



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Needs Since 1886

Date: October 8, 2009
To: Luann J. Alme - City Clerk/Personnel Director (E-Mail and Hard Copy)
From: Robert P. Kardasz, P.E. - Stoughton Utilities Director
Subject: Item For The October 13, 2009 Stoughton Common Council Committee Of The Whole Meeting Packet.

The Stoughton Utilities Proposed Five-Year (2010-2014) Capital Projects Program information is provided for inclusion in the October 13, 2009 Stoughton Common Council Committee of The Whole Meeting Packet. Please contact me if additional information is required.

Encl.

cc: Mayor Jim Griffin, Chairperson - Stoughton Utilities Committee (E-Mail)
Alderson Carl Chenoweth, P.E., President - Stoughton Common Council (E-Mail)
Sean O Grady - Stoughton Utilities Operations Superintendent (Transmittal Memo)
Kim M. Jennings, CPA - Stoughton Utilities Finance and Administrative Manager (Transmittal Memo)



Office 608-873-3379
Fax 608-873-4878
stoughtonutilities.com





Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Needs Since 1886

Date: October 8, 2009

To: Alderperson Carl Chenoweth, P.E. and the Stoughton Common Council
Mayor Jim Griffin

From: Robert P. Kardasz, P.E. - Stoughton Utilities Director

Subject: Stoughton Utilities Proposed Five-Year (2010-2014) Capital Projects Program.

We have completed efforts utilizing system plans, projections and updated engineering studies, and 2010 financial forecasts to develop our Five-Year (2010-2014) Capital Projects Program. The updated electric and water system engineering studies were presented to and were approved by the Stoughton Utilities Committee on June 15, 2009 and the updated wastewater system engineering study was presented to and approved by the Stoughton Utilities Committee on August 17, 2009. The Stoughton Utilities Committee approved the Twenty-Year Capital Projects Program on September 14, 2009 and recommended it to the Stoughton Common Council. The Stoughton Capital Projects Team met on October 1, 2009 and confirmed that economy of scale savings would be realized by constructing the East Main Street Project jointly in 2011. That recommendation is scheduled to be presented to the Stoughton Utilities Committee on October 26, 2009 for approval and subsequent recommendation to the Stoughton Common Council.

The proposed Stoughton Utilities Five-Year (2010) Capital Projects Plan addresses the needs of the following customer base and infrastructure located within our 23.5 square mile service territory:

- 8,231 Electric Customers
- 8,135 Electric Meters
- 214 Miles of Overhead and Underground Electric Lines
- 2,620 Electric Transformers
- 3 Substations
- 1 Administration Building

- 4,632 Wastewater Customers
- 53.46 Miles of Sanitary Sewer Mains
- 1,226 Manholes
- 5 Pumping Stations
- 1 Wastewater Treatment Facility

- 4,698 Water Customers
- 4,698 Water Meters
- 59.72 Miles of Water Mains
- 533 Fire Hydrants
- 4 Production Wells



Office 608-873-3379
Fax 608-873-4878
stoughtonutilities.com



Stoughton Utilities
Summary of Capital Projects Program -- 2010-2014

Division	2010	2011	2012	2013	2014
Electric Division	\$ 1,196,284.00	\$ 935,795.00	\$ 1,521,854.00	\$ 1,142,692.00	\$ 1,184,122.00
Water Division	\$ 2,123,813.00	\$ 837,337.00	\$ 344,894.00	\$ 279,210.00	\$ 183,566.00
Wastewater Division	\$ 214,000.00	\$ 1,407,000.00	\$ 1,787,724.00	\$ 1,506,000.00	\$ 1,325,000.00
Office / Planning	\$ 180,000.00	\$ 32,000.00	\$ 12,000.00	\$ 32,000.00	\$ 18,950.00
Technology	\$ 58,200.00	\$ 11,480.00	\$ 36,900.00	\$ 33,800.00	\$ 13,600.00
Total:	\$ 3,772,297.00	\$ 3,223,612.00	\$ 3,703,372.00	\$ 2,993,702.00	\$ 2,725,238.00

