miles

Town of Lisbon - \$400,000/Year Town Road Maintenance Plan  
Year 5

Muni: LISBON (T) January 3, 2018  
 Year: 1 2 3 4 5 Backlog  
 Budget: 400000 400000 400000 400000 400000 0  
 Expenditures: 396846 402767 357268 279459 71964

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management
														Priority Classification (PMPC)
Beverly Ln	Hillside Rd	0	Micah Rd	1152	1152	24	70	8		7 Crack Sealing	4608	M	49.9	LCL
Carlene Dr	Termini	0	Jessica Way	576	576	24	70	8		7 Crack Sealing	2304	M	49.9	LCL
Hansen Dr	Hickory Chasm Dr	0	Termini	1478	1478	22	70	8		7 Crack Sealing	5418	M	49.9	LCL
Hickory Chasm Dr	Termini	0	Woodland Oaks Dr	1162	1162	24	70	8		7 Crack Sealing	4647	M	49.9	LCL
Hickory View Ln	Termini	561	Hillside Rd	686	125	24	70	8		7 Crack Sealing	499	M	49.9	LCL
Jay Ln	STH 164	0	STH 164	3062	3062	22	70	8		7 Crack Sealing	11226	M	49.9	LCL
Lake Five Rd	CTH MD	0	Plain View Rd	7339	7339	22	70	8		7 Crack Sealing	8969	M	74.9	LCL
Lake Five Rd	Plain View Rd	0	Twin Pine Dr	3741	3741	22	70	8		7 Crack Sealing	4572	M	74.9	LCL
Lauren Dr	Beverly Ln	0	Termini	650	650	24	70	8		7 Crack Sealing	2599	M	49.9	LCL
Meadowwood Ln	Woodland Oaks Dr	0	Kettle Cove Ln	1293	1293	22	70	8		7 Crack Sealing	4740	M	49.9	LCL
Oakdale Ln	Woodland Oaks Dr	0	Termini	422	422	22	70	8		7 Crack Sealing	1546	M	49.9	LCL
Robyn Ct	Beverly Ln	0	Termini	728	728	24	75	8		7 Joint Sealing	892	M	49.9	LCL
Surrey Hill Ct	Hickory Chasm Dr	0	Termini	370	370	22	70	8		7 Crack Sealing	1356	M	49.9	LCL
Tamarack Rd	North Lisbon Rd	2693	Plain View Rd	5386	2693	22	70	8		7 Crack Sealing	9873	M	49.9	LCL
Woodland Oaks Dr	CTH VV	0	Thousand Oak Dr / White Pine Dr	2376	2376	22	70	8		7 Crack Sealing	8712	M	49.9	LCL

5.15 Miles

# Town of Lisbon - \$400,000/Year Town Road Maintenance Plan

Projects Not in Five-Year Plan

Muni:	LISBON (T)					
Year:	1	2	3	4	5	Backlog
Budget:	400000	400000	400000	400000	400000	0
Expenditures:	396846	402767	357268	279459	71964	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Alta Vista Dr	Hamilton Dr / Wooded Hills Dr	0	Willowview Dr	475	475	24	65	9	8	No Action	0.00		0.0	LCL
Alta Vista Dr	Hamilton Dr / Wooded Hills Dr	475	Cherry Hill Rd	1584	1109	24	70	9	8	No Action	0.00		0.0	LCL
Alta Vista Dr	Willowview Dr	264	Cherry Hill Rd	792	528	20	65	9	8	No Action	0.00		0.0	LCL
Autumn Trl	Bayberry Dr	0	Bayberry Dr	2482	2482	22	70	10	9	No Action	0.00		0.0	LCL
Avon Ct	Termini	0	Termini	1162	1162	22	70	10	9	No Action	0.00		0.0	LCL
Bayberry Dr	CTH KF	0	CTH JK	2587	2587	22	70	10	9	No Action	0.00		0.0	LCL
Beverly Ln	Lauren Dr	211	Micah Rd	739	528	24	70	8	8	No Action	0.00		0.0	LCL
Blackthorn Ct	Termini	0	Bayberry Dr	634	634	22	70	10	9	No Action	0.00		0.0	LCL
Bonnie Ln	Termini	0	CTH V / Town Line Rd	1003	1003	18	55	10	10	No Action	0.00		0.0	LCL
Bramble Dr	Plainview Pkwy	0	Golf View Ln	1689	1689	22	65	9	8	No Action	0.00		0.0	LCL
Brighton Dr	Termini	0	Victoria Cir (2)	792	792	24	70	8	8	No Action	0.00		0.0	LCL
Camelot Ct	Victoria Cir (2)	0	Termini	528	528	24	70	8	8	No Action	0.00		0.0	LCL
Cameron Ct	Termini	0	Thousand Oak Dr	317	317	24	70	9	8	No Action	0.00		0.0	LCL
Canterbury Ln	Termini	0	Victoria Cir (2)	317	317	24	70	8	8	No Action	0.00		0.0	LCL
Carberry St	Plain View Rd	0	Wooded Hills Dr	1689	1689	22	65	9	8	No Action	0.00		0.0	LCL
Carol Ann Ct	Peterson Rd	0	Termini	422	422	24	70	10	9	No Action	0.00		0.0	LCL
Carole Ct	Willowview Dr	0	Termini	317	317	22	65	9	8	No Action	0.00		0.0	LCL
Center Oak Rd	Plain View Rd / Keesus Rd	0	Keesus Rd / Center Oak Rd	1690	1690	24	70	10	9	No Action	0.00		0.0	LCL
Center Oak Rd	Garnnet Ct	106	Keesus Rd / Center Oak Rd	317	211	22	65	10	9	No Action	0.00		0.0	LCL
Cherry Hill Rd	Valleyview Dr	0	Wooded Hills Dr	4752	4752	22	65	9	8	No Action	0.00		0.0	LCL
Chestnut Hill Rd	Woodland Creek Dr / Chestnut Hill Rd	686	Wooded Hills Dr	950	264	22	70	9	8	No Action	0.00		0.0	LCL
Chestnut Hill Rd	Wooded Hills Dr	0	CTH V / Bonnie Ln	2640	2640	22	65	9	8	No Action	0.00		0.0	LCL
Colgate Rd	North Lisbon Rd	2043	CTH Q / Colgate Rd	5702	3659	22	70	10	9	No Action	0.00		0.0	LCL
Conservancy Ct	Wildwood Way	0	Termini	857	857	24	70	9	8	No Action	0.00		0.0	LCL
Courtland Cir	Willow Creek	739	Termini	5861	5122	24	70	10	9	No Action	0.00		0.0	LCL
Coventry Ct	Victoria Cir (2)	0	Termini	317	317	24	70	8	8	No Action	0.00		0.0	LCL
Crooked Bridge Ct	Crooked Bridge Dr	0	Termini	634	634	22	70	10	9	No Action	0.00		0.0	LCL
Crooked Bridge Dr	Termini	0	North Rd	1584	1584	22	70	10	9	No Action	0.00		0.0	LCL
Duplainville Rd	Weyer Rd / Duplainville Rd	0	CTH K	3010	3010	22	70	n/a	0	n/a	0.00		0.0	LCL
Edgewood Dr	Thousand Oak Dr	0	Termini	1056	1056	24	70	9	8	No Action	0.00		0.0	LCL
Ervin Pl	Parkview Dr	0	Quarry Rd	581	581	20	55	10	10	No Action	0.00		0.0	LCL
Esker Ln	Thousand Oak Dr	0	Termini	211	211	24	65	9	8	No Action	0.00		0.0	LCL
Fairview Ln	Homestead Rd / Spring Hill Blvd	0	Homestead Rd	1900	1900	24	70	10	9	No Action	0.00		0.0	LCL
Fieldstone Ln	Wooded Hills Dr	0	Chestnut Hill Rd	1214	1214	18	55	9	8	No Action	0.00		0.0	LCL
Forest Hill Ln	Plainview Pkwy	0	Termini	792	792	22	65	9	8	No Action	0.00		0.0	LCL
Friess Pl	Susan Pl	0	Termini	1056	1056	22	70	10	9	No Action	0.00		0.0	LCL
Golf Ln	Willow Creek	0	Termini	317	317	18	70	10	10	No Action	0.00		0.0	LCL
Golf View Ct	Golf View Ln	0	Termini	158	158	30	65	9	8	No Action	0.00		0.0	LCL
Golf View Ln	Carberry St / Plainview Pkwy	0	Bramble Dr	1057	1057	22	65	9	8	No Action	0.00		0.0	LCL
Good Hope Rd	Hillside Rd	0	Ridgewood Rd / Good Hope Rd	3797	3797	24	70	10	10	No Action	0.00		0.0	MAJ
Good Hope Rd	Ridgewood Rd / Good Hope Rd	950	Maple Ave / Good Hope Rd	1003	53	24	70	10	10	No Action	0.00		0.0	MAJ
Good Hope Rd	Canyon Meadows Ct / Good Hope Rd	1426	Hamilton Dr / Good Hope Rd	2007	581	22	65	10	10	No Action	0.00		0.0	MAJ
Good Hope Rd	Coventry Meadows Ct	0	CTH V / CTH W / Good Hope Rd	422	422	24	70	8	8	No Action	0.00		0.0	MAJ
Hamilton Ct	Termini	0	Hamilton Dr	370	370	22	65	9	8	No Action	0.00		0.0	LCL

