
Public Works Department

September 5, 2019

Memorandum for Public Works Committee

From: Jeffrey A. Lincoln, Public Works Director

Subject: Minutes of meeting of August 26, 2019

1. Meeting Convened at 5:30 PM, with members and Wright (Chair), and LaFleur present, Councilman Chevassus absent. Meeting chaired by Council Member Wright. Staff Lincoln present.
2. Minutes for August 12, 2019 were approved.
3. The agenda for this evenings agenda were amended to add a discussion of a possible gas hedge position for the summer of 2020.
4. Old Business: None.
5. New Business:
 - a. Public Works fleet replacements and adds in 2020 budget were discussed – see attached listing. The committee asked for a summary of costs associated with the old Vactor unit when discussing the Water Department recommendation to purchase a new purpose-designed vactor for excavation purposes.
 - b. Capital requirements for Stormwater. Lincoln reviewed the stormwater summary of decision packages outlining capital needs for the Stormwater fund (attached). Lincoln reported that the rate established for the stormwater fund (\$5.24/ESU) when the fund was activated was not sufficient to fully fund all the essential needs for stormwater, and that the requirements of the new state Stormwater Permit are likely going to drive the costs higher. Lincoln indicated that either rates would have to increase or the fund would require subsidy from the general fund.
 - c. Lincoln reported that all initial indications are that rates will not increase for water, sewer, gas or solid waste, but that a recommendation to increase the stormwater rate would likely be made during the budget presentations for 2020.
 - d. Lincoln presented a recommendation to commit to a hedge position for natural gas at a estimated cost of \$1.71 or \$1.72 per mmbtu (dekatherm) for the summer of 2022. The city had received current quotes at this price earlier today. The committee was in favor of establishing a strike price threshold of \$1.75/mmbtu in order to provide assurance that the price could be established for 75% of the projected need for that period. Mr. Wright will make a motion to that effect to the committee tonight.
6. Meeting adjourned at 6:30 PM.

Subject: Minutes of the Public Works Committee, Meeting of August 26, 2019

Date: September 5, 2019

Attachments:

- Equipment Rental Replacements planned for 2020
- FY2020 Stormwater Decision Package Reports
- Gas hedge recommendation with trend data

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To be Replaced in 2020

No.	Vehicle Description	Depts/Funds	Department / Division	Year	Purchase Cost	Make Ready	Total Cost
238	95 CLUB WAGON	535	FAC	1995	17,743	-	17,743
265	00 NEW HOLLAND 555 BACKHOE	410	PW	2000	51,462	-	51,462
282	02 ELGIN CROSSWIND REGEN SWEEPER	110	PW	2002	140,500	1,000	141,500
290	05 JOHN DEERE TRACTOR/BACKHOE	430	PW	2005	56,668	600	57,268
296	05 FORD ECONO MINI BUS	185	SR CENTER	2005	55,018	-	55,018
297	05 INGERSOLL-RAND AIR COMPRESSOR	110 410 430	PW	2005	16,576	-	16,576
Totals					337,967	1,600	339,567

J. Lincoln:
Defer - Equipment is in excellent condition and was upgraded in 2017.

J. Lincoln:
Defer. Equipment is in good condition. Minimum 2 Years.

To be Added in 2020

No.	Vehicle Description	Depts/Funds	Department / Division	Year	Purchase Cost	Make Ready	Total Cost
X	Transit Connect - Replace #238	535					
X	Backhoe, Water	410					
	Sweeper	110					
	Compressor						
	Water Pickup						
	Water Vactor/Excavator						
	Yard Goat for WWTP						
	Crack Sealer	110					

FY 2020 SW Decision Package Reports

1. Chinook Stormwater Pond Clean-up- no packet for this one....just roll over

Purpose & Description

Rollover from 2019 Budget – Decision Package already approved

2020 Chinook Stormwater Pond: mow, remove trees, remove and haul excess materials for disposal

Budget Highlights

Rollover from 2019 Budget – Decision Package already approved

Fiscal Details - 2020

450.000.594.31.630.00 OTHER IMPROVEMENTS - \$25,000

2. Battersby Avenue Culvert Replacement Packet #SM-0005

Purpose & Description

Replace the existing two deteriorating corrugated metal pipe culverts under Battersby Avenue at the DD5 Lateral B drainage ditch. Temporary repairs were made to part of the culverts in 2009 after a sink hole developed but the remaining section of culvert is showing severe signs of corrosion and is susceptible to failure. The existing culverts will be replaced with a 6'x10'x72' precast concrete box which is sized to meet current WDFW no-slope culvert design guidelines. The new culvert will provide an improvement for both drainage in the area and fish passage.

