CITY OF SOUTH SIOUX CITY
FINANCE/LEISURE/LEGISLATIVE AGENDA
May 8, 2019 at 12:00 PM

*A current copy of the **Open Meetings Act** is posted on the north wall in the rear of the Council Chambers and is available for review by all citizens in attendance. A sign-in sheet is available at the entrance to the Council Chambers. We ask your assistance by signing in as this is a Federal Grant requirement. It is strictly voluntary to complete the sign-in sheet.*

The City of South Sioux City reserves the right to adjust the order of items on this agenda if necessary and may elect to take action on any of the items listed.

CALL TO ORDER

ROLL CALL - Excuse Absence

1 .PUBLIC COMMENT PERIOD—

i. *Every citizen speaking at the meeting shall begin his or her remarks by stating his or her name and postal address.*

ii. *All citizens' remarks shall be directed to the Chairperson, who shall determine by whom any appropriate response shall be made.*

iii. *Individuals wishing to address the Committee are asked to limit their comments to five minutes.*

2 .FINANCE – Chairman Bruce Davis

2.a. Utility appleals

2.b. Engineer Report
550PROG050319.pdf

2.c. Library Electric & Lighting Report
South Sioux City City Library LED lighting report 2018.pdf
South Sioux City Library Energy Assessment Report 2018.pdf

2.d. Property Maintenance Code Official

2.e. TIF application - Hovey.

2.f. Intern GIS project
SSC GIS Intern Project Task Order.pdf

2.g. Green Star Power Purchase Agreement

3 .LEISURE – Chairman Jim Gunsolley

3.a. Park resiliency project

4 .LEGISLATIVE - Chairwoman Carol Schuldt

4.a. Legislative bills

5 .MISCELLANEOUS AND UNFINISHED BUSINESS

5.a. June and July meeting dates

5.b. Green Star Developer's Agreement

5.c. Sewer Update

5.d. Potential/Pending litigation

5.e. Go into closed session

5.f. Come out of closed session

5.g. Adjourn

6 .UPCOMING EVENTS —

- *Council Meetings - May 13 & Tues., May 28, 2019 @ 5:00 p.m., City Hall.*
- *Public Works Meetings – May 20, 2019 @ 5:00 p.m., City Hall.*
- *Finance Meetings- May 22, 2019, 2019 @ 12:00 p.m. City Hall.*
- *CDA Meetings – May 9 & 23, 2019 @ 11:00 a.m., City Hall.*

JEO Project Status Report

To: City of South Sioux City: Lance Hedquist and Bob Livermore

Date: May 3, 2019

Report Prepared By: Ethan E. Joy, PE

JEO #	Project	Funding Source #	Current Status	Expectations	Necessary City Action	Schedule
R100162	Connecting Schools Trail	C.N. 32169 SRTS-22(32)	NDOT provided final plan comments, JEO returned to NDOT all corrections on 4/24	Letting date likely to be pushed back until June		TBD
R150828.01	East 29th Street Design & Construction	Local	Final trail panels to be poured, final grading/seeding to occur soon	Existing 29th Street panel work will not begin until after school is out for the summer.		Project Substantial Completion: August 2, 2019
R170181.00	Natural Gas Electrical Generation Facility		Industry selected a low bidder, will proceed with project.			
R171346.00	Joe Morton & Son Office Building (Great West Bldg.)	TIF/CDA	Punchlist review only has minor touchup items	Project is substantially complete as of 4/24		Project Completion: May 1, 2019

Thank you.

Note: Items in Red are new from previous report.

Ethan E. Joy, PE
Branch Manager

Your Goals, Our Team, One Vision

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February 22, 2019

City of South Sioux City Library
204 W 21st Street
South Sioux City, NE 68776

Subject: LED Lighting Project

Dear David Mixdorf;

Thank you for the tour of your facility. I enjoyed the opportunity to visit with you about your business and your lighting needs.

As we discussed, retrofitting and replacing in-efficient lighting sources with more current technology will yield energy savings and improved lighting.

An analysis of your facility was performed and the following inputs were considered:

- An average cost of **$0.100/kWh**.
- **2,756** annual operating hours.

Based upon these considerations, your estimated total incentive is:

- **$1,467.50** with a total project simple payback of **2.1 years**.

Additional to this incentive, your facility will save:

- **60,221 kWh** and **$6,022** annually

See attached detailed lighting analysis for the building.
NOTE: The installed fixture cost is an estimate and the final incentive amount may vary based on actual costs.
In the event you wish to proceed with any or all of the lighting upgrades described herein, please consult with me to verify the applicable incentive amount and reserve these funds for your project.

I would like to thank you for allowing me to assist you in your energy needs. Please feel free to contact me if you have any questions.

