

**CITY OF DELAWARE
PUBLIC WORKS/PUBLIC UTILITIES
COMMITTEE
CITY COUNCIL CHAMBERS
CITY HALL
1 S. SANDUSKY ST
6:00 P.M.**

AGENDA

February 6, 2018

1. ROLL CALL
2. ELECTION OF CHAIR and VICE-CHAIR
3. APPROVAL of the Motion Summary for the meeting of the Public Works/Public Utilities Committee meeting held April 4, 2017, as recorded and transcribed
4. PUBLIC COMMENTS
5. UPDATE of Snow and Ice Activities
6. UPDATE on Refuse Division Initiatives
 - a. Franklin Parking Lot Public Dumpster
 - b. Curbside Leaf Collection Program
 - c. Bulk Item Collection Program
 - d. Automated Collection Vehicle
 - e. Refuse Building Construction
7. UPDATE on Roadway/Paving Initiatives
 - a. Over Height Detection System
 - b. US23 Emergency Resurfacing
 - c. 2018 Resurfacing Program
8. UPDATE on Public Utilities Projects
 - a. AMI
 - b. Sanitary Sewer Master Plan
 - c. Wastewater Plant Tertiary Filtration Building Improvements
 - d. Replacement of Existing Galvanize Distribution Lines
9. STAFF COMMENTS

10. MEMBER COMMENTS

11. ADJOURNMENT

PUBLIC WORKS/PUBLIC UTILITIES COMMITTEE
MOTION SUMMARY
April 4, 2017

ITEM 1. Roll Call

Chairman Shafer called the meeting to order at 6:03 p.m.

Members Present: Mayor Carolyn Kay Riggle and Chairman Kent Shafer

Members Absent: Vice-Chairwoman Lisa Keller

City Staff Present: Brad Stanton, Director of Public Utilities, Bill Ferrigno, Public Works Director/City Engineer, Linda Mathews, Customer Service Liaison, Terry Davenport, Public Works Division Supervisor, Joe Bullis, Public Works Superintendent, Marion Stephens, Engineering Technician

Motion to Excuse: Mayor Riggle moved to excuse Vice-Chairwoman Keller, seconded by Chairman Shafer. Motion approved by a 2-0 vote.

ITEM 2. ELECTION OF CHAIR and VICE-CHAIR

Chairman Shafer requested that the election occur at the next meeting due to Vice-Chairwoman Keller being absent for the meeting.

ITEM 3. APPROVAL of the Motion Summary of the Public Works/Public Utilities Committee meeting held October 4, 2016 as recorded and transcribed.

Motion: Mayor Riggle moved to approve the Motion Summary of the Public Works/Public Utilities Committee meeting held October 5, 2016, seconded by Chairman Shafer. Motion approved by a 2-0 vote.

ITEM 4. PUBLIC COMMENTS

There was no public comment.

ITEM 5. DISCUSSION of Solid Waste Program Recommendations

Mr. Ferrigno provided an update on the Solid Waste Program Recommendations. Mr. Ferrigno proposed to initiate a bulk collection pilot program. A discussion was held on potential challenges to bill customers for the service and potential additional costs related to the program. Mr. Davenport provided information on items that can be taken to the recycling center. Vice-Mayor Shafer recommended a six month trial with an update provided to the Committee in three months.

Motion: Mayor Riggle moved to recommend to Council a bulk pick up pilot program for six months, in which staff is to report back with an update in three months, seconded by Chairman Shafer. Motion approved by a 2-0 vote.

Mr. Ferrigno provided an update on the 27,000 square feet addition to the Public Works Facility. A discussion was held on the plans to restore the Cherry Street Recycling Facility as park land.

A discussion was held in regards to commercial dumpster use and multi-residential dumpster use. Chairman Shafer recommended to provide to multi-family housing the option to opt out from city refuse service. Mr. Ferrigno to draft legislation to present this Council at an upcoming Council meeting.

Chairman Shafer requested a break at 7:07 p.m. Chairman Shafer reconvened the meeting at 7:14 p.m.

ITEM 6. APPEAL of Safe Walks Program Cases

Mr. Stephens reviewed the case for 143 Diverston Way. The applicants for the appeal were not present for the meeting. Mr. Stephens discussed the evidence of settlement and recommended responsibility of repair work by the homeowners.

Mr. Stephens reviewed the case for 453 W. Central Avenue. The applicants for the appeal were not present for the meeting. Mr. Stephens provided a timeline of notification of work and when the work was completed. Mr. Stephens reported that staff received an email January 4, 2017 disputing the responsibility of charges. Mr. Stephens discussed efforts by I.T. to determine if any previous efforts were made to contact staff. Mr. Stephens informed the Committee that there was no record of any email sent by the applicant. A discussion was held with the committee to allow the applicant to assess the bill over a period of time.

