



# City of Chardon

111 Water Street - Chardon, Ohio 44024

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## MEMORANDUM

3 March 2016

To: Members of Council  
From: Randal B. Sharpe, City Manager  
Re: Street Projects & 2016-2018 Street Maintenance Program

City Staff has prepared a three-year (2016-2018) Street Maintenance Program for Council consideration. A few maps and a detailed Street Maintenance Budget Cost Summary sheet are provided for background information and review.

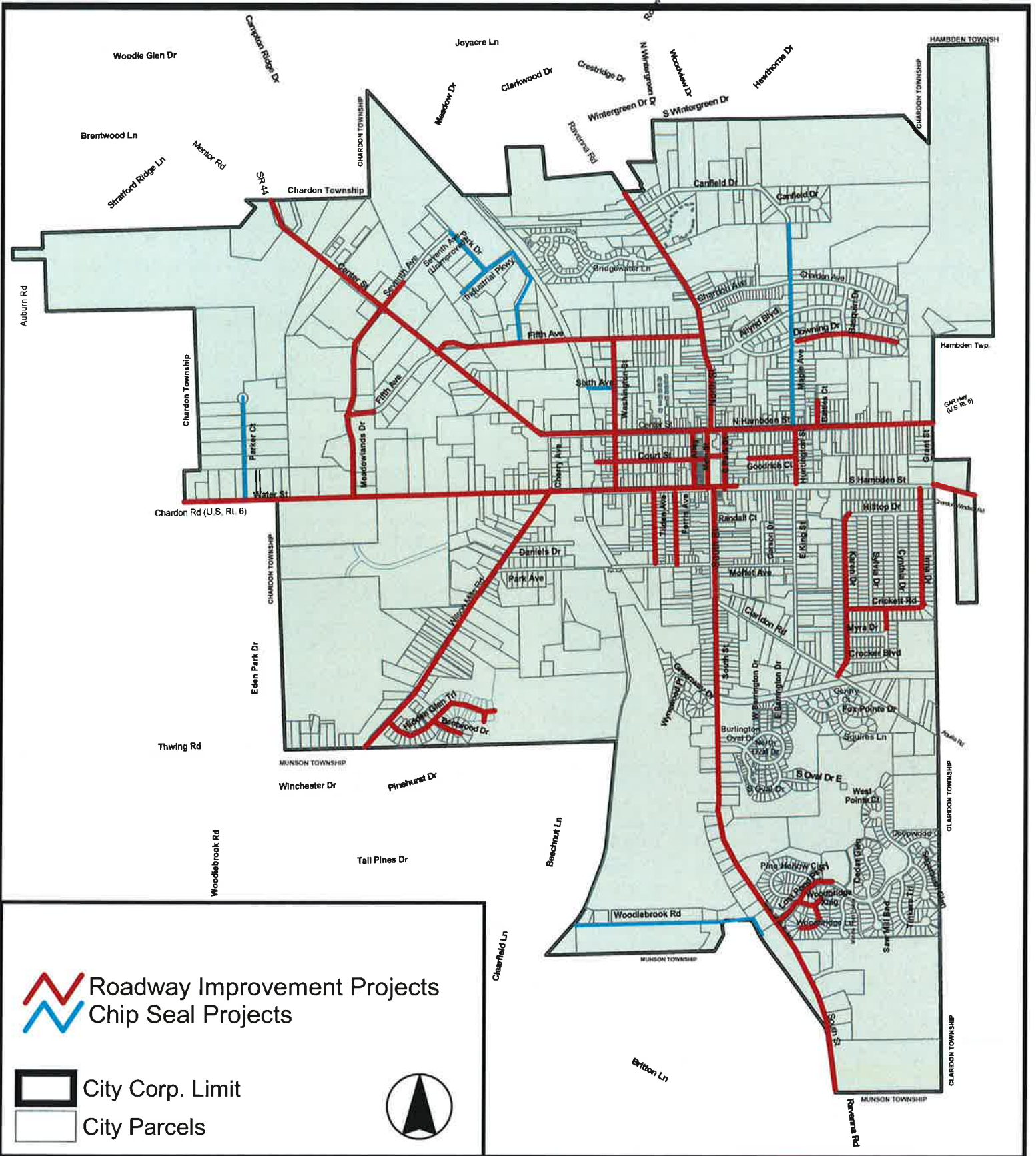
- Map 1 – City Street Projects 2005-2015
- Map 2 – 2016-2020 Capital Improvement Street Projects with proposed Chardon Park Estates Improvement Project
- Table 1 – Street Maintenance Budget Cost Summary 2016-2018
- Map 3 – 2016-2018 Street Maintenance Program
- Map 4 – 2005-2020 Combined Street Projects and 2016-2018 Street Maintenance Program
- Map 5 – 2005-2020 Unimproved Public Streets

