### **Education Funding Department EDUC:EX**

From: Debby Sansome <DSansome@SD74.bc.ca>

**Sent:** Friday, April 15, 2016 8:20 AM **To:** Woycheshin, John J EDUC:EX

**Subject:** School Enhancement Program SD#53

Attachments: School Enhancement Program - SD53.xlsx; VFA single page SESS Dust Collection.pdf;

VFA Roof SESS.pdf; VFA Gang Shower SESS.pdf; SD #53 District Operations

Woodshop- Sawdust Collection Syst Report & Estimate (Autosaved).pdf; Similkameen Elementary Secondary School - Shower Upgrade (April 14, 2016).pdf; Fixtures.pdf; SESS Ph.2 - Fan SCHEDULES.PDF; SESS Washrms-IFP-APRIL 11-14153-005.pdf; 14153-005-E1.pdf; SESSqot # 9456.doc; SOSS- Sawdust Collection Syst Report & Estimate.pdf; SO Secondary Woodshop Upgrade Estimate REVISED.pdf; Similkameen Elementary

Secondary Woodshop Opgrade Estimate REVISED.pdf; Similkameen Elementary
Secondary School Mechanical Assessment Report.pdf; Similkameen Elementary

Secondary ESTIMATE.pdf

Importance: High

#### Good morning John

Please find attached the submission for School District #53 Okanagan Similkameen. Mechanical at SESS is still our largest outstanding item. We have been working on it bit by bit under our limited AFG but at this rate, it is going to take us another 20 years to get this done. It is our first priority.

Please let me know if you require anything further, or if I have missed anything. Thank you

Deb

D. Sansome-CTech Director of Facilities SD#53(Okanagan Similkameen) SD#74(Gold Trail) (250)498-9090

						<u> </u>	FACILITY INFORMATION	T						PROJEC	CT SCHEDULE			PROJE	CT COST					SUPPLEMENTA	L DATA	
Project Priority	LRFP	SD#	SD Name	Is this a Grouped Project	Group Project Identifier	Facility Name	Location	Project Type	Primary Driver	Phase 2 of a project from 15/16	Project Description	Project Benefits	Estimated Savings (\$)	Date I (month- (m	End Curre Date Project month- year) Phas	t Enhancemer	SD Contributions	Other Funding	Total Project Cost	Is this a new Phased Project	Phase 1 Cost (16/17)	Phase 2 Cost (17/18)	VFA Requirement	VFA Priority	VFA 1-page report attached	Current Consultant Report
1	Over 20 Years	53	Okanagan Similkameen	No		Similkameen Elementary Secondary	Keremeos	Mechanical Upgrade	System Renewal	Yes	Replace existing gas fired rooftop units with new dual fuel air source heat pumps. We have been upgrading piecemeal based on limited AFG funding available.	Improve life safety and energy efficiency and occupant comfort, as well as reduce the maintenance burden	\$4,496	May-16 O	Oct-16 Desig	\$2,097,000	\$100,000		\$2,197,000	Yes	\$1,490,000	\$707,000	Yes	Recommended	Yes	Yes
2	Over 20 Years	53	Okanagan Similkameen	No		South Okanagan Secondary	Oliver	Mechanical Upgrade	Safety	No	Upgrade existing Sawdust Collection Unit	students. WCB recommended		May-16 A	ug-16 Desig	\$221,700			\$221,700	No			No	Recommended	No	Yes
3	Over 20 Years	53	Okanagan Similkameen	No		Similkameen Elementary Secondary	Keremeos	Safety Enhancements	Safety	No	Replace existing gang shower in Boys Changeroom	boys showers/H/C accessible		May-16 A	ug-16 Desig				\$182,595	No			Yes	Long Term	Yes	Yes
4	Over 20 Years	53	Okanagan Similkameen	No		Similkameen Elementary Secondary	Keremeos	Roof Repairs or Replacement	System Renewal	No	secondary wing gym	Energy savings and Building Envelope protection		May-16 O	Oct-16 Tende				\$166,500	No			Yes	Immediate	Yes	Yes
5	Over 20 Years	53	Okanagan Similkameen	No		Maintenance Yard	Oliver	Mechanical Upgrade	Safety	No	Upgrade existing Sawdust Collection Unit	IAQ improvements for staff and students. WCB recommended		May-16 O	Oct-16 Desig	\$217,500			\$217,500 \$0	No			No		No	Yes
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# SD No. 53 Okanagan Similkameen -- SIMILKAMEEN ELEM-SECONDARY