PUBLIC PARTICIPATION:

Jonathan Sepelek
246 Tudor Drive
Delaware, Ohio 43015

Mr. Sepelek provided information on companies that can pump concrete underneath the sidewalk to prevent safety hazards.

ITEM 7. DISCUSSION of Storm Water Illicit Discharge Enforcement Action

Mr. Stanton provided an update on the Ohio EPA regulations and the process that was taken in regards to complaints of oil leaking from a vehicle in front of 246 Tudor Drive. Mr. Stanton provided a timeline of notification to the resident

for cleanup and Administrative Hearing that was set up for March 24, 2017. Mr. Stanton informed the Committee that the post office attempted to deliver the certified mail three times with no success in regards to the Administrative Hearing.

PUBLIC PARTICIPATION:

Jonathan Sepelek
246 Tudor Drive
Delaware, Ohio 43015

Mr. Sepelek requested that Mr. Stanton review the timeline. Mr. Sepelek stated that he did attempt to clean the oil with a power washer and cleaner. Mr. Sepelek requested to meet with staff next week to determine clean up procedure and for staff to help create a barrier from oil going into the basin.

ITEM 8. STAFF COMMENTS

Mr. Ferrigno provided an update on the hiring of a new engineer. Mr. Ferrigno discussed the current status for over height detection process, and the current estimates received during the bid process.

Mr. Ferrigno discussed plans to organize a community meeting for residents around Heffner Street to discuss their needs to resurface or rehabilitate their road.

Mr. Stanton informed the Committee that the displays for the Water Plant Education Center are being set up and that the Citizen Academy will tour the facility April 13, 2017.

Mr. Stanton discussed the current status of the installation and notification of residents on automatic water meters.

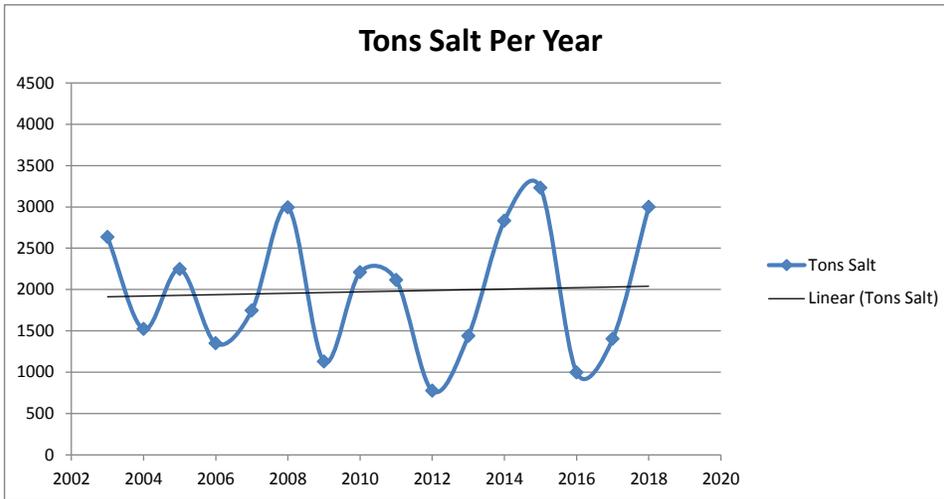
ITEM 9. MEMBER COMMENTS

ITEM 10. ADJOURNMENT

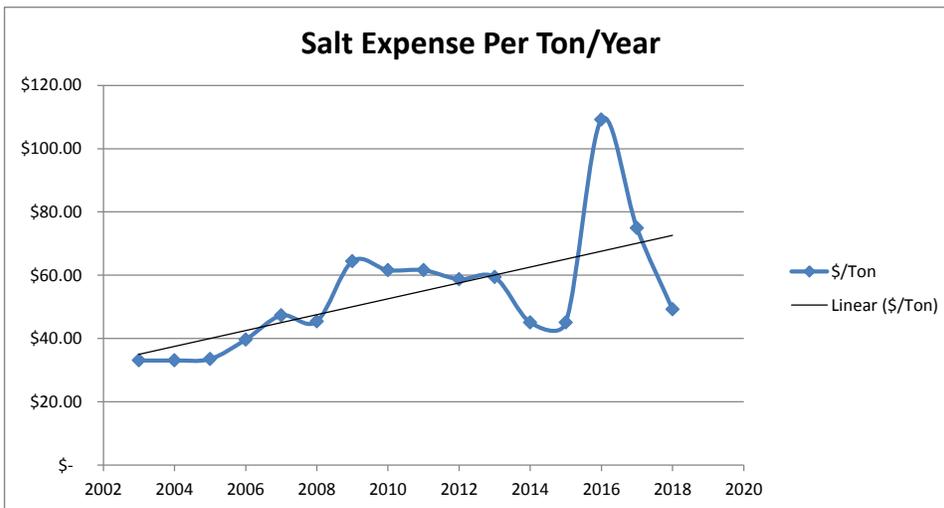
Motion: Mayor Riggle moved to adjourn the Public Works/Public Utilities Committee meeting. The meeting adjourned at 8:01 p.m.

