POSSIBLE MOTION

I MOVE TO approve Ordinance 2016-33 on second and final reading.

Sponsor: Administration 1 2 3 4 5 6 CITY AND BOROUGH OF SITKA 7 8 **ORDINANCE NO. 2016-33** 9 AN ORDINANCE OF THE CITY AND BOROUGH OF SITKA 10 **ADJUSTING THE FY17 BUDGET** 11 12 13 BE IT ENACTED by the Assembly of the City and Borough of Sitka, Alaska as follows: 14 1. CLASSIFICATION. This ordinance is not of a permanent nature and is not intended to be a part 15 16 of the Sitka General Code of the City and Borough of Sitka, Alaska. 17 2. SEVERABILITY. If any provision of this ordinance or any application thereof to any person or 18 circumstance is held invalid, the remainder of this ordinance and application thereof to any person and 19 20 circumstances shall not be affected thereby. 21 3. **PURPOSE.** The purpose of this ordinance is to adjust the FY17 budgets for known changes. 22 23 4. ENACTMENT. The Assembly of the City and Borough of Sitka hereby adjusts the FY17 budget 24 for known changes. In accordance with Section 11.10(a) of the Charter of the City and Borough of Sitka, 25 Alaska, the budget for the fiscal period beginning July 1, 2016 and ending June 30, 2017 is hereby adjusted 26 as follows: 27 28 29

FISCAL YEAR 2017 EXPENDITURE BUDGETS

In accordance with Section 11.10(a) of the Charter of the City and Borough of Sitka, Alaska, the budget for the fiscal period beginning July 1, 2016 and ending June 30, 2017 is hereby adjusted as follows for the purchase orders open as of June 30, 2016.

General Fund – Amount of \$219,205.38; Electric Fund - \$129,805.47; Water Fund - \$865.70; Wastewater Treatment Fund - \$19,210.09; Solid Waste Fund - \$1,503; Harbor Fund - \$42,204.92; Gary Paxton Industrial Complex Fund - \$40,106.59; MIS Fund - \$84,647.56; Central Garage Fund -\$75,394.00; and Building Maintenance Fund - \$34,811.36.

Finance – Operations: The Finance Director has requested to re-appropriate funds in the amount of \$30,000 from personnel to contracted/ purchased services. This is due to the services performed from an outside accounting firm due to the Deputy Finance Director position vacancy.

ENTERPRISE AND INTERNAL SERVICE FUNDS

Electric Department – Capital Projects: The Electric Utility Director has requested to reappropriate the following projects and amounts: Jarvis Street Diesel Capacity Increase #90646 in the amount of \$244,393; SMC Road Upgrades Express Feeder #90512 for \$9,574; Marine Street Substation Voltage Regulator #90627 for \$9,150; HPR-Kramer Cascade Creek Line Riser #90645 for \$21,985; Transmission & 1220 Upgrade #90648 for \$4,519; Jarvis St. Control Building Roof Replacement #90765 for \$12,223; Microwave or Fiber Optic #90611 for \$37,618; Duel Fuel Interruptible Power #90791 for \$78,979; Jarvis Warehouse Paving #90719 for \$30,899 to the following existing and new requested projects: Feeder Improvements #80003 for \$195,838; SCADA System Enhancements #90410 for \$65,702; Capital for Fuel Conversions (Interruptible) for \$100,000; Asset Management for \$12,800; and Harbor Meters for \$75,000.

Electric Department – Personnel: At the August 9, 2016 meeting, the Assembly approved the 2016-2019 International Brotherhood of Electrical Workers (IBEW), Local 1547 Collective Bargaining Agreement. An amount of \$79,106 in wages and benefits will be increased in the Electric Department's personnel account.