Budget Highlights

Permitting and design is slated to be completed in 2019. Project construction is pending award of requested \$301,000 Flood Reduction grant from the KC Flood Control District. Remaining funding of \$122,187 would be paid for out of the KC Flood Control District Opportunity fund available to the city for use on this project.

Fiscal Details - 2020

~~\$421,679.00~~ — **\$423,187.00**

KC Flood Control Grant – \$301,000

KC Opportunity Fund Grant – \$122,187

3. SR 410 Catch Basin Repair Packet #SM-0006

Purpose & Description

An existing catch basin in front of the Ski Shop on SR 410 is located in the wheel path of eastbound vehicles and subjected to heavy loading/fatigue making it susceptible to failure. An emergency repair of the catch basin was conducted in 2009 but the frequent travel over it since then has again caused it to fatigue/deteriorate requiring repair/replacement. Project will seek to eliminate the solid lid catch basin if feasible or replace it with a manhole that is better suited to be located in the wheel path. At minimum, a similar repair to the one conducted in 2009 is needed.

Budget Highlights

Emergency repair costs in 2009 totaled roughly \$8000. Increase in construction costs since then and goal to provide a more permanent solution dictates that additional funding is made available. Failure to make appropriate repairs soon could result in vehicle damage if the lid falls into the catch basin leaving a subsequent void in the roadway.

Fiscal Details - 2020

\$25,000.00

4. Dickson Culvert Replacement Packet #SM-0007

Purpose & Description

A corrugated metal pipe cross culvert on Dickson Ave is severely deteriorated per operations and needs to be replaced to avoid potential collapse. Collapse of the culvert could result in upstream flooding of neighboring properties.

Budget Highlights

Planned replacement of the culvert in-lieu of emergency repairs if the culvert collapses will result in much less overall cost incurred by the city.

Fiscal Details - 2020

\$15,000.00

5. Sigrist Dr Drainage Improvements Packet #SM-0009

Purpose & Description

Water from an underground spring below the roadway of Sigrist Dr in the Elk Meadows development emerges between edge of pavement along the gutter and continuously flows downstream to the nearest catch basin for a majority of the year. Flow crosses multiple residential driveway entrances and leads to a build-up of algae/slime as well as increased deterioration to the roadway. This also results in ice hazards around the area during the winter time. Several residence in the area have complained about the issue.

A shallow well installed in the nearby stormwater pond tract in 2018 successfully intercepted a portion of the flow and mitigated the issue. Additional drainage improvements are needed to eliminate the issue completely. This project would install additional catch basin/perforated drain system to intercept additional flow and intercept remaining surface flow prior to crossing driveway entrances.

Budget Highlights

Drainage improvements will be performed by city staff or contracted out. Work would eliminate current slip hazards created by the continuous drainage.

Fiscal Details - 2020

\$10,000.00



6. Drainage District Hydraulic Project Approval Management Packet #SM-0008

Purpose & Description

Local Drainage Districts have been unable to facilitate acquisition of appropriate permitting from WDFW to conduct proper maintenance on their drainage systems. This has resulted in areas of sediment accumulation and vegetation overgrowth restricting proper drainage flow paths. Reduced drainage has impacted proper flow control functionality of several city owned stormwater detention ponds and resulted in vegetation overgrowth control complaints from several residence.

To help alleviate this issue, an Inter-local agreement is tentatively planned to be established with Drainage District 5/5A and 6 for the COE to facilitate acquisition of HPA permitting with the WDFW for comprehensive maintenance of appropriate drainage district ditches which serve the City's MS4. Said agreement would establish appropriate cost sharing requirements of the city regarding permit acquisition and maintenance work for which no funds are currently budgeted for. As a majority of the city's MS4 drainage flows through drainage ditches under the jurisdiction of DD5 and DD6 it is in our best interest to assist financially with this effort.

Budget Highlights

Lack of maintenance on several key drainage district ditches in the COE has led to drainage issues and could lead to future flooding issues within the city if no addressed properly.

Fiscal Details - 2020

\$50,000.00

The attached chart shows gas supply cost over the last year. We are currently hedged for the summers of 2020 and 2021 at \$1.99 and \$1.80 respectively. Today I received a quote of \$1.71 for the summer of 2022, current pricing for 2020 is \$1.68 and 2021 is \$1.68. I would recommend we the committee set a target price execution for the summer of 2022 or take a set a strike at \$1.71 or \$1.72 and see if we can lock it in now. My assumption is prices will dip more as we move into September, that tends to be the trend, but it isn't always the case.

As for the Winter of 22/23, we are still monitoring the target price of \$2.55, today's quote came in at \$2.69.

Sample Motion:

Move that Council authorize Administration to purchase an additional ²⁵25% of the average gas load for the period of April 1, 2022 through October 31, 2022 at a price not to exceed \$ 1.15 (~~(\$1.71 - 1.72)~~) per dekatherm or less.