The proposed Maintenance Program is comprised of various methods to extend useful road life: full depth concrete repair, single chipseal & overlay, localized mill & fill repair, and double chipseal & fog overlay. The City Engineer will review the benefits and application of the various maintenance options. The estimated costs by year are: 2016-\$314,520, 2017-\$370,980 and 2018-\$351,320.

Also proposed is the addition of the Chardon Park Estates Improvement Project. The project scope includes the removal of existing type 3 curb, gutter, and curb drains with replacement of type 6 curb and curb drains. Replacement of drive aprons and non-compliant curb ramps. The road repair consists of 3" asphalt pavement planing, base pavement repair (as needed), and a 3" asphalt overlay. The streets included in this project are: Crocker Rd., Myra Dr., Sylvia Dr., and portions of Crickett Blvd. and Hilltop Dr. This project is proposed to be engineered in 2016 and constructed in 2017. The total cost of the project is estimated at \$1,245,802. The surplus in the General Fund carryover balance and the anticipate reduction in the sidewalk program costs due to the number of residents

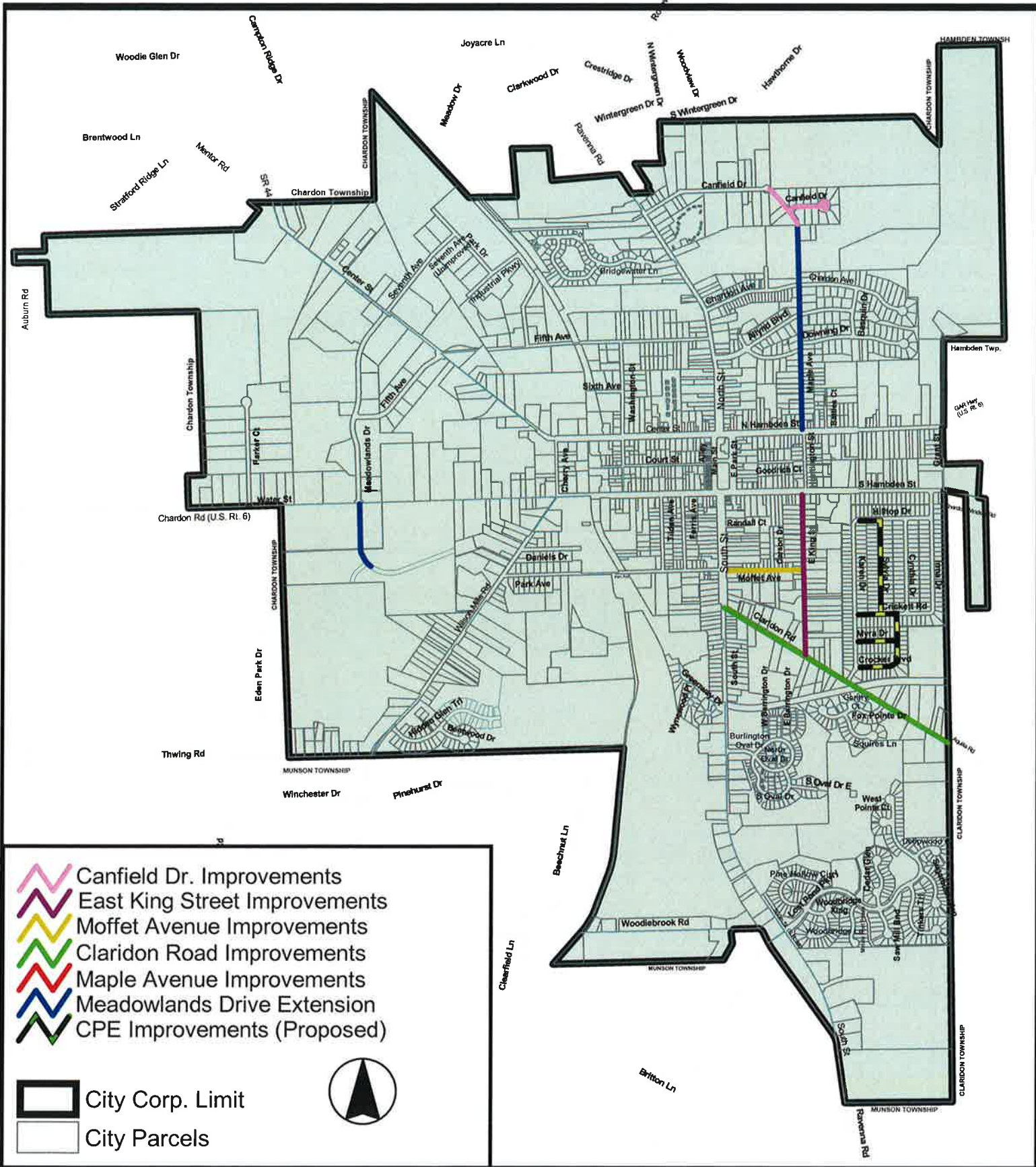
self-performing the repairs will free up funding to be allocated to the engineering work in 2016. The funding for construction in 2017 will be further reviewed as the Capital Improvement Plan is updated later in 2016. The construction could be performed in phases if there are funding constraints.