Sincerely,

James Loutzenhiser, C.E.M.
Nebraska Public Power District
Energy Efficiency Consultant
1200 S. Chestnut Street
Norfolk, NE 68701
402-379-6821
jlloutz@nppd.com

	LED Lighting Project								
Location	Existing Fixture Type	Existing Fixture Qty	Proposed Fixture Type	Prpsd Fixture Qty	Annual kWh Savings	Annual Energy Savings	Incentive Amount	Est. Installed Cost Per Fixture / **Total Cost**	Simple Payback w/ Incentive
Entry	6 inch recessed w/2 bulb, 26W CFLs	4	15W, retrofit LED trims	4	1,296 kWh	$130	$0	$20	0.6 yr
Entry	F40/30BX/SPX35, 4 pin 2G11 Base, 40W Fluorescent	24	22W, 4 pin 2G11 LED bulb (ballast removed)	24	1,124 kWh	$112	$0	$15	3.2 yr
Parking Lot	Metal Halide, 400W	3	66-130 watt HB LED (new fixture)	3	4,056 kWh	$406	$120	$180	1.0 yr
North Pendant	Metal Halide, 150W	3	9-65 watt HB LED (retrofit lamps)	3	1,860 kWh	$186	$30	$80	1.1 yr
Pillars	Metal Halide, 150W	12	9-65 watt HB LED (retrofit lamps)	12	4,464 kWh	$446	$120	$80	1.9 yr
Exit Eaves	Metal Halide, 250W	2	9-65 watt HB LED (retrofit lamps)	2	2,208 kWh	$221	$20	$40	0.3 yr
Library - bird cage	T12 4' Fluorescent, 2-40W	4	9-22 watt LED (retrofit tube)	8	794 kWh	$79	$10	$8	0.7 yr
Library - Bathrooms Ceiling	4', 2 lamp T8	6	9-22 watt LED (retrofit tube)	12	480 kWh	$48	$15	$8	1.7 yr
Library - Bathrooms Mirror	4', 2 lamp T8	2	9-22 watt LED (retrofit tube)	4	160 kWh	$16	$5	$8	1.7 yr
Library - Bathrooms Lobby	6 inch recessed w/2 bulb, 26W CFLs	2	15W, retrofit LED trims	2	204 kWh	$20	$0	$20	2.0 yr
Library - 2x4 parabolic, lower study/reading area	4', 3 lamp T8	61	9-22 watt LED (retrofit tube)	183	7,733 kWh	$773	$153	$8	1.7 yr
Library - wall wash up/down	4', 2 lamp T8	2	9-22 watt LED (retrofit tube)	4	160 kWh	$16	$5	$8	1.7 yr
Library - wall wash up/down	8', 2 lamp-F96T8 or 4 lamp-F32T8	22	9-22 watt LED (retrofit tube)	88	3,759 kWh	$376	$55	$8	1.7 yr
Library - center floods	Metal Halide, 250W	26	66-130 watt HB LED (retrofit lamps)	26	15,764 kWh	$1,576	$520	$160	2.3 yr
Library - recessed	6 inch recessed w/2 bulb, 26W CFLs	13	15W, retrofit LED trims	13	1,326 kWh	$133	$0	$20	2.0 yr
Library - diffused	4', 3 lamp T8	3	9-22 watt LED (retrofit tube)	9	380 kWh	$38	$8	$8	1.7 yr
Library - diffused	4', 2 lamp T8	8	9-22 watt LED (retrofit tube)	16	639 kWh	$64	$20	$8	1.7 yr
Library - diffused	4', 4 lamp T8	1	9-22 watt LED (retrofit tube)	4	165 kWh	$17	$3	$8	1.8 yr
Library - wraps	T8 2' Fluorescent, 2-20W	6	9-22 watt LED (retrofit tube)	12	96 kWh	$10	$15	$10	10.9 yr

A Certified Energy Manager did a walkthrough of your facility to help you identify ways to save energy at your facility. This report includes a high level description of data, ideas, and/or recommendations which are consistent with current energy efficiency practices used throughout the commercial industry as known to the Certified Energy Manager, that may be beneficial for your facility and or operation. We recommend that you engage engineering expertise, as required, if you decide to pursue implementation of any of the recommendations contained in this report.