Kent Shafer, Chairman

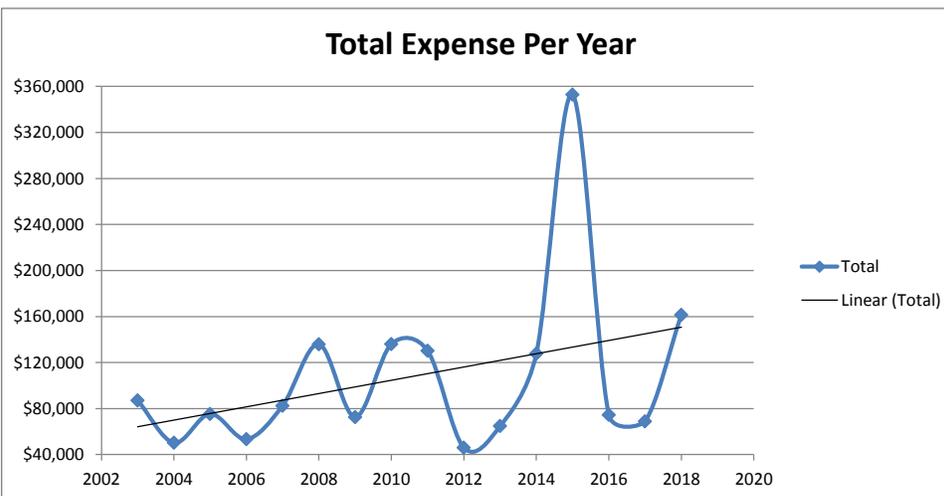
Elaine McCloskey, Clerk



Season	Tons Salt
2003	2634
2004	1521
2005	2246
2006	1348
2007	1745
2008	2994
2009	1128
2010	2209
2011	2114
2012	775
2013	1437
2014	2833
2015	3231
2016	996
2017	1402
2018	3000
AVG	1,976



Season	\$/Ton
2003	\$ 33.09
2004	\$ 33.09
2005	\$ 33.55
2006	\$ 39.66
2007	\$ 47.29
2008	\$ 45.41
2009	\$ 64.41
2010	\$ 61.60
2011	\$ 61.60
2012	\$ 58.73
2013	\$ 59.41
2014	\$ 45.06
2015	\$ 45.06
2016	\$ 109.19
2017	\$ 74.91
2018	\$ 49.21
AVG	\$ 53.83



Season	Total
2003	\$87,159
2004	\$50,330
2005	\$75,353
2006	\$53,462
2007	\$82,521
2008	\$135,958
2009	\$72,654
2010	\$136,074
2011	\$130,222
2012	\$46,043
2013	\$64,751
2014	\$127,655
2015	\$352,793
2016	\$74,610
2017	\$68,992
2018	\$161,488
AVG	\$107,504



Department of Public Works
2017-2018 Winter Salt & Additives Purchase
 Report Updated 10/30/17

Agreement	Vendor	Material	Tons Salt	Tons #9's	Cost/Ton	Total Cost	PO No.
ODOT (018-17)	Cargill	Road Salt	964.00	N/A	\$49.21	\$47,438.44	RG049520
ODOT (018-18)	Compass Minerals	Road Salt	2,102.00	N/A	\$44.70	\$93,959.40	RG051563
Note: Rock Salt	1.05 Ton/CY						
Totals Available			3,066.00	0.00		\$141,397.84	