# Town of Lisbon - \$400,000/Year Town Road Maintenance Plan

Projects Not in Five-Year Plan

Muni:	LISBON (T)					
Year:	1	2	3	4	5	Backlog
Budget:	400000	400000	400000	400000	400000	0
Expenditures:	396846	402767	357268	279459	71964	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Hamilton Dr	Good Hope Rd	0	Alta Vista Dr / Wooded Hills Dr	1796	1796	24	65	9	8	No Action	0.00		0.0	LCL
Heather Way	Bayberry Dr	0	Termini	634	634	22	70	10	9	No Action	0.00		0.0	LCL
Hickory Chasm Ct	Hickory Chasm Dr	0	Termini	475	475	22	70	9	8	No Action	0.00		0.0	LCL
Hickory Chasm Dr	Woodland Oaks Dr	0	Wilderness Way	2641	2641	24	70	9	8	No Action	0.00		0.0	LCL
Hickory Field Ct	Hickory Rd	0	Termini	737	737	24	70	9	8	No Action	0.00		0.0	LCL
Hickory Rd	STH 164	0	Lake Five Rd	8026	8026	22	70	10	9	No Action	0.00		0.0	MIN
Hickory Rd	Lake Five Rd	0	Hideaway Dr / Hickory Rd	2217	2217	22	70	10	9	No Action	0.00		0.0	LCL
Hickory View Ln	Termini	0	Hillside Rd	561	561	24	55	8	8	No Action	0.00		0.0	LCL
Homestead Rd	Termini	0	Fairview Ln / Spring Hill Blvd	897	897	24	70	10	9	No Action	0.00		0.0	LCL
Indiangrass Ln	Crossover STH 164	0	Termini	1795	1795	24	70	8	8	No Action	0.00		0.0	LCL
Jeanine Ln	Termini	0	Hamilton Dr	792	792	22	65	9	8	No Action	0.00		0.0	LCL
Jerilane Ct	Maryann's Way / Jerilane Ct	581	Courtland Cir	1373	792	24	70	10	9	No Action	0.00		0.0	LCL
Jessy Ct	Termini	0	Courtland Cir	475	475	24	70	10	9	No Action	0.00		0.0	LCL
Kettleridge Ct	Termini	0	White Oak Dr	370	370	24	70	9	8	No Action	0.00		0.0	LCL
Lettie Ln	Willow Creek	0	Termini	211	211	24	70	10	9	No Action	0.00		0.0	LCL
Linden Ln	Fairview Ln	0	Termini	317	317	24	70	10	9	No Action	0.00		0.0	LCL
Lisbon Oaks Dr	Hickory Chasm Dr	0	Thousand Oak Dr	898	898	24	70	9	8	No Action	0.00		0.0	LCL
Longview Dr	Plain View Rd	0	Termini	2798	2798	22	70	10	9	No Action	0.00		0.0	LCL
Lynn Marie Ct	Termini	0	Peterson Rd	475	475	24	70	10	9	No Action	0.00		0.0	LCL
Lynndale Ln	Willow Creek	0	CTH JK	3432	3432	24	70	10	9	No Action	0.00		0.0	LCL
Lynwood Dr	CTH VV	0	Termini	1742	1742	22	70	10	9	No Action	0.00		0.0	LCL
Mary Ann Ct	Termini	0	Sandras Dr	317	317	22	70	10	9	No Action	0.00		0.0	LCL
Micah Rd	Hillside Rd	0	Good Hope Rd	1848	1848	24	70	10	10	No Action	0.00		0.0	LCL
Monarch Ct	Twin Pine Cir	0	Termini	211	211	24	70	9	8	No Action	0.00		0.0	LCL
Monarch Ct	Termini	0	Termini	475	475	38	70	9	8	No Action	0.00		0.0	LCL
North Lisbon Rd	CTH V / Town Line Rd	0	North Rd	10824	10824	22	70	10	9	No Action	0.00		0.0	MIN
Northview Ct	Termini	0	Northview Dr	686	686	22	65	10	10	No Action	0.00		0.0	LCL
Northview Dr	Maple Ave	0	Quarry Rd	1373	1373	22	55	10	10	No Action	0.00		0.0	LCL
Norwauk Rd (2)	Sennott Ct / Sennott Dr	0	River Ln	1053	1053	24	70	9	8	No Action	0.00		0.0	LCL
Oakwood Ct	Termini	0	Oakwood Rd	475	475	22	70	10	9	No Action	0.00		0.0	LCL
Oakwood Rd	Lake Five Rd	0	Termini	2692	2692	20	70	10	9	No Action	0.00		0.0	LCL
Parkview Dr	Northview Dr / Parkview Dr	0	Quarry Rd	1320	1320	22	55	10	10	No Action	0.00		0.0	LCL
Penny Ln	Termini	0	Crooked Bridge Dr	845	845	24	70	10	9	No Action	0.00		0.0	LCL
Peterson Rd	Micah Rd	0	Stonefield Dr / Peterson Rd	1056	1056	24	70	10	9	No Action	0.00		0.0	LCL
Plain View Rd	Maple Ave / Plain View Rd	0	Kathleen Ave / Plain View Rd	3318	3318	22	70	10	10	No Action	0.00		0.0	LCL
Plain View Rd	Maple Ave / Plain View Rd	3960	Kathleen Ave / Plain View Rd	4277	317	24	70	10	9	No Action	0.00		0.0	LCL
Plain View Rd	STH 164	0	Lake Five Rd	5438	5438	22	70	9	8	No Action	0.00		0.0	LCL
Plainview Pkwy	Plain View Rd	0	Carberry St / Golf View Ln	2534	2534	24	65	9	8	No Action	0.00		0.0	LCL
Quarry Rd	Parkview Dr / Northview Dr	528	CTH K	1847	1319	22	55	10	10	No Action	0.00		0.0	LCL
Rolling Hills Dr	Plain View Rd	0	Tamarack Rd	1637	1637	22	70	10	9	No Action	0.00		0.0	LCL
Rudy Jr Ct	Termini	0	Susan Pl	211	211	22	70	10	9	No Action	0.00		0.0	LCL
Sandras Dr	Plainview Pkwy	0	Scott St	897	897	22	70	10	9	No Action	0.00		0.0	LCL
Sandras Dr	Scott St	0	Termini	581	581	22	70	10	9	No Action	0.00		0.0	LCL
Scott St	Sandras Dr	0	Longview Dr	1214	1214	22	70	10	9	No Action	0.00		0.0	LCL
Sennott Ct	Norwauk Rd (2) / Sennott Dr	0	Termini	840	840	24	70	9	8	No Action	0.00		0.0	LCL

# Town of Lisbon - \$400,000/Year Town Road Maintenance Plan

Projects Not in Five-Year Plan

Muni:	LISBON (T)					
Year:	1	2	3	4	5	Backlog
Budget:	400000	400000	400000	400000	400000	0
Expenditures:	396846	402767	357268	279459	71964	

