

State of Oregon, County of Klamath
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 Linda Smith, County Clerk
 Fee \$ 326⁰⁰ # of Pgs 62

UCC FINANCING STATEMENT

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

A. NAME & PHONE OF CONTACT AT FILER [optional]	
B. SEND ACKNOWLEDGMENT TO: (Name and Address)	
<i>rl</i> LexisNexis Document Solutions 801 Adlai Stevenson Drive Springfield, IL 62703	

'03 APR 30 AM 9:18

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

1. DEBTOR'S EXACT FULL LEGAL NAME - insert only <u>one</u> debtor name (1a or 1b) - do not abbreviate or combine names					
1a. ORGANIZATION'S NAME					
Klamath Falls City School District, Oregon					
OR	1b. INDIVIDUAL'S LAST NAME		FIRST NAME	MIDDLE NAME	SUFFIX
1c. MAILING ADDRESS			CITY	STATE	POSTAL CODE
1336 Avalon			Klamath Falls	OR	97603-4423
1d. <u>SEE INSTRUCTIONS</u>			1e. TYPE OF ORGANIZATION	1f. JURISDICTION OF ORGANIZATION	1g. ORGANIZATIONAL ID #, if any
ADD'L INFO RE ORGANIZATION DEBTOR			GOVAG	OR	☒ NONE
2. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - insert only <u>one</u> debtor name (2a or 2b) - do not abbreviate or combine names					
2a. ORGANIZATION'S NAME					
OR	2b. INDIVIDUAL'S LAST NAME		FIRST NAME	MIDDLE NAME	SUFFIX
2c. MAILING ADDRESS			CITY	STATE	POSTAL CODE
2d. <u>SEE INSTRUCTIONS</u>			2e. TYPE OF ORGANIZATION	2f. JURISDICTION OF ORGANIZATION	2g. ORGANIZATIONAL ID #, if any
ADD'L INFO RE ORGANIZATION DEBTOR					☐ NONE
3. SECURED PARTY'S NAME (or NAME of TOTAL ASSIGNEE of ASSIGNOR S/P) - insert only <u>one</u> secured party name (3a or 3b)					
3a. ORGANIZATION'S NAME					
LaSalle Bank National Association					
OR	3b. INDIVIDUAL'S LAST NAME		FIRST NAME	MIDDLE NAME	SUFFIX
3c. MAILING ADDRESS			CITY	STATE	POSTAL CODE
135 S. LaSalle Street, Suite 545			Chicago	IL	60603
					USA

4. This FINANCING STATEMENT covers the following collateral:

The collateral as described in SCHEDULE A attached hereto and made a part hereof.

This Financing Statement is to be filed in the REAL ESTATE RECORDS. This Financing Statement is a FIXTURE FILING. This Financing Statement covers goods (property) which are or are to become fixtures on the real estate described in SCHEDULE B attached hereto and made a part hereof.

5. ALTERNATIVE DESIGNATION (if applicable):	LESSEE/LESSOR	CONSIGNEE/CONSIGNOR	BAILEE/BAILOR	SELLER/BUYER	AG. LIEN	NON-UCC FILING
6. ☒ This FINANCING STATEMENT is to be filed (for record) (or recorded) in the REAL ESTATE RECORDS. Attach Addendum (if applicable)	7. Check to REQUEST SEARCH REPORT(S) on Debtor(s) (optional)		All Debtors ☐ Debtor 1 ☐ Debtor 2 ☐			
8. OPTIONAL FILER REFERENCE DATA #897						
OR-Klamath County						

FILING OFFICE COPY — UCC FINANCING STATEMENT (FORM UCC1) (REV. 05/22/02)

295-1487-2
 LexisNexis Document Solutions
 801 Adlai Stevenson Drive
 Springfield, IL 62703-4261

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UCC FINANCING STATEMENT ADDENDUM

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

9. NAME OF FIRST DEBTOR (1a or 1b) ON RELATED FINANCING STATEMENT

9a. ORGANIZATION'S NAME Klamath Falls City School District, Oregon		
OR	9b. INDIVIDUAL'S LAST NAME	FIRST NAME MIDDLE NAME, SUFFIX

10. MISCELLANEOUS: OR-Klamath County

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

11. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - insert only one name (11a or 11b) - do not abbreviate or combine names

11a. ORGANIZATION'S NAME				
OR	11b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX
11c. MAILING ADDRESS		CITY	STATE	POSTAL CODE COUNTRY
ADD'L INFO RE ORGANIZATION DEBTOR		11e. TYPE OF ORGANIZATION	11f. JURISDICTION OF ORGANIZATION	11g. ORGANIZATIONAL ID #, if any ☐ NONE

12. ☐ ADDITIONAL SECURED PARTY'S or ☐ ASSIGNOR S/P'S NAME - insert only one name (12a or 12b)

12a. ORGANIZATION'S NAME				
OR	12b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX
12c. MAILING ADDRESS		CITY	STATE	POSTAL CODE COUNTRY

13. This FINANCING STATEMENT covers ☐ timber to be cut or ☐ as-extracted collateral, or is filed as a ☒ fixture filing.

14. Description of real estate:

See SCHEDULE B attached for description of real estate.

16. Additional collateral description:

15. Name and address of a RECORD OWNER of above-described real estate (if Debtor does not have a record interest):

Klamath Falls City School District,
Oregon
1336 Avalon
Klamath Falls, OR 97603-4423

17. Check only if applicable and check only one box.Debtor is a ☐ Trust or ☐ Trustee acting with respect to property held in trust or ☐ Decedent's Estate18. Check only if applicable and check only one box.☐ Debtor is a TRANSMITTING UTILITY☐ Filed in connection with a Manufactured-Home Transaction — effective 30 years☐ Filed in connection with a Public-Finance Transaction — effective 30 years

SCHEDULE A
To
FORM UCC-1 Financing Statement

Klamath Falls City School District, Oregon, as Debtor
LaSalle Bank National Association, as Secured Party

The Equipment is described below:

<u>Quantity</u>	<u>Description</u>
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See Attachment A – Scope of Work for equipment description and locations attached hereto and made a part hereof.

Together with all of the accessories, attachments and appurtenances appertaining or attached to any of said Equipment, whether now owned or hereafter acquired, and all substitutions, accessions, features, renewals, cables, parts fittings, and replacements of, and additional special features, model changes and improvements to any and all of said Equipment together with all rents, proceeds, issues, income, profits and avails pertaining thereto or derived therefrom*.

Equipment Location:

See Attachment A – Scope of Work for equipment description and locations attached hereto and made a part hereof.

Vendor:

Control Contractors, Inc.
5000 SE 25th Avenue
Portland, OR 97202

*The inclusion of proceeds of the collateral herein does not constitute Secured Party's authorization that Debtor may sell the collateral.

Sale or Closure Planned	Year Built	School
No	1928	Joseph Conger Elementary School 1700 California Klamath Falls, OR 97601
No	1928	Fairview Elementary School 1017 Donald Street Klamath Falls, OR 97601
No	1909	Mills Elementary School 520 East Main Street Klamath Falls, OR 97601
No	1923	Pelican Elementary School 501 McLean Street Klamath Falls, OR 97601
No	1911	Riverside Elementary School 707 Cypress Street Klamath Falls, OR 97601
No	1923	Roosevelt Elementary School 1125 Eldorado Avenue Klamath Falls, OR 97601
No	1961	Ponderosa Junior High School 2554 Main Street Klamath Falls, OR 97601
No	1961	Mazama High School 3009 Summers Lane Klamath Falls, OR 97603
No	1959	District Office 1336 Avalon Klamath Falls, OR 97603

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Facility Improvement Agreement

Attachment A – Scope of Work

**CONTROL
CONTRACTORS**

This proposal includes the following Facility Improvement Measures:

CCI will supply all labor and material to retrofit the lighting in each School listed as recommended in the Nexant, Inc. energy audit report date November 8, 2001. All lamps and ballasts will be retrofitted per the report with all old material being disposed of per environmental regulations. As discussed, the Gymnasium lights will not be retrofitted as part of this agreement. Schools lighting being retrofitted as follows:

- Mazama High School
- Ponderosa Middle School
- Pelican Elementary
- Riverside Elementary
- Roosevelt Elementary
- Fairview Elementary
- Conger Elementary
- Mills Elementary
- District Office (O'Neill)

CCI will supply all labor and material to retrofit the DDC control systems in each School listed as recommended in the Nexant Inc. energy audit report dated November 8, 2001. The controls will be retrofitted to include all the DDC points described in the report. The system will be intranet based and will require the School District to provide Ethernet LAN drops at the appropriate location in each School listed below. All fan systems and mechanical equipment will be scheduled per the report or operated in a manner consistent with industry standards or occupancy comfort. In addition, a total of 7 Variable Frequency Drives will be included to control the geothermal pumps and the cooling tower fans at Ponderosa Middle School and Mazama High School. Schools HVAC controls being upgraded as follows:

- Mazama High School
- Ponderosa Middle School
- Riverside Elementary
- Roosevelt Elementary
- Fairview Elementary
- Mills Elementary
- District Office (O'Neill)

This proposal does not include the following:

- Any work that is not specifically identified above.
- Repair work.
- Any asbestos abatement.
- Any mechanical work.
- Gym Lighting upgrades as specified in the Nexant Inc. reports, as referenced above.

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**Control Contractors, Inc.
Facility Improvement Agreement
Attachment A
Support Services**

**CONTROL
CONTRACTORS**

GENERAL CONDITIONS

1. This agreement applies only to equipment installed prior to effective date of this agreement and as described in this agreement. Normal working hours (8 a.m. to 4 p.m.; Monday through Friday, excluding holidays) will apply to all services, unless otherwise stated, including major repairs performed under this agreement.
2. This agreement assumes the systems covered to be in maintainable condition. If repairs are found necessary upon initial inspection or initial seasonal start-up, repair charges will be submitted for approval. Should these restoration charges be declined, those non maintainable items will be eliminated from the program and the agreement price adjusted accordingly.
3. It is agreed that the customer shall provide reasonable means of access to all devices which are to be maintained. Normal operation such as starting, stopping and resetting of the listed equipment is not included in this program. However, Control Contractors, Inc. shall be permitted to start and stop all primary equipment incidental to the operation of the mechanical system.
4. If the system is modified, changed or altered, or if any equipment is added, or if the system is removed within the premises or to other premises, Control Contractors, Inc., at its sole option, reserves the right to terminate or re-negotiate this agreement based on the condition of the system after the changes have been made.
5. It is agreed that the contract price shall be adjusted yearly; such adjustment shall be consistent with current labor and material costs. This agreement may be terminated after its initial term on the anniversary of its effective date by either party by giving written notice a minimum of 30 days prior to the anniversary date.
6. Control Contractors, Inc. shall not, under any circumstances, be liable for injury to persons or damage to property unless such injury or damage is caused by a negligent act of omission or commission by Control Contractors, Inc. agents, employees or subcontractors.
7. Control Contractors, Inc. and Customer assume the non-occurrence of the following contingencies which, without limitation, might render performance by Control Contractors, Inc. impractical: strikes, fires, war, late or non-delivery by suppliers of Control Contractors, Inc., and all other contingencies beyond the reasonable control of Control Contractors, Inc. Under no circumstances shall Control Contractors, Inc. be liable for any special or consequential damages whether based upon lost goodwill, lost resale profits, work stoppage, impairment of other goods or otherwise and whether arising out of breach of warranty, breach of contract, negligence or otherwise, except only in the case of personal injury where applicable law requires such liability. But in no event shall Control Contractors, Inc.'s liability exceed the purchase price paid under this contract.
8. The Customer shall pay Control Contractors, Inc., in addition to the contract price, the amount of all present and future taxes or any other government charge now or hereafter imposed by existent or future laws with respect to the transfer, use, ownership, or possession of equipment to which this agreement relates, exclusive of ordinary personal property taxes assessed against Control Contractors, Inc.
9. It is agreed that the customer shall assume responsibility and pay extra for all service and material required due to electrical power failure, low voltage, burned out main or branch fuses, low water pressure, corrosion or lightning strikes.
10. The customer is responsible for the addition of any items of equipment or performance of any safety test or corrections in design as recommended or required by insurance companies, government, state, municipalities or other authorities.
11. The customer is responsible for the indoor air quality of their facility.
12. In the event Control Contractors, Inc. is required to make any repairs and/or replacement and/or emergency calls occasioned by improper operation or misuse of equipment covered by this agreement or any cause beyond Control Contractors, Inc.'s control, the customer shall reimburse Control Contractors, Inc. for expenses incurred in making repairs and/or replacements and/or emergency calls in accordance with the established rate for performing such service such as calls for thermostat setting, air balancing or equipment resetting.
13. If equipment becomes non-repairable due to unavailability of replacement parts, Control Contractors, Inc., at its option, may remove the equipment from the contract and will not be required to maintain or service such equipment as a part of this agreement. However, Control Contractors, Inc. will assist the owner in replacing the equipment at prevailing service rates.
14. The customer is responsible for the replacement or repair of non moving parts of the heating, cooling and ventilating systems, such as duct work, boiler shell and tubes, boiler refractory and complementary equipment, for example but not limited to: cabinets, fixtures, boxes, water supply lines, drain lines, steam lines, plumbing, oil storage tanks, oil and/or gas lines, domestic water lines, refrigerant piping, pneumatic tubing, converter shell and tubes, heating or cooling coils and electrical wiring.
15. Control Contractors, Inc. reserves the right to discontinue this maintenance service agreement at any time, without notice, unless all payments under this contract shall have been made as agreed.