Salt Usage and Stockpile Balance

Event	Dates	Precipitation Type	Accumulation Inches	Status	Usage	Unit	Cost per Event
Event #1	12/07/17-12/10/17	SNOW	1.0	COMPLETE	67.2	Tons	\$3,003.84
Event #2	12/12/2017	SNOW	0.8	COMPLETE	59.4	Tons	\$2,655.18
Event #3	12/13/2017	SNOW	0.3	COMPLETE	26.7	Tons	\$1,192.15
Event #4	12/14/2017	SNOW	1.0	COMPLETE	81.1	Tons	\$3,625.62
Event #5	12/26/2017	SNOW	1.3	COMPLETE	120.9	Tons	\$5,402.89
Event #6	12/29/2017-12/30/17	SNOW	3.4	COMPLETE	315.0	Tons	\$14,080.50
Event #7	12/31/2017	SNOW	Dusting	COMPLETE	38.0	Tons	\$1,698.60
Event #8	1/8/2018	SNOW/ICE	.01 ICE, 2 " SNOW	COMPLETE	209.3	Tons	\$9,355.26
Event #9	1/9/2018	FREEZING FOG	TRACE	COMPLETE	36.0	Tons	\$1,609.20
Event #10	1/10/2018	FREEZING Rain	TRACE	COMPLETE	34.0	Tons	\$1,519.80
Event #11	01/12/18-01/14/18	SNOW	5.5	COMPLETE	435.0	Tons	\$19,444.50
Event #12	01/15/18-01/16/18	SNOW	3.5	COMPLETE	334.0	Tons	\$14,929.80
Event #13	1/17/2018	SNOW	Dusting	COMPLETE	6.1	Tons	\$274.01
Event #14	1/24/2018	SNOW	0.3	COMPLETE	59.0	Tons	\$2,637.30
Event #15					0.0	Tons	\$0.00
Event #16					0.0	Tons	\$0.00
Event #17					0.0	Tons	\$0.00
Event #18					0.0	Tons	\$0.00
Event #19					0.0	Tons	\$0.00
Event #20					0.0	Tons	\$0.00
Event #21					0.0	Tons	\$0.00
Event #22					0.0	Tons	\$0.00
Event #23					0.0	Tons	\$0.00
Event #24					0.0	Tons	\$0.00
Event #25					0.0	Tons	\$0.00
Event #26					0.0	Tons	\$0.00
Event #27					0.0	Tons	\$0.00
Event #28					0.0	Tons	\$0.00
Event #29					0.0	Tons	\$0.00
Event #30					0.0	Tons	\$0.00
Event #31					0.0	Tons	\$0.00
Concord Twsp					0.0	Tons	\$0.00
PW Brine Mfg	YTD				45.2	Tons	\$2,021.33
Parks Dept	YTD				102.8	Tons	\$4,593.82
Totals			16.9		1,969.7		\$88,043.80
Balance Road Salt Available					1,096.3	Tons	



Remove one (6) CY dumpster from north end. (Proposed)

Add up to four (6) CY Publically accessible dumpsters as shown. Requires 2 parking spaces

Net loss of one parking space.

Franklin Lot



Delaware County Auditor
George Kalitsa

Information contained within this map may be used to generally locate, identify and inventory land parcels within Delaware County. Delaware County cannot warrant or guarantee the information contained herein, including, but not limited to its accuracy or completeness. The map parcel lines shown are approximate and this information cannot be constructed or used as a "legal description" of a parcel. Flood Plain information is obtained from FEMA and is administered by the Delaware County Building Department (740-833-2201). Please report any errors or omissions to the Delaware County Auditor's office at delcoogis@co.delaware.oh.us. Prepared by: Delaware County Auditor's GIS Office



Printed on 1/22/2018

MEMORANDUM

TO: R Thomas Homan, City Manager
City of Delaware - City Council

FROM: William L. Ferrigno, P.E., Director of Public Works/City Engineer

DATE: January 22, 2018

RE: Curbside Leaf Collection

On November 18th of last year, back to back heavy rain events resulted in a significant amount of flooding issues throughout the City. Some of the localized flooding was due in part to the presence of fallen leaves that collected in the roadway gutter and were subsequently washed by stormwater toward curb inlets where they blocked proper drainage. As part of the storm event follow-up, staff was asked to review policy regarding leaf collection to see if an alternative mechanism to manage leaves in the road could be identified, and that if implemented, could reduce the reoccurrence of the associated flooding issues.

During a typical autumn, leaves fall from the trees over a several week period and accumulate within the roadway and roadside gutters until a property owner rakes them up to dispose of them. The current curbside leaf collection policy in the City allows for unlimited weekly leaf collection through our yard waste collection program. Property owners are responsible for bagging leaves in compostable containers, typically brown paper bags, and stacking the bags in the tree lawn near the curb. This practice works very well and is utilized by the majority of residents. Some residents rake and bag leaves weekly while others wait until the majority has fallen from the trees on their properties, and then collect them. There are some property owners however, who choose not to rake up leaves on or around their respective properties at all. It is during this time while leaves are actively falling that the stormwater collection system is at greatest rate of blockage on any given day during a heavy rainstorm. Even in areas where residents routinely comply with leaf collection practices, it only takes a few handfuls of leaves to block an inlet grate.