On Route	At Route	At Offset	Toward Route	To Offset	Length	Width	Surface Type	Pvmt Rtg (Year 1)	Pvmt Rtg (Year 5)	Action	Cost	Cap/Maint	Priority Score	Pavement Management Priority Classification (PMPC)
Sennott Dr	Riverview Dr (2)	370	Norwauk Rd (2) / Sennott Ct	638	268	24	70	9	8	No Action	0.00		0.0	LCL
Short Rd	Termini	0	CTH Q	158	158	16	55	9	9	No Action	0.00		0.0	LCL
Spring Hill Blvd	STH 164	0	Fairview Ln / Homestead Rd	370	370	48	70	10	9	No Action	0.00		0.0	LCL
Sunset Ct	Twin Pine Cir	0	Termini	287	287	24	70	9	8	No Action	0.00		0.0	LCL
Susan Pl	Plainview Pkwy	0	Tamarack Rd	2164	2164	22	70	10	9	No Action	0.00		0.0	LCL
Swan Rd	Lindsay Rd / Swan Rd	1637	CTH K	4277	2640	22	70	9	8	No Action	0.00		0.0	LCL
Thousand Oak Dr	White Pine Dr / Woodland Oaks Dr	0	Beacon Hills Dr / CTH VV	7551	7551	24	65	9	8	No Action	0.00		0.0	LCL
Timber Ridge	Thousand Oak Dr	0	Termini	475	475	24	65	9	8	No Action	0.00		0.0	LCL
Twin Pine Cir	Perennial Ter	0	Monarch Ct	1779	1779	24	70	9	8	No Action	0.00		0.0	LCL
Twin Pine Cir	Monarch Ct	0	Termini	106	106	24	70	9	8	No Action	0.00		0.0	LCL
Valleyview Dr	Willowview Dr	0	Cherry Hill Rd	211	211	24	70	9	8	No Action	0.00		0.0	LCL
Valleyview Dr	Willowview Dr	211	CTH V	1056	845	18	65	9	8	No Action	0.00		0.0	LCL
Victoria Cir (1)	Victoria Cir (2)	0	Victoria Cir (2) / Waverly Pl	634	634	24	70	8	8	No Action	0.00		0.0	LCL
Victoria Cir (2)	CTH VV	0	Victoria Cir (1)	4119	4119	24	70	8	8	No Action	0.00		0.0	LCL
Waverly Pl	Victoria Cir (1) / Victoria Cir (2)	0	Termini	264	264	24	70	8	8	No Action	0.00		0.0	LCL
White Oak Dr	Thousand Oak Dr	0	Wilderness Way	1742	1742	24	70	9	8	No Action	0.00		0.0	LCL
White Pine Dr	Thousand Oak Dr / Woodland Oaks Dr	0	Termini	686	686	24	70	9	8	No Action	0.00		0.0	LCL
Wilderness Way	Termini	0	Thousand Oak Dr	3379	3379	22	65	9	8	No Action	0.00		0.0	LCL
Wildwood Way	Hillside Rd	0	Termini	1522	1522	24	70	9	8	No Action	0.00		0.0	LCL
Willow Creek	Courtland Cir	1426	Termini	6442	5016	24	70	10	9	No Action	0.00		0.0	LCL
Willowview Dr	Alta Vista Dr	0	Valleyview Dr	422	422	24	70	9	8	No Action	0.00		0.0	LCL
Willowview Dr	Valleyview Dr	0	Hamilton Dr	1162	1162	22	65	9	8	No Action	0.00		0.0	LCL
Wooded Hills Dr	CTH V / Town Line Rd	0	Alta Vista Dr / Hamilton Dr	4436	4436	24	65	9	8	No Action	0.00		0.0	LCL
Woodside Ct	Termini	0	Hickory Chasm Dr	792	792	24	70	9	8	No Action	0.00		0.0	LCL

32.10 Miles



# REQUEST FOR CONSIDERATION

<b>COMMITTEE CONSIDERATION:</b> Town Board / Administrator
<b>ITEM DESCRIPTION:</b> Texa Scan Tool Equipment from Diesel Laptops
<b>PREPARED BY:</b> Joe DeStefano Jr.
<b>REPORT DATE:</b> 1/25/2018
<b>RECOMMENDATION:</b> To purchase the Texa Heavy Duty Truck & Construction/Off-Road Equipment scan tool kit from Diesel Laptops for \$7,995.00
<b>EXPLANATION:</b>  <p>During the 2017 budget workshops for 2018 the board ok'd \$8,000 for heavy duty truck scan tool equipment. I have been researching all the options that are available and I have decided to recommend to the Board, the purchase of the Texa software through Diesel Laptop. All of the software options can diagnose all types of trucks but Texa is the only one that can also do heavy and light off-road equipment as well as agricultural equipment. The options are endless with Texa. Whereas the other options would do us no good with or off-road equipment. That does come with a bit of a higher price. I laid out the pricing as follows for all options considered:</p> <p><b><u>Texa</u></b></p> <ul style="list-style-type: none"><li>- \$6,695.00 Heavy Duty Truck Only</li><li>- \$6,895.00 Construction &amp; Off-Road Equipment Only</li><li>- <b>\$7,995.00 Combo Heavy Duty Truck &amp; Construction/Off-Road Equipment</b></li><li>- We would do the combo kit</li><li>- 12 – Month Warranty</li><li>- Continues to work after 12 Month Subscription</li><li>- 12 Month Renewal – Basic \$795, Standard \$995, Premier \$1,195</li><li>- We would do the premier which includes a 12 month warranty every renewal. So basically a lifetime warranty. And a free replacement of the Toughbook Laptop every 3 years. The funds for this would come out of our general fund account for vehicle maintenance.</li></ul> <p><b><u>Bosch</u></b></p> <ul style="list-style-type: none"><li>- \$7,000.00 Heavy Duty Truck Only</li><li>- No Construction/Off-Road Equipment Option</li><li>- 12 Month Warranty</li><li>- Read-Only after 12 months if renewal not purchased</li><li>- Yearly renewals are \$800 - \$1,500</li></ul> <p style="text-align: right;">Continued.....</p>

Continued from page 1.....

## JPRO

- \$4,495 Heavy Duty Truck Only
- No Construction/Off-Road Equipment option
- 12 Month Warranty
- Read-Only after 12 months if renewal not purchased
- Yearly renewals are \$1,500 to \$2,500

All these kits come with DTC (diagnostic trouble codes) solutions programs and are updated on an annual basis when we would purchase the renewal package. So this will be a huge help for us diagnosing future problems with the trucks.

Finally,

I would recommend to the Board using Texa so we can get access to all on-road and off-road equipment. Texa's premium annual renewal is reasonable and offers a 12 month warranty every time, so basically a lifetime warranty. Plus you are able to get a new PC, no questions asked, every 3 years. I have talked to the folks at Diesel Laptops and have asked a lot of questions to verify this is the best option for the Town, and I believe it is. Plus there is a 30 day money back guarantee. So we will spend time up front verifying it does what it says within the first 30 days. If we're not satisfied, we can get our money back. I have reached out to a couple of their past costumers and they are very happy with the product.

Also, this is a potential revenue generator for the Town. No other municipality in the area has any kind of equipment like this. We could really help out others while making some money back on the investment.

Respectfully Submitted,

Joe DeStefano Jr.





# Meet TEXA

**ALL MAKES DEALER LEVEL DIAGNOSTIC KIT**

**Every Truck...Every Piece Of Equipment...  
Every Engine, Transmission, ABS...  
EVERYTHING!**





# Meet TEXA

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# MEET DIESEL LAPTOPS

## **OUR MISSION**

To learn the needs of our customers and make available the best tools while providing the highest level of service at the best value possible.

## **ABOUT US**

Started by Tyler Robertson, with 20 years of service experience in the heavy truck industry, Diesel Laptops began as an e-commerce venture in 2011. In just five short years, Diesel Laptops has grown at an amazing rate year after year in annual sales. Diesel Laptops diagnostic products and services cover virtually everything on commercial trucks and equipment, including diesel engines, electronic transmissions, ABS systems and much more.

## **ONE STOP SOLUTIONS PROVIDER**

When it comes to diagnostics, we carry everything to meet your needs; from cables and adapters to OEM software to complete diagnostic kits. Everything we carry is of the highest quality and offered to you at the best value possible.

## **TECH SUPPORT**

We believe in providing a high level of technical support with local, USA based technical support representatives. All we do is diesel diagnostic equipment, and we consider ourselves the experts on the software we offer and the trucks and equipment you work on. We have extended hours to cover our West Coast customers, and we take every opportunity to work with you and to help you learn the tools we provide. For larger corporations, we can work with our IT team to meet your specific security and networking needs.

## **CONSULTATIVE APPROACH**

We never try to sell something based on our needs. Rather, we identify what our customers' needs are and make well thought-out recommendations based on those needs.

## **DIESEL LAPTOPS EXCLUSIVE 100% SATISFACTION MONEY BACK GUARANTEE**

If you're not completely satisfied with your purchase, you can return it within 30 days of receipt for a full refund. All refunds will be paid within 5 business days of receipt. For software only purchases, once the software has been licensed it cannot be returned. Software that is included with kits may be returned with equipment if not completely satisfied.



# IT'S ALL ABOUT RETURN ON INVESTMENT...

## PROFITS UP...

For many commercial vehicles, diagnostic software is extremely expensive...as much as \$2,000 per year. While for others, the software simply is not available.

The Diesel Laptops all makes tool with dealer level functionality can create new opportunities, open new revenue streams and help you grow your business.