Library - pendant	8', 6-4' lamp T8	11	9-22 watt LED (retrofit tube)	66	2,789 kWh	$279	$28	$8	1.8 yr
Library - pendant	12', 9-4' lamp T8	10	9-22 watt LED (retrofit tube)	90	3,721 kWh	$372	$25	$8	1.9 yr
Library - fireplace`	25W recessed lights	4	9W LED bulb BR30	4	176 kWh	$18	$0	$5	1.1 yr
Library - fireplace`	25W flood lights	2	9W LED bulb BR30	2	88 kWh	$9	$0	$5	1.1 yr
North Computer Lab	T12 4' Fluorescent, 4-34W	5	9-22 watt LED (retrofit tube)	20	290 kWh	$29	$13	$8	5.1 yr
North Computer Lab	4', 4 lamp T8	2	9-22 watt LED (retrofit tube)	8	60 kWh	$6	$5	$8	9.8 yr
Lobby - wraps	4', 2 lamp T8	4	9-22 watt LED (retrofit tube)	8	320 kWh	$32	$10	$8	1.7 yr
Lobby - parabolic recess	4', 3 lamp T8	7	9-22 watt LED (retrofit tube)	21	887 kWh	$89	$18	$8	1.7 yr
Meeting Room	4', 3 lamp T8	19	9-22 watt LED (retrofit tube)	57	437 kWh	$44	$48	$8	9.3 yr
Gym - wrap	T12 4' Fluorescent, 2-34W	1	9-22 watt LED (retrofit tube)	2	58 kWh	$6	$3	$8	2.3 yr
Gym - recess	T12 4' Fluorescent, 4-34W	23	9-22 watt LED (retrofit tube)	92	2,668 kWh	$267	$58	$8	2.5 yr
Gym	Incandescent, 60W	2	9W A-19 LED bulb	2	51 kWh	$5	$0	$5	2.0 yr
Basement	T12 8' Fluorescent, 2- 60W	5	23-45 watt LED (retrofit tube)	10	20 kWh	$2	$25	$25	112.5 yr
Basement	CFL, 13W	12	9W A-19 LED bulb	12	5 kWh	$0	$0	$5	125.0 yr
Basement	LED, 9.8W	3	LED, 9.8W	3	0 kWh	$0	$0	$0	0.0 yr
Snack Kitchen Area	4', 3 lamp T8	3	9-22 watt LED (retrofit tube)	9	69 kWh	$7	$8	$8	9.3 yr
Snack Kitchen Area	4', 2 lamp T8	1	9-22 watt LED (retrofit tube)	2	15 kWh	$1	$3	$8	9.3 yr
NECC Rooms - wrap	4', 2 lamp T8	7	9-22 watt LED (retrofit tube)	14	102 kWh	$10	$18	$8	9.3 yr
NECC Rooms - recess	4', 2 lamp T8	6	9-22 watt LED (retrofit tube)	12	87 kWh	$9	$15	$8	9.3 yr
NECC Rooms - recess	4', 4 lamp T8	4	9-22 watt LED (retrofit tube)	16	120 kWh	$12	$10	$8	9.8 yr
NECC Rooms - recess	T12 4' Fluorescent, 4-34W	22	9-22 watt LED (retrofit tube)	88	1,276 kWh	$128	$55	$8	5.1 yr
NECC Rooms - recess cans	CFL, 26W Biax Pin, 2 bulb	4	15W, retrofit LED trims	4	74 kWh	$7	$0	$20	10.8 yr
Meeting Room bathrooms - parabolic	4', 3 lamp T8	6	9-22 watt LED (retrofit tube)	18	138 kWh	$14	$15	$8	9.3 yr
Meeting Room bathrooms - 1x4 wraps	4', 2 lamp T8	7	9-22 watt LED (retrofit tube)	14	102 kWh	$10	$18	$8	9.3 yr
	Total	**374**		**993**	**60,221 kWh**	**$6,022**	**$1,468**	**$14,190**	**2.10 yr**

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City of South Sioux City Library
204 W 21st Street
South Sioux City, NE 68776

Dear Mr. David Mixdorf,

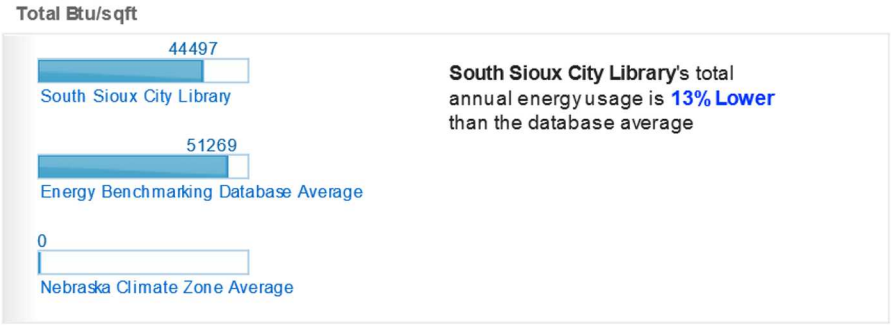
The walk-through assessment of South Sioux City Library building of approximately 22,491 sq ft (main floor) and 2,432 sq ft (basement) did reveal a few opportunities for energy reduction. The following report includes notes taken from the assessment.

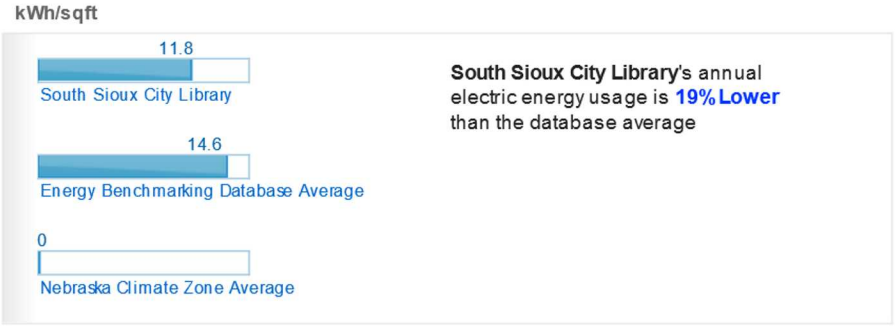
The main areas reviewed in the assessment were:

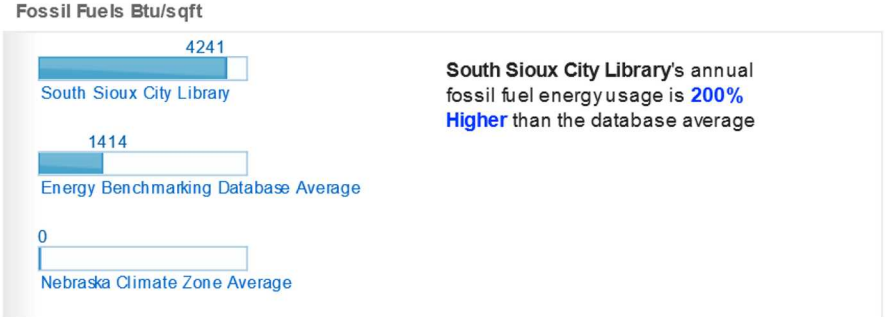
1. Energy Benchmark data
2. Heating and cooling systems
3. Insulation System
4. Windows and doors
5. Appliances and electronics
6. Lighting