Total:	
\$	5,980,747.00
\$	3,768,820.00
\$	6,239,724.00
\$	274,950.00
\$	153,980.00
\$	
\$	16,418,221.00

Stoughton Utilities -- Electric Division
Capital Projects Program -- 2010-2014

Projects:	2010	2011	2012	2013	2014
Dist Addition - East Side	\$ -	\$ -	\$ -	\$ -	\$ 290,000.00
Dist Addition - West Tie	\$ -	\$ -	\$ 600,000.00	\$ -	\$ -
Dist. Addition - Business Park North	\$ -	\$ 253,800.00	\$ -	\$ -	\$ -
Distribution Rebuild - CTH B (Williams to CTH N)	\$ -	\$ -	\$ -	\$ 230,000.00	\$ -
Distribution Rebuild - CTH N (USH 51 to CTH B)	\$ -	\$ -	\$ -	\$ 285,000.00	\$ -
N. & S. Substations Transrupter Addition	\$ 502,000.00	\$ -	\$ -	\$ -	\$ -
Replace existing reclosers & regulators	\$ -	\$ -	\$ 163,900.00	\$ -	\$ 175,000.00
SCADA Software Updates	\$ -	\$ -	\$ 25,000.00	\$ -	\$ 76,000.00
South Substation Loop Through	\$ -	\$ -	\$ 143,300.00	\$ -	\$ -
Substation Equipment Replacement	\$ -	\$ -	\$ -	\$ -	\$ 152,000.00
System Study	\$ -	\$ -	\$ -	\$ -	\$ 30,000.00
System Upgrades	\$ 326,396.00	\$ 305,721.00	\$ 314,892.00	\$ 324,338.00	\$ 334,068.00
Transformers	\$ 112,888.00	\$ 116,274.00	\$ 119,762.00	\$ 123,354.00	\$ 127,054.00
Section Total:	\$ 941,284.00	\$ 675,795.00	\$ 1,391,854.00	\$ 962,692.00	\$ 1,184,122.00
Vehicles:	2010	2011	2012	2013	2014
1992 - Utilities Fork Lift	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -
1998 - Electric Digger Truck #15	\$ 180,000.00	\$ -	\$ -	\$ -	\$ -
1998 - Utilities Service Truck #14	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
1999 - Utilities Service Truck #1	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
2000 - Electric Service Truck #3	\$ -	\$ 45,000.00	\$ -	\$ -	\$ -
2001 - Administrative Car #10	\$ -	\$ 35,000.00	\$ -	\$ -	\$ -
2001 - Electric Bucket Truck #12	\$ -	\$ 180,000.00	\$ -	\$ -	\$ -
2002 - Utilities Dump Truck #6	\$ -	\$ -	\$ 65,000.00	\$ -	\$ -
2003 - Electric Bucket Truck #2	\$ -	\$ -	\$ -	\$ 180,000.00	\$ -
2003 - Meter Service Truck #8	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
2007 - Administrative Car #11	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -
2007 - Neighborhood Electric Vehicle	\$ -	\$ -	\$ 15,000.00	\$ -	\$ -
Section Total:	\$ 255,000.00	\$ 260,000.00	\$ 130,000.00	\$ 180,000.00	\$ -
Grand Total:	\$ 1,196,284.00	\$ 935,795.00	\$ 1,521,854.00	\$ 1,142,692.00	\$ 1,184,122.00

Total:	
\$	290,000.00
\$	600,000.00
\$	253,800.00
\$	230,000.00
\$	285,000.00
\$	502,000.00
\$	338,900.00
\$	101,000.00
\$	25,000.00
\$	295,300.00
\$	30,000.00
\$	1,605,415.00
\$	599,332.00
\$	5,155,747.00