## COSTS DOWN...

- Eliminate high dollar mandatory renewals
- Reduce repair fees from dealers and repair facilities
- Minimize truck down time
- Increase productivity
- Improve efficiency



# Finally, One Tool That Has It All...

## The Coverage You're Looking For...

- Cummins
- Detroit
- CAT
- International
- Volvo
- Mack
- Peterbilt
- Kenworth
- PACCAR
- Freightliner
- Western Star
- Sterling
- Hino
- Isuzu
- Fuso
- UD
- Ford
- GM
- Dodge
- Allison
- Eaton
- Bendix
- Meritor

And More!



## And The Bi-Directional Functionality You Need...

- Forced Regens
- Cylinder Cut Out
- Change Setting
- Change Parameters
- EGR and Valve Calibrations
- DPF Accumulator Resets
- Injector Programming
- Read and Clear Codes

And Much, Much More!!!



## TEXA KIT ADD-ONS

If your diagnostic needs go beyond commercial truck, we have a number of different solutions for you...

### TEXA OFF HIGHWAY MODULE

**The Off Highway Diagnostic Tool You've Been Looking For Is Finally Here...**

When it comes to off highway diagnostics for construction and agriculture equipment such as CAT, John Deere, Case, Komatsu, and more, look no further than the TEXA Diagnostic Module for Off Highway. This tool will allow you to connect to engines, cab controllers, hydraulic systems, GPS, and a variety of others. You can run a variety of commands including stationary regens, cylinder cut-out tests, joystick calibrations, injector programming, and thousands of other commands (coverages are listed on back).

We offer Texa Off-Highway as a stand-alone kit as well as an add on to our Texa All Makes Dealer Level Truck Diagnostic Kit. Best of all, your tool will require no installation or configuration; Open The Box, Connect it to your vehicle/equipment, go to work



### TEXA MARINE MODULE

For marine diagnostics, TEXA has the dealer level coverage you are looking for. When you combine the power of the marine diagnostic software, the TXB communication adapter, and the Panasonic Toughbook CF30, you have an unbeatable pairing.



### TEXA BIKE MODULE

TEXA maintains its unquestioned leadership of the BIKE sector (motorcycles, quads, jet-skis, snowmobiles and ATVs) with the NAVIGATOR TXTs and NAVIGATOR TXB Evolution, the diagnostic interface adopted by some of the world's leading motorcycle manufacturers. The NAVIGATOR interfaces utilize Bluetooth technology for greater flexibility in diagnosis and, with BIKE software, represent the most reliable, effective and complete solution today on the market.



Coverage, coverage, coverage. In the professional repair business getting as much coverage as you can is important to effectively and quickly service any vehicle. We offer enhanced coverage options for 52 car brands...and with no mandatory renewals. Choose from our bundles that include all Domestic, all Asian and/or all European. Or mix and match to suit your specific needs.





## DEMONSTRATIONS

For a more in depth look at the functionality of Texa, please click the links below to view recording of live diagnostic sessions in the field.

### TEXA TRUCK

- [2009 Volvo with Cummins ISX](#)
- [2010 Volvo VN with Volvo Engine](#)
- [2007 Freightliner with MBE4000 \(2004 Emission Level\)](#)
- [2008 Cummins ISM - Performing a Regen](#)
- [2008 Cummins ISM – Texa Truck Overview With Forced Regen](#)
- [2005 CAT C15 – Texa Truck Overview With Injector Programming](#)
- [2005 CAT C15 – Texa Truck Overview With Injector Programming + More Detail](#)
- [2007 Freightliner with Detroit Engine](#)
- [2007 Freightliner with Wabco ABS](#)
- [2006 Freightliner with Detroit Series 60](#)
- [Kenworth with CAT C15 Engine](#)
- [2007 International with DT570 Engine](#)
- [2006 CAT C13 Engine \(Done on our workbench\)](#)
- [2003 Sterling with CAT Engine](#)
- [2014 Hino with J08E Engine](#)
- [TEXA Truck - Ford PowerStroke now added!](#)
- [TEXA Test Drive Feature](#)

### TEXA OFF HIGHWAY

- [TEXA Off Highway Construction & Agriculture Diagnostic Laptop Kit Overview](#)
- [2016 Link Belt with FPT Engine](#)
- [CAT 315CL Excavator WITH Hydraulic System Functionality](#)
- [Dealer Level Diagnostics on a Bell 930E Dumper with Mercedes OM407 Tier 4 Engine](#)
- [TEXA Off Highway on a John Deere 7820 - Total Scan, Engine, Transmission, & Lift Diagnostics](#)
- [TEXA Off Highway on CAT 316 Excavator - DPF Regen, Injector Coding, & More](#)
- [Performing dealer level commands on CAT equipment without CAT Software](#)
- [Dealer level diagnostic on a John Deere 8430 with TEXA](#)



## ENGINE

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa Truck
<b>International</b>	Limited To: ❖ 1994-2006 Engines ❖ EPA 2007 & EPA 2010	Limited To: ❖ Pre-2007 Commands: 0 ❖ 2007 & Newer Commands:2	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE ❖ Pre-2007 Commands: 31 ❖ 2007 & Newer Commands:55
<b>Cummins</b>	SOFTWARE MODULE IS NOT SHOWN AS AVAILABLE	Limited To: ❖ Pre-2007 Commands: 1 ❖ 2007 & Newer Commands: 9	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE ❖ Pre-2007 Commands: 107 ❖ 2007 & Newer Commands: 71
<b>Detroit</b>	Limited To: ❖ DDEC (II, III, IV and V) Engines 1987–2006 ❖ ADDITIONAL: DDEC 6, 10, 13/ Series 60/MBE Engines 2007-2013	Limited To: ❖ Pre-2007 Commands: 1 ❖ 2007 & Newer Commands: 6	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE ❖ Pre-2007 Commands: 72 ❖ 2007 & Newer Commands: 150+
<b>CAT</b>	Limited To: ❖ Only covers model years 1990–2003	Read Only	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters. EX; 2004 CAT – 30 commands and and activations as compared to Texa with 107.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE. Includes: ❖ Forced Regens ❖ Injector programming ❖ Cylinder Cut Out Tests ❖ Etc...
<b>VOLVO/MACK</b>	LIMITED TO: ❖ Read active faults ❖ Read and clear inactive faults ❖ View diagnostic parameters ❖ Performs around 25 bi-directional commands	LIMITED TO: ❖ Pre-2007 Commands: 0 ❖ 2007 & Newer Commands:8	READ ONLY 2012 AND OLDER	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE ❖ Pre-2007 Commands: 100+ ❖ 2007 & Newer Commands:164



## ENGINE

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa Truck
<b>PACCAR</b>	NOT AVAILABLE	NOT AVAILABLE	Commands are almost on par with Texa, but extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>HINO</b>	NOT AVAILABLE	NOT AVAILABLE	Commands are almost on par with Texa, but extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>ISUZU</b>	NOT AVAILABLE	NOT AVAILABLE	Commands are almost on par with Texa, but extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>UD</b>	NOT AVAILABLE	NOT AVAILABLE	Commands are almost on par with Texa, but extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>FUSO</b>	NOT AVAILABLE	NOT AVAILABLE	Not all codes are defined. CANNOT PERFORM FORCED REGENS	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>SPRINTER</b>	NOT AVAILABLE	2007-CURRENT: ❖ Total Commands: 14	Commands are almost on par with Texa, but extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE ❖ Total Commands: 280 Engine ❖ Trans/ABS: 100+
<b>Ford</b>	NOT AVAILABLE	Limited To: ❖ 2004 to 2015 Ford models F-Series, E-Series, Transit Connect, and Transit Vehicles. ❖ Only works on F-350 & Smaller. ❖ Ability to read and clear faults, freeze frames, sensor data and display emission test results ❖ Can run diagnostic tests on Ford components such as Key On Engine Off (KOEO) On Demand Self Test	ONLY WORKS WITH CLASS 6 AND UP (F650, F750)	Complete Diesel engine coverage from F-250 & Up. Includes coverage of ABS, body controllers, transmission, and more. See this video for examples: <a href="https://youtu.be/kv--kd0vaKk">https://youtu.be/kv--kd0vaKk</a>
<b>GM</b>	UNDER LIGHT AND MEDIUM DUTY TRUCK LIMITED FUNCTIONALITY	Only supports 2002 to 2015 GM models GMC & Chevy 1500, 2500, 3500, GMC Express & Chevy Savana, all GM Medium Duty Vehicles	ONLY WORKS WITH CLASS 6 AND UP (6500, 7500)	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE FOR DIESEL ENGINES IN 2500 & UP
<b>DODGE (with Cummins)</b>	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE

## TRANSMISSION

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa Truck
<b>Allison</b>	GEN IV, 1K/2K, WTEC, CEC1	Read Only	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Eaton</b>	Add-On Software: Nexiq does not publish their actual coverage.	Read Only		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Volvo iShift</b>	NOT AVAILABLE	NOT AVAILABLE		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Mack mDrive</b>	NOT AVAILABLE	NOT AVAILABLE		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Freightliner Detroit Automatic</b>	NOT AVAILABLE	NOT AVAILABLE		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE

## ABS

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa Truck
<b>Meritor Wabco</b>	Add-On Software: Does Not Show Coverage/Functionality	Read Only Or Purchase Add-On For Additional Upfront And Yearly Charge	While diagnostic commands are almost on par with Texa, tool is extremely limited in the ability to change parameters.	FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Bendix</b>	Add-On Software: Does Not Show Coverage/Functionality	Read Only Or Purchase Add-On For Additional Upfront And Yearly Charge		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Haldex</b>	Add-On Software: Does Not Show Coverage/Functionality	Read Only Or Purchase Add-On For Additional Upfront And Yearly Charge		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE
<b>Wabash</b>	Add-On Software: Does Not Show Coverage/Functionality	Read Only Or Purchase Add-On For Additional Upfront And Yearly Charge		FULL SPECTRUM OF BI-DIRECTIONAL FUNCTIONALITY ACROSS ENTIRE LINE

## OFF HIGHWAY

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa OHW (Add-On Sold Separately)
<b>Coverage and Functionality</b>	NOT AVAILABLE	NOT AVAILABLE	BOSCH: NOT AVAILABLE COJALI: Limited coverage and functionality	BI-DIRECTIONAL FUNCTIONALITY ON ALL MAJOR OEs (Over 80 Listed)



## COST

	Snap On Ultra	JPro	Bosch / Cojali Jal-Test	Texa Truck
<b>Estimated Upfront Cost</b>	\$10,000 - \$16,000 Starter: \$3,450, Then Add-On Each OEM...	\$5,000 - \$6,000	\$7,000 - \$11,000 Depending on distributor	\$6,695 Truck Kit
<b>100% SATISFACTION GUARANTEE</b>	NOT AVAILABLE	NOT AVAILABLE	NO	YES
<b>Mandatory Yearly Renewals</b>	NONE (Must Buy New "Versions" Of Software As They Are Released)	\$1,618 (Plus – All OE Software That You Subscribe to)	\$1,600	NONE
<b>Optional Yearly Renewal With No Penalties For Missed Years</b>	Nexiq charges you for software updates for each OEM software that you use, but they will not tell you the cost until the updates are made available...Which means you are buying into a system and have no idea of what future costs will be.	NOT AVAILABLE	NOT AVAILABLE	\$795 Truck \$350 OHW
<b>Tech Support</b>	Software Only. Snap On does not give any support on this tool. You must go through Nexiq for all support.	Software and Connectivity Only	With Bosch, very limited in support and knowledge of vehicles. With Cojali, support is provided from Spain	Software Connectivity Windows Hardware All Makes, Models and Components.

## TEXA COVERAGE FOR OFF-HIGHWAY EQUIPMENT

(Offered As A Stand-Alone Kit As Well As An Add On)

When it comes to off highway diagnostics for construction and agriculture equipment such as CAT, John Deere, Case, Komatsu, and more... Look no further then than TEXA for Off Highway.

Allowing you to connect to engines, cab controllers, hydraulic systems, GPS, and a variety of others; you can run a variety of commands including stationary regens, cylinder cut-out tests, joystick calibrations, injector programming, and thousands of other commands.



### TEXA OFF HIGHWAY EQUIPMENT COVERAGE

#### Engines

Caterpillar  
 Cummins  
 Detroit  
 Deutz  
 FPT (Iveco Motors)  
 Isuzu  
 John Deere  
 Kohler  
 Kubota  
 Mercedes-Benz  
 MTU  
 MWM  
 Perkins  
 Scania  
 Sisu  
 VM Motori  
 Volvo Penta

#### Construction Vehicles

Astra  
 Bell  
 Bobcat  
 Carraro  
 Case  
 Caterpillar  
 Doosan  
 Fiat-Kobelco  
 Hamm  
 Hitachi (Fiat-Hitachi)  
 Hyundai Construction Equipment  
 JCB  
 John Deere Construction Equipment  
 Kassbohrer Gelandefahrzeug  
 Kobelco  
 Komatsu  
 Kramer  
 Kubota  
 Liebherr  
 Linde  
 Linkbelt  
 Merlo  
 New Holland  
 O&K  
 Perlini  
 Pettibone  
 Randon  
 Sandvik  
 Sunward  
 Takeuchi  
 Terex  
 Tiger Cat  
 Volvo Construction Equipment  
 Wacker Neuson  
 Xtreme

#### Agriculture Vehicles

Buhler Versatile  
 Carraro  
 Case IH  
 Caterpillar  
 Challenger  
 Claas  
 Deutz-Farh  
 Dieci  
 Energreen  
 Faresin  
 Fendt  
 Franz Kleine  
 Hurlimann  
 JCB  
 JLG  
 John Deere  
 Kamaz  
 Krone  
 Kubota  
 Lamborghini  
 Landini  
 Laverda  
 Lindner  
 Mac Don  
 Manitou  
 Massey Ferguson  
 McCormick  
 Merlo  
 New Holland  
 Renault Agriculture  
 Ropa  
 Same  
 Steyr  
 Ursus  
 Valtra

#### Crane Truck/Container Truck

Cometto  
 CVS Ferrari  
 Fantuzzi  
 Grove  
 Hyster  
 Hyundai  
 Kalmar  
 Liebherr  
 Oto  
 Tadano Faun  
 Terberg  
 Terex



## DIESEL LAPTOPS EXCLUSIVE TEXA KITS...

**Plug and Play – Open The Box, Plug It In, Go To Work.**

Another Diesel Laptops exclusive is our **Complete Kit** solution. Everything you need, installed-licensed-configured. Used by NATO, military, and police forces, this is the toughest laptop you will find on the planet. You can drop it on concrete, get it wet, run it over with a car...it will keep on ticking. The hard drive is shock mounted to prevent failure, and the doors are all waterproof. We use this model laptop because it will withstand the daily abuse that it gets in a diesel shop or in the field.



### **BUDGET: CF30**

**(Standard On Texa Truck Kit and Texa OHW Kit)**

Panasonic CF30 Tough Book: Certified Microsoft Refurbished...

- New Screen
- New Keyboard
- New Trackpad
- New Solid State Hard Drive - 120GB
- New RAM - 4GB
- CPU - Intel Core Duo (Centrino Duo)
- Custom Rhino lining on the top lid!
- 1 year warranty on parts and labor



### **PERFORMANCE: CF31**

**(Standard On Tex Truck + OHW. Upgrade available on all Texa kits)**

Panasonic CF31 Tough Book: Certified Microsoft Refurbished...

- New Touch Screen
- New Keyboard
- New Trackpad
- New Solid State Hard Drive - 120 GB
- New RAM - 8GB
- CPU - i5
- Custom Rhino lining on the top lid!
- 1 year warranty on parts and labor



**Microsoft**  
AUTHORIZED  
Refurbisher

STATE OF THE ART:

# AXONE NEMO



The brand new AXONE Nemo has been designed according to military standards for heavy duty use in the toughest environments and offers a whole series of advantages compared to a standard PC.

Fast, reliable and specifically customized to run IDC5 flawlessly, the AXONE Nemo is the kind of tool that a professional shop deserves.

- Comes with an operating software that is completely immune to viruses and all the compatibility problems typical of conventional PCs.
- 12 inch ultra-wide QHD Gorilla Glass display for heavy duty use.
- Permits the use of interchangeable modules with practical magnetic fittings that add innovative diagnostic and testing functions.
- Uses IDC5, the latest generation of TEXA's renowned operating system.
- Dual 5 Megapixel cameras (one front facing and one rear facing).
- Intel® Quad Core N3160 Processor with 8 GB of RAM and 250 GB of storage.
- Dual Band Wi-Fi and Bluetooth® 4.0 Low Energy Module.
- Sensor area: gyroscope, altimeter, barometer, accelerometer, compass.
- [Please watch our video review by clicking here.](#)

## UPGRADE AVAILABLE ON ALL TEXA KITS

# COMING SOON



## TEXA eTruck

### The Evolution of Remote Diagnostics

- Developed for Truck Workshops
- Easy to Install Compact Design
- Suitable for OBD (16 and 9 pin)
- Driver app with live vehicle data, driving style and driving hours
- Fleet Manager Portal with vehicle/repair status, driving data and shared activities with workshops
- Workshop Portal with real time diagnosis and remote intervention.