Notes and Recommendations:

Energy Benchmarking Data:







HVAC and Ventilation:

Description	Cooling	Heating	Control	Explanation
Library HVAC System #1	13.4 EER	3.2 COP	Setback Digital Thermostats	1.5 Ton, FHP geothermal heat pump ground loop system Model: EM018-1VTC, Serial: LD007281 **Loop temps**: 58°F incoming temps, and 55°F outgoing temps
Library HVAC System #2	13.4 EER	3.2 COP	Setback Digital Thermostats	1.5 Ton, FHP geothermal heat pump ground loop system Model: EM018-1VTC, Serial: LD007282 **Loop temps**: 58°F incoming temps, and 55°F outgoing temps
Library HVAC System #3	14.6 EER	3.3 COP	Setback Digital Thermostats	2.5 Ton, FHP geothermal heat pump ground loop system Model: EM028-3VTC, Serial: LD007319 **Loop temps**: 58°F incoming temps, and 55°F outgoing temps
Library Furnace Room Supplement	N/A	Electric Resistance	Unit temperature control	QMark, 5KW Electric Resistance heater – rarely used
Library Break Room Supplement	N/A	Electric Resistance	Unit temperature control	2 ct - Comfort Zone, 1.5KW Electric Resistance heaters
Library Entry Wall Heater	N/A	Electric Resistance	Unit temperature control	2 ct - Model: CU93505203FFB, Manuf. Date: 01/2004 5KW Electric Resistance heaters Air flow switched to high and temp setting no. 4 (medium)
NECC/Meeting Rooms/Offices/Basement HVAC #1	12 SEER	97.5% Eff Natural Gas	Setback Digital Thermostats	5 ton, AC#1 Model: H4DH060S06A, Serial: WBNM044796 120K BTU Tempstar, 97.5% efficiency natural gas furnace Model: F9MXT1202422A2, Serial: A154959171
NECC/Meeting Rooms/Offices/Basement HVAC #2	12 SEER	97.5% Eff Natural Gas	Setback Digital Thermostats	5 ton, AC#2 Model: H4DH060S06A, Serial: WCNM052163 120K BTU Tempstar, 97.5% efficiency natural gas furnace Model: F9MXT1202422A2, Serial: A154959163
NECC/Meeting Rooms/Offices/Basement HVAC #3	12 SEER	97.5% Eff Natural Gas	Setback Digital Thermostats	5 ton, AC#3 Model: H4DH060S06A, Serial: WENM074124 120K BTU Tempstar, 97.5% efficiency natural gas furnace Model: F9MXT1202411A2, Serial: N/A
NECC/Meeting Rooms/Offices/Basement HVAC #4	12 SEER	Electric Resistance	Dial Thermostat No Setback	3 ton, AC#4 Model: H4DH036S06A, Serial: WCNM017149 20 KW Electric Resistance Air Handler, Model: CUE020A3
Rooftop Library HVAC Unit	N/A	81% Eff Natural Gas	Setback Digital Thermostats	180K BTU Aaon Rooftop unit, Model: Unable to read nameplate
Library	N/A	N/A	Add digital wall control	Number of ceiling fans need to be installed in library. Fans are typically used to keep air from getting stagnant and helps bring heat down from the ceiling area during the winter, and helps with cooling occupants during the summer.

Notes:

It is recommended to replace furnace air filters every 30 to 90 days and to use properly fitting pleated vs. fiberglass filters for efficiency and removal of finer dust particles. Some of the outdoor coils were dirty with leaves, cotton, and trash. It is likely that these systems are not running at optimum efficiency. This can be costly and it is recommended to clear all dead leaves, trash and dirt from the outdoor coils. It is also recommended to perform a cooling system tune-up every 3 years at a minimum. A system tune-up will help ensure high efficiency operation of the system, help diagnose problems before they occur, prolong life of the systems, and depending on system and contract it can help maintain warranty. Turn fans off when the facility is unoccupied. Fans are great for moving air and keeping occupants comfortable, but are a waste of energy when unoccupied.

Setback thermostats are utilized throughout the facility. They were set accordingly: 70°F (Heat) and 75°F (Cool) from 8 am to 10 pm, and setback to 55°F (Heat) and 85°F (Cool) from 10 pm to 8 am. The one non-setback, dial thermostat in the front NECC offices was set at 90°F, but the actual temp read on thermostat was 70°F (*accuracy?).* It is recommended to upgrade the dial thermostat to a digital, setback thermostat for energy savings. Some areas that are rarely or never occupied are still set for occupied temperatures during the day.

It is recommended to check all existing digital setback thermostats for proper temperatures for occupied/unoccupied and proper timing (check clock settings). In places that are normally occupied during the day, one would want to keep temperatures set according to consumer comfort (*around 68 to 70°F*) & get your savings lower heat/cooling settings when unoccupied (*3 to 4 degrees for heat pumps, 55 to 60°F for gas furnaces/electric resistance heat*).

Upgrading low efficiency units such as the electric resistance air handlers, wall units, and space heaters to high efficiency heat pumps or geothermal heat pumps is recommended. Upgrading from electric resistance to high efficiency heat pumps can result in up to 400% heating/cooling savings (*depending on the system*) in the areas that are conditioned by these units. Upgrading the 81% efficient natural gas roof top unit to a high efficiency heat pump or geothermal heat pump is recommended as well.

