



Exhibit B

Scope of Preliminary Project Improvements Spring Arbor Township Local Road Improvement Millage Proposal



Hard Surface Roads						
Road Name	From	To	Length (mi.)	Recommended Improvement	Estimated Cost	Estimated Remaining Service Life
2nd St.	Sharon St.	Richard Rd.	0.123	CSC3.5	\$37,000	20
2nd St.	Chapel Rd.	2nd Ave.	0.609	CSC3.5	\$183,000	20
Arbor Hills Rd.	McCain Rd.	Pioneer Dr.	0.464	CSC3.5	\$140,000	20
Arbor Ln.	Willoway Dr.	Reynolds Rd.	0.249	CSC3.5	\$75,000	20
Arlington Dr.	Cabot Dr.	Brandon Dr.	0.061	HMA2.5	\$12,000	15
Armensko Ln	Staten Dr.	McCain Rd.	0.142	CSC3.5	\$43,000	20
Audrey St.	Sharon St.	gate	0.159	CSC3.5	\$48,000	20
Balomari Dr.	Lucerne Dr.	Road End	0.066	CSC3.5	\$20,000	20
Blenheim Dr.	Wickenham Dr.	Road End	0.242	CSC3.5	\$73,000	20
Boadway St.	Teft Rd.	Road End	0.156	HMA2.5	\$30,000	15
Bowerman Rd.	Mathews Rd.	Twp. Line	1.213	CSC3.5	\$364,000	20
Brandon Dr.	Chapel Rd.	Milford Rd.	0.247	HMA2.5	\$47,000	15
Bunting Rd.	Slayton Rd.	McCain Rd.	0.499	HMA2.5	\$94,000	15
Burr Oak St.	E. Main St.	Road End	0.406	HMA3.0	\$94,000	15
Cabot Dr.	Chapel Rd.	Milford Rd.	0.256	HMA2.5	\$48,000	15
Carter Rd.	Teft Rd.	Moscow Rd.	1.765	HMA3.0	\$407,000	15
Catalina Dr.	McCain Rd.	Road End	0.347	CSC3.5	\$104,000	20
Chapel Rd.	Twp. Line	E. Main St.	3.035	HMA3.0	\$699,000	15
College St.	2nd St.	Road End	0.118	MICRO	\$11,000	10
Cottage St.	2nd St.	E. Main St.	0.223	HMA2.5	\$42,000	15
Cross Rd.	Hammond Rd.	Sears Rd.	1.557	HMA2.5	\$292,000	15
Cross Rd.	Sears Rd.	Pavement End	0.102	MICRO	\$9,000	10
Daggitt Dr.	King Rd.	Lorrie Dr.	0.249	CSC3.5	\$75,000	20
Dickens St.	Loop		0.758	CMHO2.0	\$139,000	12
Dickens St.	Chapel Rd.	Loop	0.038	CMHO2.0	\$7,000	12
Dorothy Ln.	Daggitt Dr.	Lorrie Dr.	0.199	CSC3.5	\$60,000	20
E. Court St.	Arbor Ln.	Road End	0.081	CSC3.5	\$25,000	20
E. Gordon Dr.	Sharon St.	Spring Arbor Rd.	0.123	CSC3.5	\$37,000	20
Earl Dr.	King Rd.	End Certified Road	0.182	CSC3.5	\$55,000	20
Emerson Rd.	E. Main St.	Carter Rd.	0.653	HMA3.0	\$151,000	15
Ewers St.	Noble Rd.	Earl Dr.	0.161	CSC3.5	\$49,000	20
Fairway Dr.	Spring Arbor Rd.	Sherwood Dr.	0.215	CSC3.5	\$65,000	20
Faith Dr.	King Rd.	Lorrie Dr.	0.157	CSC3.5	\$48,000	20
Fleetwood Ln.	Trinity Ln.	Catalina Dr.	0.178	CSC3.5	\$54,000	20
Glenbarr Dr.	Lockerbie Dr.	Road End	0.056	HMA2.5	\$11,000	15
Hammond Rd.	Twp. Line	N. Cross Rd.	0.924	HMA2.0	\$148,000	12
Hammond Rd.	N. Cross Rd.	Mathews Rd.	0.565	HMA3.0	\$130,000	15
Harmony Rd.	Star Rd.	Wickenham Dr.	0.336	CSC3.5	\$101,000	20
Henderson Rd.	Spring Arbor Rd.	Pavement End	0.364	CSC3.5	\$109,000	20
Highland Bell Dr.	S. Sandstone Rd.	End Certified Road	0.042	HMA3.0	\$10,000	15
Ivan Dr.	Chapel Rd.	Wendover Dr.	0.205	HMA2.5	\$39,000	20
Jack Pine Dr.	Scotch Blue Dr.	End Certified Road	0.044	CSC3.5	\$14,000	15
Ken Dr.	Wendover Dr.	Road End	0.125	HMA2.5	\$24,000	15
Kevin Dr.	Chapel Rd.	Wendover Dr.	0.205	HMA2.5	\$39,000	15
Lockerbie Dr.	Road End	Road End	0.104	HMA2.5	\$20,000	15
Lorrie Dr.	Daggitt Dr.	King Rd.	0.375	CSC3.5	\$113,000	20
Lucerne Dr.	Renfrew Dr.	Balomari Dr.	0.222	CSC3.5	\$67,000	20
Marietta St.	Teft Rd.	Star Rd.	0.156	CSC3.5	\$47,000	20
Mathews Rd.	King Rd.	E. Main St.	1.174	HMA3.0	\$271,000	15
Mathews Rd.	E. Main St.	Hammond Rd.	0.705	HMA3.0	\$163,000	15
Mathews Rd.	West of Teft Rd.	Moscow Rd.	2.112	HMA3.0	\$486,000	15
McCain Road	S. Parma Rd.	S. Dearing Rd.	0.300	HMA2.5	\$57,000	15
McCain Road	S. Dearing Rd.	Reynolds Rd.	1.951	HMA2.5	\$366,000	15
Melody Ln.	Harmony Rd.	Spring Arbor Rd.	0.206	CSC3.5	\$62,000	20
Milford Rd.	Cabot Dr.	Brandon Dr.	0.064	HMA2.5	\$13,000	15
Moon Rd.	Marietta St.	Road End	0.064	CSC3.5	\$20,000	20
Noble Rd.	King Rd.	Ewers St.	0.150	CSC3.5	\$45,000	20
O'Brien Rd.	Twp. Line	McCain Rd.	0.988	CSC3.5	\$297,000	20
Ogle Ave.	2nd St.	E. Main St.	0.263	MICRO	\$24,000	10
Queen St.	King Rd.	Ewers St.	0.104	CSC3.5	\$32,000	20
Reigel Rd.	McCain Rd.	King Rd.	1.009	HMA2.5	\$190,000	15
Remington Dr.	S. Dearing Rd.	Road End	0.199	HMA2.5	\$38,000	15
Renfrew Blvd.	Spring Arbor Rd.	Renfrew Dr.	0.073	CSC3.5	\$22,000	20
Renfrew Dr.	Lucerne Dr.	Road End	0.291	CSC3.5	\$88,000	20