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Domestic Water Heater - NG - Rheem Ruud Renewal	D2020-Domestic Water Distribution	Beyond Useful Life	3- Long Term	08/07/2017	9,278
Domestic Water Heaters - Gas Fired - Rheem Ruud - Sec. Gym Renewal	D2020-Domestic Water Distribution	Beyond Useful Life	3- Long Term	08/07/2020	47,913
Door Assembly - Double Renewal	B2030-Exterior Doors	Beyond Useful Life	3- Long Term	08/07/2017	67,762
Door Assembly - Single Renewal	B2030-Exterior Doors	Beyond Useful Life	3- Long Term	08/07/2017	33,663
DX Condensing Unit - Trane - Less Than 25 Tons Renewal	D3030-Cooling Generating Systems	Beyond Useful Life	3- Long Term	08/07/2015	14,230
Emergency Lighting - 1995 Renewal	D5092-Emergency Light and Power Systems	Beyond Useful Life	3- Long Term	08/07/2018	11,582
Emergency Lighting Renewal	D5092-Emergency Light and Power Systems	Beyond Useful Life	3- Long Term	08/07/2014	42,656
Epoxy (1995) Renewal	C3020-Floor Finishes	Beyond Useful Life	3- Long Term	08/07/2017	20,330
Epoxy (2008) Renewal	C3020-Floor Finishes	Beyond Useful Life	3- Long Term	08/07/2018	29,443
Exhaust System - Dust Collector Torit Renewal	D3040-Distribution Systems	Beyond Useful Life	3- Long Term	08/07/2017	15,871
Exhaust System - Fume Hood - Ductwork/Fan Renewal	D3040-Distribution Systems	Beyond Useful Life	3- Long Term	08/07/2015	14,066
Exhaust System - Garage Renewal	D3040-Distribution Systems	Beyond Useful Life	3- Long Term	08/07/2018	10,870
Exhaust System - General Building & Restroom Renewal	D3040-Distribution Systems	Beyond Useful Life	3- Long Term	08/07/2016	34,123
Exhaust System - Kitchen - Commercial Renewal	D3040-Distribution Systems	Beyond Useful Life	3- Long Term	08/07/2018	17,967
	D5092-Emergency Light and Power				
Exit Signs Renewal	Systems	Beyond Useful Life	3- Long Term	08/07/2018	36,911
Fire Alarm System Renewal	D5037-Fire Alarm Systems	Beyond Useful Life	3- Long Term	08/07/2014	162,175
Furnaces with AC - Lennox Gas Fired Residential Type - Mezz Renewal	D3050-Terminal and Package Units	Beyond Useful Life	3- Long Term	08/07/2020	16,716



### SD No. 53 Okanagan Similkameen -- SIMILKAMEEN ELEM-SECONDARY

The school is equipped with a security system which includes detection devices, key FOBs and keypads. The school also includes a CCTV system with 13 cameras.

Other Electrical Systems

The school is provided with emergency battery packs with both self-contained and remote heads.

Illuminated exit signs are provided over exit doors and in strategic positions in the corridors to indicate the direction to means of egress.

The secondary and elementary gyms are each equipped with an electronic scoreboard.

The exterior of the building contains an illuminated sign.

#### REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Built-Up-Roof (BUR) (1992) Renewal	B30-Roofing	Beyond Useful Life	1- Immediate	08/07/2012	318,754
DX Condensing Units - Lennox - Less Than 25 Tons Renewal	D3030-Cooling Generating Systems	Beyond Useful Life	1- Immediate	08/07/2012	23,111
Electrical Equipment - Storage in Front of Electrical Components	D5012-Low Tension Service and Dist.	Life Safety	1- Immediate	08/07/2012	423
Lighting - Exterior Renewal	D5022-Lighting Equipment	Beyond Useful Life	1- Immediate	08/07/2012	12,400
Rooftop Unitary Makeup Air - Eng Air - Heating Renewal	D3050-Terminal and Package Units	Beyond Useful Life	1- Immediate	08/07/2012	21,654
SBS Granulated Bitumen Membrane (1992) Renewal	B30-Roofing	Beyond Useful Life	1- Immediate	08/07/2012	424,420
Utility Sinks - Shops Renewal	D2010-Plumbing Fixtures	Beyond Useful Life	1- Immediate	08/07/2012	2,518
Walk-In Cooler/Freezer Renewal	D3050-Terminal and Package Units	Beyond Useful Life	1- Immediate	08/07/2012	36,425
Carpeting - Broadloom Renewal	C3020-Floor Finishes	Beyond Useful Life	2- Short Term	08/07/2013	24,913
Casework - Elementary School Renewal	E-Equipment and Furnishings	Beyond Useful Life	2- Short Term	08/07/2013	121,631
Casework - Secondary School Renewal	E-Equipment and Furnishings	Beyond Useful Life	2- Short Term	08/07/2013	140,188
Painted Finish (Exterior Walls) Renewal	B2010-Exterior Walls	Beyond Useful Life	2- Short Term	08/07/2013	67,750
Rooftop Unitary AC - Cooling w/Gas Heat - 1995 Renewal	D3050-Terminal and Package Units	Beyond Useful Life	2- Short Term	08/07/2013	35,624

(Drama) Renewal	C3020-Floor Finishes	Beyond Useful Life	3- Long Term	08/07/2017	1,076
Potable Water Storage Tank - Steel - AO Smith Renewal	D2023-Domestic Water Supply Equipment	Beyond Useful Life	3- Long Term	08/07/2014	25,684
Public Address and Clock System Renewal	D5031-Public Address and Music Systems	Beyond Useful Life	3- Long Term	08/07/2014	199,141
Restroom Fixtures Renewal	D2010-Plumbing Fixtures	Beyond Useful Life	3- Long Term	08/07/2020	326,988
Roof Drainage - Gravity - Internal Leaders Renewal	D2040-Rain Water Drainage	Beyond Useful Life	3- Long Term	08/07/2017	251,150
Rooftop Unitary AC - Cooling w/Gas Heat - 2003 Renewal	D3050-Terminal and Package Units	Beyond Useful Life	3- Long Term	08/07/2018	195,930
Rooftop Unitary AC - Cooling w/Gas Heat - 2005 Renewal	D3050-Terminal and Package Units	Beyond Useful Life	3- Long Term	08/07/2020	40,206
Rubber Mats Renewal	C3020-Floor Finishes	Beyond Useful Life	3- Long Term	08/07/2020	3,836
Sanitary Waste - Gravity Discharge - 1950 Renewal	D2030-Sanitary Waste	Beyond Useful Life	3- Long Term	08/07/2017	391,391
SBS Granulated Bitumen Membrane (2001) Renewal	B30-Roofing	Beyond Useful Life	3- Long Term	08/07/2021	81,347
Scoreboard Renewal	D5031-Public Address and Music Systems	Beyond Useful Life	3- Long Term	08/07/2014	21,370
Security System Renewal	D5038-Security and Detection Systems	Beyond Useful Life	3- Long Term	08/07/2014	92,598
Signage (Room Numbering and	C1035-Identifying				

# **District Operations Wood Shop,**

6057 Spartan Street, Oliver, BC

# School District No. 53 (Okanagan Similkameen)

# Sawdust Collection System Assessment Report

7 October 2015

### 1.0 Executive Summary

- 1) The comments in this report are based on a site survey dated 28 August, 2015.
- 2) The dust collector is not adequately sized to service the wood shop machinery.
- 3) The duct system is severely undersized for the machinery in use.
- 4) Explosion prevention and mitigation devices are not in place.
- 5) The sawdust collection system does not meet code for filtered air or explosion prevention.
- 6) Six dust-generating machines are not currently connected to the collection system but must be connected to meet code.
- A major upgrade of this system is necessary to meet code. The mechanical upgrade is estimated at \$217,500.