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**Control Contractors, Inc.
Facility Improvement Agreement
Attachment A
Support Services**

**CONTROL
CONTRACTORS****System Application Support**

Control Contractors Inc agrees to provide recommendations to the Customer regarding modifications to the existing system applications for added energy savings, more efficient operation, and further enhanced information and facility management capabilities.

Database Maintenance

Annually, as a minimum, Control Contractors Inc will review all application software databases and verify that such databases are maintained in accordance with published recommended operating procedures. A complete backup of the most recently verified databases will be maintained, on file by CCI, for emergency backup through telephone modem link up or on site visit. The customer will provide 24-hour phone line access to the network of digital control systems for diagnostic, support of maintenance staff personnel, and monitoring purposes. Emergency service and phone modem support will be provided.

Migration Hardware and Software Pricing Preference

In the event that the Customer desires to purchase new User Interfaces, LAN Interface Devices, and/or Area Controllers while this agreement is active, the Customer is guaranteed that they will receive a preferential discount on said equipment offered through standard CCI pricing schedules.

Chiller Preventive Maintenance

CCI will provide a seasonal preventive maintenance service check to the Chillers at Mazama and Ponderosa Schools to increase comfort and reliability, improved energy efficiency, and aid in lengthening system useful life span.

Temperature Control Preventive Maintenance

CCI will provide a seasonal temperature control preventive maintenance check to the sites listed to provide increased comfort, improved energy efficiency, and aid in lengthening system useful life span.

Automation System Routine Maintenance

CCI will provide preventive maintenance and oversite services to ensure that the DDC controls and control routines installed during the attached retrofit remain as intended to capture all available energy savings.

Reduced labor rates

CCI will provide reduced labor rates for all work done outside the scope of this agreement (per published rates).

Emergency Service

CCI will provide emergency service 24 hours a day at preferred customer rates.

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Facility Improvement Agreement

Attachment B-Support Services

**CONTROL
CONTRACTORS**

Services to be provided at the following locations: Mazama High School, Ponderosa Middle School, Administration Office (O'Neill), Mills Elementary, Roosevelt Elementary, Fairview Elementary, and Riverside Elementary.

Control Contractors, Inc. agrees to provide the support services described in the attached schedules in accordance with the following terms and conditions:

Terms and Payment

This Service Agreement shall begin on the 1st day of September, 2003 and shall continue for an initial term of three years and from year to year thereafter until terminated.

After the initial term, this Support Service Agreement will remain in effect and either party may terminate this Agreement upon thirty days written notice prior to the anniversary date of the Agreement. The contract price shall be subject to adjustment yearly to recognize any changes in costs. Notice of proposed adjustment to the annual price will be provided at least sixty days prior to Agreement renewal date.

Control Contractors, Inc. agrees to furnish the services as described in this Agreement for the total sum of Fifteen Thousand Seven Hundred Fifty Seven dollars (\$15,757.00) per year.

Invoices will be issued monthly/quarterly/annually (circle one): Payment will be made within 30 days of invoice date.

This proposal, including the attached pages, special conditions, and attachments constitutes the entire agreement and shall become a valid contract after Customer acceptance and credit approval by Control Contractors, Inc.. This Agreement supersedes all prior presentations and agreements not incorporated herein. This proposal is valid through: 03/30/03

Customer: Klamath Falls City Schools

Control Contractors, Inc.

By: Paul D Peterson

By: _____

Print Name: Paul D Peterson

Print Name: _____

Title: Business Manager

Title: _____

Date: 2/19/03

Date: _____

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Height	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Mazama High School Monday-Friday 7:30am-11:00pm, September - June; 277V lighting							
	Stage 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 30fc	12 ft	148W	20	458	3.0	1,354 kWh
	Sound room 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 45-80fc	8 ft	148W	4	458	0.6	271 kWh
	Band office/pract. rm 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 45-80fc	multiple	148W	3	3,111	0.4	1,381 kWh
	Band room 2 lamp U-shaped T12 4' w/ 1 EEMB, 2x2, Trof 40 W	20 ft	88W	2	3,111	0.2	535 kWh
	Instrument closet 60W incandescent socket	8 ft	60W	1	120	0.1	7 kWh
	Band/Choir 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	16 ft	148W	54	3,111	8.0	24,863 kWh
	Choir closets 100W incandescent, screw socket	10 ft	100W	2	10	0.2	2 kWh
	Arts closet 80W incandescent, 1x1 recessed	8 ft	80W	1	80	0.1	5 kWh
	Classes/offices/ 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	10 ft	118W	312	3,111	36.8	114,535 kWh
	Cafeteria 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	10 ft	118W	96	1,281	11.3	14,511 kWh
	Cafeteria 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	10 ft	118W	32	854	3.8	3,226 kWh
	Faculty lunch room 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 55fc	16 ft	148W	8	3,111	1.2	3,683 kWh
	Kitchen/snack shop 75W reflective flood	8 ft	75W	8	915	0.6	549 kWh
	Kitchen mop room 200W incandescent, screw socket	8 ft	200W	1	366	0.2	73 kWh
	Boiler room 300W incandescent, hood	12 ft	300W	12	3,111	3.6	11,200 kWh
	Work bench, boiler rm 2 lamp T12 8' w/ 1 EEMB, 1x8, Strip hood, 60 W, 65fc	8 ft	128W	1	3,111	0.1	398 kWh
	Custodial office 300W incandescent, hood	8 ft	300W	2	3,111	0.6	1,887 kWh
	Custodial office 2 lamp T12 4' w/ 1 EEMB, 1x8 F40, Strip	8 ft	74W	1	3,111	0.1	230 kWh
	Classrooms/boiler room/ 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 32-88fc	multiple	148W	381	3,111	56.4	175,423 kWh
	Wood shop addition 2 lamp T12 4' w/ 1 EEMB, 1x4, Strip 40 W, 55fc	13 ft	86W	28	3,111	2.4	7,491 kWh
	Wood storage 75W incandescent, 1x1 recessed	10 ft	75W	3	3,111	0.2	700 kWh
	Wood storage 18 W CFL	10 ft	11W	2	8,760	0.0	193 kWh
	Paint room 75W incandescent, vapor/expl	8 ft	75W	1	183	0.1	14 kWh
	Restroom, wood shop 75W incandescent	8 ft	75W	1	549	0.1	41 kWh
	Storage, home ec. 25W incandescent, screw socket	8 ft	25W	2	366	0.1	18 kWh
	Eled. Supply 100W incandescent, screw socket	8 ft	100W	1	8,760	0.1	875 kWh
	Auto shop class 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 40 W, 55fc	8 ft	86W	18	3,111	1.4	4,281 kWh
	Auto shop work 2 lamp T12 8' w/ 1 EEMB, 1x8, Strip, HO, 95W, 88fc	12 ft	206W	25	3,111	5.2	18,022 kWh
	Computer storage 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 25fc	8 ft	74W	5	549	0.4	203 kWh
	Home Ec. 60W incandescent, recessed, 8fc	8 ft	60W	1	3,111	0.1	187 kWh
	Display case #4 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 40 W	8 ft	86W	1	3,111	0.1	288 kWh
	Janitor's closet 60W incandescent, socket	7 ft	60W	1	1,098	0.1	86 kWh
	Library/5/7/9/11/science 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 40 W, 35-85fc	8 ft	172W	275	3,111	47.3	147,150 kWh
	Hallways/shops/restroom 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	multiple	74W	328	3,111	24.3	75,510 kWh
	Main Gym 175W metal halide	35 ft	175W	36	600	6.3	3,780 kWh
	Old Gym 175W metal halide	25 ft	175W	9	800	1.6	945 kWh
	Upper Gym 175W metal halide	25 ft	175W	12	600	2.1	1,260 kWh
	Gym/Mezz stairs 2 lamp T12 8' w/ 1 EEMB, 1x8, EC Strip	10 ft	128W	2	3,111	0.3	796 kWh
	Mezz Gym Storage 75W incandescent, screw socket	8 ft	75W	2	3,111	0.2	467 kWh
	Mezz Gym Storage 90W incandescent, screw socket	8 ft	90W	3	3,111	0.3	840 kWh
	New Gym Areas T-8 fixtures	na	175W	0	-	-	0 kWh
	Kitchen/Weight room 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	8 ft	74W	50	915	3.7	3,386 kWh
	Kitchen hoods 90W incandescent, JJ	7 ft	90W	6	366	0.5	198 kWh
	Pantry/dry storage 2 lamp T12 4' w/ 1 EEMB, 1x4, Tr coil mnt, 40 W	8 ft	86W	2	915	0.2	157 kWh
	Locker/restroom 2 lamp, 75W incandescent, globe, 16fc	8 ft	150W	2	549	0.3	165 kWh
	Girl's showers 2 lamp T12 4' w/ 1 EEMB, 1x4, Vapor Wrap, 34 W	11 ft	74W	31	3,111	2.3	7,137 kWh
	Faculty restrooms 75W refl flood, rec. cannister	8 ft	75W	2	732	0.2	110 kWh
	Storage 2 lamp T12 4' w/ 1 EEMB, 1x4, Trof, cell mnt, 34 W	8 ft	74W	6	275	0.4	122 kWh
	Storage areas 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W	multiple	74W	14	549	1.0	589 kWh
	Janitor closets 75W incandescent	8 ft	75W	2	366	0.2	55 kWh
	Janitor closets 90W incandescent, screw socket	8 ft	90W	3	366	0.3	99 kWh
	Janitor closets 100W incandescent, recessed	8 ft	100W	3	366	0.3	110 kWh
	Fan room 300W incandescent, screw socket	8 ft	300W	1	40	0.3	12 kWh
	Restrooms 2 lamp, 60 W incandescent, wall mount	7 ft	120W	2	549	0.2	132 kWh
	Exterior, rec area (courty: 75W reflective flood	na	75W	13	4,015	1.0	3,915 kWh
	Exterior 75W flood	na	75W	18	4,015	1.4	5,420 kWh
	Exterior 70W hps, estimate wall mount fixtures	na	70W	10	4,015	0.7	2,811 kWh
	Exterior 175W hps, estimate wall mount fixtures	na	175W	2	4,015	0.4	1,405 kWh
	Exterior metal halide, 250W	na	250W	11	4,015	2.8	11,041 kWh
	Exterior, parking lot 300W mercury vapor (6-11:30), on photo/off timer	na	300W	16	4,745	4.8	22,776 kWh
	Crawl space 100W incandescent, estimate 100 (60-150W)	100W	55	20	5.5	110 kWh	
Total Installed Capacity:		246 kW	Annual Electricity Use:		674,949 kWh		