Other communities experience similar issues in regards to fall leaf season and storm drainage maintenance, even with active leaf collection programs in place. While some programs offer only

one time collection, others like Upper Arlington's program offers weekly curbside collection by leaf vacuum truck. However, even with weekly collection, there remains a heightened risk of flooding between collection days as additional leaves collect near drainage inlets. Though typically appreciated by the community, even weekly collections cannot guarantee a substantial increase in protection of the storm sewer system. In fact, programs that encourage property owners to rake leaves toward the curb may actually increase the risk of flooding on days other than the designated leaf collection day.

In Upper Arlington, property owners are required to move all leaves from their respective property to the tree lawn areas adjacent to the road. The city will then collect the leaves with leaf vacuum trucks once a week for six to eight consecutive weeks while leaves are actively falling. This service eliminates bagging and provides for a clear curb immediately following collection day service. To manage this program, Upper Arlington commits (6) three-man crews during this period to work exclusively on leaf collection. Each crew has a large truck and pull behind leaf vacuum unit to remove leaves piled along the curb line. When the truck is full, typically after one block of work, the truck travels to a designated location on city property to empty the leaf box into a large stockpile, and then returns to repeat the process. Because Upper Arlington is similar in size to Delaware regarding miles of residential streets, a similar effort would be required if Delaware were to provide weekly leaf collection in this manner. A capital investment nearing \$250,000 would be required to outfit six trucks with the necessary leaf vacuum and collection box equipment. The effort would require the combined manpower of the Streets, Traffic, and Parks divisions, during which time no other city service managed by these groups would be addressed.



Staff also reached out to several landscape outfits to gauge interest in providing leaf collection service for the City. Though there was some interest, none came close to being capable of supplying the manpower and equipment needed to sustain a weekly leaf collection program. I believe that Delaware has developed an acceptable leaf collection program that provides a high level of weekly service, requests a modest effort on the part of the property owners, and best protects the curb drainage from loosely piled leaves throughout the week. The incremental cost to fully implement a leaf vac operation is very high, and any benefit in reducing property owner effort will be offset by a notable increase in the presence of leaves in the street gutters, and risk to drainage.

To help address the risk of leaves blocking stormwater drainage, I would recommend using social media to increase public awareness of the risks of allowing leaves to remain in the curb, and of property owner responsibility to routinely check and clear the curb line. The City could also specifically target offending property owners by placing friendly reminders within their mailboxes explaining these requirements and asking for compliance.



MEMORANDUM

TO: Public Works Committee

FROM: William L. Ferrigno, P.E., Director of Public Works/City Engineer

DATE: February 6, 2018

RE: Bulk Item Refuse Collection – Pilot Program Update

The bulk item refuse collection program began in May with the first scheduled collection date occurring on Tuesday, May 9th. Public demand for the service was initially very high necessitating a second collection date be scheduled, that was subsequently performed on Tuesday, May 23rd. Two collection dates were similarly held in June, and will be planned for subsequent months as well. The public response has been very favorable of this service with many comments noting the convenience, safety and reliability of the new service. Residents have been willing to make payments in person at the Public Works facility as currently required without complaint.

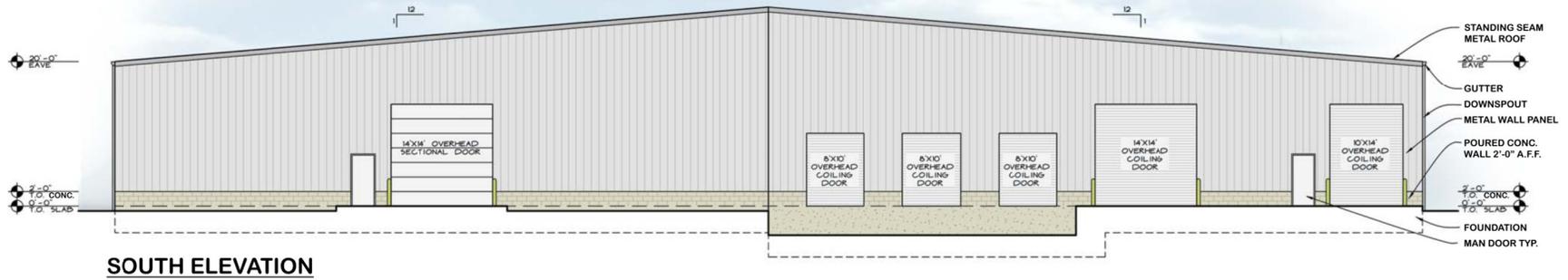
The table below summarizes the pilot program success to date.