Road Name	From	To	Length (mi.)	Recommended Improvement	Estimated Cost	Estimated Remaining Service Life
Reynolds Rd.	Kibby Rd.	Horton Rd.	2.089	HMA3.0	\$481,000	15
Reynolds Rd.	Horton Rd.	Twp. Line	1.521	HMA3.0	\$350,000	15
Richard Rd.	Audrey St.	End Certified Road	0.330	CSC3.5	\$99,000	20
Ridge Crest Dr.	Reynolds Rd.	Road End	0.096	HMA2.0	\$16,000	12
Rimers Dr.	Reynolds Rd.	Road End	0.396	CSC3.5	\$119,000	20
Riverside Dr.	Reynolds Rd.	Road End	0.300	CSC3.5	\$90,000	20
S. Harrington Rd.	Twp. Line	McCain Rd.	1.016	CSC3.5	\$305,000	20
S. Rimers Dr.	Vrooman Rd.	Road End	0.100	HMA1.5	\$12,000	11
S. Sandstone Rd.	Twp. Line	McCain Rd.	0.994	CSC3.5	\$298,000	20
S. Sandstone Rd.	McCain Rd.	E. Main St.	1.149	HMA2.5	\$216,000	15
Scotch Blue Dr.	S. Sandstone Rd.	Road End	0.248	CSC3.5	\$75,000	20
Sequoia Dr.	Trinity Ln.	Twp. Line	0.214	CSC3.5	\$65,000	20
Sharon St.	2nd Ave.	Henderson Rd.	0.232	CSC3.5	\$70,000	20
Sherwood Dr.	Fairway Dr.	Road End	0.136	CSC3.5	\$41,000	20
Slayton Rd.	S. Sandstone Rd.	Bunting Rd.	1.022	HMA3.0	\$236,000	15
Star Rd.	Marietta St.	Spring Arbor Rd.	0.213	CSC3.5	\$64,000	20
Staten Dr.	Trinity Ln.	Catalina Dr.	0.180	CSC3.5	\$54,000	20
Staten Dr.	Catalina Dr.	Twp. Line	0.036	CSC3.5	\$11,000	20
Stone Creek Dr.	S. Sandstone Rd.	Road End	0.161	HMA2.5	\$31,000	15
Stone Haven Dr.	Chapel Rd.	Road End	0.060	HMA2.5	\$12,000	15
Sunnydell Dr.	Chapel Rd.	Wendover Dr.	0.205	HMA2.5	\$39,000	15
Teft Rd.	E. Main St.	Mathews Rd.	2.292	HMA3.0	\$528,000	15
Thorne Rd.	Sears Rd.	Twp. Line	0.502	CSC3.5	\$151,000	20
Trinity Ln.	Staten Dr.	Road End	0.250	CSC3.5	\$75,000	20
Victor St.	Sharon St.	Richard Rd.	0.123	CSC3.5	\$37,000	20
Vrooman Rd.	Moscow Rd.	Reynolds Rd.	1.012	HMA2.5	\$190,000	15
Vrooman Rd.	Reynolds Rd.	Twp. Line	1.060	HMA2.5	\$199,000	15
W. Arbor Heights St.	2nd St.	Ogle Ave.	0.273	MICRO	\$24,000	10
W. Court St.	Arbor Ln.	Road End	0.077	CSC3.5	\$23,000	20
W. Gordon Dr.	Sharon St.	E. Gordon Dr.	0.095	CSC3.5	\$29,000	20
Wellesley Dr.	Fairway Dr.	Sherwood Dr.	0.183	CSC3.5	\$55,000	20
Wendover Dr.	Brandon Dr.	Road End	0.267	HMA2.5	\$51,000	15
Wickenham Dr.	Harmony Rd.	Blenheim Dr.	0.207	CSC3.5	\$62,000	20
Willoway Dr.	Riverside Dr.	Arbor Ln.	0.159	CSC3.5	\$48,000	20
Total Local Mileage:			45.604	Total Local Roads:	\$10,839,000	