Insulation:

Location	Insulation Type	R-Value	Explanation
Library Walls	Fiberglass batts	19	5.5" fiberglass batts
	Polyisocyanurate board?	6	1" cavity wall insulation
Library Attic	Polyisocyanurate board	13.2	2.2" sheet insulation
Library Perimeter Slab	Polyisocyanurate board	12.0	2" sheet insulation
Library Window Jam	Fiberglass batts	13	3 5/8" fiberglass batts
	Polyisocyanurate board?	6	1" cavity wall insulation
NECC/Conference Rooms Walls	N/A	0	According to drawings – no insulation.
NECC/Conference Rooms Attic	Polyisocyanurate board	13.2	2.2" sheet insulation
Lobby/Breezeway Attic	Fiberglass batts	19	5.5" fiberglass batts
Lobby/Breezeway Walls	N/A	0	According to drawings – no insulation.
North facility basement	None	0	No insulation on basement walls.

Insulation values for the facility should be brought up to minimum values for building in this climate zone (5A) per IECC 2009. Recommended values for commercial buildings are as follows:

Location	R-Value	Explanation
Library Walls	13 / 3.8	Cavity / Continuous Insulation
Library Attic	40	Total
Library Perimeter Slab	10	Perimeter continuous
Library Window Jam	13 / 3.8	Cavity / Continuous Insulation
NECC/Conference Rooms Walls	13 / 3.8	Cavity / Continuous Insulation
NECC/Conference Rooms Attic	40	Total
Lobby/Breezeway Attic	40	Total
Lobby/Breezeway Walls	13 / 3.8	Cavity / Continuous Insulation
North facility basement	7.5	Continuous Insulation

Windows:

Location	Window Type	Leaky?	Explanation
Full facility	Double-pane, tempered	Not Leaky	Windows are in good condition. Be sure to check seals periodically for signs of degradation, gas leakage from between glass, or air/water leaks. Some windows need caulking replaced

	aluminum frame, Gerkin windows		with new silicon based caulking.

Doors:

Location	Door Type	Leaky?	Explanation
Library South Door	Steel insulated door	Very Leaky	All seals were found to be damaged, leaky and needing replacing. Large air gaps can be seen around the door. It is recommended to replace all seals and ensure tight fit on all sides of the door.
Library West Door	Steel insulated door	Very Leaky	All seals were found to be damaged, leaky and needing replacing. Large air gaps can be seen around the door. It is recommended to replace all seals and ensure tight fit on all sides of the door.
Library North Main Doors	Double-pane, double glass doors	Very Leaky	These doors are not exterior doors and therefore are not required to be sealed as tight as entry/exit doors. However, if the foyer/hall leading to the library is kept at cooler or hotter temperatures, it might be an option to add good tight fitting seals to all four sides of these doors.
Foyer/Hall West Double Door	2 sets of double-pane, double glass doors	Very Leaky	The interior set of glass doors are not exposed to outside weather and are not required to be sealed tight. However, these doors are a great buffer between the interior conditioned space and the outside elements. An option would be to add good tight fitting seals to all four sides of these doors to help reduce air infiltration. The exterior set of glass doors are exposed to the outside weather and good tight fitting seals are necessary to prevent air infiltration. The door seals on all four sides of each door are worn and have gaps. It is recommended to replace all damaged seals and adjust doors accordingly ensuring a good tight seal.
Foyer/Hall East Double Door	2 sets of double-pane, double glass doors	Very Leaky	The interior set of glass doors are not exposed to outside weather and are not required to be sealed tight. However, these doors are a great buffer between the interior conditioned space and the outside elements. An option would be to add good tight fitting seals to all four sides of these doors to help reduce air infiltration. The exterior set of glass doors are exposed to the outside weather and good tight fitting seals are necessary to prevent air infiltration. The door seals on all four sides of each door are worn and have large gaps. Air infiltration is significant. It is recommended to replace all damaged seals and adjust doors accordingly ensuring a good tight seal.
West Kitchen Exit Door	Steel insulated door	Very Leaky	All seals were found to be damaged, leaky and needing replacing. Large air gaps can be seen around the door. It is recommended to replace all seals and ensure tight fit on all sides of the door.
West Conference Room Door	Double-pane, glass doors	Very Leaky	The interior glass door is not exposed to outside weather and not required to be sealed tight. However, this door is a great buffer between the interior conditioned space and the outside elements. An option would be to add good tight fitting seals to all four sides of this door to help reduce air infiltration. The exterior glass door is exposed to the outside weather and good tight fitting seals are necessary to prevent air infiltration. The door seals on all four sides the door are worn and have large gaps. Air infiltration is significant. It is recommended to replace all damaged seals and adjust door accordingly ensuring a good tight seal.
North NECC Door	Double-pane, glass door	Very Leaky	This glass door is exposed to the outside weather and good tight fitting seals are necessary to prevent air infiltration. The door seals on all four sides of the door are worn and have some gaps. Air infiltration is medium. It is recommended to replace all damaged seals and adjust door accordingly ensuring a good tight seal.