EXPLANATION	
Necessary revisions in the FY 2017 budget were identifier expenditure accounts and causes decreased cash flows t	
explanation of each budget revision is included.	
5. EFFECTIVE DATE. This ordinance shall becompassage.	me effective on the day after the date of its
PASSED, APPROVED, AND ADOPTED by the As Alaska this 11th Day of October, 2016.	sembly of the City and Borough of Sitka,
ATTEST:	Mim McConnell, Mayor
Sara Peterson, CMC	

50 Municipal Clerk



September 1, 2016

To: Mark Gorman, Municipal Administrator Via: Jay Sweeney, Chief Finance & Administrative Officer

From: Bryan Bertacchi, Electric Utility Director

Subject: Electric Department - 10 Year Capital Plan and Associated Funds Transfer

Executive Summary:

The Electric Department respectfully requests Assembly approval of a revised and consolidated ten year capital plan. This ten year plan includes expending a total of \$22M in capital over the ten year period while maintaining an emergency reserve of \$2.5M and a liquidity reserve of \$1.0M. These reserve requirements are based on industry best practice as recommended by the CBS Chief Finance and Administrative Officer. The currently available Electric Department total working capital of \$15,881,204 will be increased by a \$1.5M/year due to the bond covenants. This request includes a revision to all Electric Department existing capital projects ("reappropriation") as well as newly identified projects to provide a complete consolidation. This recommendation comes after an eight month long process within the Electric Department which included detailed reviews coupled with 3rd party engineering studies. These projects are lengthy and interrelated, thus approval of the complete revision is requested.

Background:

The electrical infrastructure of the Electric Department required a thorough review to ensure that efficient and reliable operation will be sustained at the lowest reasonable cost. After review, it was identified that the available working capital was not sufficient to support the total number of capital projects identified. However, after an intensive and long process, staff is able to recommend a series of projects which can be completed within the existing capital constraints and that have the highest probability of ensuring reliability at low cost to our citizens and customers.

Highlights:

 <u>N-1 Project (\$3.9M)</u>: This term is used in our industry to describe redundancy and emergency backup. As we have often described, 80% of our citizens and customers are served from the Marine Street Substation. A back-up for this substation is imperative and necessary as the existing equipment is now over 35 years old. A new substation north of town would be ideal (Kramer Ave area) however the cost was identified as being too high (>\$13M of the available capital would be consumed). Alternatively, we are proposing to install a 2nd bay at the existing Marine Street Substation at a cost of approximately \$3.9M. This second bay would still utilize a portion of the older equipment, but the overall cost is substantially lower. This modification would also increase the amount of power that can be delivered from the Jarvis Substation to Marine Street customers in the event of an emergency. While not ideal, this provides the greatest increase in emergency backup at the lowest cost.

- 2. <u>Green Lake Power Plant Overhaul (\$4.8M)</u>: The Green Lake Power Plant is a very valuable asset for the community and has not been overhauled since the early 1990's. A major pre-inspection is scheduled for 2018 which will help to further define and identify the costs of a major overhaul. Similar plants have had overhauls in the cost range of \$8M when a full rewind of the generators was required. We are currently recommending a reserve of 4.8M for this item. Numerous small inspections during the last twelve months have clearly demonstrated specific needs to return this overhaul to the list of required capital items.
- 3. Jarvis Fuel System Repairs/Storage (\$1.5M) & Thimbleberry Bypass (\$3.8M): These two items are directly related. In August 2015 the fuel release demonstrated a need for extensive repairs and redesign to the Jarvis Street fuel storage system. Presently, the system was designed for over seven days of fuel storage. This period was defined by the time needed to repair the worst case scenario on the electrical transmission line....the Thimbleberry portion of the transmission line. The existing Thimbleberry portion of our 69kv backbone transmission line is installed in difficult and dangerous terrain and is subject to outages from fallen trees and extensive degradation of transmission poles. Presently, a repair during winter months has demonstrated to be dangerous and timeconsuming (on the order of seven days), thus setting the amount of fuel storage required. This plan, proposes to permit and install a bypass to the existing transmission line from the Whale park area to the Blue Lake Switchyard. This line would be planned on the inside of the roadway to minimize the impacts to the viewshed. This line will reduce the cost of annual diesel fuel burned, reduce the redesign costs of the Jarvis fuel system (\$2M saved), likely eliminate the need to replace the very old diesel generation units at the Jarvis facility (\$10M saved), and eliminate the costly and dangerous maintenance required on the existing transmission line.
- 4. <u>Feeder Improvements (\$1.6M)</u>: A host of miscellaneous feeder improvements are planned and required. Extensive aging and environment requires sufficient engineering, planning, inventory and lead time.
- 5. <u>Blue Lake 3rd Turbine (\$2.48M)</u>: A significant host of items are needed to close out this project and are required for compliance with the FERC permit including but not limited to: the dam overlook project, the campground, safety ladders on the dam, rock removal, etc.
- 6. <u>SCADA System (\$230,000)</u>: A significant amount of work has already been performed to remove the Electric Department control system from the interface with commercial carriers thus making the system significantly more secure. Additionally, the Green Lake power house and many of the system field breakers have only very limited control capability making outages more frequent and longer with extensive personnel overtime. These changes will improve safety and reliability and will bring old systems up to date significantly extending the life of the equipment (which lowers overall costs).
- 7. <u>Capital for Fuel Conversions (\$1.2M)</u>: With the assistance of Siemens Engineering, <u>a</u> number of facilities have been identified for conversion to dual fuel (Electric Interruptible boilers). These projects have a three year return on the invested capital and will subsequently improve revenue for the department and reduce the need for rate increases to all citizens.
- 8. <u>Harbor Meters (\$75,000):</u> The revised electric rates will include an increase to the monthly rate for harbor meters which was reviewed and supported by the Harbor