Total:	
\$	25,000.00
\$	180,000.00
\$	25,000.00
\$	25,000.00
\$	45,000.00
\$	35,000.00
\$	180,000.00
\$	65,000.00
\$	180,000.00
\$	25,000.00
\$	25,000.00
\$	15,000.00
\$	825,000.00
\$	5,980,747.00

**Stoughton Utilities -- Water Division
Capital Projects Program -- 2010-2014**

Projects:	2010	2011	2012	2013	2014
Hydrant Replacement	\$ 19,571.00	\$ 20,762.00	\$ 21,384.00	\$ 22,025.00	\$ 22,685.00
Main new - East Tank Loop - Main to Race Track Rd.	\$ 419,000.00	\$ -	\$ -	\$ -	\$ -
Main replace - 4th - Mandt Parkway to Milwaukee	\$ -	\$ 9,000.00	\$ 106,000.00	\$ -	\$ -
Main replace - 8th St - Dunkirk Ave. to Mandt Parkway	\$ 20,000.00	\$ 250,000.00	\$ -	\$ -	\$ -
Main replace - Main St - RR tracks to Henry St	\$ -	\$ 490,000.00	\$ -	\$ -	\$ -
Main replace - Mandt Park - 7th Extended to 4th St.	\$ -	\$ 14,000.00	\$ 176,000.00	\$ -	\$ -
Main replace - Maple Ct. - Maple Ct. to Garden Ave.	\$ -	\$ -	\$ -	\$ -	\$ 5,000.00
Main replace - Milwaukee St. - 4th to Stoughton Ave.	\$ -	\$ -	\$ 9,000.00	\$ 106,000.00	\$ -
Main replace - Milwaukee St. - E. of Monroe St.	\$ -	\$ -	\$ -	\$ 8,000.00	\$ 97,000.00
Main replace - Van Buren St. - Harding St. to Clyde St.	\$ -	\$ -	\$ 10,000.00	\$ 120,000.00	\$ -
Main replace - Vernon - Franklin St. to Kristi Ln. ****	\$ -	\$ -	\$ -	\$ -	\$ 10,000.00
Manhole Abandonment	\$ 6,524.00	\$ 6,720.00	\$ -	\$ -	\$ -
Meter Test Bench	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -
Meters	\$ 21,218.00	\$ 21,855.00	\$ 22,510.00	\$ 23,185.00	\$ 23,881.00
PLC System Programming	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -
Racetrack Rd. Elevated Tank	\$ 1,450,000.00	\$ -	\$ -	\$ -	\$ -
SCADA Intrusion/Smoke Alarm Installation	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -
SCADA Radio Replacements	\$ 27,500.00	\$ -	\$ -	\$ -	\$ -
SCADA Software Upgrade	\$ 35,000.00	\$ -	\$ -	\$ -	\$ -
Shallow Services Replacements	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -
Well #4 Rehab	\$ -	\$ -	\$ -	\$ -	\$ 25,000.00
Section Total:	\$ 2,073,813.00	\$ 812,337.00	\$ 344,894.00	\$ 279,210.00	\$ 183,566.00
Vehicles:					
1999 Water Service Truck # 21	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
1999 Water Service Truck # 23	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -
2001 Meter Service Truck # 22	\$ -	\$ 25,000.00	\$ -	\$ -	\$ -
Section Total:	\$ 50,000.00	\$ 25,000.00	\$ -	\$ -	\$ -
Grand Total:	\$ 2,123,813.00	\$ 837,337.00	\$ 344,894.00	\$ 279,210.00	\$ 183,566.00

Total:	
\$	106,427.00
\$	419,000.00
\$	115,000.00
\$	270,000.00
\$	490,000.00
\$	190,000.00
\$	5,000.00
\$	115,000.00
\$	105,000.00
\$	130,000.00
\$	10,000.00
\$	13,244.00
\$	10,000.00
\$	112,649.00
\$	40,000.00
\$	1,450,000.00
\$	15,000.00
\$	27,500.00
\$	35,000.00
\$	10,000.00
\$	25,000.00