Appliances:

Location	Name of Appliance	Description/Recommendation
NECC Meeting Room	Copier/Printer	Server and printer still on and running.
Snack Shack	Candy snack machine	~ 360W running watts. Interior lights on all day. Upgrading lighting from fluorescent to LED will save up to 80% lighting energy use. VendingMiser saves between 30-50% of the annual electricity costs (~$250) of a refrigerated vending machine, depending on the application and occupancy of the location. VendingMiser uses an infrared sensor to power down the vending machine after 15 mins of vacancy, constantly monitoring the room's temperature while powered off to maintain the temperature of the product. If you plan to install this device, make sure that everyone is aware such as local reps of the vending company.
Snack Shack	Pepsi vending machine	~ 400W running watts. Interior lights on all day. Upgrading lighting from fluorescent to LED will save up to 80% lighting energy use. VendingMiser saves between 30-50% of the annual electricity costs (~$250) of a refrigerated vending machine, depending on the application and occupancy of the location. VendingMiser uses an infrared sensor to power down the vending machine after 15 mins of vacancy, constantly monitoring the room's temperature while powered off to maintain the temperature of the product. If you plan to install this device, make sure that everyone is aware such as local reps of the vending company.
Snack Shack Kitchen	Small TRUE refrigerator	ON, used for pop cans only, Model No. TUC-27, Serial No. 11997293
Snack Shack Kitchen	BUNN Coffee Maker	ON, CW Series, Model No. CWTF15-APS, Serial No. CWTF187076, 1520W – constantly ready to make coffee, heating water 24/7.
Snack Shack Kitchen	Kenmore Refrigerator	ON (almost empty) – Model No. 253.26052101, Serial No. WB64138584
Snack Shack Kitchen	TRUE Commercial Refrigerator	ON (partially full) – Model No. T-23, Serial No. 11528115, Temperature gauge broken
Snack Shack Kitchen	Gas water heater w/ recirc pump	ON/OFF - AO Smith Cyclone XHE High efficiency, Temperature set at 125°F, 100 gal capacity, Model No. BTH 199 970, Serial No. MC040011775, 199,900 BTU/HR, 227.76 gal/hr recovery, Manuf. 3/22/2004.
Snack Shack Kitchen	Refrigerated glass case	OFF, Model No. CG4850SC-DZ, Serial No. 62926-2
Snack Shack Kitchen	Microwave	ON, not in use – 2 count, Model No. 790.80339310, Serial No. KG80460349, Manuf. Jan 2018.
Snack Shack Kitchen	Electric Stove	ON, not in use - Maytag, glass top
Basement	Electric water heater, 6 gals.	AO Smith Cyclone XHE High efficiency, Temperature set at 125°F, Model No. PROE6 1 RH POU, Serial No. Q251823728, Manuf. 6/19/18, 2kW
Basement (weight room)	55+" LED TV / DVD / Cable box	Rarely on. TV used only during workouts. TV, DVD, and Cable box remains in standby mode when off.
Basement (weight room)	Radio	Rarely on. Radio used only during workouts. Radio remains in standby mode when off.
Basement (weight room)	Mini-fridge	Mini-fridge on all the time. Rarely used and almost empty. Recommend to keep full as possible to minimize run time or just turn off to save energy. Seals on mini-fridge door are bad and recommend either replacing seals or buy new mini-fridge.
Basement	Sump pumps	2 pumps are installed in basement. Unable to see size or watch run time. Check periodically to ensure that sump pumps operate properly and never stuck "ON" at any time.
Library	Computer Labs	16 desktop computers (Energy Star rated). All in standby mode.
Library	TV	Approximately 50 inch LED TV.
Library	Copier	GPR copier, Energy Star rated. Sleeps when not in use.
Library Kitchen	Whirlpool Refrigerator	Model No. EL1WSRXLQ, Serial No. EER1501408 (98W) 10.7 cu ft capacity
Library Kitchen	Frigidaire Dishwasher	Model No. FDB641RJS0, Serial No. TH03373342. Use for storage only and never on.
Library Utility Room	Electric water heater, 20 gals.	Model No. DEL 20 102, Serial No. MC040003875 (3000W heating element)

For all appliances, it is recommended to unplug or remove all unused appliances. For appliances that rarely are used, consider downsizing *(i.e. refrigerators for pop down to mini-fridge size*) appropriately to help save energy. If upgrading, purchase new Energy Star rated appliances. Set all hot water temperatures to a recommended 120°F unless located in a certified commercial kitchen. Other energy saving recommendations were provided in the description column of each listed appliance.

Lighting:

Please refer to attached lighting report for full details and recommendations.

Top 5 listed Energy Efficiency Tips:

1. Unplug all unused appliances or remove them.
2. Set all thermostats to unoccupied temperatures as recommended in rooms that are never used and service all HVAC systems to help ensure maximum *efficiency (i.e. clean outdoor coils).*
3. Replace all damaged or missing door seals on all sides of the door. Consider adding door seals to inside vestibule doors in entry for added protection from air infiltration.
4. Upgrade all lighting to LED fixtures/bulbs as recommended in the lighting report.
5. Upgrade insulation levels to recommended listed levels.

Information has been enclosed detailing energy saving methods that can be implemented to help improve the efficiency of your facility. Please read through this information and contact me if you have any questions.

I appreciate your time and welcoming me into your facility! Have a great day!

Sincerely,

James Loutzenhiser, C.E.M.
Energy Efficiency Consultant
Nebraska Public Power District
1200 South Chestnut Street
Norfolk, NE 68701-0519
Office: (402) 379 – 6821
Email: jlloutz@nppd.com

A Certified Energy Manager did a walkthrough of your facility to help you identify ways to save energy at your facility. This report includes a high level description of data, ideas, and/or recommendations which are consistent with current energy efficiency practices used throughout the commercial industry as known to the Certified Energy Manager, that may be beneficial for your facility and or operation. We recommend that you engage engineering expertise, as required, if you decide to pursue implementation of any of the recommendations contained in this report.