Lighting Inventory

Zone	Description	Flt Ht	Flt Watts	Flt Qty	Hours of Op *	Installed kW	Annual Energy Use
Ponderosa Junior High School		Monday-Friday 7:30am-9:00pm, September - June				-	-
	21 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 43fc	8 ft	148W	8	3,111	1.2	3,683 kWh
	Classes 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 40-90fc	11 ft	74W	372	3,111	27.5	85,840 kWh
	Restrooms, G&B 300W incandescent, 1x1, 20-70fc	10 ft	300W	6	3,111	1.8	5,600 kWh
	Coat room 300W incandescent, 1x1	10 ft	300W	1	183	0.3	55 kWh
	Home Ed/ Room 23 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 48fc	10 ft	74W	6	3,111	0.4	1,381 kWh
	Storage, main office 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 35fc	8 ft	74W	2	549	0.1	81 kWh
	Entrance 300W incandescent, 1x1, downlight	11 ft	300W	2	-	0.6	0 kWh
	Restrooms, teachers 2 lamp, 75 W incandescent, wall mount	7 ft	150W	2	915	0.3	275 kWh
	SRG room 100-W incandescent, wall mount	7 ft	100W	2	2,196	0.2	439 kWh
	Storage RR, maint 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 15-20fc	8 ft	148W	5	915	0.9	813 kWh
	Janitor closet 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W		118W	1	2,196	0.1	259 kWh
	Classrooms, old wing 2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pand, 60 W, 5C	9 ft	128W	67	3,111	8.6	26,680 kWh
	Hall, old wing 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	10 ft	74W	31	3,111	2.3	7,137 kWh
	Display case 40W incandescent		40W	8	1,830	0.3	586 kWh
	Boiler room 300W incandescent, hood	10 ft	300W	4	2,562	1.2	3,074 kWh
	Elevator 2 lamp T12 2' w/ 1 EEMB, 1x2, Wrap, 30 W	7 ft	65W	1	3,111	0.1	265 kWh
	Biology storage 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	10 ft	148W	2	3,111	0.3	921 kWh
	Library storage 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 15-20fc	10 ft	148W	3	3,111	0.4	1,381 kWh
	Recycle room 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 15-20fc	8 ft	148W	1	3,111	0.1	480 kWh
	Entrance/Stairs 300W incandescent, 1x1, downlight	11 ft	300W	10	3,111	3.0	9,333 kWh
	Entrance/Stairs 75W incandescent, wall mount	10 ft	75W	2	3,111	0.2	467 kWh
	Custodial room 300W incandescent, wall mount		300W	2	3,111	0.6	1,867 kWh
	Chiller room 300W incandescent, hood, 10-20 fc		300W	6	3,111	1.8	5,600 kWh
	Halls 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof 34 W, 15-70fc	11 ft	148W	15	3,111	2.2	6,906 kWh
	Halls 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof 34 W, 30-65fc	8 ft	148W	19	3,111	2.8	8,748 kWh
	Halls/Maint. hall 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 35fc	8 ft	74W	31	3,111	2.3	7,137 kWh
	Student store 2 lamp, 75 W incandescent, 1x2, wall mount	7 ft	150W	2	732	0.3	220 kWh
	Gym 175 W metal halide	25 ft	175W	36	1,739	6.3	10,953 kWh
	Gym 300W incandescent, high bay	25 ft	300W	5	1,739	1.5	2,608 kWh
	Locker rooms, G&B 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 30fc	20 ft	74W	65	3,111	4.8	14,964 kWh
	Phys Ed. Storage 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 30fc	15 ft	74W	20	1,739	1.5	2,573 kWh
	Coaches offices 3 lamp T12 4' w/ 2 EEMB, 2x4, EC, 34 W	15 ft	118W	7	1,739	0.8	1,436 kWh
	Showers, B&G 2 lamp T12 4' w/ 1 EEMB, 1x4, Vapor Wrap, 34 W	10 ft	74W	10	3,111	0.7	2,202 kWh
	Janitor closet 300W incandescent, 1x1, wall mount		300W	1	2,196	0.3	659 kWh
	Wrestling room 2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pand, 60 W, 50-60fc		128W	32	540	4.1	2,212 kWh
	Weight room 2 lamp T12 8' w/ 1 EEMB, 1x8, Strip, HO, 70fc	8 ft	237W	5	1,464	1.2	1,735 kWh
	Choir & band rooms 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 55-60fc	20 ft	118W	46	3,111	5.4	16,887 kWh
	Restrooms 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 75fc	8 ft	118W	6	3,111	0.7	2,203 kWh
	Music Room/Instr. stor 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 35fc	20 ft	74W	3	3,111	0.2	691 kWh
	Instr. stor 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W		118W	1	366	0.1	43 kWh
	Cafeteria 3 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	10 ft	118W	54	915	6.4	5,830 kWh
	Chair storage 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 25 fc	8 ft	74W	4	40	0.3	12 kWh

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
O'Neill Administration Offices					Mon-Fri 7-4pm year round		
Offices/Conf./Secretary	2 lamp T12 4' w/ 1 EEMB, 1x4, Tr/Wr, 34 W, 48-75fc	8 ft	74W	10	2,340	0.7	1,732 kWh
Offices	2 lamp T12 8' w/ 1 EEMB, 5x8, H shape, HO, 110 W, 70-	8 ft	237W	53	2,340	12.6	29,393 kWh
Offices	2 lamp T12 6' w/ 1 EEMB, 3x6, H shape, HO, 85 W	8 ft	186W	8	2,340	1.5	3,482 kWh
Office C/Toy storage	2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 62fc	10 ft	74W	5	2,340	0.4	866 kWh
Toy Storage	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 90fc	8 ft	148W	2	2,340	0.3	693 kWh
RR near Conf. Room B	2 lamp 60W incandescent, globe	8 ft	120W	1	78	0.1	9 kWh
Classrooms	2 lamp T12 8' w/ 1 EEMB, 5x8, H shape, HO, 110 W, 50-	10 ft	237W	55	2,340	13.0	30,502 kWh
Office, Deputy Suprint	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 40 W, 140	8 ft	172W	4	2,340	0.7	1,610 kWh
Restrooms	4 lamp T12 4' w/ 2 EEMB, 2x4, Tr/Wr, 34 W	10 ft	148W	14	600	2.1	1,243 kWh
Kitchen storage	2 lamp T12 4' w/ 1 EEMB, 1x4, Str, 34 W, 48-75fc	8 ft	74W	21	520	1.6	808 kWh
Kitchen hall/restroom	60W incandescent, globe	8 ft	60W	3	50	0.2	9 kWh
Kitchen hood	2 lamp T12 4' w/ 1 EEMB, 1x4, Str, 34 W, 48-75fc	7 ft	74W	2	60	0.1	9 kWh
Pantry	100 W incandescent	11 ft	100W	1	104	0.1	10 kWh
Boardroom	4 lamp T8 4' w/ 1 EI Ballast, 2x4, Trof	20 ft	116W	44	260	5.1	1,327 kWh
Gym	400 W metal halide	20 ft	400W	12	720	4.8	3,456 kWh
Storage rooms	2 lamp T12 4' w/ 1 EEMB, 1x4, Str, 34 W, 48-75fc	12 ft	74W	18	100	1.3	133 kWh
Mech. Room	300W incandescent, hood	10 ft	300W	6	480	1.8	864 kWh
Mail room	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 34 W, 30fc	12 ft	148W	3	2,340	0.4	1,039 kWh
Hallways	3 lamp T8 4' w/ 1 EI Ballast, 2x4, Trof	9 ft	87W	44	3,120	3.8	11,943 kWh
Fan room	2 lamp T12 4' w/ 1 EEMB, 1x4, Str, 34 W	9 ft	74W	1	100	0.1	7 kWh
Fan room	40W incandescent, socket	8 ft	40W	1	100	0.0	4 kWh
Exterior pole	175W mercury vapor (6-11:30), on photo/off timer	na	175W	3	4,015	0.5	2,108 kWh
Exterior	100W HPS	na	100W	3	4,015	0.3	1,205 kWh
Exterior	11 W CFL	8 ft	11W	4	4,015	0.0	177 kWh
Total Installed Capacity:			52 kW	Annual Electricity Use:		92,628 kWh	

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Roosevelt Elementary School							
Monday-Friday 7am-4pm, september - july							
Class 4-5, Sp Ed, Art, F2	lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 50-7	11 ft	128W	15	2,030	1.9	3,898 kWh
Classes 1-3, 4-8	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 40 W, 85fc	8 ft	172W	56	2,030	9.6	19,553 kWh
Class 1	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 40 W	8 ft	172W	2	2,030	0.3	698 kWh
Class 5	150W incandescent, globe	10 ft	150W	1	2,030	0.2	305 kWh
Cafeteria, Kitchen	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 40 W	12 ft	86W	22	1,117	1.9	2,112 kWh
Classes 8-14/Library	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 50-7	10 ft	128W	74	2,030	9.5	19,228 kWh
Music/Princ/Admin/nur	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 50-7	10 ft	128W	18	2,030	2.3	4,677 kWh
Cafeteria	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 50-7	12 ft	128W	1	1,117	0.1	143 kWh
Special Ed.	2 lamp T12 4' w/ 1 EEMB, 1x4, Tr ceil mnt, 40 W	8 ft	86W	1	1,117	0.1	96 kWh
Teach Restroom	75 W incandescent, décor	9 ft	75W	1	508	0.1	38 kWh
Furnace Room	2 lamp T12 8' w/ 1 EEMB, 1x8, EC chain, 60 W	10 ft	128W	2	2,030	0.3	520 kWh
Furnace Room	2 lamp T12 4' w/ 1 EEMB, 1x4, Str chain 34 W	10 ft	74W	1	2,030	0.1	150 kWh
Furnace Room	4 lamp T12 4' w/ 2 EEMB, 2x4, Wr chain, 34 W	9 ft	148W	6	2,030	0.9	1,803 kWh
Furnace Room stairs	150W incandescent	10 ft	150W	1	2,030	0.2	305 kWh
Furnace & Fan Room	75W incandescent, socket/table lamp/pendant	multi	75W	3	2,030	0.2	457 kWh
Fan Room	100W incandescent, socket	multi	100W	1	1,015	0.1	102 kWh
Fan Room	60W incandescent, socket	multi	60W	2	1,015	0.1	122 kWh
LockersRestroom, Girls	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 50-7	10 ft	128W	6	2,030	0.8	1,559 kWh
LockersRestroom, Girls	100W incandescent, JJ	11 ft	100W	1	50	0.1	5 kWh
Dressing Rm Strg, Girls	100W incandescent, JJ	11 ft	100W	1	-	0.1	0 kWh
Hub Room	300W incandescent, hood	10 ft	300W	1	1,440	0.3	432 kWh
LockersRestroom, Boy	4 lamp T12 4' w/ 2 EEMB, 2x4, Vap-Tr, 40 W, clear	11 ft	172W	10	2,030	1.7	3,492 kWh
LockersRestroom, Boy	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 40 W	11 ft	172W	6	2,030	1.0	2,095 kWh
Computer room	300W mercury vapor (6-11:30), on photo/off timer	20 ft	300W	12	609	3.6	2,194 kWh
Gym	400 W metal halide	25 ft	400W	8	1,440	3.2	4,608 kWh
Gym	300W incandescent, hood	20 ft	300W	4	1,440	1.2	1,728 kWh
Auditorium	175 W metal halide	25 ft	175W	9	1,440	1.6	2,268 kWh
Auditorium hall/closets	60W incandescent	9 ft	60W	4	50	0.2	12 kWh
Janitor closet	60W incandescent, globe	9 ft	60W	2	609	0.1	73 kWh
Janitor closet	100W incandescent, JJ	9 ft	100W	1	1,015	0.1	102 kWh
Janitor closet	75 W incandescent	9 ft	75W	1	2,030	0.1	152 kWh
Storage closet	150W incandescent, globe	10 ft	150W	1	75	0.2	11 kWh
Stage	100W incandescent, JJ	16 ft	100W	2	50	0.2	10 kWh
Hallway, upper	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 20fc	12 ft	74W	32	2,436	2.4	5,768 kWh
Hallway, lower	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	9 ft	74W	18	2,436	1.3	3,245 kWh
Stairs	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 20fc	15 ft	74W	6	2,436	0.4	1,082 kWh
Stairs	2 lamp T12 2' w/ 1 EEMB, 1x2, Wrap, 20 W	15 ft	46W	1	2,436	0.0	112 kWh
Stairs	75 W incandescent, glass drum	10 ft	75W	2	2,030	0.2	305 kWh
Exit sign, gym	dual 15W incandescent Exit Sign		30W	1	8,760	0.0	263 kWh
Exterior pole	175W mercury vapor (6-11:30), on photo/off timer	na	175W	2	4,015	0.4	1,405 kWh
Exterior	11 W CFL	8 ft	11W	5	8,760	0.1	482 kWh
Total Installed Capacity:			47 kW	Annual Electricity Use:		85,607 kWh	