Commission. This increase will generate annual revenue of approximately \$75,000 per year to support the needed replacement of failed harbor meters (currently approximately 75 meters out of service). These capital funds will be used to "kick start" this program to allow replacement of first 30 meters. Additional funding will be requested as the revenue is generated.

- 9. Jarvis Electric Storage and Shop Building (previously \$1.2M being reduced to \$85,000): Assembly members previously expressed concern at the older approved capital project (over \$1.2M) to add a new warehouse to the Jarvis Street Complex. The approval of this project was suspended by the Electric Department last year and has been revised to adding a number of new replacement cargo containers and an office trailer adjacent to the existing switchgear room.
- <u>Other Items on the list</u> Include existing approved capital projects which are being updated to reflect the balance needed for completion. Some additional new items are included for Safety, automatic start of back-up generators at Blue Lake/Green Lake, and a replacement roof for Green Lake.

Recommendation:

Approve the Electric Department 10 year Capital Plan.

ELECTRIC DEPARTMENT 10 YEAR CAPITAL PLAN

B. Bertacchi - 8/25/2016

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	Rev 2	Required	Desired Status	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	TOTA
63010	Green Lake FERC Compliance: Inspect and Upgrades	141,291	OPEN	105,000	36,291								141,
90562	Green Lake Power Plant Improvements	334,697	OPEN	50,000	50,000	50,000	50,000	50,000	50,000	34,697			334
90594	Blue Lake Third Turbine and Dam Upgrade	2,477,001	OPEN	500,000	560,000	340,000	760,000	250,000	67,001				2,477
90610	Blue Lake FERC License Mitigation	423,734	OPEN	220,000	93,790	109,944							423
90614	Takatz Lake Hydroelectric (open pending Grant Aug FY17)	(0)	OPEN										
90646	Jarvis Street Diesel Capacity Increase	(21,361)	CLOSE	(21,361)									(21
90717	Jarvis Street Improvements	27,781	OPEN	27,781									27
90794	Jarvis Bulk Tank Improvements	0	OPEN										
90804	Blue Lake Powerhouse Conversion	150,000	OPEN									150.000	150
New -	Blue Lake Howell Bunger Valve	0	NEW										
New -	Green Lake Power Plant 35yr Overhaul	4,900,000	NEW		0	4,900,000	0	0					4,900
New -	Green Lake Power Plant pre overhaul inspection	380,000	NEW		380.000								380
New -	Jarvis Fuel System Repairs and Storage Tanks	1,500,000	NEW		200,000	700,000	500,000	100.000					1,500
New -	Blue Lake Auto start Back-up Diesel	70,000	NEW		200,000	70,000	000,000						70
New -	Green Lake Auto start Back-up Diesel	20,000	NEW			10,000	20,000						20
New -	Green Lake Re-roof	225,000	NEW				20,000		225,000				225
	Feeder Improvements	1,600,000	OPEN	200.000	200.000	200,000	200,000	200,000	200,000	200,000	100,000	100,000	1,600
100000000	Island Improvements	225,000	OPEN	25.000	25,000	25,000	25,000	25,000	25,000	200,000	25,000		1.0000000
	SMC Road Upgrades Express Feeder	0	CLOSE	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	225
	Marine Street Substation Voltage Regulator	0	CLOSE										
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	Transmission & 1220 Upgrade	0	OPEN										
	Medevejie Hatchery Transformer Replacement	45,000	OPEN	45,000									45
	Marine Street Substation Replacements	160,000	CLOSE	20,000	20,000	20,000	20,000	20,000	20,000	20,000	10,000	10,000	160
	Jarvis St. Control Building Roof Replacement	0											
New -	Marine St N-1 Design to New HPR North Sub	3,900,000	NEW	1,400,000	1,500,000	0							2,900
New -	69 kV Thimbleberry Trans Line Bypass	3,800,000	NEW		20,000	20,000	60,000	300,000	1,000,000	1,400,000	1,000,000		3,800
80040	Automated Meter Reading	32,085	OPEN	32,085									32
90410	SCADA System Enhancements	230,000	OPEN	110,000	120,000								230
90611	Microwave or Fiber Optic	0	CLOSE										
90628	Demand Side Load Management- (close 6/30/15)	14,437	OPEN	14,437									14
90777	Meter Replacement Upgrading Meters	95,000	OPEN	45,000	50,000			_					95
90791	Dual Fuel Interruptible Power	0	CLOSE										
90719	Jarvis Warehouse Paving	0	CLOSE										
90776	Jarvis Electric Storage & Shop Building	85,000	OPEN	85,000			_						85
New -*	Capital for Fuel Conversions (Interruptibles)	1,200,000	NEW	600,000	600,000								1,200
New -*	Asset Management	12,800	NEW	12,800									12
New -*	Safety - Arc Flash, Training, Equipment and implementation support	50,000	NEW	20,000	10,000	10,000	10,000						50
New -*	Harbor Meters	75,000	NEW	75,000									75
	TOTAL			3,565,742	3,865,081	6,444,944	1,645,000	945,000	1,587,001	1,679,697	1,135,000	285,000	21,152
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Working Capital Growth per year	1,500,000		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Liquidity to Maintain	(1,000,000)									
Emergency Reserve to Maintain	(2,500,000)									
Calculated Avail Cap per year	12,381,204	8,815,4	62 6,450,381	1,505,437	1,360,437	1,915,437	1,828,437	1,648,740	2,013,740	3,228,740