Gravel Roads						
Road Name	From	To	Length (mi.)	Recommended Improvement	Estimated Cost	Estimated Remaining Service Life
Cox Rd.	Mathews Rd.	Teft Rd.	0.50	CSC3.5	\$151,000	20
Cross Rd.	Bridge Approach	Liedley Rd.	0.40	CSC3.5	\$121,000	20
Cross Rd.	Liedley Rd.	Twp. Line	0.14	CSC3.5	\$42,000	20
Jack Pine	S Sandstone Rd.	Road End	0.04	CSC3.5	\$12,000	20
Liedler Rd.	Twp. Line	Cross Rd.	0.246	CSC3.5	\$74,000	20
Mathews Rd.	Hammond Rd.	Teft Rd.	1.11	CSC3.5	\$333,000	20
N Cross Rd.	Hammond Rd.	Spring Arbor Rd.	0.63	CSC3.5	\$188,000	20
Total Local Mileage:			3.062	Gravel Local Roads:	\$921,000	

Total Project Cost	\$11,760,000
Total Township Share	\$8,232,000
Total JCDOT Cost	\$3,528,000

Total ESL:	17.13
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Definitions of Improvements	
Improvement	Definition
MICRO	An asphalt emulsion overlaid with crushed stone & topped with a micro thin asphalt overlay
HMA1.5	1.5" hot mix asphalt (HMA) overlay with preparatory patching
HMA2.0	2" hot mix asphalt (HMA) overlay with preparatory patching
HMA2.5	2.5" hot mix asphalt (HMA) overlay (2 lifts) with preparatory patching
HMA3.0	3" hot mix asphalt (HMA) overlay (2 lifts) with preparatory patching
CSC3.5	Crush existing roadway, shape & compact, then resurface with 3.5" HMA
CMHO1.5	Mill roadway to along edge of curb and resurface with 1.5" of HMA
CMHO2.0	Mill roadway to along edge of curb and resurface with 2.0" of HMA
Regravel (5")	Add 5" of road gravel; shape and compact gravel surface