# 2.0 - Discussion of Existing Sawdust Collection System

#### **Dust Collector**



#### Observations:

- A Torit dust collector (Model 19-FB) is located in an interior room directly beside the woodshop.
- This unit can handle between 1,250 and 1,800 cubic feet per minute (cfm) of airflow.
- The dust-generating machinery in the woodshop requires a total airflow of 3,120 cfm. This figure includes machinery that is currently connected and machinery that should be connected to the system.
- The dust collector is not adequately sized to service the machinery in the woodshop.

#### Recommendations:

 Replace the dust collector with an adequately sized model.

#### Recirculated Air



#### Observations:

- The dust collector returns filtered air to the woodshop through the filter bag shown at left.
- The collector is fitted with 1 filter bag totalling 25 sq. ft. of filter material. This gives an air-to-cloth ratio of approximately 72: 1.
- For air returned to a woodshop, the required airto-cloth ratio is 5: 1.

#### Recommendations:

 Replace the dust collector with a larger unit with adequate filter media to meet the required air to filter cloth ratio of 5:1.

### **Explosion Ventilation Configuration**



#### Observations:

- The dust collector is not equipped with explosion relief panels.
- The main duct feeding the dust collector is not equipped with a blowback damper, nor is it equipped with a spark detection device.
- The room housing the dust collector is not equipped with explosion ducting.
- The collector room does not appear to have a fire rating of 1 hour.

#### Recommendations:

- Replace the existing unit with an adequately sized collector that includes explosion panels.
- Install a main duct that includes a blowback prevention damper and a spark detection device.
- Install fire sprinklers on the return air duct.
- Install the new collector on the exterior of the building as shown in the example at left.

# **Ducting**





- The main circular duct that feeds into the dust collector has a diameter of 6 inches. At the desired stream velocity, this duct can carry 800 cubic feet per minute (cfm). Current demand is 3,120 cfm. Current demand includes both equipment currently connected and equipment that should be connected.
- The main duct is severely undersized for the equipment in the woodshop.

#### Recommendations:

- Replace the main duct with an adequately sized duct
- Include a blowback prevention damper and a spark detection device.

#### Observations:

 The chop saw, shown at top left, as well as the spindle sander and band saw, shown at bottom left are three of the six dust-generating machines in the shop that are not connected to the collection system.

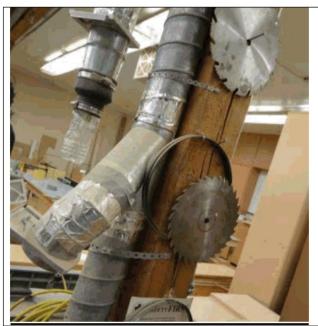
#### Recommendations:

 Install a new dust collection system that includes the six unconnected dust-generating machines to meet code.





# **Ducting (cont.)**



#### Observations:

- The photo at left shows an open duct plugged with a water bottle. The duct also includes a rubber or plastic fitting.
- The adjacent duct is sealed with foil tape.

#### Recommendations:

- Remove the rubber or plastic fitting with a metallic alternative.
- If the duct can not be sealed by the knife gate above the water bottle, replace the knife gate to ensure a proper seal.
- Remove all foil tape and replace with duct sealant.



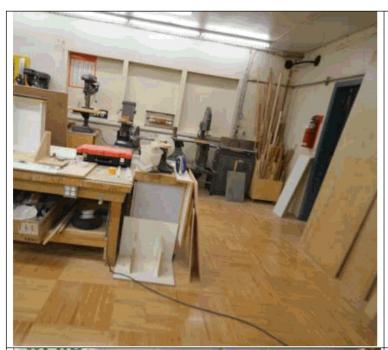
#### Observations:

- The collection duct shown at left is sealed with duct tape and includes more than 2 feet of flexible ducting.
- Code limits the use of flexible ducting to 2 feet per connection.

#### Recommendations:

- Remove duct tape wherever it is used and replace with duct sealant.
- Install rigid metallic ducting to replace flexible ducting.

# 3.0 - Housekeeping



#### Observations:

 Housekeeping was observed to be adequate on the day of our visit.

#### Recommendations:

- Adjust housekeeping practices to keep accumulations close to nil.
- Install a new dust collection system and connect the six un-connected machines to assist in housekeeping efforts.
- Reduce the amount of clutter in the shop to reduce time spent on housekeeping.