Total:	
\$	3,693,820.00
\$	25,000.00
\$	25,000.00
\$	25,000.00
\$	75,000.00
\$	3,768,820.00

Stoughton Utilities -- Wastewater Division
Capital Projects Program -- 2010-2014

Projects:	2010	2011	2012	2013	2014
Plant - facilities studies	\$ 30,000.00	\$ -	\$ -	\$ -	\$ -
Plant - PH adjustment equipment for effluent PH (Ammor	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -
Plant - Phase II ammonia removal project	\$ -	\$ 483,000.00	\$ 1,504,724.00	\$ 1,000,000.00	\$ -
Plant - Project Additional sludge storage tank	\$ -	\$ -	\$ -	\$ 45,000.00	\$ 800,000.00
Plant - Scada radio upgrade - plant, 8th St, Eastwood anc	\$ 15,000.00	\$ 10,000.00	\$ -	\$ -	\$ -
Plant - Transformer - 2804 / 277 / 500kva	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -
Plant - UV disinfection upgrade project	\$ -	\$ -	\$ -	\$ -	\$ 15,000.00
Sanitary sewer cured in place lining projects / Manhole re	\$ 135,000.00	\$ 135,000.00	\$ 135,000.00	\$ 140,000.00	\$ 140,000.00
Street Project - Van Buren St 1 MH / Park St 1 MH / W M	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -
Street Project 3 MH Park & W. Jefferson	\$ -	\$ 12,000.00	\$ -	\$ -	\$ -
Street project 4 MH Patterson & S. Harrison	\$ -	\$ 25,000.00	\$ -	\$ -	\$ -
Street project Grant & Taft Street 168' of 8" sewer & 4-M	\$ -	\$ 25,000.00	\$ -	\$ -	\$ -
Water project - # 7 Vernon St - (Franklin to Henry)	\$ -	\$ -	\$ -	\$ -	\$ 8,000.00
Water project # 1 Main - (RR to Henry) and replace 3 ll	\$ -	\$ 439,000.00	\$ -	\$ -	\$ -
WW project - # 3 Page St (Chicago St to Broadway St)	\$ -	\$ 8,000.00	\$ 101,000.00	\$ -	\$ -
WW Project - # 5 Garden Ave (Viaduct)	\$ -	\$ -	\$ 4,000.00	\$ 46,000.00	\$ -
WW project - # 2 West St(Page to Trail Interceptor	\$ 19,000.00	\$ 235,000.00	\$ -	\$ -	\$ -
WW project - # 4 Dunkirk Park / Siphon (Dunkirk Av to V	\$ -	\$ -	\$ 18,000.00	\$ 227,000.00	\$ -
WW project - # 6 Academy St (Garden Av. to Nelson St)	\$ -	\$ -	\$ -	\$ 23,000.00	\$ 282,000.00
WW project - # 8 Vernon Street Interceptor (Academy St	\$ -	\$ -	\$ -	\$ -	\$ 20,000.00
WW project - Collection system study	\$ -	\$ -	\$ -	\$ 25,000.00	\$ -
Section Total:	\$ 214,000.00	\$ 1,382,000.00	\$ 1,787,724.00	\$ 1,506,000.00	\$ 1,265,000.00
Vehicles:					
1999 Wastewater service truck #9	\$ -	\$ 25,000.00	\$ -	\$ -	\$ -
2005 Televising equipment #18	\$ -	\$ -	\$ -	\$ -	\$ 60,000.00
Section Total:	\$ -	\$ 25,000.00	\$ -	\$ -	\$ 60,000.00
Grand Total:	\$ 214,000.00	\$ 1,407,000.00	\$ 1,787,724.00	\$ 1,506,000.00	\$ 1,325,000.00