[www.diesellaptops.com](http://www.diesellaptops.com)



# ELIMINATE THE FRUSTRATION OF CODE LOOK-UPS!

**DTC Solutions; The industry's most concise and easiest-to-use software when deciphering engine fault codes.**

Obtaining the code is one thing, but knowing how to fix it is another!

DTC Solutions is a database of all major engines (CAT, Cummins, Detroit, Mack, Volvo, International, MBE, Isuzu), transmissions (Allison, Eaton), and ABS Systems (Wabco & Bendix).

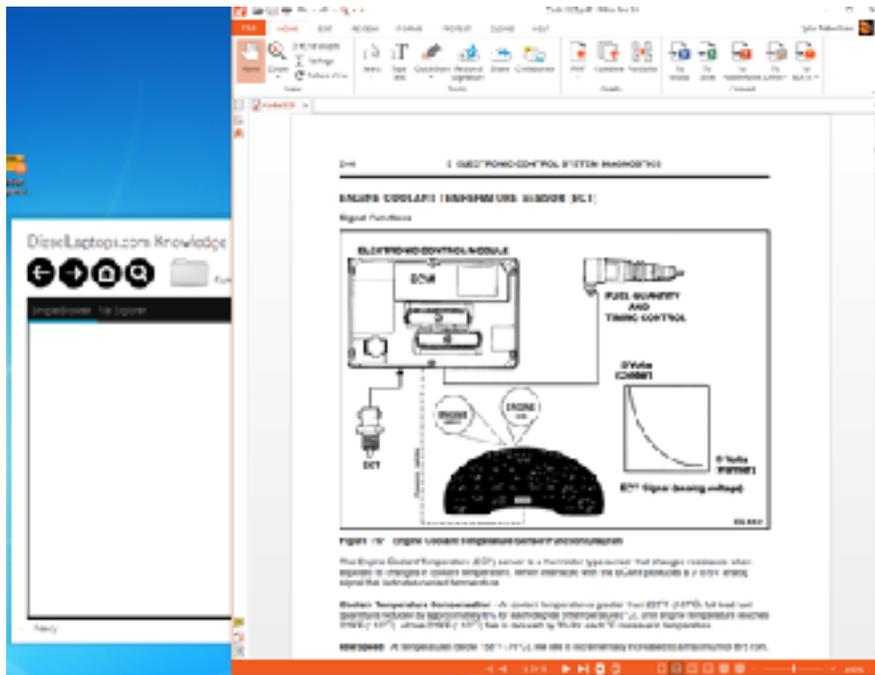
Simply pick your ECM, pick your code, and see the solution on how to troubleshoot it!

This proprietary software solution is a database for all major OEMS; engine, transmission and ABS.





## DIESEL LAPTOPS KNOWLEDGE BASE



The final piece of the puzzle is getting the repair information you need, and what better source than the OEM Service Manuals. We have restructured each of these service manuals to make finding your repair information you need quick and easy. Includes all major OEM Service Manuals.

Get rid of costly subscriptions for troubleshooting and repair information. With DTC Solutions and the Diesel Laptops Knowledge Base, everything you need is a mouse click away.

## TRAINING AND TECH SUPPORT

Getting the right tools is one thing. Knowing how to use them is another. No matter how tech savvy – or unsavvy – you are, learning a new piece of software can be a struggle. That is why we load your Texa Kit with our own training videos that will get you up and running like a pro. If you need custom training, just let us know.

Of course, you'll need ongoing support. And once again, we have you covered. We have one simple request...if you're on a vehicle or piece of equipment for 5 minutes and can't figure it out, call the Diesel Laptops Tech Support Team. We'll "Team Viewer" into your laptop and walk you through everything you need to get you up and running.





## DIESEL LAPTOPS TEXA TRUCK/OHW SUPPORT PACKAGE

The TEXA Truck and OHW software packages will never expire. All updates and support from Diesel Laptops are included in the first year pricing. For extended support and equipment protection/replacement, the following options are available:

LEVEL 1 BASIC	LEVEL 2 STANDARD	LEVEL 3 PREMIERE
<p>This package includes the following:</p> <ul style="list-style-type: none"> <li>❖ 12 Months of Updates for TEXA Truck Software</li> <li>❖ 12 Months of Updates for DTC Solutions</li> <li>❖ Basic support for connection &amp; software related issues.</li> </ul>	<p>Our Standard Support level gives increased technical support to our clients.</p> <ul style="list-style-type: none"> <li>❖ 12 Months of Updates for TEXA Truck Software</li> <li>❖ 12 Months of Updates for DTC Solutions</li> <li>❖ Basic support for connection &amp; software related issues.</li> <li>❖ 12 Months of Updates for Knowledge Base/Service Manuals</li> <li>❖ Advanced diagnostic support for help with obtaining additional diagnostic troubleshooting, repair information, wiring diagrams, or whatever else you need to troubleshoot a truck properly</li> <li>❖ Advanced PC support which covers virus removal, Windows related issues, and other PC related problems</li> <li>❖ FREE Next Day Air shipping on replacement parts (Customer is responsible for cost of the parts)</li> </ul>	<p>Our Premiere Support level gives the highest level of technical support to our clients.</p> <ul style="list-style-type: none"> <li>❖ 12 Months of Updates for TEXA Truck Software</li> <li>❖ 12 Months of Updates for DTC Solutions</li> <li>❖ Basic support for connection &amp; software related issues.</li> <li>❖ 12 Months of Updates for Knowledge Base/Service Manuals</li> <li>❖ Advanced diagnostic support for help with obtaining additional diagnostic troubleshooting, repair information, wiring diagrams, or whatever else you need to troubleshoot a truck properly</li> <li>❖ Advanced PC support which covers virus removal, Windows related issues, and other PC related problems</li> <li>❖ FREE Next Day Air shipping on replacement parts (Customer is responsible for cost of the parts)</li> <li>❖ FREE Replacement Laptop every 3 years</li> <li>❖ 100% Warranty Coverage on your laptop and TXT hardware. This does not cover abuse/damage, only failure in workmanship or defects.</li> </ul>
<p>One Time Payment: \$795 Add OHW: \$350</p>	<p>One Time Payment: \$995 Add OHW: \$350</p>	<p>One Time Payment: \$1,195 Add OHW: \$350</p>



## **“Your (TEXA) tool saved the day” - Travel Centers of America**

In August of 2016, After seeing a brief demo of the Texa All Makes Dealer Level Diagnostic Kit in Lexington KY, TA/Petro decided they wanted to see what the Texa diagnostic tool could do in a real world environment. Here are the results...

On a Sunday morning, Robert Coffman at the Gary, Indiana location called his Diesel Laptops Rep for help. Within minutes he was up and running. 2 hours later he sent the following email:

*“We had a 2013 D 13 Volvo. I was able to pull all the information I needed to fix the truck with your System. We started with the J-pro system and quickly realized we were not going to get anywhere. Your tool saved the day today. I will be sure to let the people above me know. Fixed truck and a happy customer. Thanks”*

Three days later, there was another incident where their J-pro tool fell short, but the Texa Tool was used to save another day, as well as a great deal of money. The following is an email exchange of the details:

*“On Monday evening we had a truck towed in for a stop engine / Regen issue... We looked into the issues using the J-pro software... but could not clear the soot level code...”*

*“We tried to do a manual regen from the computer and from the truck. Both were unsuccessful. We tried to reset the soot level from the J-pro and it still would not clear the code. The stop engine light was on and the engine would only run for 20 seconds then shut off...”*

*“Going from the advice from the dealership, we made a deal with the customer that if we cleaned his DPF and it worked out then he would pay full price, if I had to have him towed to the dealer I would discount all of my labor.”*

*“The next day Daniel Mustaffa called me and told me to grab the new Texa Software from the Petro in Gary IN. I found that the soot level in the ECM was reading at 212%. I then found where to reset that. I was able to reset it and the code went away. I was able to regen the truck and the engine is running great now. I would not have been able to do this with the J-pro. We tried to reset the ash count with the J-pro but could not. If we would have not had the Texa software, the truck would have been towed to the dealer to be repaired. The customer ended up spending \$2,000 for all of the services with us.*

**TA Petro has added now added the Diesel Laptops Texa kit to strategic locations throughout the country and has already begun plans for a full nationwide rollout.**



## **Bruckner's Says "The TEXA [Kit] from Diesel Laptops is by far the best we have used on the market".**

Bruckner's is a large chain of dealers throughout the western US, with 26 locations. They carry Volvo/Mack, Hino, and many more. The following email was sent to ALL service managers..