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Fairview Elementary School		Monday-Friday 7am-4pm, september - july					-
Halls & Stairs	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 25 fc	9 ft	74W	28	1,641	2.1	3,399 kWh
Halls & Stairs	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 30 fc	9 ft	148W	31	1,641	4.6	7,527 kWh
Class 14,15/Teachrs rm	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 70 fc w/s	8 ft	148W	45	1,641	6.7	10,926 kWh
Teacher's work room	4 lamp T12 4' w/ 2 EEMB, 2x4, Wr, 34 W, 70 fc w/sl	11 ft	148W	5	1,641	0.7	1,214 kWh
Classes upstairs + hub	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 40 W, 70-82 fc	9 ft	172W	123	1,641	21.2	34,706 kWh
Classes up & downstairs	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W, 38f	8 ft	128W	34	1,641	4.4	7,139 kWh
Kitchen/Cafeteria/Anne	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W	8 ft	128W	23	1,015	2.9	2,988 kWh
Music Room	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W	13 ft	128W	34	1,641	4.4	7,139 kWh
Library	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W, 50 fc	12 ft	74W	13	1,641	1.0	1,578 kWh
Office	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 40 W, 55 fc w/s	9 ft	172W	8	1,641	1.4	2,257 kWh
Restrooms/speech/lang	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	9 ft	74W	28	1,641	2.1	3,399 kWh
Restrooms, boys	60W incandescent		60W	2	609	0.1	73 kWh
Restrooms, boys	25W incandescent		25W	1	609	0.0	15 kWh
Stage	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	17 ft	148W	8	1,641	1.2	1,942 kWh
Gym	175 W metal halide	25 ft	175W	8	800	1.4	1,120 kWh
Gym	500W incandescent, hood	23 ft	500W	4	800	2.0	1,600 kWh
Stage/storage	200W incandescent, screw socket		200W	3	609	0.6	365 kWh
Stage/Kitchen hall	40W incandescent, rec opaque	9 ft	40W	3	1,015	0.1	122 kWh
Storage areas	200W incandescent, globe/socket		200W	3	812	0.6	487 kWh
Storage areas	150W incandescent, globe/socket		150W	5	609	0.8	457 kWh
Janitor closet	150 W incandescent, socket	10 ft	150W	1	609	0.2	91 kWh
Rm 15/Dressing rm, gir	100W incandescent, globe		100W	13	915	1.3	1,190 kWh
Showers	100W incandescent, JJ		100W	5	915	0.5	458 kWh
Gym & janitor closets	100W incandescent, 1x1 rec. glass		100W	5	1,930	0.5	965 kWh
Storage, locker room	1 lamp T12 8' w/ 1 EEMB, 1x8, Strip, 60 W	10 ft	72W	34	50	2.4	122 kWh
Storage, gym	50W incandescent, 1x1 rec. glass		50W	5	579	0.3	145 kWh
Closet under stairs	100W incandescent, 1x1 rec. glass + socket		100W	2	50	0.2	10 kWh
Closets	75W incandescent, globe/rec, 1x1 opaque		75W	3	366	0.2	82 kWh
Boiler room	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 60 W	10 ft	128W	34	200	4.4	870 kWh
Exterior pole	175W mercury vapor (6-11:30), on photo/off timer	na	175W	5	4,015	0.9	3,513 kWh
Exterior	100W incandescent, screw socket		100W	2	4,015	0.2	803 kWh
Exterior	75W reflective flood		75W	1	4,015	0.1	301 kWh
Exterior	25W incandescent, 1x1, 1 lamp, recessed	9 ft	25W	6	4,015	0.2	602 kWh
Exterior	200W incandescent, hood		200W	1	8,760	0.2	1,752 kWh
Total Installed Capacity:		69 kW		Annual Electricity Use:		99,360 kWh	

Lighting Inventory

Zone	Description	Plant Mt	Plant Watts	Plant Qty	Hours of Op	Installed kW	Annual Energy Use
Mills Elementary School		Mon-Fri 7am-7pm	September through July				
Restrooms	75 W incandescent, Globe	8 R	75W	2	2,233	0.2	335 kWh
Ceiling	100W incandescent	8 R	100W	1	2,233	0.1	223 kWh
Main Rm	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	16 R	74W	12	2,233	0.9	1,983 kWh
Stairs (music)	75 W incandescent, Globe	12 R	75W	1	2,233	0.1	187 kWh
Stage	500W incandescent	18 R	500W	6	147	3.0	441 kWh
Stage	300W incandescent	18 R	300W	4	147	1.2	176 kWh
Stage, left	75 W incandescent, 1x1 rec. glass	8 R	75W	2	147	0.2	22 kWh
Stage, stairs	52 W incandescent, screw socket	8 R	52W	1	147	0.1	8 kWh
Auditorium	300W incandescent, 1x1 rec. glass	30 R	300W	12	210	3.6	756 kWh
Auditorium	300W incandescent, 1x1 rec. glass	30 R	300W	11	210	3.5	1,155 kWh
Aud. Entry	60W incandescent, rec. canister & globe	8 R	60W	6	210	0.4	76 kWh
Aud. Lobby	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	8 R	74W	4	210	0.3	62 kWh
Restrooms	75 W incandescent, Globe	8 R	75W	3	210	0.2	47 kWh
Storage	75 W incandescent, Globe	8 R	75W	3	10	0.2	2 kWh
Hall	150W incandescent, rec. glass	10 R	150W	7	2,233	1.1	2,345 kWh
Hall	2 lamp, 150W incandescent, rec	10 R	300W	1	8,760	0.3	2,628 kWh
Class, speech/ling	2 lamp T12 4' w/ 1 EEMB, 1x4 Egg Cr/Pend 34W	10 R	74W	2	2,376	0.1	352 kWh
Class Rm 3-4	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 52-75 k	12 R	148W	42	2,376	6.2	14,788 kWh
Book Closet	300W incandescent, screw socket	12 R	300W	1	198	0.3	86 kWh
Art Supply	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	12 R	148W	3	2,233	0.4	891 kWh
Restrooms	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 40 lc	12 R	148W	4	2,233	0.8	1,322 kWh
Room 8	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, special	12 R	212W	9	2,233	1.9	4,281 kWh
Room 7, 10-20	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 50-65 k	12 R	148W	156	2,233	23.1	51,596 kWh
Conf. Room	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	12 R	148W	2	792	0.3	234 kWh
Main Office	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 360 80 l	12 R	148W	8	2,233	1.2	2,644 kWh
Asst. Principal	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 90 lc	12 R	148W	4	2,233	0.8	1,322 kWh
Teach. Room	4 lamp T12 4' w/ 2 EEMB, 1x2, Wrap, 20 W	8 R	46W	9	465	0.4	205 kWh
Health Rm	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	12 R	148W	3	2,233	0.4	891 kWh
Speech	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	10 R	74W	2	2,233	0.1	336 kWh
Gym (new gym)	metal halide (150-250W)	na	175W	0	-	-	0 kWh
Gym Hall	T-8 fixtures	na	175W	0	-	-	0 kWh
Gym Restroom	T-8 fixtures	na	175W	0	-	-	0 kWh
Gym Storage	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Strip	10 R	128W	2	198	0.3	81 kWh
Room 1	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 100 lc	8 R	148W	6	792	0.9	702 kWh
Room 1	2 lamp T12 8' w/ 1 EEMB, 1x8, Egg Cr, 80 W, 83 lc	8 R	128W	5	2,233	0.6	1,429 kWh
Room 2, 1A	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 50-65 l	8 R	74W	43	2,233	3.2	7,105 kWh
Speech	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	8 R	74W	2	2,233	0.1	336 kWh
Custodial Rm	2 lamp T12 8' w/ 1 EEMB, 1x8, Strip, HO	8 R	237W	4	2,233	0.9	2,117 kWh
Cust. Apt.	estimated 60W incandescent	8 R	60W	15	548	0.9	463 kWh
Paper Storage	2 lamp T12 4' w/ 1 EEMB, 1x8 F40, Strip	8 R	74W	1	198	0.1	15 kWh
Restroom boys	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 37 lc	8 R	148W	3	2,233	0.4	891 kWh
Storage	80W incandescent socket	8 R	80W	1	198	0.1	12 kWh
Class Rm 21-24	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 70 lc w/	10 R	148W	14	2,233	2.1	4,627 kWh
Library	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 70 lc w/	10 R	148W	24	2,233	3.8	7,932 kWh
Hd Rm	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Strip, 64 lc	8 R	128W	1	2,233	0.1	288 kWh
Cop Rm	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	12 R	74W	2	2,233	0.1	330 kWh
Boiler Rm	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	10 R	74W	3	3,600	0.2	788 kWh
Boiler Rm	2 lamp T12 4' w/ 1 EEMB, 1x8 F40, Strip	10 R	74W	4	3,600	0.3	1,066 kWh
Boiler Rm	200W incandescent, screw socket	10 R	200W	1	3,600	0.2	720 kWh
Boiler Rm	100W incandescent, screw socket	10 R	100W	1	3,600	0.1	360 kWh
Rm 28 Billing/SMART	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	10 R	74W	4	2,233	0.3	661 kWh
Cafeteria	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	8 R	148W	13	990	1.9	1,903 kWh
Kitchen	2 lamp T12 4' w/ 1 EEMB, 1x4, Trof 34 W, 35-45 lc	10 R	74W	14	990	1.0	1,026 kWh
Kitchen Storage1	75 W incandescent, socket	10 R	75W	1	594	0.1	45 kWh
Kitchen Storage2	150 W incandescent, socket	10 R	150W	1	396	0.2	59 kWh
Restroom Girls	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 37 lc	10 R	148W	3	2,233	0.4	891 kWh
ESL	2 lamp T12 4' w/ 1 EEMB, 1x4, Trof 34 W, 50 lc	10 R	74W	12	2,233	0.9	1,983 kWh
ESL Storage	100 W incandescent, JJ	8 R	100W	3	50	0.3	15 kWh
Scout Storage	90 W incandescent, socket	7 R	90W	1	50	0.1	5 kWh
Reading Recovery	2 lamp T12 4' w/ 1 EEMB, 1x4, Trof 34 W, 56 lc	10 R	74W	2	2,233	0.1	330 kWh
Reading Rec. stp	4 lamp T12 4' w/ 2 EEMB, 2x4, Wr, 34 W, 80 lc	10 R	148W	3	396	0.4	176 kWh
Reading Rec. offc	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Strip, 50 lc	10 R	128W	2	2,233	0.3	572 kWh
Reading Rec. RR	90 W incandescent, JJ	7 R	90W	1	396	0.1	36 kWh
Halfways	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	12 R	74W	52	3,366	3.8	12,932 kWh
Halfways-Emergnc	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap, 34 W	12 R	74W	8	8,760	0.6	1,186 kWh
Halfways	2 lamp T12 4' w/ 1 EEMB, 1x8 F40, Wrap	12 R	74W	30	3,366	2.2	7,473 kWh
Halfways	2 lamp T12 8' w/ 1 EEMB, 1x8, EC Strip	12 R	128W	9	3,366	1.2	3,878 kWh
Halfways	4 lamp T12 4' w/ 2 EEMB, 2x4, Wr, 34 W	12 R	148W	13	3,366	1.9	6,476 kWh
Halfways	100W incandescent, recessed	8 R	100W	2	2,673	0.2	535 kWh
Exterior	175W mercury vapor (6-11:30), on photo/off timer	na	175W	3	4,015	0.5	2,108 kWh
Exterior	300W mercury vapor (6-11:30), on photo/off timer	na	300W	1	4,745	0.3	1,424 kWh
Exterior	150W incandescent, 1 lamp	na	150W	4	8,760	0.6	5,256 kWh
Exterior	150W incandescent, 2 lamp	na	300W	2	8,760	0.6	5,256 kWh
Exterior	100W incandescent, 1 lamp recessed?	9 R	100W	2	8,760	0.2	1,752 kWh
Total Installed Capacity:		86 kW		Annual Electricity Use:		176,927 kWh	