Nebraska Public Power District

Always there when you need us

		204 W 21st Street - Old Bldg			2121 Dakota Ave - Library			2111 Dakota Ave - Café			Total	Total	Total Library		
Month	Year	kWh	KW	Total Bill	kWh	KW	Total Bill	kWh	KW	Total Bill	kWh	kW	Electric Bill	Therms	Gas Bill
January	2018	3891	0	$314.72	26240	0	$ 1,988.66	651	0	$ 72.04	30,782	-	$ 2,375.42	235	$ 166.38
February	2018	3185	0	$261.84	22320	0	$ 1,695.05	700	0	$ 75.71	26,205	-	$ 2,032.60	212	$ 147.34
March	2018	3142	0	$258.62	18360	0	$ 1,398.45	800	0	$ 83.20	22,302	-	$ 1,740.27	165	$ 112.31
April	2018	2784	0	$231.80	23040	0	$ 1,748.98	663	0	$ 72.94	26,487	-	$ 2,053.72	107	$ 76.85
May	2018	2420	0	$204.54	18440	0	$ 1,404.44	778	0	$ 81.56	21,638	-	$ 1,690.54	29	$ 26.30
June	2018	1998	0	$172.93	19720	0	$ 1,500.31	734	0	$ 78.26	22,452	-	$ 1,751.50	16	$ 19.03
July	2018	2650	0	$221.77	22120	0	$ 1,680.07	0	0	$ 23.28	24,770	-	$ 1,925.12	18	$ 22.87
August	2018	2759	0	$229.93	20320	0	$ 1,545.25	0	0	$ 23.28	23,079	-	$ 1,798.46	17	$ 21.77
September	2018	2725	0	$227.39	18680	0	$ 1,422.42	1055	0	$102.30	22,460	-	$ 1,752.11	11	$ 16.98
October	2018	2026	0	$152.54	18000	0	$ 1,178.07	2473	0	$181.24	22,499	-	$ 1,511.85	26	$ 26.65
November	2018	1608	0	$125.70	20720	0	$ 1,352.69	781	0	$ 72.61	23,109	-	$ 1,551.00	65	$ 50.93
December	2018	2690	0	$182.40	24840	0	$ 1,511.40	651	0	$ 60.06	28,181	-	$ 1,753.86	156	$ 108.74
											-				
January	2017	3016	17.83	$ -	23960	71.2	$ -	2934	0	$ -	29,910	89	$ -	183	$ 122.17
February	2017	3560	17.22	$ -	23200	67	$ -	0	0	$ -	26,760	84	$ -	137	$ 93.75
March	2017	2640	16.61	$ -	20640	71.16	$ -	800	0	$ -	24,080	88	$ -	115	$ 83.29
April	2017	2658	17.2	$429.48	18520	64.72	$ 2,068.29	663	0	$139.16	21,841	82	$ 2,636.93	45	$ 40.39
May	2017	2230	14.61	$369.74	18200	66.32	$ 2,078.72	778	0	$159.27	21,208	81	$ 2,607.73	32	$ 31.48
June	2017	1992	12.59	$336.53	17600	65.08	$ 2,164.62	734	0	$151.58	20,326	78	$ 2,652.73	18	$ 21.74
July	2017	2378	12.85	$390.40	20200	66.64	$ 2,332.10	273	0	$ 70.99	22,851	79	$ 2,793.49	15	$ 20.48
August	2017	2542	14.2	$213.68	21960	0	$ 1,668.09	0	0	$ 23.28	24,502	14	$ 1,905.05	14	$ 18.83
September	2017	1686	0	$149.56	17240	0	$ 1,314.56	1055	0	$102.30	19,981	-	$ 1,566.42	16	$ 20.56
October	2017	1790	0	$157.35	17760	0	$ 1,353.51	207	0	$ 38.79	19,757	-	$ 1,549.65	22	$ 23.94
November	2017	1555	0	$139.75	18480	0	$ 1,407.44	781	0	$ 81.78	20,816	-	$ 1,628.97	67	$ 52.35
December	2017	2321	0	$184.23	20680	0	$ 1,469.36	651	0	$ 60.06	23,652	-	$ 1,713.65	101	$ 77.28
											-				
January	2016	2800	18.82	$ -	27040	78.84	$ -	1600	0	$ -	31,440	98	$ -	425	$ 301.00
February	2016	3235	16.99	$ -	24120	78.92	$ -	806	0	$ -	28,161	96	$ -	174	$ 136.94
March	2016	2727	12.64	$ -	24440	77.6	$ -	800	0	$ -	27,967	90	$ -	78	$ 63.51
April	2016	2209	16.52	$ -	17640	74.6	$ -	663	0	$ -	20,512	91	$ -	40	$ 37.72
May	2016	1783	10.83	$ -	18640	70.76	$ -	778	0	$ -	21,201	82	$ -	23	$ 26.06
June	2016	2227	13.84	$369.32	24400	77.92	$ -	734	0	$ -	27,361	92	$ 369.32	15	$ 20.42
July	2016	4313	16.09	$ -	22720	75.64	$ -	273	0	$ -	27,306	92	$ -	14	$ 20.52
August	2016	3635	19.21	$ -	26440	79.56	$ -	657	0	$ -	30,732	99	$ -	14	$ 19.32
September	2016	3715	15.53	$ -	22720	73.8	$ -	1055	0	$ -	27,490	89	$ -	16	$ 20.18
October	2016	2405	12.59	$ -	17440	63.84	$ -	207	0	$ -	20,052	76	$ -	24	$ 24.33
November	2016	1634	9.1	$ -	18480	61.48	$ -	781	0	$ -	20,895	71	$ -	29	$ 27.37
December	2016	1901	18	$ -	21120	74	$ -	651	0	$ -	23,672	92	$ -	154	$ 105.86