#### Observations:

- As shown in the photo at left, the table saw held sawdust accumulation.
- Thin strips of wood can fall into the collection box and then act to corrupt the flow of suction air.

#### Recommendations:

Ensure that table saws are checked and cleaned on a regular basis.

# 4.0 - Considerations for Mechanical System Upgrade

The sawdust collection system fails to meet codes and regulations on several points. We recommend a major upgrade of the system to rectify these failures. A major upgrade would involve the replacement of the existing dust collector and the existing duct system.

We recommend that a new overhead duct system designed to include all dust-generating machinery.

Explosion protection devices are needed to meet code. A blowback prevention damper and a spark detection device must be included in the upgrade.

It is recommended that that the new collector be installed on the exterior of the building to give complete explosion ventilation.

Guy Harding, P. Eng

							7-Oct	-2015
awdust	Collection System Upgrade Es	tima	te					
								TOTA
						/man		
	Demolition	2	man day	@	\$800	day	\$1,600	
	New Dust Collector	1	units	@	\$58,000	/units	\$58,000	
	Installation + Hoisting Chainlink Fence + Concrete	1	units	@	\$10,000	/units	\$10,000	
	Pad	0	units	@	\$5,000	/units	\$0	
	Blowback Prevention Damper	1	units	@	\$8,000	/units	\$8,000	
	Spark detection device.	1	units	@	\$4,000	/units	\$4,000	
	Explosion Venting	0	units	@	\$4,000	/units	\$0	
	Safety Devices Required on Sys	stems		5000 cfn				
	Device 1	0	units	@	\$1,000	/units	\$0	
	Device 2	0	units	@	\$2,000	/units	\$0	
	Device 3	0	units	@	\$4,000	/units	\$0	
	New Equipment Pickup	10	pickup	@	\$1,500	/pickup	\$15,000	
	New Branch- Machine to Main	10	pickup	@	\$1,000	/pickup	\$10,000	
	New Main Duct	10	pickup	@	\$1,000	/pickup	\$10,000	
	Recirculation System	1	units	@	\$10,000	/units	\$10,000	
	Carpentry	1	allow	@	\$2,500	/allow	\$2,500	
	Roofing	0	allow	@	\$2,500	/allow	\$0	
	Electrical	1	units	@	\$5,000	/units	\$5,000	
ubtotal							\$134,100	\$134,10
scalatio	n (current US\$ exchange & trave	l time	•)	30%			\$40,300	\$40,30
	Contingency			15%			\$20,200	\$20,20
ees and	Disbursements			12%			\$16,100	\$16,10
axes (GS	ST)			5%			\$6,800	\$6,80