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# City of Chardon, Ohio

## 2005 - 2015 Street Projects



# City of Chardon, Ohio

## 2016-2020 CIP Street Projects

**STREET MAINTENANCE BUDGET COSTS SUMMARY 2016 - 2018**  
**THE CITY OF CHARDON**  
**LOCALLY MAINTAINED & OPERATED STREETS**  
**February 26, 2016**

Double Chipseal + Fog Seal \$3.00 /SY  
 Localized Mill & Fill Repairs (3" to 6" Depth) \$40.00 /SY  
 2" Mill + Single Chipseal + 2" Asphalt Overlay \$17.00 /SY

**PAVEMENT CONDITION RATING (PCR)**

- 1 Critical - The condition is dangerous, unsafe, or unuseable
- 2 Poor - The condition is inadequate, or substandard
- 3 Fair - The condition is average, not good or poor
- 4 Good - The condition is safe and suitable to purpose
- 5 Excellent / Very Good - New, or requires no repair

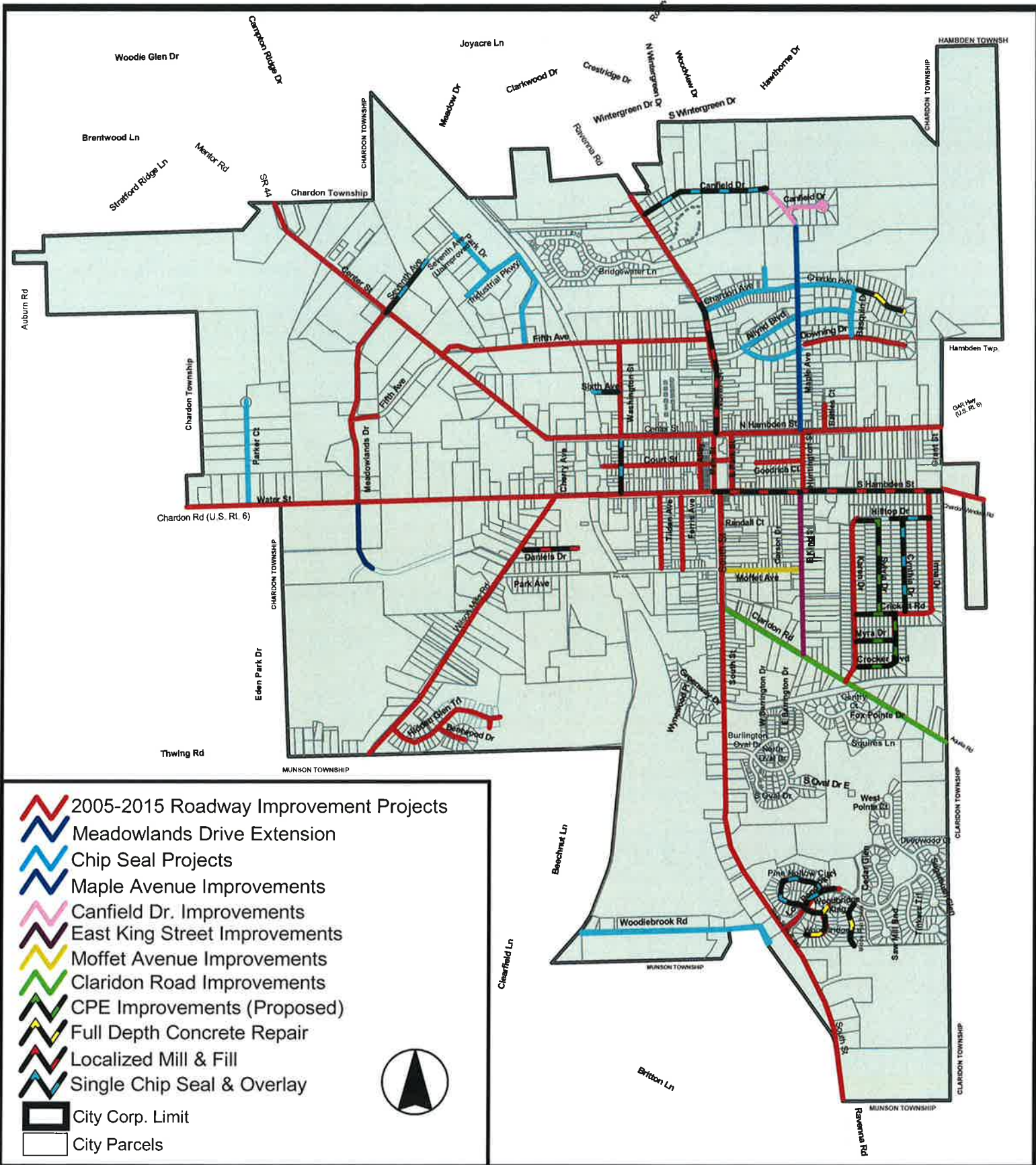
Full Depth Concrete Repair: \$75.00 /SY  
 Gutter Mill, Single Chipseal, 2.5" Asphalt Overlay w/Fabric: \$23.50 /SY  
 Partial Depth Concrete Repair: \$9.00 /LF

May 2015 - Last Pavement Assessment  
 February 2016 - Conditions Updated to Reflect 2015 Street Improvements