Date	No. Stops	Total items	Man Hours	Labor Cost	Net Disposal Cost	Fees Received	Cost per Stop
May 9 th	36	75	19	\$1204.79	\$157.82	\$927.15	\$37.85
June 13 th	32	98	14.5	\$919.45	\$162.35	\$778.84	\$33.81
June 27 th	34	69	14	\$887.74	\$162.91	\$767.50	\$30.90
July 11 th	32	70	13	\$824.33	\$165.74	\$816.79	\$30.94
July 25 th	42	94	16	1014.56	195.71	912.5	28.82
August 8	26	66	9	570.69	133.49	651.25	27.08
August 27	16	52	9	570.69	136.88	425.00	44.22
September 12	29	75	10	634.10	187.24	815.00	28.32
September 26	15	37	6	380.46	106.35	335.00	32.45
October 10	13	32	9	570.69	117.66	325.00	52.95
October 24	17	45	9	570.69	138.58	472.63	41.72
November 14	27	79	10	634.10	189.49	752.72	30.50
November 28	13	44	136	824.33	121.60	470.63	72.76
December 12	23	53	6	380.46	139.72	630.00	22.62
December 26	6	13	5	317.05	54.31	160.00	61.89
January 9	12	35	8	507.28	90.50	350.00	49.92
January 23	6	11	6	380.46	45.82	150.00	71.05
Totals	379	948	299.5	\$11,191.87	\$2,306.17	\$9,740.01	