	Schoo	l Name:	School District #53 - Similkameen Elementary / Secondary School			
	Projec		#			
	Projec	t Description:	Renovation - Shower Upgrade			
А		Allowable Site Area (ha)		0		
R						
E A		Allowable Building Area Total Allowable Renovati		38		
-		Less: Previously Existing S		0		
U		Add: Area to be Demolish	ned	0		
N		Area of New Space Area of Neighbourhood L	earning Centre	0		
т.		Allowable Area of Renova		38		
_						
R		Unit Rate for Construction	on (\$/sqm) [based on 2nd Qtr, 2016 Unit Rates]			
Т			New \$	0.00		
Ε			Renovation \$3,74	1.99		
						Amounts Subject to
		PROJECT BUDGET				Economic Adjustment
		Site Acquisition		\$0		¢0.00
Ε		Site Development New Construction		\$0 \$0		\$0.00 \$0.00
L		Renovation - Shower Upg	grade \$142	_		\$142,195.56
G	ı	Design Fees and Disburse		,751		\$22,751.29
ı		Construction Contingence	y (5%) \$7	,110 \$0		\$7,109.78
В		7 Equipment 3 Municipal Permits, DCC's	& Fees \$1	,194		
L	`		ntary Items (including fees and related costs)			
E	9		Supplementary Site	\$0		\$0.00
_	10		Supplementary Building Off-Site Costs	\$0		\$0.00 \$0.00
E X	11		is i. Feasibility Study and Completion Costs	\$0 \$0		\$0.00
P			ii. Phasing	\$0		
E		Sub-Total	\$173			
N	14	Rebated Taxes	4.40%	,623		
D		Total Project Budget (exc		874		4472.056.60
T	(B)		ible for Economic Adjustment		-	\$172,056.63
Ü		RESERVE ITEMS (as per S	ichedule C - Reserve Items)  1 Nil	\$0		
R	(c)		Maximum "Not to Exceed" Contingency Sub-Total	\$0		
Ε				_	J	
S	(D)		tment (from Location Factor as of 2nd Qtr, 2016 to Tender Close 3rd Qtr 2016 - 3% per year for 3 months	_		\$1,720.57
	(E)	Total Reserve Items		721 [	=C+D]	
	(F)	MAXIMUM POTENTIAL F	PROJECT COST (including Reserve Items) \$182	,595 [	=A+E]	
-	(=)	Control Blood 5 11	Alberta Foodback and a language 2 Cold Vi	07.1		
U N	(G) (H)		al Project Funding Agreement, subparagraph 3.01(a)] \$180 stricted Capital [as per paragraph 3.04]	8/4		
D	(1)	Borrowing [as per paragr		$\dashv$		
1	(1)	Local Capital Reserve [as	per subparagraph 4.02(e)]			
N	(K)		per subparagraph 4.02(e)]	$\dashv$		
G	(L)	Other (specify) [as per su	Sub-Total \$180	874	[=A]	
s	(M)	Canital Plan - Identified P	Risks [as per sub-paragraph 3.01(b)]	\$0	[=C]	
0	(N)	•		,721	[=D]	
U R	'			721	[=E]	
С	(0)	MAXIMUM POTENTIAL F	PROJECT FUNDING	,595	[-6]	
E		(includes Lines G, H, I, J, I	K, L, M and N) \$182	393	[-r]	

School Name: School District #53 - Similkameen Elementary / Secondary School Project No: **Project Description:** Renovation - Shower Upgrade RENOVATIONS Demolition comprising: Chop up existing slab on grade including disposal 8 m2 \$50.00 \$400 Demolish existing concrete block walls including disposal 4 m2 \$40.00 \$160 1 No \$40.00 \$40 Remove existing door 19 No \$15.00 \$285 Remove existing lockers 7 m \$50.00 \$350 Remove existing locker base 21 m2 \$25.00 Remove existing wall tile including disposal \$525 Remove existing floor tile including disposal 18 m2 \$25.00 \$450 38 m2 \$12.00 \$456 Remove existing T-bar ceilings 2 m \$120 Remove existing millwork vanity \$60.00 2 m \$50.00 Remove existing millwork benches \$100 Remove existing hand dryer and washroom accessories and hand over to 1 1/s \$150.00 \$150 owner Architectural comprising: \$950 Single door, hardware and finish 1 No \$950.00 80 m2 \$40.00 \$3,200 Waterproofing floor and wall surface to receive new finishes Quarry floor tiles 18 m2 \$120.00 \$2,160 \$120.00 \$7,440 Ceramic wall tiles 62 m2 \$3,960 Concrete masonry walls 22 m2 \$180.00 Painted drywall ceilings 38 m2 \$65.00 \$2,470 1 No \$750.00 \$750 Access ceiling hatch 160 m2 \$10.00 \$1,600 Epoxy paint block walls Remove and replace toilet partition end to allow for thickness and tiles 1 I/s \$500.00 \$500 1.8 m \$600.00 \$1,080 Vanity unit 8 No \$280.00 \$2,240 Shower rod and curtain Re-locate hand dryers 1 No \$50.00 \$50 1 no \$150 \$150.00 Mirrors 5 No \$250 Re-located lockers \$50.00 1 No \$550.00 \$550 Folding shower bench 1 No \$500.00 \$500 Folding shower seat 3 No \$1,050 \$350.00 Shower bench 1 1/s \$1,000.00 \$1,000 Miscellaneous rough carpentry 1 I/s \$1,000.00 Miscellaneous metals \$1,000 1 I/s \$2,500.00 \$2,500 Saw cut, coring, patching, fire stopping, etc 1 I/s \$500.00 \$500 Signage allowance Mechanical comprising: 10 No \$75.00 \$750 domestic shut-off valves 30 m \$90.00 \$2,700 cold water 25 m \$95.00 \$2,375 hot water 25 m \$115.00 \$2,875 sanitary drain 21 m \$85.00 vent pipework \$1,785 5 No \$100.00 \$500 clean-outs 5 No \$300.00 floor / shower drains \$1,500 2 No \$1,100.00 \$2,200 lavatory 4 No individual shower \$1,500.00 \$6,000 4 No \$500.00 \$2,000 mixing valve 1 1/s \$1,500.00 \$1,500 remove existing plumbing 1 1/s remove existing HVAC ductwork \$1,000.00 \$1,000 1 No \$1,000.00 fans, etc \$1,000 38 m2 \$85.00 ductwork \$3,230 1 I/s \$1,500.00