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Conger Elementary School		Monday-Friday 7am-4:30pm, september - june					-
Front Hall Classrooms/	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 47fc avg	10 ft	148W	57	1,830	8.4	15,438 kWh
Classrooms, upstairs n	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 63fc avg	10 ft	148W	70	1,830	10.4	18,959 kWh
New Devel. Area	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 65fc	10 ft	148W	2	1,830	0.3	542 kWh
New Devel. Area RR/Ut	2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W	0 ft	74W	4	366	0.3	108 kWh
New Devel. Area Halls	2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W	0 ft	74W	3	1,830	0.2	406 kWh
Front Hall, upstairs	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 30fc	10 ft	148W	35	1,830	5.2	9,479 kWh
Front Hall Restroom	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 47fc avg	10 ft	148W	1	1,830	0.1	271 kWh
Front Hall Restroom	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 31fc	10 ft	74W	1	1,830	0.1	135 kWh
Classrooms, south hall	2 lamp T12 8' w/ 1 EEMB, 1x8, Egg Cr, 60 W, 40-80	9 ft	128W	34	1,830	4.4	7,964 kWh
Classrooms	100W incandescent, globe	10 ft	100W	2	1,830	0.2	366 kWh
Hallway, north	2 lamp T12 4' w/ 1 EEMB, 1x8 F40, Wrap, 17-48fc	10 ft	74W	34	1,830	2.5	4,604 kWh
Library	4 lamp T12 4' w/ 2 EEMB, 2x4, EC Pend, 34 W, 26ft	8 ft	148W	24	1,830	3.6	6,500 kWh
Stage	500W incandescent	18 ft	500W	3	147	1.5	221 kWh
Stage	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	20 ft	74W	2	1,830	0.1	271 kWh
Stage/misc classroom	150W incandescent, socket	16 ft	150W	3	1,600	0.5	720 kWh
Gym	500W incandescent, hood pendant	20 ft	500W	4	1,647	2.0	3,294 kWh
Gym	175 W metal halide	25 ft	175W	12	600	2.1	1,260 kWh
Gym	18 W CFL	25 ft	11W	5	8,760	0.1	482 kWh
Music room/Restrooms	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 34 W, 45fc av	11 ft	148W	17	1,830	2.5	4,604 kWh
Stairs	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 34 W, 30fc av	10 ft	148W	3	1,830	0.4	813 kWh
Stairs	2 lamp T12 4' w/ 1 EEMB, 1x4, Trof 34 W	8 ft	74W	2	1,830	0.1	271 kWh
Storage	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 34 W	12 ft	148W	3	366	0.4	163 kWh
Downstairs playrooms/l	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 21-55fc	12 ft	148W	34	1,830	5.0	9,209 kWh
Cafeteria	4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 45	11 ft	148W	17	915	2.5	2,302 kWh
Kitchen	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	11 ft	74W	6	915	0.4	406 kWh
Boiler room	4 lamp T12 4' w/ 2 EEMB, 2x4, Wrap, 34 W	12 ft	148W	2	1,830	0.3	542 kWh
Boiler room	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W	12 ft	74W	1	1,830	0.1	135 kWh
Custodial closet	4 lamp T12 4' w/ 2 EEMB, 2x4, 34 W	12 ft	148W	2	1,098	0.3	325 kWh
Custodial closet	2 lamp T12 4' w/ 1 EEMB, 1x4, 34 W	12 ft	74W	1	1,098	0.1	81 kWh
Restroom, boys	2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 40 W	11 ft	86W	1		0.1	157 kWh
Dressing rooms/locker	2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 22fc	11 ft	74W	22	80	1.6	130 kWh
Halls	2 lamp T12 4' w/ 1 EEMB, 2x4, EC Pend, 34 W	8 ft	74W	2	1,830	0.1	271 kWh
Mens room, north hall	2 lamp T12 4' w/ 1 EEMB, 2x4, Wrap, 34 W, 20fc	12 ft	74W	4	549	0.3	163 kWh
Ladies room, north hall	2 lamp T12 4' w/ 1 EEMB, 2x4, EC Pend, 34 W, 25 f	10 ft	74W	2	549	0.1	81 kWh
Elevator	2 lamp T12 4' w/ 1 EEMB, 2x4, EC Pend, 34 W	8 ft	74W	2	1,830	0.1	271 kWh
New devel. Area	2 lamp T12 4' w/ 1 EEMB, 2x4, EC Pend, 34 W, 55fc	7 ft	74W	36	1,830	2.7	4,875 kWh
Closets	100W incandescent, screw socket		100W	6	458	0.6	275 kWh
Janitor Closets	60W incandescent, screw socket		60W	3	275	0.2	49 kWh
Stairs, landing	60 W incandescent, globe	9 ft	60W	1	1,830	0.1	110 kWh
Table lamp, classroom	40W incandescent		40W	1	1,221	0.0	51 kWh
Exit sign, green dual	25W incandescent Exit Sign		50W	1	8,760	0.1	438 kWh
Exterior	175W mercury vapor (6-11:30), on photo/off timer	na	175W	5	4,015	0.9	3,513 kWh
Exterior	100W incandescent, decorative downlight wall mnt	9 ft	100W	3	3,650	0.3	1,095 kWh
Exterior	40W incandescent, 1x1, 1 lamp recessed	9 ft	40W	16	4,015	0.6	2,570 kWh

Total Installed Capacity:

62 kW

Annual Electricity Use:

103,920 kWh

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Pelican Elementary School		Monday-Friday 7am-4:30pm, september - june					-
	Classrooms 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 58fc avg	12 ft	148W	131	1,830	19.4	35,480 kWh
	Room 1/Stage hall 200W incandescent, hood, 30fc	10 ft	200W	2	1,830	0.4	732 kWh
	Room 2A 60W incandescent, drum	12 ft	60W	2	1,830	0.1	220 kWh
	Partitioned class 4 lamp T12 4' w/ 2 EEMB, 2x4, EC, 34 W, 30fc avg	12 ft	148W	14	1,830	2.1	3,792 kWh
	Mezzanine office 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 68fc avg	8 ft	148W	1	1,830	0.1	271 kWh
	Mezzanine office, RR 40W incandescent, décor	8 ft	40W	1	92	0.0	4 kWh
	Cafeteria 4 lamp T12 4' w/ 2 EEMB, 2x4, EC, 34 W, 30fc avg	12 ft	148W	12	915	1.8	1,625 kWh
	Kitchen 2 lamp T12 8' w/ 1 EEMB, 1x8, Strip hood, 60 W, 65f	12 ft	128W	8	1,373	1.0	1,405 kWh
	Kitchen RR/Girl's locker 300W incandescent, globe/expl proof	10 ft	300W	3	80	0.9	72 kWh
	Music Office 300W incandescent, globe/expl proof	10 ft	300W	1	1,600	0.3	480 kWh
	Kitchen storage/RR/sup 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 35fc	9 ft	74W	8	458	0.6	271 kWh
	Food storage 2 lamp T12 2' w/ 1 EEMB, 1x2, Wrap, 20 W	15 ft	46W	1	60	0.0	3 kWh
	Stage 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	16 ft	148W	12	1,830	1.8	3,250 kWh
	Gym 175 W metal halide	25 ft	175W	15	1,200	2.6	3,150 kWh
	Office/Library/RR 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W, 68fc avg	12 ft	148W	26	1,830	3.8	7,042 kWh
	Restroom, girls/music r 150W incandescent, globe	11 ft	150W	12	1,830	1.8	3,294 kWh
	Storage areas 150W incandescent, decor/expl.	12 ft	150W	4	549	0.6	329 kWh
	Janitor closets/Restroom 100W incandescent, recessed	12 ft	100W	5	1,600	0.5	800 kWh
	Storage/Restrooms 75 W incandescent, socket/globe	12 ft	75W	4	200	0.3	60 kWh
	Storage closets 90 W incandescent, screw socket, 8fc	12 ft	90W	3	100	0.3	27 kWh
	Storage 60W incandescent, recessed/socket	12 ft	60W	7	80	0.4	34 kWh
	Teacher's lounge 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W	12 ft	74W	4	1,830	0.3	542 kWh
	Janitor's Res. Storage/ 2 lamp 60W incandescent, drum	12 ft	120W	1	100	0.1	12 kWh
	Halls 2 lamp T12 4' w/ 1 EEMB, 1x4, Wrap 34 W, 35fc	20 ft	74W	7	1,830	0.5	948 kWh
	Halls 2 lamp T12 4' w/ 1 EEMB, 1x4, EC Pend, 34 W, 30fc	10 ft	74W	24	1,830	1.8	3,250 kWh
	Halls 2 lamp T12 8' w/ 1 EEMB, 1x8, Egg Cr, 60 W, 30fc	9 ft	128W	8	1,830	1.0	1,874 kWh
	Halls 2 lamp T12 4' w/ 1 EEMB, 2x4, Trof 34 W, 55fc	10 ft	74W	15	1,830	1.1	2,031 kWh
	Halls/Entry 4 lamp T12 4' w/ 2 EEMB, 2x4, Trof, 34 W	20 ft	148W	3	1,830	0.4	813 kWh
	Halls 75 W incandescent, screw socket, 8fc	12 ft	75W	3	1,830	0.2	412 kWh
	Boiler room 300W incandescent, hood	11 ft	300W	4	2,745	1.2	3,294 kWh
	Exterior 150W incandescent, 1 lamp, décor downlight	9 ft	150W	5	4,015	0.8	3,011 kWh
	Exterior 175W mercury vapor (6-11:30), on photo/off timer	na	175W	5	4,015	0.9	3,513 kWh
Total Installed Capacity:			47 kW	Annual Electricity Use:		82,039 kWh	

Klamath Falls City Schools

Lighting Inventory

Zone	Description	Fixt Ht	Fixt Watts	Fixt Qty	Hours of Op	Installed kW	Annual Energy Use
Riverside Elementary School		Monday-Friday 7am-4pm, september - june					-
	Classrooms 2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 50-70fc	10 ft	128W	94	1,830	12.0	22,019 kWh
	Class Storage Closets 300W incandescent, globe/hood/socket	18 ft	300W	32	1,098	9.6	10,541 kWh
	Main Office/Halls/Kitchen 2 lamp T12 4' w/ 1 EEMB, 1x4, Wr Pend, 34 W, 35 fc	9 ft	74W	37	1,830	2.7	5,011 kWh
	2 lamp T12 4' w/ 1 EEMB, 1x4, Wr Pend, 34 W	9 ft	74W	5	108	0.4	40 kWh
	Nurse 4 lamp T12 4' w/ 2 EEMB, 2x4, T/W, 34 W	9 ft	148W	6	792	0.9	703 kWh
	Kitchen/Cafeteria 2 lamp T12 8' w/ 1 EEMB, 1x8, EC Pend, 40fc	10 ft	128W	11	1,098	1.4	1,546 kWh
	Restroom, Girls 200W incandescent, hood, 30fc	10 ft	200W	2	1,830	0.4	732 kWh
	Storage/Closet 150W incandescent, socket/globe	10 ft	150W	4	549	0.6	329 kWh
	Closet 100W incandescent, screw socket	10 ft	100W	1	275	0.1	27 kWh
	Janitor Closets 90W incandescent, screw socket	10 ft	90W	3	1,464	0.3	395 kWh
	Closets 75W incandescent, screw socket	10 ft	75W	2	30	0.2	5 kWh
	Gym 400 W metal halide	25 ft	400W	12	720	4.8	3,456 kWh
	Gym/Stage 500W incandescent	18 ft	500W	4	720	2.0	1,440 kWh
	Stage 500W incandescent, hood	18 ft	500W	1	50	0.5	25 kWh
	Exterior pole 175W mercury vapor (6-11:30), on photo/off timer	na	175W	2	4,015	0.4	1,405 kWh
Total Installed Capacity:			36 kW	Annual Electricity Use:		47,674 kWh	

***8.1.2 Combined District-Wide Existing Lighting and Proposed Lighting
Retrofits***

District Wide Existing Lighting and Proposed Lighting Retrofits

[illegible]

District Wide Existing Lighting and Proposed Lighting Retrofits

[illegible]

District Wide Existing Lighting and Proposed Lighting Retrofits

[illegible]

District Wide Existing Lighting and Proposed Lighting Retrofits

[illegible]

Klamath Falls City Schools

District Wide Existing Lighting and Proposed Lighting Retrofits

[illegible]

District Wide Existing Lighting and Proposed Lighting Retrofits

Zone	Existing Fixture Description										Proposed Fixture Description										Total Hours of Installation	Annual Energy Use	Total Hours	Annual Energy Use				
	Watts	Volts	Amperes	Feet	Qty	Feet	Qty	Feet	Qty	Feet	Watts	Volts	Amperes	Feet	Qty	Feet	Qty	Feet	Qty									
700sq ft	Open 175W metal halide	175W	12	12	12	12	12	12	12	800	21	1,200 kWh	Open 175W metal halide	175W	12	12	12	12	12	800	21	1,200 kWh	21	1,200 kWh				
	Open 175W metal halide	175W	15	15	15	15	15	15	15	1,200	2.6	3,160 kWh	Open 175W metal halide	175W	16	16	15	15	15	1,300	2.8	3,160 kWh	2.8	3,160 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
	Open 400W metal halide	400W	6	6	6	6	6	6	6	1,440	3.2	4,000 kWh	Open 400W metal halide	400W	6	6	6	6	6	1,440	3.2	4,000 kWh	3.2	4,000 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	600	4.8	3,450 kWh	Open 400W metal halide	400W	1	0	12	12	0	600	2.1	2,450 kWh	2.1	2,450 kWh				
500sq ft	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
300sq ft	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
200sq ft	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
100sq ft	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
	Open 400W metal halide	400W	12	12	12	12	12	12	12	720	4.8	3,450 kWh	Open 400W metal halide	400W	12	12	12	12	12	720	4.8	3,450 kWh	4.8	3,450 kWh				
Total Installed Capacity																						BRIST NW	NW	NW	NW	Annual Etc.		\$4,714 kWh

8.1.3 Energy Savings and Project Cost Summary for Linear Fluorescent Retrofit

Savings and cost summaries and calculations have been summarized here on a district-wide and a school-by-school basis. Calculations for individual schools used the appropriate utility rates described in Section 2.2 for each school. Calculations that describe a summary of all schools used a weighted average utility rate, determined using the annual energy use, peak demand and energy and demand charges at each of the schools.

Replace All T-12 Lamps and Magnetic Ballasts with T-8 Lamps and Electronic Ballasts for Entire School District

Assumptions			
	Weighted Avg. Demand Cost (D\$):		\$4.33 /kW-mo
	Weighted Avg. Energy Cost (E\$):		\$0.03597 /kWh
	Heating hours/year:		4,000 hr/yr
	Heating efficiency		100%
	Heating cost:		\$0.000 /therm
	Cooling hours/year:		2,200 hr/yr
	Months cooling during peak demand:		4
	Cooling efficiency		3.8 COP
	Percent fixtures in conditioned space		100%
	Labor time to replace lamp:		0.0 minutes
	Labor time to replace ballast:		61.1 minutes
	Labor Cost (\$/H):		\$32.00 /hour
	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	4,794	4,794	
Operating Hours:	2,346	2,346	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.53	1.00	
Lamps/Fixture:	2.93	2.76	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	40	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	14,055	13,226	
Replacement Fraction:	12%	12%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	7,322	4,794	
Replacement Fraction:	4%	4%	
POWER AND ENERGY			
Lighting Power	627.68	384.26	243.43 kW
Lighting Energy	1,472,410	901,380	571,030 kWh
Heat displaced	22,946.7	14,047.5	(8,899.2) therms
Peak cooling load increase	165.18	101.12	64.06 kW
Cooling load increase	97,311	59,572	37,739 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$35,473	\$21,716	\$13,757
Electric Energy Cost:	\$56,466	\$34,567	\$21,899
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$14,632</u>	<u>\$13,067</u>	<u>\$1,565</u>
Total Operating Cost:	\$106,571	\$69,350	\$37,221
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$112,275
Labor:			\$156,220
Overhead and Profit (15% on material, 38% on labor)			\$75,955
Total Cost:			
			\$344,450 = \$72 /fixt.
			= \$72 /bal.
SIMPLE PAYBACK			
			9.3 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Mazama H.S.