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This is Task Order No. 190792.00,
Consisting of 2 pages

Task Order

In accordance with paragraph 1.01 of the Master Agreement Between Owner and Engineer for Professional Services dated November 1, 2012 ("Agreement") and subject to rates as set forth in Task Order 130047.01, Owner and Engineer agree as follows:

Specific Project Data

A. Title: 2019 South Sioux City GIS Intern Project

B. Description:

The City of South Sioux City maintains GIS datasets to assist in managing various utility datasets. GIS Workshop, LLC currently hosts the City's GIS data on their gWorks website. As the various utilities are improved or repaired it is important to keep their datasets up to date. Geospatial data may be generated during engineering design projects, survey data collection, construction, by City staff, or by collaboration with other agencies. In order to make sure that the datasets are standardized, regardless of their source, data schema and collection standards must be in place as a guide for data preparers.

1. **Services of Engineer**

See Attached Exhibit "A"

2. **Owner's Responsibilities**

Exhibit "B" from the Master Agreement Between Owner and Engineer for Professional Services as referenced above is modified as follows: *None.*

3. **Times for Rendering Services**

Phase	Completion Date
GIS Data Collection	July 12, 2019
Draft Report	July 26, 2019
Deliver GIS Datasets	August 9, 2019

4. **Payments to Engineer**

A. For Method of Payment A, Lump Sum

The total compensation for services identified under paragraph 1 of the Task Order is estimated to be $ 0.00 based on the following assumed distribution:

Phase	Estimated Compensation
TOTAL	***$ 0.00***

B. For Method of Payment B, Standard Hourly Rates: *None*

5. **Other Modifications to Master Agreement:** *None.*

Approval and Acceptance: Approval and Acceptance of this Task Order, including the attachments listed above, shall incorporate this document as part of the Agreement. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is_____.

Engineer	Owner
5/6/19	
Signature Date	Signature Date
Ethan Joy	Rod Koch
Name	Name
Branch Manager	Mayor
Title	Title
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Ethan E. Joy	Robert (Bob) Livermore
Name	Name
Project Engineer	Public Works Director
Title	Title
1909 Dakota Avenue, South Sioux City, NE 68776	1615 1st Avenue, South Sioux City, NE 68776
Address	Address
ejoy@jeo.com	blivermore@southsiouxcity.org
E-Mail Address	E-Mail Address
402.494.7019	402.494.7534
Phone	Phone
402.494.3508	402.494.7530
Fax	Fax

2019 South Sioux City GIS Intern Project

Project Background

The City of South Sioux City maintains GIS datasets to assist in managing various utility datasets. GIS Workshop, LLC currently hosts the City's GIS data on their gWorks website. As the various utilities are improved or repaired it is important to keep their datasets up to date. Geospatial data may be generated during engineering design projects, survey data collection, construction, by City staff, or by collaboration with other agencies. In order to make sure that the datasets are standardized, regardless of their source, data schema and collection standards must be in place as a guide for data preparers.

Scope

1 **DISCOVERY PHASE**

1.1 Consultant to hold meeting to discuss existing data and mapping standards with Public Works staff.

a. Gather understanding of data collection methods and accuracy levels
b. Gather understanding and reason for specific feature types, if any
c. Gather understanding and reason for field uses, if any
d. Gather understanding of data structure within gWorks site

2 **GIS DATA STANDARDS IMPLEMENTATION**

2.1 Consultant to review existing maps and GIS datasets available

2.2 Consultant to prepare GIS schema report for the following utilities

a. Sanitary Sewer
b. Storm Sewer
c. Water
d. Electric
e. Fiber Optic

2.3 Consultant to perform Survey data collection using the data standards developed in 2.2

a. Proposed survey area to be from 39th street to 33rd Street, From G Street to LeMesa Way (Western Park, Cardinal Estates, Eastwood, Oak Park, Bralda, Ogden)

2.4 GIS Data preparation

a. Using surveyed data, JEO staff to draft linework for utilities identified in 2.2

2.5 GIS data delivery

a. JEO project team to deliver data to City for transfer to GIS Workshop, LLC.

3 **ESTIMATED TIME FRAME:**

3.1 The following is the estimated time frame for this project. All calendar days are estimated, subject to acceptance day with City of South Sioux City.

a. Notice to Proceed –
b. Staff Meeting – May 2019
c. GIS Data Collection – July 2019
d. Complete draft report of standards – July 2019
e. Finalize report of standards – August 2019
f. Deliver GIS datasets – August 2019

4 **OWNER RESPONSIBILITY**

4.1 The Owner shall field locate all available utilities listed in 2.2 in the area listed in 2.3

4.2 Provide Consultant available “as-built” drawings of utilities to compare with Owner located utilities in the field.

5 **EXCLUSIONS**

5.1 Mapping/survey of areas outside the area described.

5.2 Excavation/potholing of any utility.

5.3 Rights-of-Way or boundary surveys

5.4 Condition assessment of any utility