\$1,500

hool Name:	School District #53 - Similkameen Elementary / Secondary School					
oject No:	#					
oject Description:	Renovation - Showe	r Upgrade				
site set-up, test & commission/balancing, manuals, etc	1 l/s	\$2,500.00	\$2,500			
Electrical comprising:						
Remove existing lighting fixtures, and set aside for re-use	1 l/s	\$1,000.00	\$1,000			
Permit & site set-up	1 l/s	\$1,000.00	\$1,000			
Panel modifications	1 l/s	\$1,500.00	\$1,500			
Grounding & bonding	1 l/s	\$750.00	\$750			
Fixture type - washroom / general vanity	8 No	\$95.00	\$760			
Fixture type - shower pot-lights	4 No	\$200.00	\$800			
Fixture installation	12 No	\$75.00	\$900			
Conduit & wire	12 No	\$175.00	\$2,100			
Switches	4 No	\$85.00	\$340			
Roof mounted receptacle	1 No	\$1,000.00	\$1,000			
Occupancy sensors	2 No	\$350.00	\$700			
Mechanical power supplies	1 l/s	\$1,500.00	\$1,500			
Modifications to speakers and fire alarm	1 l/s	\$750.00	\$750			
Structural comprising:		Ī				
L50mm Concrete slab sloped to falls including dowels into existing	18 m2	\$150.00	\$2,700			
Concrete foundation size 400mm x 200mm including excavation, concrete,	7	¢500.00	¢2.500			
formwork, reinforcement and backfill	7 m	\$500.00	\$3,500			
Miscellaneous roof structural requirements for fan, roof mounted receptacle	1 l/s	\$1,500.00	\$1,500			
General Allowances comprising:						
General Contractors Requirements and Fee	1 l/s		\$27,345			
Design Contingencies (10%)	1 l/s		\$23,699			
Total Renovation Requirements			\$142,196			
ECONOMIC ADJUSTMENT						
ocation Factor Date			2nd Quarter 2016			
Anticipated Tender Close		<u> </u>	3rd Quarter 2016			
nterval		<u> </u>	3 months			
Projected Economic Adjustment		<u> </u>	0.25% per month			
Fotal Economic Adjustment Factor		<u> </u>	0.25% per monti			
Total Project Budget Eligible for Economic Adjustment		<del></del>	\$172,057			
Estimated Economic Adjustment Amount			\$1,290			