Assumptions	Demand Cost (D\$):	\$4.68 /kW-mo
	Energy Cost (E\$):	\$0.03240 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	1,697	1,697	
Operating Hours:	2,821	2,821	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.70	1.00	
Lamps/Fixture:	3.14	2.76	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	40	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	5,324	4,689	
Replacement Fraction:	14%	14%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	2,882	1,697	
Replacement Fraction:	5%	5%	
POWER AND ENERGY			
Lighting Power	233.77	135.98	97.79 kW
Lighting Energy	659,568	383,656	275,912 kWh
Heat displaced	10,279.0	5,979.1	(4,300.0) therms
Peak cooling load increase	61.52	35.78	25.74 kW
Cooling load increase	43,591	25,356	18,235 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$14,280	\$8,307	\$5,974
Electric Energy Cost:	\$22,782	\$13,252	\$9,530
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$6,881</u>	<u>\$5,566</u>	<u>\$1,315</u>
Total Operating Cost:	\$43,944	\$27,124	\$16,819
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$39,761
Labor:			\$55,300
Overhead and Profit (15% on material, 38% on labor)			\$26,890
Total Cost:			\$121,950
SIMPLE PAYBACK			= \$72 /fixt.
			= \$72 /bal.
			7.3 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Ponderosa J.H.S.

Assumptions	Demand Cost (D\$):	\$4.68 /kW-mo
	Energy Cost (E\$):	\$0.03240 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	902	902	
Operating Hours:	2,732	2,732	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.26	1.00	
Lamps/Fixture:	2.40	2.55	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	40	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	2,165	2,298	
Replacement Fraction:	14%	14%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	1,140	902	
Replacement Fraction:	5%	5%	
POWER AND ENERGY			
Lighting Power	94.74	66.63	28.11 kW
Lighting Energy	258,879	182,068	76,812 kWh
Heat displaced	4,034.5	2,837.4	(1,197.1) therms
Peak cooling load increase	24.93	17.53	7.40 kW
Cooling load increase	17,109	12,033	5,076 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$5,788	\$4,070	\$1,717
Electric Energy Cost:	\$8,942	\$6,289	\$2,653
Heating Energy Cost:	\$0	\$0	\$0
Lamp & Ballast O&M Cost:	\$2,649	\$2,799	(\$150)
Total Operating Cost:	\$17,378	\$13,158	\$4,220
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$20,651
Labor:			\$29,393
Overhead and Profit (15% on material, 38% on labor)			\$14,220
Total Cost:			\$64,265 = \$71 /fixt. = \$71 /bal.
SIMPLE PAYBACK			15.2 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Mills Elementary

Assumptions	Demand Cost (D\$):	\$5.23 /kW-mo
	Energy Cost (E\$):	\$0.03430 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	539	539	
Operating Hours:	2,429	2,429	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.58	1.00	
Lamps/Fixture:	3.15	2.66	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	38	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	1,698	1,434	
Replacement Fraction:	12%	12%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	849	539	
Replacement Fraction:	4%	4%	
POWER AND ENERGY			
Lighting Power	71.62	41.36	30.26 kW
Lighting Energy	173,942	100,453	73,489 kWh
Heat displaced	2,710.8	1,565.5	(1,145.3) therms
Peak cooling load increase	18.85	10.88	7.96 kW
Cooling load increase	11,496	6,639	4,857 kWh

ANNUAL OPERATING COST

Total Power Cost:	\$4,889	\$2,824	\$2,066
Electric Energy Cost:	\$6,361	\$3,673	\$2,687
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$1,770</u>	<u>\$1,505</u>	<u>\$265</u>
Total Operating Cost:	\$13,019	\$8,002	\$5,018

IMPLEMENTATION COST

Materials (lamps and ballasts):	\$12,492
Labor:	\$17,564
Overhead and Profit (15% on material, 38% on labor)	\$8,520

Total Cost:	\$38,576	=\$72 /fixt.
		=\$72 /bal.
SIMPLE PAYBACK		7.7 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

**Replace Remaining T12 Lamps and Magnetic Ballasts with T8 Lamps and
Electronic Ballasts at O'Neill (District Administrative Offices)**

Assumptions	Demand Cost (D\$):	\$5.23 /kW-mo
	Energy Cost (E\$):	\$0.03430 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	80	80	
Operating Hours:	969	969	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.29	1.00	
Lamps/Fixture:	2.58	2.29	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	37	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	206	183	
Replacement Fraction:	5%	5%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	103	80	
Replacement Fraction:	2%	2%	
POWER AND ENERGY			
Lighting Power	8.54	5.31	3.24 kW
Lighting Energy	8,275	5,141	3,134 kWh
Heat displaced	129.0	80.1	(48.8) therms
Peak cooling load increase	2.25	1.40	0.85 kW
Cooling load increase	547	340	207 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$583	\$362	\$221
Electric Energy Cost:	\$303	\$188	\$115
Heating Energy Cost:	\$0	\$0	\$0
Lamp & Ballast O&M Cost:	\$86	\$86	\$0
Total Operating Cost:	\$971	\$636	\$336
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$1,780
Labor:			\$2,607
Overhead and Profit (15% on material, 38% on labor)			\$1,253
Total Cost:			\$5,640
			= \$71 /fixt.
			= \$71 /bal.
SIMPLE PAYBACK			16.8 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Roosevelt Elem.

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	277	277	
Operating Hours:	2,034	2,034	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.29	1.00	
Lamps/Fixture:	2.58	3.12	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	49	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	714	864	
Replacement Fraction:	10%	10%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	357	277	
Replacement Fraction:	3%	3%	
POWER AND ENERGY			
Lighting Power	37.56	25.03	12.53 kW
Lighting Energy	76,416	50,923	25,493 kWh
Heat displaced	1,190.9	793.6	(397.3) therms
Peak cooling load increase	9.88	6.59	3.30 kW
Cooling load increase	5,050	3,365	1,685 kWh

ANNUAL OPERATING COST			
Total Power Cost:	\$1,486	\$990	\$496
Electric Energy Cost:	\$4,163	\$2,774	\$1,389
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$623</u>	<u>\$680</u>	<u>(\$57)</u>
Total Operating Cost:	\$6,272	\$4,444	\$1,828
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$6,735
Labor:			\$9,027
Overhead and Profit (15% on material, 38% on labor)			\$4,426
Total Cost:			\$20,188 = \$73 /fixt. = \$73 /bal.
SIMPLE PAYBACK			11.0 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Fairview Elem.

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	448	448	
Operating Hours:	1,378	1,378	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.49	1.00	
Lamps/Fixture:	2.91	2.99	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	46	30	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	1,302	1,340	
Replacement Fraction:	7%	7%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	668	448	
Replacement Fraction:	2%	2%	
POWER AND ENERGY			
Lighting Power	64.60	39.85	24.76 kW
Lighting Energy	89,045	54,922	34,123 kWh
Heat displaced	1,387.7	855.9	(531.8) therms
Peak cooling load increase	17.00	10.49	6.51 kW
Cooling load increase	5,885	3,630	2,255 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$2,555	\$1,576	\$979
Electric Energy Cost:	\$4,851	\$2,992	\$1,859
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$787</u>	<u>\$735</u>	<u>\$51</u>
Total Operating Cost:	\$8,192	\$5,303	\$2,889
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$10,751
Labor:			\$14,599
Overhead and Profit (15% on material, 38% on labor)			\$7,137
Total Cost:			\$32,486 = \$73 /fixt. = \$73 /bal.
SIMPLE PAYBACK			11.2 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Conger Elem.

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	424	424	
Operating Hours:	1,638	1,638	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.63	1.00	
Lamps/Fixture:	3.26	2.85	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	38	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	1,382	1,207	
Replacement Fraction:	8%	8%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	691	424	
Replacement Fraction:	3%	3%	
POWER AND ENERGY			
Lighting Power	58.51	35.00	23.51 kW
Lighting Energy	95,826	57,327	38,499 kWh
Heat displaced	1,493.4	893.4	(600.0) therms
Peak cooling load increase	15.40	9.21	6.19 kW
Cooling load increase	6,333	3,789	2,544 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$2,314	\$1,384	\$930
Electric Energy Cost:	\$5,220	\$3,123	\$2,097
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$971</u>	<u>\$814</u>	<u>\$157</u>
Total Operating Cost:	\$8,506	\$5,322	\$3,184
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$10,023
Labor:			\$13,817
Overhead and Profit (15% on material, 38% on labor)			\$6,732
Total Cost:			\$30,571 = \$72 /fixt. = \$72 /bal.
SIMPLE PAYBACK			9.6 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Pelican Elem.

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	274	274	
Operating Hours:	1,730	1,730	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.73	1.00	
Lamps/Fixture:	3.45	2.90	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	38	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	946	794	
Replacement Fraction:	9%	9%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	473	274	
Replacement Fraction:	3%	3%	
POWER AND ENERGY			
Lighting Power	39.62	23.00	16.62 kW
Lighting Energy	68,548	39,793	28,755 kWh
Heat displaced	1,068.3	620.1	(448.1) therms
Peak cooling load increase	10.43	6.05	4.37 kW
Cooling load increase	4,530	2,630	1,900 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$1,567	\$910	\$657
Electric Energy Cost:	\$3,734	\$2,168	\$1,566
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$702</u>	<u>\$559</u>	<u>\$143</u>
Total Operating Cost:	\$6,004	\$3,636	\$2,367
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$6,512
Labor:			\$8,929
Overhead and Profit (15% on material, 38% on labor)			\$4,355
Total Cost:			\$19,796 = \$72 /fixt. = \$72 /bal.
SIMPLE PAYBACK			8.4 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

Replace All T12 Lamps and Magnetic Ballasts with T8 Lamps and Electronic Ballasts at Riverside Elem.

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace ballast:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	153	153	
Operating Hours:	1,680	1,680	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.04	1.00	
Lamps/Fixture:	2.08	2.73	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	55	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	318	417	
Replacement Fraction:	8%	8%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	159	153	
Replacement Fraction:	3%	3%	
POWER AND ENERGY			
Lighting Power	18.71	12.09	6.62 kW
Lighting Energy	31,437	20,321	11,116 kWh
Heat displaced	489.9	316.7	(173.2) therms
Peak cooling load increase	4.92	3.18	1.74 kW
Cooling load increase	2,078	1,343	735 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$740	\$478	\$262
Electric Energy Cost:	\$1,713	\$1,107	\$606
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$229</u>	<u>\$298</u>	<u>(\$68)</u>
Total Operating Cost:	\$2,682	\$1,883	\$799
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$3,571
Labor:			\$4,986
Overhead and Profit (15% on material, 38% on labor)			\$2,422
Total Cost:			\$10,978 = \$72 /fixt. = \$72 /bal.
SIMPLE PAYBACK			13.7 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