ELECTRIC DEPARTMENT 10 YEAR CAPITAL PLAN B. Bertacchi - 8/25/2016

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| | | VAZ SALAR BUSH | |
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| | | Sector Sector | 20,000 |
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| the standard statement and the statement of | | | | Ş | 12,223.05 | | | Ş | 12,223.05 | | | | |
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| er Replacement Upgrading Meters | 95,000 | | 45,000 | 1.00
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| I Fuel Interruptible Power | 0 | | |
 | 78,979.09

 | | | | 78,979.09
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 | |
| is Warehouse Paving | 0 | | | 1.1
 | 30,899.79

 | | | \$ | 30,899.79
 | | |
 | |
| is Electric Storage & Shop Building | 85,000 | | 85,000 | \$
 | 919,616.05

 | | | |
 | \$ | 834,616.05 | \$
 | - |
| ital for Fuel Conversions (Interruptibles) | 1,200,000 | | 600,000 |
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 | \$ | 600,000.00 | |
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| et Management | 12,800 | and the second se | 12,800 |
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 | \$ | 12,800.00 | |
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| ety - Arc Flash, Training, Equipment and implementation support | 50,000 | NEW | 20,000 |
 |

 | \$ | 20,000.00 | |
 | | |
 | |
| por Meters | 75,000 | NEW | 75,000 | 1
 |

 | \$ | 75,000.00 | |
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| TOTAL | 22,152,464 | | 3,565,742 | \$
 | 1,372,580.80