Street Name	Section	PCR	# Lanes	Length	Width	Area (SY-BC)	Area (SY-ASPH)	MAINTENANCE OPTIONS / RECOMMENDATION					RECOMMENDED YEAR				
								% Asphalt Patching	Double Chipseal + Fog (\$)	Localized Mill/Fill Repairs (\$)	Single Chipseal + Overlay (\$)	RECOMMENDED TOTAL / YEAR		2016	2017	2018	
<b>ASPHALT STREETS</b>																	
ALLYND BLVD.	Maple - Downing	3	2	975	19.5	2110	2110	35%	\$6,300	\$29,500		\$35,900	\$6,300	2016	\$6,300		
ALLYND BLVD.	Basquin - Maple	3	2	825	20	1830	1830	50%	\$5,500	\$36,600		\$31,100	\$5,500	2016	\$5,500		
BASQUIN DR.	Downing - Chardon	2	2	755	20	1680	1680	75%	\$5,000	\$50,400		\$28,600	\$5,000	2016	\$5,000		
CHARDON AVE.	North St - Maple	2	2	1,500	23	3830	3670	50%	\$11,000	\$73,400		\$62,400	\$11,000	2016	\$11,000		
CHARDON AVE.	Maple - Basquin	2	2	900	21	2100	2100	75%	\$6,300	\$63,000		\$35,700	\$6,300	2016	\$6,300		
DOWNING DR.	Allynd - Maple	2	2	885	21	2070	2070	75%	\$6,200	\$62,100		\$35,200	\$6,200	2016	\$6,200		
MEMORIAL DR.		3	2	500	23	1280	1220	100%	\$3,700			\$20,700	\$3,700	2016	\$3,700		
NORTH ST.	Center to 2,035' North	3	2	2,035	30	6780	6560	35%		\$91,800		\$111,500	\$91,800	2016	\$91,800		
DANIELS DR.		3	2	925	24	2470	2360	20%	\$7,100	\$18,900		\$40,100	\$18,900	2016	\$18,900		
WOODIEBROOK RD.	W Corp Line - 650' W of Bass Lake	3	2	2,350	20	5220	5220	10%	\$15,700	\$20,900		\$88,700	\$15,700	2016	\$15,700		
WOODIEBROOK RD. (City)	650' W of Bass Lake - Bass Lake	3	1	650	10	720	720		\$2,200	\$0		\$12,200	\$2,200	2016	\$2,200		
CYNTHIA DR.	Cricket - Hilltop	3	2	1,465	19	3090	3090	40%	\$9,300	\$49,400		\$52,500	\$52,500	2017		\$52,500	
HILLTOP DR.	200' E of Sylvia - Irma	3	2	600	20	1330	1330	40%	\$4,000	\$21,300		\$22,600	\$22,600	2017		\$22,600	
S. HAMB DEN	Huntington/E King - Main St	3	2	1,120	22	2740	2610	15%	\$7,800	\$15,700		\$44,400	\$15,700	2017		\$15,700	