8.1.4 Energy Savings and Project Cost Summary for CFL/Circline Retrofit

**Install Fixed Wattage Compact Fluorescent Lamps
In Standard Incandescent Fixtures for School District**

Assumptions	Weighted Avg. Demand Cost (D\$):	\$4.33	/kW-mo
	Weighted Avg. Energy Cost (E\$):	\$0.03597	/kWh
	Heating hours/year:	4,000	hr/yr
	Heating efficiency (geothermal):	100.0	
	Heating cost (electric):	\$0.00	/kWh
	Cooling hours/year:	2,200	hr/yr
	Months cooling during peak demand:	10.4	
	Cooling efficiency	3.8	COP
	Percent fixtures in conditioned space	100%	
	Labor time to replace lamp:	9.3	minutes
	Labor time to replace ballast:	9.3	minutes
	Labor Cost (\$/H):	\$32.00	/hour
FIXTURES			
	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
Quantity:	375	375	
Operating Hours:	1,487	1,487	hr/yr
Use Factor:	100%	100%	
Percent on During Peak:	33%	33%	
Ballasts/Fixture:	-	-	
Lamps/Fixture:	1	1	
New Fixture Cost (less ballast cost and rebate)		\$34.68	
Number of New Fixtures		150	
LAMPS			
Watts/Lamp:	83.8	19.7	
Life:	1,000	15,000	hrs
Cost each:	\$1.00	\$9.50	
Quantity:	388	388	
Replacement Fraction:	149%	10%	
BALLASTS			
Watts/ballast	0	0	
Life:	60,000	60,000	hrs
Cost each:	\$0.00	\$0.00	
Quantity:	0	0	
Replacement Fraction:	2%	2%	
POWER AND ENERGY			
Nameplate Power (FYI only):	32.5	7.7	24.8 kW
Lighting Power	10.7	2.5	8.2 kW
Lighting Energy	48,324	11,386	36,938 kWh
Heat displaced	753	177	(575.7) therms
Peak cooling load increase	2.8	0.7	2.2 kW
Cooling load increase	3,194	752	2,441 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$684	\$161	\$523
Electric Energy Cost:	\$1,853	\$437	\$1,417
Heating Energy Cost:	\$0	\$0	\$0
Lamp & Ballast O&M Cost:	\$3,438	\$556	\$2,882
Total Operating Cost:	\$5,975	\$1,154	\$4,821
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$8,888
Labor:			\$1,924
Overhead and Profit (15% on material, 38% on labor)			\$2,061
Total Cost:			
			\$12,874 = \$34 /fixt.
SIMPLE PAYBACK			
			2.7 years

Material costs are based on Grainger Catalog No. 389 and include sales tax and shipping, except that standard material cost was adjusted to match quote from WEST-LITE Supply Co., provided by client. Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

***8.1.5 Energy Savings and Project Cost Summary for Large Incandescent to
Linear Fluorescent Retrofit***

Replace High Wattage Incandescents with T-8 Lamps and Electronic Ballasts for Entire School District

Assumptions	Weighed Avg. Demand Cost (D\$):	\$4.33	/kW-mo
	Weighed Avg. Energy Cost (E\$):	\$0.03597	/kWh
	Heating hours/year:	4,000	hr/yr
	Heating efficiency	100%	
	Heating cost:	\$0.000	/therm
	Cooling hours/year:	2,200	hr/yr
	Months cooling during peak demand:	4	
	Cooling efficiency	3.8	COP
	Percent fixtures in conditioned space	100%	
	Labor time to replace lamp:	0.0	minutes
	Labor time to replace ballast:	61.1	minutes
	Labor Cost (\$/H):	\$32.00	/hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	144	144	
Operating Hours:	1,622	1,622	
Use Factor:	100%	100%	
Ballasts/Fixture:	-	1.00	
Lamps/Fixture:	1.00	1.91	
New Fixture Cost (less ballast cost)		\$61.50	
Number of New Fixtures		144	
LAMPS			
Avg. Watts/Lamp:	281	29	
Life:	1,000	20,000	
Cost each:	\$4.04	\$2.48	
Quantity:	144	275	
Replacement Fraction:	162%	8%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	0	144	
Replacement Fraction:	3%	3%	
POWER AND ENERGY			
Lighting Power	40.40	7.98	32.43 kW
Lighting Energy	65,542	12,938	52,604 kWh
Heat displaced	1,021.4	201.6	(819.8) therms
Peak cooling load increase	10.63	2.10	8.53 kW
Cooling load increase	4,332	855	3,477 kWh

ANNUAL OPERATING COST			
Total Power Cost:	\$2,283	\$451	\$1,832
Electric Energy Cost:	\$2,513	\$496	\$2,017
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$945</u>	<u>\$247</u>	<u>\$698</u>
Total Operating Cost:	\$5,741	\$1,194	\$4,548
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$11,925
Labor:			\$4,692
Overhead and Profit (15% on material, 38% on labor)			\$3,564
Total Cost:			\$20,181 = \$140 /fixt. = \$140 /bal.
SIMPLE PAYBACK			4.4 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

8.1.6 Energy Savings and Project Cost Summary for Exterior HID Retrofit

Replace Remaining Mercury Vapor & High Wattage Incand. Exterior Lights with HPS Fixtures for School District

Assumptions	Weighted Avg. Demand Cost (D\$):	\$4.33	/kW-mo
	Weighted Avg. Energy Cost (E\$):	\$0.03597	/kWh
	Heating hours/year:	4,000	hr/yr
	Heating efficiency (geothermal):	100.0	
	Heating cost (electric):	\$0.00	/kWh
	Cooling hours/year:	2,200	hr/yr
	Months cooling during peak demand:	10.4	
	Cooling efficiency	3.8	COP
	Percent fixtures in conditioned space	100%	
	Labor time to replace lamp:	0	minutes
	Labor time to replace fixt/lamp/ballast:	61.1	minutes
	Labor Cost (\$/H):	\$32.00	/hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	69	69	
Operating Hours:	4,264	4,264	hr/yr
Use Factor:	100%	100%	
Percent on During Peak:	0%	0%	
Ballasts/Fixture:	-	-	
Lamps/Fixture:	1	1	
New Fixture Cost (less ballast cost and rebate)		\$99.50	
Number of New Fixtures		34	
LAMPS			
Avg. Watts/Lamp:	246.0	99.0	
Life:	24,000	24,000	hrs
Cost each:	\$18.94	\$29.60	
Quantity:	69	69	
Replacement Fraction:	18%	18%	
BALLASTS			
Watts/ballast	0	0	
Life:	60,000	60,000	hrs
Cost each:	\$0.00	\$15.29	
Quantity:	0	0	
Replacement Fraction:	7%	7%	
POWER AND ENERGY			
Nameplate Power (FYI only):	17.0	6.8	10.1 kW
Lighting Power	0.0	0.0	0.0 kW
Lighting Energy	72,375	29,121	43,254 kWh
Heat displaced	1,128	454	(674.1) therms
Peak cooling load increase	0.0	0.0	0.0 kW
Cooling load increase	4,783	1,925	2,859 kWh

ANNUAL OPERATING COST			
Total Power Cost:	\$0	\$0	\$0
Electric Energy Cost:	\$2,776	\$1,117	\$1,659
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$232</u>	<u>\$363</u>	<u>(\$131)</u>
Total Operating Cost:	\$3,008	\$1,480	\$1,528
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$5,425
Labor:			\$0
Overhead and Profit (15% on material, 38% on labor)			\$814
Total Cost:			\$6,239 = \$90 /fixt.
SIMPLE PAYBACK			4.1 years

Material costs are based on Grainger Catalog No. 389 and include sales tax and shipping, except that standard material cost was adjusted to match quote from WEST-LITE Supply Co., provided by client. Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

***8.1.7 Energy Savings and Project Cost Summary for Incandescent Lamp
Removal Retrofit***

Remove High Wattage Incandescent Fixtures in Gymnasiums at All Schools

Assumptions	Weighted Avg. Demand Cost (D\$):	\$4.33	/kW-mo
	Weighted Avg. Energy Cost (E\$):	\$0.03597	/kWh
	Heating hours/year:	-	hr/yr
	Heating efficiency	85%	
	Heating cost:	\$0.000	/therm
	Cooling hours/year:	8,760	hr/yr
	Months cooling during peak demand:	12	
	Cooling efficiency	4.4	COP
	Percent fixtures in conditioned space	100%	
	Labor time to replace lamp:	0.0	minutes
	Labor time to disconnect fixture:	15.0	minutes
	Labor Cost (\$/H):	\$32.00	/hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	47	47	
Operating Hours:	689	-	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.00	1.00	
Lamps/Fixture:	1.00	1.00	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Watts/Lamp:	400	-	
Life:	1,000	438,000	
Cost each:	\$7.42	\$0.00	
Quantity:	47	47	
Replacement Fraction:	69%	0%	
BALLASTS			
Watts/ballast	-	-	
Life:	60,000	438,000	
Cost each:	\$0.00	\$0.00	
Quantity:	47	47	
Replacement Fraction:	1%	0%	
POWER AND ENERGY			
Lighting Power	18.80	0.00	18.80 kW
Lighting Energy	12,957	0	12,957 kWh
Heat displaced	0.0	0.0	0.0 therms
Peak cooling load increase	4.27	1.44	2.83 kW
Cooling load increase	2,945	-	2,945 kWh

ANNUAL OPERATING COST			
Total Power Cost:	\$1,199	\$75	\$1,124
Electric Energy Cost:	\$572	\$0	\$572
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$245</u>	<u>\$0</u>	<u>\$245</u>
Total Operating Cost:	\$2,015	\$75	\$1,941
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$0
Labor:			\$376
Overhead and Profit (15% on material, 38% on labor)			\$142
Total Cost:			\$518 = \$11 /fixt. = \$11 /bal.
SIMPLE PAYBACK			0.3 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

***8.1.8 Energy Savings and Project Cost Summary for Fixture Replacement
Retrofit (O'Neill)***

**Replace H-Shaped T12 Fixtures at O'Neill (Administrative Offices)
with 3 Lamp, T8 Fixtures and Elec Ballasts**

Assumptions	Demand Cost (D\$):	\$5.23 /kW-mo
	Energy Cost (E\$):	\$0.03430 /kWh
	Heating hours/year:	4,000 hr/yr
	Heating efficiency	100%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	2,200 hr/yr
	Months cooling during peak demand:	4
	Cooling efficiency	3.8 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to replace fixture:	61.1 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	116	116	
Operating Hours:	2,340	2,340	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.00	1.00	
Lamps/Fixture:	2.00	3.00	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Avg. Watts/Lamp:	117	29	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	232	348	
Replacement Fraction:	12%	12%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$16.56	
Quantity:	116	116	
Replacement Fraction:	4%	4%	
POWER AND ENERGY			
Lighting Power	28.01	10.09	17.92 kW
Lighting Energy	65,548	23,615	41,933 kWh
Heat displaced	1,021.5	368.0	(653.5) therms
Peak cooling load increase	7.37	2.66	4.72 kW
Cooling load increase	4,332	1,561	2,771 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$1,912	\$689	\$1,223
Electric Energy Cost:	\$2,397	\$864	\$1,533
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$233</u>	<u>\$324</u>	<u>(\$91)</u>
Total Operating Cost:	\$4,542	\$1,876	\$2,666
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$2,786
Labor:			\$3,780
Overhead and Profit (15% on material, 38% on labor)			\$1,848
Total Cost:			\$8,415 = \$73 /fixt. = \$73 /bal.
SIMPLE PAYBACK			3.2 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

***8.1.9 Energy Savings and Project Cost Summary for Ballast Disconnection
at Roosevelt***

Disconnect Ballasts in Already De-lamped Fixtures in Hallways at Roosevelt

Assumptions	Demand Cost (D\$):	\$3.03 /kW-mo
	Energy Cost (E\$):	\$0.05110 /kWh
	Heating hours/year:	- hr/yr
	Heating efficiency	85%
	Heating cost:	\$0.000 /therm
	Cooling hours/year:	8,760 hr/yr
	Months cooling during peak demand:	12
	Cooling efficiency	4.4 COP
	Percent fixtures in conditioned space	100%
	Labor time to replace lamp:	0.0 minutes
	Labor time to disconnect ballast:	5.2 minutes
	Labor Cost (\$/H):	\$32.00 /hour

	<u>Existing</u>	<u>Proposed</u>	<u>Savings</u>
FIXTURES			
Quantity:	66	66	
Operating Hours:	2,436	2,436	
Use Factor:	100%	100%	
Ballasts/Fixture:	1.00	1.00	
Lamps/Fixture:	-	-	
New Fixture Cost (less ballast cost)			
Number of New Fixtures			
LAMPS			
Watts/Lamp:	-	-	
Life:	20,000	20,000	
Cost each:	\$1.57	\$2.48	
Quantity:	0	0	
Replacement Fraction:	12%	12%	
BALLASTS			
Watts/ballast	8	-	
Life:	60,000	60,000	
Cost each:	\$9.47	\$0.00	
Quantity:	66	66	
Replacement Fraction:	4%	4%	
POWER AND ENERGY			
Lighting Power	0.53	0.00	0.53 kW
Lighting Energy	1,286	0	1,286 kWh
Heat displaced	0.0	0.0	0.0 therms
Peak cooling load increase	0.12	1.44	(1.32) kW
Cooling load increase	292	-	292 kWh
ANNUAL OPERATING COST			
Total Power Cost:	\$24	\$52	(\$29)
Electric Energy Cost:	\$81	\$0	\$81
Heating Energy Cost:	\$0	\$0	\$0
<u>Lamp & Ballast O&M Cost:</u>	<u>\$33</u>	<u>\$0</u>	<u>\$33</u>
Total Operating Cost:	\$137	\$52	\$85
IMPLEMENTATION COST			
Materials (lamps and ballasts):			\$0
Labor:			\$183
Overhead and Profit (15% on material, 38% on labor)			\$69
Total Cost:			\$252 = \$4 /fixt.
			= \$4 /bal.
SIMPLE PAYBACK			3.0 years

Material costs are based on Grainger Catalog No. 389 or 391 and include sales tax and shipping.
Labor time is based on Means Maintenance & Repair Cost Estimator 1998.