Total:	
\$	30,000.00
\$	10,000.00
\$	2,987,724.00
\$	845,000.00
\$	25,000.00
\$	25,000.00
\$	15,000.00
\$	685,000.00
\$	15,000.00
\$	12,000.00
\$	25,000.00
\$	25,000.00
\$	8,000.00
\$	439,000.00
\$	109,000.00
\$	50,000.00
\$	254,000.00
\$	245,000.00
\$	305,000.00
\$	20,000.00
\$	25,000.00
\$	6,154,724.00

Total:	
\$	25,000.00
\$	60,000.00
\$	85,000.00
\$	6,239,724.00

**Stoughton Utilities -- Office / Planning
Capital Projects Program -- 2010-2014**

Projects:	2010	2011	2012	2013	2014	Total:
Bill stuffing machine	\$ -	\$ 20,000.00	\$ -	\$ -	\$ -	\$ 20,000.00
Blacktop sealing - wells, subs & parking lot	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ 10,000.00
Chimney Removal on Administration Bld.	\$ 45,000.00	\$ -	\$ -	\$ -	\$ -	\$ 45,000.00
Copy machine	\$ -	\$ -	\$ -	\$ 15,000.00	\$ -	\$ 15,000.00
Electric meters	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 60,000.00
Portable meter tester	\$ 36,000.00	\$ -	\$ -	\$ -	\$ -	\$ 36,000.00
Postage meter upgrade	\$ -	\$ -	\$ -	\$ -	\$ 6,950.00	\$ 6,950.00
PowerMaster	\$ 32,000.00	\$ -	\$ -	\$ -	\$ -	\$ 32,000.00
Replacement of utility building awnings	\$ -	\$ -	\$ -	\$ 5,000.00	\$ -	\$ 5,000.00
Wall repair on river side of Adm. Bld.	\$ 45,000.00	\$ -	\$ -	\$ -	\$ -	\$ 45,000.00
Section Total:	\$180,000.00	\$32,000.00	\$12,000.00	\$32,000.00	\$18,950.00	\$274,950.00
Grand Total:	\$180,000.00	\$32,000.00	\$12,000.00	\$32,000.00	\$18,950.00	\$274,950.00

**Stoughton Utilities -- Technology
Capital Projects Program -- 2010-2014**

Projects:	2010	2011	2012	2013	2014	Total:
Electric - Scada	\$ -	\$ -	\$ 2,400.00	\$ -	\$ -	\$ 2,400.00
Electric - Servers	\$ 13,500.00	\$ 2,300.00	\$ 2,750.00	\$ 4,000.00	\$ -	\$ 22,550.00
Electric - Workstations, Printers, Software	\$ 15,600.00	\$ 3,440.00	\$ 10,900.00	\$ 12,900.00	\$ 6,800.00	\$ 49,640.00
Wastewater - Scada	\$ -	\$ -	\$ 2,400.00	\$ -	\$ -	\$ 2,400.00
Wastewater - Servers	\$ 6,750.00	\$ 1,150.00	\$ 1,375.00	\$ 2,000.00	\$ -	\$ 11,275.00
Wastewater - Workstations, Printers, Software	\$ 7,800.00	\$ 1,720.00	\$ 6,650.00	\$ 6,450.00	\$ 3,400.00	\$ 26,020.00
Water - Scada	\$ -	\$ -	\$ 2,400.00	\$ -	\$ -	\$ 2,400.00
Water - Servers	\$ 6,750.00	\$ 1,150.00	\$ 1,375.00	\$ 2,000.00	\$ -	\$ 11,275.00
Water - Workstations, Printers, Software	\$ 7,800.00	\$ 1,720.00	\$ 6,650.00	\$ 6,450.00	\$ 3,400.00	\$ 26,020.00
Section Total:	\$ 58,200.00	\$ 11,480.00	\$ 36,900.00	\$ 33,800.00	\$ 13,600.00	\$ 153,980.00
Grand Total:	\$ 58,200.00	\$ 11,480.00	\$ 36,900.00	\$ 33,800.00	\$ 13,600.00	\$ 153,980.00