"A few months ago we had the opportunity to test a new laptop for all makes that is on the market. I am always a little skeptical of vendors who say their Diagnostic Equipment will do what they say it can. This one does exactly that though. We tested the unit on Mack, Volvo, Cat, Cummins, Detroit, Mercedes, Paccar's MX, Hino, and Isuzu. The Hino and Isuzu applications were absolutely amazing. The operation is a little different than what we are used to seeing but they have tutorials on line that are excellent and make usage very simple. This unit has a communication box that is wireless and works great so we don't have a bunch of cables hanging everywhere. When you order it has a troubleshooting feature built into the laptop for diagnostic trouble codes and diagnostic trees that are straight from the OEM manuals.

This unit has bi-directional controls and does basically everything you will need except a reprogram on the factory level. You can reset parameters, set trim codes, read body control modules, view live data stream, and perform diagnostic test(cylinder cut out test and actuate components). We are currently using a JalTest here in Angelo for our all makes customers and the TEXA program from Diesel Laptops is by far the best we have used on the market.

The tech support is top notch. They guaranteed if they don't answer the phone leave a message and they will call you back within the hour and they have stuck to that every time we have called them. If there does happen to be an issue, from our experience so far, I feel they will handle it quickly and effectively."



## REFERENCES FOR TEXA TRUCK

### SSPMI

Truck/Trailer Repair  
James James  
(904) 271-5274  
james.james1313@aol.com

### Redline Service

Auto Repair & Service  
Jason Rizzo  
(505) 720-8479  
Note: Traded in a Bosch unit

### Sweeping South

Sweep/Dump Truck Service  
Dwayne  
(404) 791-7579  
Dwayne@sweepingsouth.com

### Huggins Diesel

Mobile Service  
Sam  
(931) 994-9019  
samhug@att.net

### AAA Car Care Plus

Auto Repair & Service  
Ben Lewis  
(614) 559-0000  
blewis@aaaohio.com

### Chad Hullender

(423) 364-6129  
dieseldoc1@live.com

## REFERENCES FOR TECHNICAL SUPPORT AND CUSTOMER SERVICE

### Stewart's Mobile Service

Truck/Trailer Repair  
Joanna  
(910) 874-4546  
j.stewartsmobile@gmail.com

### K.C. Fleet Services

Truck/Equipment Repair  
Chuck Shultz  
(631) 841-3705  
chuck@24hrroadservice.com

### S & S Truck Specialties

General Repair/Mobile Service  
Clint or Jessica  
(970) 361-0007  
sstruckspecialties@yahoo.com

# PORTABLE DPF

## Diesel Particulate Filter Cleaning Machine

A great solution for cleaning your DPFs on virtually all truck models on sale now at [DieselLaptops.com](http://DieselLaptops.com) for just

**\$8,500**

Payments as low as

**\$186**/month



## WHY CONSIDER A PORTABLE DPF CLEANING MACHINE?

- » Every commercial truck since 2007 (Over 1.7 million of them!) has a DPF that needs to be cleaned at a regular intervals - Create a new revenue stream for your shop.
- » Save time and money by cleaning your own filters instead of outsourcing them to another facility.

## PRODUCT FEATURES:

- » DPF filter cleaning results: > 99.9%
- » Works with ALL on-highway commercial trucks.
- » Fully automated operation with minimal operator oversight.
- » Cleans filters with diameters ranging from 6.6 inch - 15.7 inch.



For more information and a full list of product features visit us online at [www.diesellaptops.com](http://www.diesellaptops.com)



ESI[Truck] HD Diagnostics

Unmatched Coverage  
& Repair Information



**BOSCH**  
Invented for life

# ESI[Truck] Coverage and Repair Information

## Increase Shop Efficiency

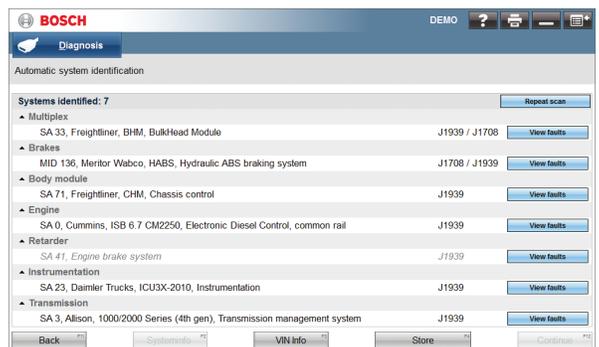
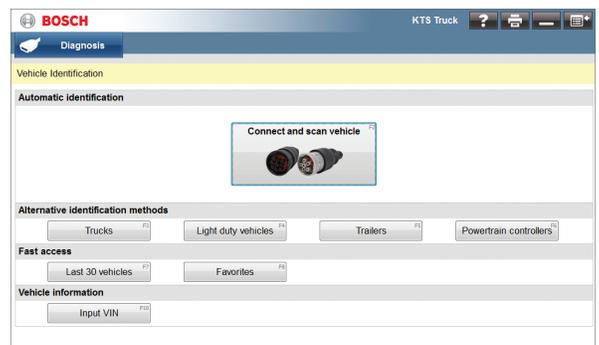
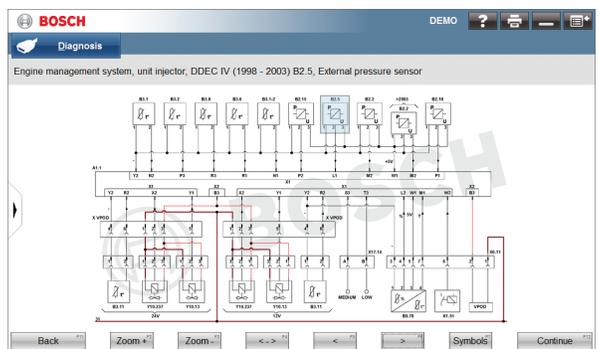
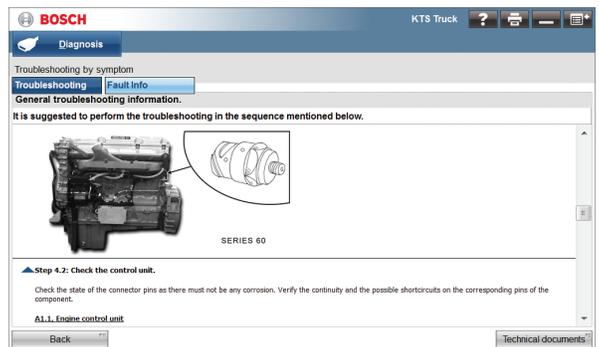
- ▶ Fault code report for entire truck
- ▶ Key system test
- ▶ Repair Info at the truck
  - Wiring Diagrams
  - Component Pictures & Locations
  - Test Procedures & Descriptions
  - DTC Look-up
- ▶ Automatic Vehicle ID

## Single, Intuitive Interface

- ▶ Work on all trucks with a common scan tool
- ▶ Intuitive, easy to use



Bluetooth wireless capability.



## Functions Mechanics Need

- ▶ Read & clear fault codes
- ▶ Cylinder cut-out
- ▶ Cylinder compression/balance
- ▶ Injector actuations
- ▶ Key component actuations
- ▶ Key system tests

READ FAULTS - Engine management system, unit injector, DDEC IV (1998 - 2003)

FAULT(S) STORED IN MEMORY:7			
FAULT CODE	FAULT DESCRIPTION	FAULT STATUS	COUNTER
SID:52 FMI:3	Driver device 4 auxiliary output. Current too high or short circuit caused by overvoltage.	ACTIVE FAULT	1
PID:91 FMI:4	Pedal position sensor. Current too low or short circuit caused by undervoltage.	ACTIVE FAULT	1
PID:100 FMI:4	Engine oil pressure. Current too low or short circuit caused by undervoltage.	ACTIVE FAULT	1
SID:250 FMI:12	Data linking SAE J1708 (J1587). Control unit or component defective.	INACTIVE FAULT	20
PID:111 FMI:3	Coolant level. Current too high or short circuit caused by overvoltage.	ACTIVE FAULT	1
SID:51 FMI:3	Driver device 3 auxiliary output. Current too high or short circuit caused by overvoltage.	ACTIVE FAULT	1
PID:102 FMI:4	Charge air pressure. Current too low or short circuit caused by undervoltage.	ACTIVE FAULT	1