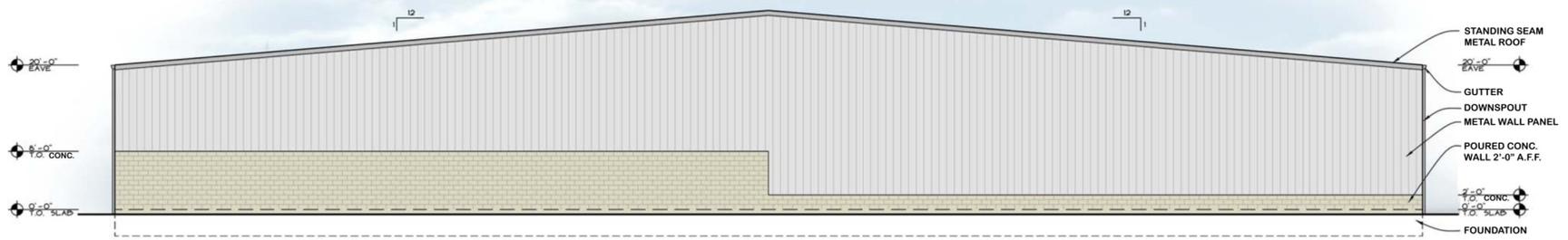


https://www.youtube.com/watch?v=Plq_kMYTZK0

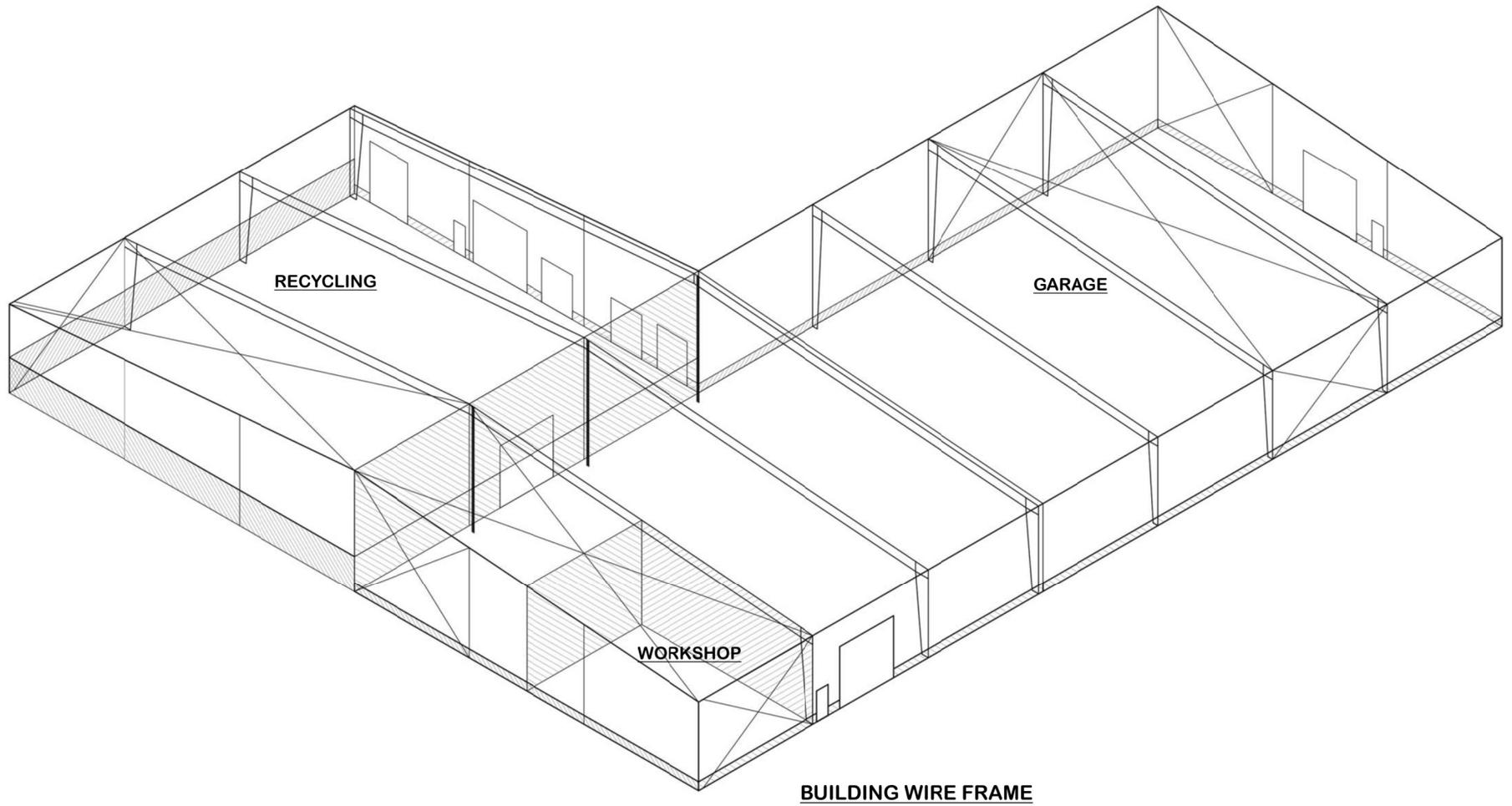




SOUTH ELEVATION



NORTH ELEVATION



SPECIAL
FIXED MESSAGE SIGN
74"x38"

OVERHEIGHT
VEHICLE
DETECTED

STOP

CALL FOR ASSISTANCE
(740)203-1111

F

2018-2022 OPWC/CDGB/ODOT/COUNTY STREET RESURFACING PROGRAM (Rev. 01/30/2018)

Year	Street	Functional Class	Funding	Area (SF)	Unit Cost	Cost
2018	Winter Street (Franklin to Central)	Collector	OPWC	167,822	*	\$ 524,506.00
2018	Heffner St***	Local	OPWC	93,348	\$ 3.25	\$ 395,815.00
2018	US42 Urban Resurfacing and Repair	Principal Arterial	ODOT			\$ 50,000.00
2018	<i>Admin. & Inspection</i>					\$ 50,000.00
Total Cost						\$ 1,020,321.00
2019	Pittsburgh Dr	Minor Arterial	OPWC	271,628	\$ 2.00	\$ 543,256.00
2019	Union St (Central to Heffner)	Local	OPWC	114,590	*	\$ 395,815.00
2019	Birch Bend	Local	CDBG/RLF	7,125	\$ 3.00	\$ 21,375.00
2019	Wade St	Local	CDBG/RLF	9,866	\$ 3.00	\$ 29,598.00
2019	English Terrace	Local	CDBG/RLF	17,316	\$ 3.00	\$ 51,948.00
2019	Pumphrey Terrace	Local	CDBG/RLF	17,364	\$ 3.00	\$ 52,092.00
2019	Section Line Road	Minor Arterial	County		\$ 3.00	\$ 150,000.00
2019	<i>Admin. & Inspection</i>					\$ 50,000.00
Total Cost						\$ 1,294,084.00
2020	Belle Ave	Minor Arterial	OPWC	74,112	\$ 2.00	\$ 148,224.00
2020	Houk Rd. (RR to US36)	Minor Arterial	OPWC	256,692	\$ 2.00	\$ 513,384.00
2020	Houk Rd (Pittsburgh to RR)	Minor Arterial	OPWC	38,947	\$ 5.00	\$ 194,735.00
2020	Houk Rd. (US36 to SR37)	Minor Arterial	OPWC	55,908	\$ 2.00	\$ 111,816.00
2020	SR37 Urban Resurfacing (FY2020) (Troy to The Point)	Principal Arterial	ODOT	80/20		\$ 81,000.00
2020	<i>Admin. & Inspection</i>					\$ 50,000.00
Total Cost						\$ 1,099,159.00
2021	Pennsylvania Ave	Minor Arterial	OPWC	180,000	\$ 2.00	\$ 360,000.00
2021	Houk Rd. (SR37 to Merrick)	Minor Arterial	OPWC	151,128	\$ 2.00	\$ 302,256.00
2021	Flax St.	Local	CDBG/RLF	29,238	\$ 3.00	\$ 87,714.00
2021	Rheem St	Local	CDBG/RLF	28,548	\$ 3.00	\$ 85,644.00
2021	<i>Admin. & Inspection</i>					\$ 50,000.00
Total Cost						\$ 885,614.00
2022	Liberty Rd. (w/ Edge Treatment)	Minor Arterial	OPWC	150,867	\$ 5.35	\$ 807,138.45
2022	Hawthorn Blvd	Collector	OPWC	131,744	\$ 3.00	\$ 395,232.00
2022	SR36 Urban Resurfacing (Point to E. Corp)	Principal Arterial	ODOT	80/20		\$ 102,000.00
2022	<i>Admin. & Inspection</i>					\$ 50,000.00
Total Cost						\$ 1,354,370.45