SCHEDULE B
To
FORM UCC-1 Financing Statement

Klamath Falls City School District, Oregon, as Debtor
LaSalle Bank National Association, as Secured Party

The legal description(s) of the real estate is:

See attached Exhibit A for Legal Descriptions.

The name of the record owner is:
(if Debtor does not have an interest of record in the real estate)

Sale or Closure Planned	Year Built	School
No	1928	Joseph Conger Elementary School 1700 California Klamath Falls, OR 97601
No	1928	Fairview Elementary School 1017 Donald Street Klamath Falls, OR 97601
No	1909	Mills Elementary School 520 East Main Street Klamath Falls, OR 97601
No	1923	Pelican Elementary School 501 McLean Street Klamath Falls, OR 97601
No	1911	Riverside Elementary School 707 Cypress Street Klamath Falls, OR 97601
No	1923	Roosevelt Elementary School 1125 Eldorado Avenue Klamath Falls, OR 97601
No	1961	Ponderosa Junior High School 2554 Main Street Klamath Falls, OR 97601
No	1961	Mazama High School 3009 Summers Lane Klamath Falls, OR 97603
No	1959	District Office 1336 Avalon Klamath Falls, OR 97603

28085

- - Property Data Selection Menu - -

Prop ID : R757513 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-029CB-01500-000 (57228) 475 SOUTH ALAMEDA
 Legal : BUENA VISTA ADDITION, BLOCK 116 & KLAMATH FALLS, OR 97601
 117. LOT 1-12 BLK 116 & 1-12 BLK*

Situs : 1700 CALIFORNIA
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area: 38354

Name(s) :
 Code Area : 001

Sale Info :

Deed Type :

Instrument: 70-214

2002 Tax Status * No Taxes Due *

Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	1,288,200 (+)
Land	\$	55,600 (+)
Appraised	\$	1,343,800 (=)
Exemptions	\$	1,343,800 (-)
Taxable RMV	\$	0 (=)
M50 Assessed	\$	0

(AD) Alt Disp
 (G) en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _____

1 Sess-1 172.16.0.1

1 23/43

28086

2nd

- - Property Primary Information - -

Property ID : R757513 (Real Estate) Last Changed: 02/27/03
1. Legal Description: BUENA VISTA ADDITION, BLOCK 116 & 117, LOT 1-12 BLK 116
& 1-12 BLK 117 LESS NWLY POR TO ST HWY COMM
2. Owner ID: 57228
SCHOOL DISTRICT #1
475 SOUTH ALAMEDA
KLAMATH FALLS, OR 97601
8. Names :
9. Situs : 1700 CALIFORNIA
KLAMATH FALLS, OR 97601
3. Code Area : 001
4. Exemptions: EX
5. Map TaxLot: R-3809-029CB-01500-000
6. Map ID : 3809
7. Comment :
10. Alt Acct Num :
11. Property Class: 921B
12. Neighborhood : 1B20
13. Franchise Code:
14. Process Status:
15. Account Status: A (Active)
Appraise Value: \$1,382,450

Enter 'STAT' for Status Code, 'L' for Legal Screen, 'SA' for Situs Addr.,
Field Number, or <RET> to Exit: _____

1 Sess-1 172.16.0.1

1 23/33

28087

Mills

1792

*

- - Property Data Selection Menu - -

Prop ID : R767192 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-033AC-03000-000 (57228) 475 SOUTH ALAMEDA
 Legal : MILLS, BLOCK 100 & BLOCK 15 KLAMATH FALLS, OR 97601
 INDUSTRIAL. LOT 300-315 & VAC HOME*

Situs : Year Built :
 Living Area:

Name(s) :
 Code Area : 001
 Sale Info :
 Deed Type :
 Instrument: 76-47

2002 Roll Values

2002 Tax Status * No Taxes Due *	Improvements	\$	0 (+)
Current Levied Taxes : 0.00	Land	\$	0 (+)
Special Assessments :	Appraised	\$	0 (=)
2003-04 SB125 Taxes :	Exemptions	\$	0 (-)
	Taxable RMV	\$	0 (=)
	M50 Assessed	\$	0

(AD) Alt Disp	(Y) primary	(S)econdary	(L)and/Impr
(Glen Appr	(O)wnership	(H)istorv	(.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43

28088

202

- - Property Primary Information - -

Property ID : R767192 (Real Estate) Last Changed: 01/09/92
1. Legal Description: MILLS, BLOCK 100 & BLOCK 15 INDUSTRIAL, LOT 300-315 &
VAC HOME AVE

2. Owner ID: 57228 8. Names :
SCHOOL DISTRICT #1
475 SOUTH ALAMEDA
KLAMATH FALLS, OR 97601

9. Situs :

3. Code Area : 001 10. Alt Acct Num :
4. Exemptions: EX 11. Property Class: 920A

5. Map TaxLot: R-3809-033AC-03000-000 12. Neighborhood : 6A10
6. Map ID : 3809 13. Franchise Code:
14. Process Status:
15. Account Status: A (Active)
Appraise Value: \$0

7. Comment :

Enter 'STAT' for Status Code, 'L' for Legal Screen, 'SA' for Situs Addr.,
Field Number, or <RET> to Exit: _____

1 Sess-1 172.16.0.1

1 23/33

28089

Pelican

* - - Property Data Selection Menu - -

Prop ID : R696633 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-019DB-00200-000 (57228) 475 SOUTH ALAMEDA
 Legal : KLAMATH LAKE, BLOCK POR 1 ALL 3 & 4 KLAMATH FALLS, OR 97601
 POR 6, LOT 1 THRU 6 ALSO ADJ VAC ST

Situs : 501 MCLEAN ST
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area: 17940

Name(s) :
 Code Area : 001

Sale Info :

Deed Type :

Instrument: 271-30

2002 Tax Status * No Taxes Due *

Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	1,161,000	(+)
Land	\$	50,400	(+)
Appraised	\$	1,211,400	(=)
Exemptions	\$	1,211,400	(-)
Taxable RMV	\$	0	(=)
M50 Assessed	\$	0	

(AD) Alt Disp
 (G)en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43

28090

Riverside

- - Property Data Selection Menu - -

Prop ID : R770883 (Real Estate)
 Map Tax Lot: R-3809-032CB-02700-000
Legal : RIVERSIDE, BLOCK 11 & 12

Owner: SCHOOL DISTRICT #1
 (57228) 475 SOUTH ALAMEDA
 KLAMATH FALLS, OR 97601

Situs : 707 CYPRESS
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area: 14678

Name(s) :
 Code Area : 001

Sale Info :

Deed Type :

Instrument: 41-76

2002 Tax Status * No Taxes Due *
 Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	755,500 (+)
Land	\$	54,770 (+)
Appraised	\$	810,270 (=)
Exemptions	\$	810,270 (-)
Taxable RMV	\$	0 (=)
M50 Assessed	\$	0

(AD) Alt Disp
 (G) en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43

28091

Rosevelt

*

- - Property Data Selection Menu - -

Prop ID : R755356 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-028BC-04800-000 (57228) 475 SOUTH ALAMEDA
 Legal : HOT SPRINGS, BLOCK 34, LOT 1 THRU KLAMATH FALLS, OR 97601
 22. ACRES 4.06

Situs : 1125 ELDORADO BLVD
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area:

Name(s) :
 Code Area : 001
 Sale Info :

Deed Type :
 Instrument: 74-82

2002 Tax Status * No Taxes Due *
 Current Levied Taxes : 0.00

Special Assessments :
 2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	0 (+)
Land	\$	0 (+)
Appraised	\$	0 (=)
Exemptions	\$	0 (-)
Taxable RMV	\$	0 (=)
M50 Assessed	\$	0

(AD) Alt Disp
 (G)en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43

28092

Ponderosa
1/2

- - Property Data Selection Menu - -

Prop ID : R764159 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-033AA-00100-000 (57228) 475 SOUTH ALAMEDA
 Legal : TWP 38 RNGE 9, BLOCK SEC 33, TRACT KLAMATH FALLS, OR 97601
 POR NE4NE4 UNPLATTED LESS HWY.*

Situs : 2554 MAIN ST
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area:

Name(s) :
 Code Area : 001

Sale Info :

Deed Type :

Instrument: 327-289

2002 Tax Status * No Taxes Due *

Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	0 (+)
Land	\$	0 (+)
Appraised	\$	0 (=)
Exemptions	\$	0 (-)
Taxable RMV	\$	0 (=)
M50 Assessed	\$	0

(AD) Alt Disp
 (G)en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istorv

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43.

28093

20/2

- - Property Primary Information - -

Property ID : R764159 (Real Estate) Last Changed: 08/01/01
1. Legal Description: TWP 38 RNGE 9, BLOCK SEC 33, TRACT POR NE4NE4 UNPLATTED
LESS HWY, ACRES 29.95

2. Owner ID: 57228
SCHOOL DISTRICT #1
475 SOUTH ALAMEDA
KLAMATH FALLS, OR 97601

8. Names :

9. Situs : 2554 MAIN ST
KLAMATH FALLS, OR 97601

3. Code Area : 001
4. Exemptions: EX

10. Alt Acct Num :
11. Property Class: 920A

5. Map TaxLot: R-3809-033AA-00100-000
6. Map ID : 3809

12. Neighborhood : 6A15
13. Franchise Code:
14. Process Status:
15. Account Status: A (Active)
Appraise Value: \$0

7. Comment :

Enter 'STAT' for Status Code, 'L' for Legal Screen, 'SA' for Situs Addr.,
Field Number, or <RET> to Exit: _____

28094

Mazama

* - - Property Data Selection Menu - -

Prop ID : R795875 (Real Estate) Owner: UNION HIGH SCHOOL
 Map Tax Lot: R-3909-011BB-00100-000 (69443) DISTRICT NO 2
 Legal : TWP 39 RNGE 9, BLOCK SEC 11, TRACT 475 S ALAMEDA
 POR HOMEDALE, ACRES 24.70 KLAMATH FALLS, OR 97601

Situs : 3009 SUMMERS LN
 KLAMATH FALLS, OR 97603

Year Built :
 Living Area:

Name(s) :
 Code Area : 041

Sale Info :

Deed Type :

Instrument: NO DEED REF

2002 Tax Status * No Taxes Due *

Current Levied Taxes : 0.00

Special Assessments : 24.00

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	138,560 (+)
Land	\$	131,200 (+)
Appraised	\$	269,760 (=)
Exemptions	\$	269,760 (-)
Taxable RMV	\$	0 (-)
M50 Assessed	\$	0

(AD) Alt Disp
 (G)en Appr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43

28095

District Office

*

- - Property Data Selection Menu - -

Prop ID : R444371 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-034CC-00100-000 (57228) 475 SOUTH ALAMEDA
 Legal : ENTERPRISE TRACTS, LOT 37 & 38A LY KLAMATH FALLS, OR 97601
 S OF EBERLEIN ST. ACRES 19.14

Situs : 1336 AVALON ST
 KLAMATH FALLS, OR 97603

Year Built : 1960
 Living Area: 29106

Name(s) :
 Code Area : 001

Sale Info :

Deed Type :

Instrument: 250-234

2002 Tax Status * No Taxes Due *

Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	1,314,410	(+)
Land	\$	1,221,900	(+)
Appraised	\$	2,536,310	(=)
Exemptions	\$	2,536,310	(-)
Taxable RMV	\$	0	(=)
M50 Assessed	\$	0	

(AD) Alt Disp
 (G) en Addr

(Y) primary
 (O)wnership

(S)econdary
 (H)istorv

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: __

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1 23/43

28096

Fairview

* - - Property Data Selection Menu - -

Prop ID : R757595 (Real Estate) Owner: SCHOOL DISTRICT #1
 Map Tax Lot: R-3809-029DB-07900-000 (57228) 475 SOUTH ALAMEDA
 Legal : FAIRVIEW, BLOCK 5, LOT ALL, LOTS KLAMATH FALLS, OR 97601
 5-6 OF BLK 8 & VAC FULTON ST

Situs : 1017 DONALD ST
 KLAMATH FALLS, OR 97601

Year Built :
 Living Area: 31682

Name(s) :
 Code Area : 001

Sale Info :
 Deed Type :

Instrument: 93-311

2002 Tax Status * No Taxes Due *
 Current Levied Taxes : 0.00

Special Assessments :

2003-04 SB125 Taxes :

2002 Roll Values

Improvements	\$	1,169,900	(+)
Land	\$	118,540	(+)
Appraised	\$	1,288,440	(=)
Exemptions	\$	1,288,440	(-)
Taxable RMV	\$	0	(=)
M50 Assessed	\$	0	

(AD) Alt Disp
 (Glen Addr

(Y) primary
 (O)wnership

(S)econdary
 (H)istory

(L)and/Impr
 (.) More

Enter Option from Above or <RET> to Exit: _

1 Sess-1 172.16.0.1

1 23/43