## Works with Other Software

- ▶ RP1210 VCI
- ▶ Compatible with industry software including most OEM's

Vehicle Identification

Select a brand	Select a model family	Select a model
CAPACITY	ALL	108 SD [ 2012 - ... ]
FREIGHTLINER	Argosy	114 SD [ 2012 - ... ]
INTERNATIONAL	Cascadia	122 SD [ 2013 - ... ]
KENWORTH	Century Series	Argosy [ 1999 - 2010 ]
MACK	Classic	Business Class M2 100/106 [ 2003 - ... ]
PETERBILT	Columbia	Business Class M2 106V/112V [ 2... ]
SAE STANDARD	Condor	Business Class M2 112 [ 2004 - ... ]
STERLING	Coronado	Cascadia Evolution [ 2013 - ... ]
VOLVO U.S.A.	FC Series	Cascadia [ 2008 - ... ]
WESTERN STAR	FL Series	Century C 112 [ 1997 - 2001 ]
WORKHORSE	FLB Series	Century C 120 [ 1997 - 2001 ]
OBID	FLC Series	Century Class S/T 112 [ 2002 - 20... ]
	FLD Series	Century Class S/T 120 [ 2001 - ... ]
	FLL Series	Classic 120 [ 1992 - 2010 ]



Vehicle Identification

Select a brand	Select a model family	Select a model
AISIN	ALL	ISB
ALLISON	Caltest	ISC
BENDIX	Centinel	ISD
CATERPILLAR	Centry	ISF
CUMMINS	Gas	ISL
DETROIT DIESEL-MBE	IS	ISM
DEUTZ	IS	ISX
EATON	IS	ISZ
FREIGHTLINER	IS	
HALDEX USA	IS	
IVECO	IS	
MACK	IS	
MB	IS	
MERITOR WABCO	IS	

## Best Aftermarket Coverage

- ▶ Truck Brands  
Freightliner, International, Kenworth, Mack, Volvo, Peterbilt, Sterling, Western Star
- ▶ Engine Brands  
Cummins, Caterpillar, Detroit Diesel-MBE, Volvo Mack, Navistar, PACCAR, Perkins, Deutz, MTU
- ▶ Brake Systems
- ▶ Transmissions
- ▶ Trailer ABS
- ▶ In-Depth Heavy Duty, Medium Duty
- ▶ Light Duty basic

# ESI[Truck] Ordering Information

## Bosch ESI[truck] 3824

- ▶ Includes ruggedized 10" tablet
- ▶ RP1210 Data Link Adapter
- ▶ 6 Pin, 9 Pin, and 16 Pin Connectors
- ▶ ESI[truck] Diagnostics Software
- ▶ External DVD Drive
- ▶ One year warranty



## Bosch ESI[truck] 3824BSC

- ▶ RP1210 Data Link Adapter
- ▶ 6 Pin, 9 Pin, and 16 Pin Connectors
- ▶ ESI[truck] Diagnostics Software
- ▶ One year warranty



## Bosch ESI[truck] Trailer Adapter 3824-06

### 7-pin PLC adapter for trailer ABS diagnostics

- ▶ J2497 Power Line Carrier (PLC) communication compatible
- ▶ Allows direct connection to trailer
- ▶ Works with tractor present or without the tractor present  
– External power supply is necessary without tractor
- ▶ Bosch ESI[truck] trailer ABS coverage for Bendix, Haldex, Meritor Wabco and Wabash systems



## Bosch ESI[truck] 9 Pin Adapter Cable High Speed Comm 3824-10

- ▶ 9-pin heavy-duty diagnostic connector
- ▶ High-speed diagnostics communication
- ▶ Backward compatible with older black 9-pin vehicle connectors



## Bosch ESI[truck] License Renewal 3824-08

- ▶ 12-Month Security Card



## Bosch ESI[truck] Repair Information Subscription 3824-08R

- ▶ Fixes for +13,000 trouble codes
- ▶ Fixes for engine symptoms



Learn More at [www.boschdiagnostics.com](http://www.boschdiagnostics.com)



**BOSCH**  
Invented for life



**DPF  
AFTERTREATMENT**



**TRANSMISSION  
CONTROLLER**



**ANTI-LOCK  
BRAKING SYSTEM**



**INSTRUMENT  
CLUSTER**



**ENGINE  
CONTROLLER**



**BODY  
CONTROLLER**



**JPRO® Professional | 2017 v3**

**All Makes, All Models, All Components**

**#1** Diagnostic & Repair Solution

**NEW!** Features, Functionality & Coverage

JPRO Professional gives technicians the power to diagnose and repair all makes, models, and components in record time. Industry-leading bi-directional tests and comprehensive repair information help elevate a technician's skillset and decrease average repair times. Try JPRO today and learn why shops using JPRO operate at peak efficiency.

## **CONNECT**

- Connect to and read the entire vehicle in less than a minute, from one screen.
- Detailed component information - saves time, improves accuracy.
- Eliminate the need for serialized diagnostics.

## **DIAGNOSE**

- Detailed, easy-to-understand definitions for more than 99% of diagnostic fault codes (class 3-8).
- Comprehensive diagnosis locates every issue on the vehicle. — *Find more, Fix more.*
- **New! Access Regen Zone information** concerning regeneration zones

## **REPAIR**

- NextStep™ provides detailed service information and assistance to expedite repairs.
- **Updated Coverage! New bi-directional tests include:** DEF System Leak test, DEF Quantity test, Fuel Pressure Adaptive Resets, DEF Pressure System tests, and DEF Doser Pump tests.
- Isolate and test individual OEM components to repair vehicles faster than ever.



OEM Diagnostic Trouble Codes/ Lookup Information	Proprietary OEM Data and Faults	Clear Fault Codes	Bi-directional Functions and Tests	Trip Data Management Including: Vehicle Health, Trip Reports & LOV Reports	Print Reports by Vehicle
--	---------------------------------	-------------------	------------------------------------	--	--------------------------

Vehicle - Body & Chassis					
Mack	✓	✓	✓		✓
Volvo	✓	✓	✓		✓
Prevost	✓	✓	✓		✓
Freightliner	✓	✓	✓		✓
Western Star	✓	✓	✓		✓
Sterling	✓	✓	✓		✓
International	✓	✓	✓		✓
Kenworth	✓	✓	✓		✓
Peterbilt	✓	✓	✓		✓
Engines					
Perform Bi-directional Tests and Clear Faults					
Mack	✓	✓	✓	✓	✓
Volvo	✓	✓	✓	✓	✓
Cummins	✓	✓	✓	✓	✓
International	✓	✓	✓	✓	✓
PACCAR	✓	✓	✓	✓	✓
Detroit Diesel	✓	✓	✓	✓	✓
Read and Clear Faults					
Caterpillar	✓	✓	✓		✓
Mercedes Benz	✓	✓	✓		✓
Transmissions					
Mack	✓	✓	✓	✓	✓
Volvo	✓	✓	✓	✓	✓
Allison	✓	✓	✓		✓
Eaton	✓	✓	✓		✓
Detroit Diesel	✓	✓	✓		✓
Brakes					
Bendix	✓	✓	✓	✓	✓
WABCO	✓	✓	✓	✓	✓
Haldex	✓	✓	✓		✓
Wabash	✓	✓	✓		✓

## WHY JPRO?

**Find more, Fix more.**

Users can reduce comebacks and expedite repairs to improve overall profitability.

### + Rapid Diagnostics

- Enhanced OE fault code information.
- Quickly locate root cause for effective, longer lasting repairs.

### + Industry-Leading Bi-Directional Controls

- Isolate OEM components and expedite the diagnosis and repair process.
- Reduce dependency on difficult-to-use OEM software.

### + Increased Revenue & Improved Profitability

- Realize faster bay-turns and increase the number of vehicles serviced per day.
- Detect every issue on the vehicle, increasing repair services and parts sold.
- Reduce costly mistakes from inaccurate diagnosis and repair.

### + Comprehensive Coverage

- Diagnose and repair all makes, models and components.
- Updated coverage and features throughout the year - FREE for active subscribers.

## Adapter & Cable Features:

### + Industry Compliance

- All Noregon adapters and cables are compliant with the latest industry and regulatory standards, while remaining backwards compatible to service older vehicles.

For complete medium & heavy-duty coverage, including bi-directional tests, please visit: [noregon.com/jpro/coverage](http://noregon.com/jpro/coverage)

## Featured Products:

P/N: 263025-NS

#### COMPLETE SERVICE KIT

JPRO Professional Diagnostic Toolbox w/ NextStep\*

P/N: 232125-NS

#### SOFTWARE, ADAPTER & CABLES

JPRO Professional Diagnostic Software & Adapter Kit w/ NextStep\*

P/N: 212100-NS

#### SOFTWARE ONLY

JPRO Professional Diagnostic Software w/ NextStep\*

\* Includes a 1 year annual subscription

**Questions?** Contact our Expert Representatives: (855) 889 - JPRO (5776)

For more information or to shop online, visit: [www.noregon.com/jpro](http://www.noregon.com/jpro)