Notes:

Costs Based on 2017 Values

* Unit Costs Based on Actual Field Work.

** Business District Street

***Potential Curb/Walk Assessment Project

2018-2022 LOCAL STREET RESURFACING PROGRAM (Rev. 01/30/2018)

Year	Street	Functional Class	Funding	Area (SF)	Unit Cost*	Cost
2018	Blymer	Local	Local	24,078	\$ 3.00	\$ 72,234.00
2018	Cambridge Rd (Lexington to Exeter)	Collector	Local	29,264	\$ 3.00	\$ 87,792.00
2018			Local			
	Total Cost					\$ 160,026.00
2019	Albemarle Circle	Local	Local	61,896	\$ 3.00	\$ 185,688.00
2019			Local			\$ -
	Total Cost					\$ 185,688.00
2020	Braumiller Rd	Minor Arterial	Local	25,000	\$ 2.50	\$ 62,500.00
2020	Capital Ct.	Local	Local	9,667	\$ 3.00	\$ 29,001.00
2020	Prospect St.	Local	Local	8,271	\$ 3.00	\$ 24,813.00
2020	Smith St.	Local	Local	7,785	\$ 3.00	\$ 23,355.00
2020			Local			\$ -
	Total Cost					\$ 139,669.00
2021	Chamberlain St	Local	Local	31,018	\$ 3.00	\$ 93,054.00
2021	Wells St.	Local	Local			\$ 24,423.00
2021	Willow St.	Local	Local	9,405	\$ 3.00	\$ 28,215.00
2021			Local			\$ -
	Total Cost					\$ 145,692.00
2022	Cottswold Dr.	Collector	Local	91,800	\$ 2.00	\$ 183,600.00
2022			Local			\$ -
	Total Cost					\$ 183,600.00
2023	Somerset Rd.	Local	Local	77,400	\$ 2.00	\$ 154,800.00
2023			Local			\$ -
	Total Cost					\$ 154,800.00

Notes:

Costs Based on 2017 Values

* Unit Costs Based on Actual Field Work.

** Business District Street

***Potential Curb/Walk Assessment Project



Public Works/Public Utilities Committee Meeting
February 6, 2018
7:00 P.M.
City Council Chambers

UPDATE OF PUBLIC UTILITIES PROJECTS

1. Update on the conversion of City water meters to AMI reporting network

- Project Service Provider – Everett J. Prescott Company
- AMI Equipment/Software Provider – Mueller Systems
- Meter Pit Interface Unit Installation – Keystone Utility Systems
- 40 residential meters left to be converted
- 25 commercial meters left to be converted
- Successful coordination with DCS, February 16th conversion of Carlisle, Woodward and Smith meters during pre-existing no class in-service day

2. Sanitary Sewer Collection System Master Plan

- Update of the existing sewer master completed in 2000.
- Project includes sanitary sewer flow monitoring, development and training of a sanitary sewer flow model, identification of sanitary sewer capacity constraints, and recommendation of sanitary sewer capacity improvements and associated costs.
- Project completion planning
 - Draft Master Plan for City review – February 2018

3. Wastewater Tertiary Treatment System Improvements

- Improvements of the existing tertiary treatment system at the wastewater plant.
- Replacement of the 1987 sand filters with new disc filters in the existing building and increasing the treatment capacity from 5 MGD to 15 MGD.
- Increase the treatment capability for the removal of phosphorus and suspended solids to meet OEPA permit requirements.
- Engineering firm – Prime AE – Project fee \$148,000
- Construction – Adena Construction mobilized on-site 1/30/18
- Construction Costs - \$1,868,990.00