S. HAMB DEN	Grant - Huntington	3	2	2,130	20	4730	4730	20%		\$37,800		\$89,900	\$37,800	2017		\$37,800	
CANFIELD RD.	North St - Canfield Dr (Maple Hill)	3	2	1,900	21	4430	4430	35%	\$13,300	\$62,000		\$75,300	\$75,300	2018		\$75,300	
SIXTH AVE.	Washington - 410' W	2	2	410	30	1370	1370		\$4,100	\$0		\$26,000	\$26,000	2018		\$26,000	
WASHINGTON ST.	Water - Center	3	2	890	21	2080	1980	10%	\$5,900	\$7,900		\$33,700	\$33,700	2018		\$33,700	
<b>CONCRETE STREETS</b>																	
CHARDON AVE.	Basquin East (Rocky Cellars II)	3	2	810	21	1890	1770	150	350	\$3,200	\$11,300	\$41,600	\$11,300	2016	\$11,300		
WOODBIDGE LN. (PH. 1)		4	2	750	24	2000	1890	800	0	\$0	\$60,000	\$44,400	\$60,000	2016 & 18	\$36,000		\$24,000
WOODBIDGE X-ING (PH. 1)		4	2	575	24	1530	1450	225	0	\$0	\$16,900	\$34,100	\$16,900	2016 & 18	\$10,140		\$6,760
MIDDLE POST PT. (PH. 3)		3	2	900	24	2400	2270	75	680	\$6,100	\$5,600	\$53,300	\$5,600	2017		\$5,600	
LOST POND PKWY. (PH. 1)	To 105' E of Pine Hollow	3	2	415	26	1200	1140	75	590	\$5,300	\$5,600	\$26,800	\$32,100	2017		\$32,100	
PINE HOLLOW CIR. (PH. 1)		3	2	1,375	24	3670	3460	150	1,750	\$15,800	\$11,300	\$81,300	\$97,100	2017		\$97,100	
SEVENTH AVE	Center - 1100' NW	3	2	1,100	28	3420	3260	750	800	\$7,200	\$56,300	\$76,600	\$76,600	2018		\$76,600	
<b>RECOMMENDED TOTALS BY YEAR:</b>														\$230,040	\$263,400	\$242,360	
<b>DESIGN CONTINGENCIES (10%):</b>														\$23,000	\$26,340	\$24,240	
<b>SUBTOTAL:</b>														\$253,040	\$289,740	\$266,600	
<b>CONSTRUCTION CONTINGENCIES (10%):</b>														\$25,300	\$28,970	\$26,660	
<b>ESTIMATED CONSTRUCTION TOTAL:</b>														\$278,340	\$318,710	\$293,260	
<b>ESTIMATED CONSTRUCTION ADJUSTED FOR INFLATION (3% / YR):</b>														\$278,340	\$328,300	\$310,900	
<b>ENGINEERING / INSPECTION (13%):</b>														\$36,180	\$42,680	\$40,420	
<b>ESTIMATED PROJECT TOTAL:</b>														\$314,520	\$370,980	\$351,320	