 | \$: | 2,255,173.23 | \$ | 449 343 47
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Il for Fuel Conversions (Interruptibles)
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/- Arc Flash, Training, Equipment and implementation support
r Meters | Road Upgrades Express Feeder 0 e Street Substation Voltage Regulator 0 Kramer - Cascade Creek Line Riser 0 mission & 1220 Upgrade 0 vejie Hatchery Transformer Replacement 45,000 2 Street Substation Replacements 160,000 2 Street Substation Replacement 0 2 Street Substation Replacements 0 3 Stortor Building Roof Replacement 0 2 Street Substation Replacement 0 3 Stortor Building Roof Replacement 0 2 St Ard Design to New HPR North Sub 3,900,000 Thimbleberry Trans Line Bypass 3,800,000 ated Meter Reading 32,085 A System Enhancements 230,000 wave or Fiber Optic 0 0 dt Side Load Management- (close 6/30/15) 14,437 Replacement Upgrading Meters 95,000 Fuel Interruptible Power 0 Warehouse Paving 0 Electric Storage & Shop Building 85,000 of Fuel Conversions (Interruptibles) 1,200,000 Management 12,800 r- Are Flash, Training, Equipment and implementation support 50,000 | Road Upgrades Express Feeder 0 CLOSE e Street Substation Voltage Regulator 0 CLOSE Kramer - Cascade Creek Line Riser 0 CLOSE mission & 1220 Upgrade 0 CLOSE vejie Hatchery Transformer Replacement 45,000 OPEN Street Substation Replacements 160,000 OPEN Street Substation Replacements 160,000 NEW Thimbleberry Trans Line Bypass 3,800,000 NEW Thimbleberry Trans Line Bypass 3,800,000 NEW A System Enhancements 20,000 OPEN Ad System Enhancements 20,000 OPEN A System Enhancements 20,000 OPEN Maxe or Filer Optic 0 CLOSE New of Side Load Management. (close 6/30/15) 14,437 OPEN Steel Interruptible Power 0 CLOSE Warehouse Paving 0 CLOSE Warehouse Paving 0 CLOSE I for Fuel Conversions (interruptibles) 1,200,000 NEW r. Ac Flash, Training, Equipment and implementation support 50,000 NEW r Acter Flash, Training, Equipment and implementation support 50,000 NEW | Important Important <thimportant< th=""> <thimportant< th=""> <thi< td=""><td>Important Important <thimportant< th=""> <thimportant< th=""> <thi< td=""><td>Instructionality 12000 2000 2000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000000 0000000 000000000 0000000000 000000000000000000000000000000000000</td><td>Induction Important Section I</td><td>Instructionality Description <thdescription< th=""></thdescription<></td><td>Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Name of the second log and log</td><td>Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Inductional Locol <thlocol< th=""> Locol Locol</thlocol<></td><td>Networksite Lood CLOSE CLOSE South yradies Sout</td></thi<></thinduction<></thinduction<></td></thi<></thinduction<></thinduction<></td></thi<></thimportant<></thimportant<></td></thi<></thimportant<></thimportant<> | Important Important <thimportant< th=""> <thimportant< th=""> <thi< td=""><td>Instructionality 12000 2000 2000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000000 0000000 000000000 0000000000 000000000000000000000000000000000000</td><td>Induction Important Section I</td><td>Instructionality Description <thdescription< th=""></thdescription<></td><td>Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Name of the second log and log</td><td>Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Inductional Locol <thlocol< th=""> Locol Locol</thlocol<></td><td>Networksite Lood CLOSE CLOSE South yradies Sout</td></thi<></thinduction<></thinduction<></td></thi<></thinduction<></thinduction<></td></thi<></thimportant<></thimportant<> | Instructionality 12000 2000 2000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000000 0000000 000000000 0000000000 000000000000000000000000000000000000 | Induction Important Section I | Instructionality Description Description <thdescription< th=""></thdescription<> | Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Name of the second log and log</td><td>Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Inductional Locol <thlocol< th=""> Locol Locol</thlocol<></td><td>Networksite Lood CLOSE CLOSE South yradies Sout</td></thi<></thinduction<></thinduction<></td></thi<></thinduction<></thinduction<> | Name of the second log and log | Induction Induction <thinduction< th=""> <thinduction< th=""> <thi< td=""><td>Inductional Locol <thlocol< th=""> Locol Locol</thlocol<></td><td>Networksite Lood CLOSE CLOSE South yradies Sout</td></thi<></thinduction<></thinduction<> | Inductional Locol Locol <thlocol< th=""> Locol Locol</thlocol<> | Networksite Lood CLOSE CLOSE South yradies Sout |

Closed Accts

\$ 449,343.42 \$ 1,805,829.81

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\$ 834,616.05 Jarvis Electric Storage & Shop Building #90776

Closed Projects

\$ 971,213.76 Blue Lake Third Turbine and Dam Upgrade #90594

Balance