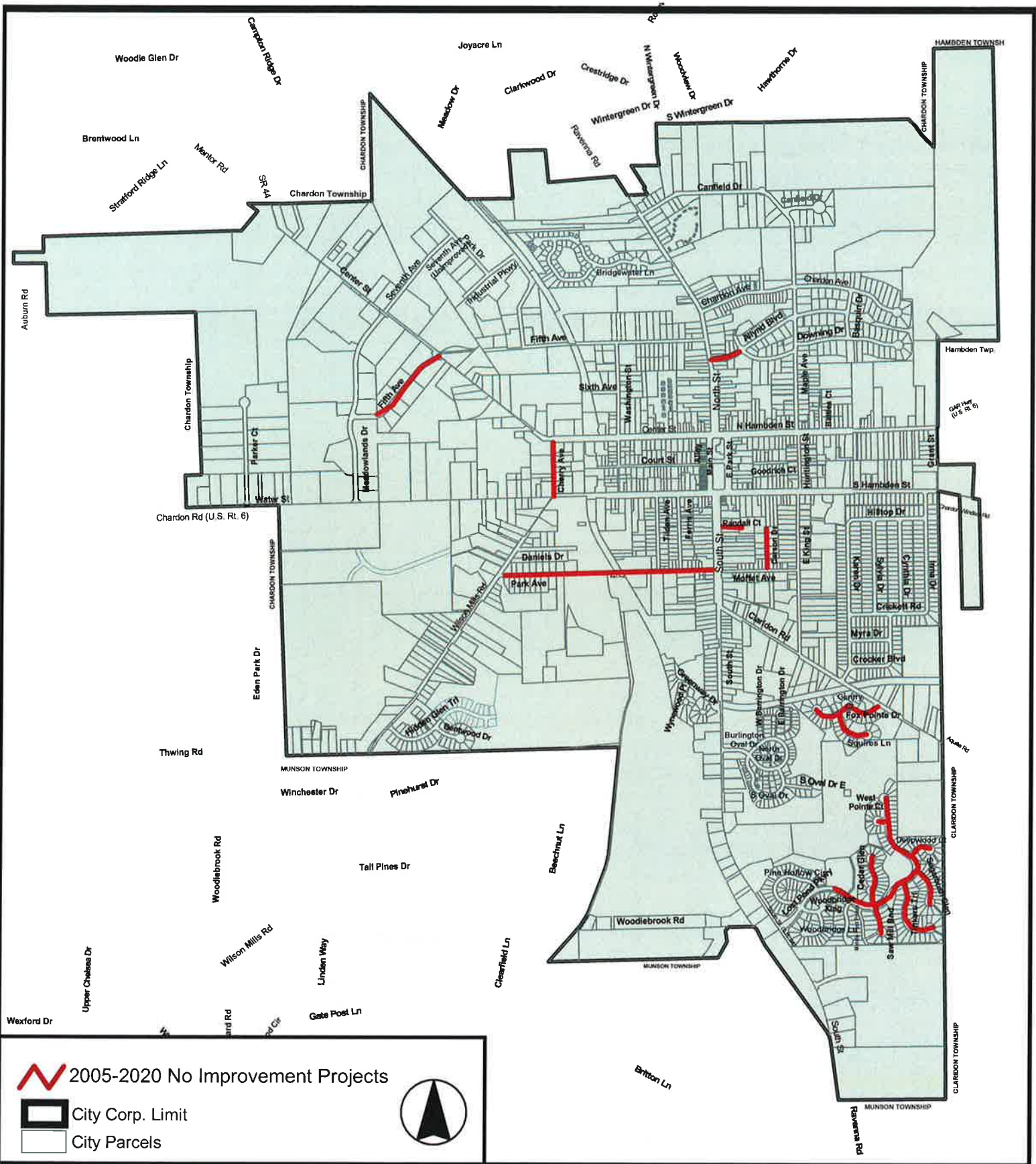
**TABLE 1**





# City of Chardon, Ohio

## 2005 - 2020 Street Projects



# City of Chardon, Ohio

## 2005 - 2020 No Improvement Projects