Project: SESS Changeroom Upgrade

Location: Keremeos, BC

Engineer Firm: SMITH AND ANDERSEN

Date: 08 April 2016

#### L-1

# COUNTER MOUNTED SELF-RIMMING / DROP-IN BASIN ELECTRONIC FAUCET BELOW DECK MECHANICAL WATER MIXING VALVE



Franke Commercial V1821 Series #OV1821/5/3 basin, 3 holes, 4" (102 mm) center, 533 mm x 457 mm x 127 mm (21" x 18" x 5") high, oval, grade 18-10 18 GA. (1.2 mm) type 304 stainless steel, mirror finished rim, Self-rimming / Drop-in, rear overflow, back faucet ledge, undercoated to reduce condensation and resonance, mounting kit provided. Provide basin rim sealant. Delta Tech #591T Series Electronic faucet, chrome plated, 4" (102mm) centerset, cast brass, 1.9 LPM (0.5 GPM) aerator spray outlet, infrared sensor with screw adjustable range, undercounter filtered solenoid valve with serviceable strainer filter, module control assembly housed in splash proof junction box, four AAsize alkaline batteries (included). Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, bronze body, temperature adjusting dial, 10 mm (3/8") inlets and outlet compression fittings, high temperature thermostatic limit stop, shut-off with automatic reset when temperature exceeds 120 °F (48.8 °C), integral checks, offer temperature range from full cold through 46 °C (114.8 °F). Provide tee, adaptors and flex. copper tubing to suit installation. McGuire #155WC Offset Open Grid Drain, cast brass one piece top, 17 GA. (1.5 mm) mm tubular 32 mm (1-1/4") tailpiece. McGuire #LFH170BVRB, Faucet Supplies, chrome plated polished brass, commercial duty 1/4 turn ball valve angle stops, 13 mm (1/2") I.D. Inlet x 127 mm (5") horizontal extension tubes, combination V.P. Loose key handles, escutcheon and stainless steel braided flexible risers. McGuire #8872C P-Trap, heavy cast brass adjustable body, with slip nut, 32 mm (1-1/4") size, shallow wall flange and seamless tubular wall bend. McGuire PROWRAP #PW2000WC Sanitary Covering vandal-resistant, flexible seamless moulded closed-cell PVC resin, formulated with anti-microbial additive to limit the growth of fungus and bacteria, to exposed piping (to protect against heat/contusions) as per local codes...

#### SH-1 SHOWER - BUILT-ON SITE - PUSH BUTTON ELECTRONIC SHOWER

**Delta Teck #860T1,** push button electronic shower system, SS cover with vandal-resistant mounting screws. **Delta institutional shower head,** cast brass, vandal-proof screws, integral mounting bracket, 30 degree spray angle, 5.7 LPM (1.5 GPM) maximum flow rate. Tempered water supplied by existing thermostatic mixing valve. Provide backing in wall to suit. Provide **Delta Teck** 

**#060704A** or **060772A** transformer for each group of fixtures as noted on drawings. **Watts #FD-100-C-A Floor Drain**, epoxy coated cast iron, anchor flange, 5" (127mm) adjustable round nickel bronze strainer, reversible clamping collar with primary & secondary weepholes. **Provide P-Trap**, same material as the connecting pipe drain.

#### SH-2 SHOWER - BUILT-ON SITE - HAND SHOWER - BARRIER-FREE DESIGN



Delta Teck #860T1, push button electronic shower system, SS cover with vandal-resistant mounting screws. Comply to local codes for Shower Control location and Trim Kit requirements. Delta Commercial slide bar, 24" (610mm), 5.7 LPM (1.5 GPM) maximum flow rate, handheld spray head, 60" (1524mm) flexible metal hose, wall supply elbow with flange, in-line duo check. Watts #FD-100-C-A Floor Drain, epoxy coated cast iron, anchor flange, 5" (127mm) adjustable round nickel bronze strainer, reversible clamping collar with primary & secondary weepholes. Provide P-Trap, same material as the connecting pipe drain.

Similkameen Elementary Secondary			
Boys Shower Upgrade			
Fan Schedule			
Ident		EF - 111	EF - 111
Status		Existing	New
Location		Boys Change Room 111	Roof
Service		Boys Change Room 111	Boys Change Room 111
Description		Cabinet - In Line	Roof Mount - Spun Aluminum
Manufacturer		Greenheck	Cook
Model			100SRSH17D
Nominal Size			
Air Flow	l/s	340	340
External Air Pressure Drop	Pa	125	81
Width	mm	0	30
Length	mm	0	30
Height		0	24
Diameter	mm	0	-
Weight	kg	0	56
Motor	W	0.0	124.5
Voltage/Phase		-	208/1

A		- Direct Dalina
Accessories	-	Direct Drive
		<ul> <li>EC Motor With Factory</li> </ul>
		Mounted Speed Control
		Down Blast
		<ul> <li>Internal Vibration Isolation</li> </ul>
		Low Leak Backdraft Damper
		<ul> <li>Prewired Disconnect</li> </ul>
		<ul> <li>Local Control thru Controls</li> </ul>
		Agent
		350 mm Insulated Roof Curb
		Bolt Fan to Curb with 4 Lag
		Screws
Electrical Country attack		- HOA
Electrical Coordination	-	• HOA
		<ul> <li>Control by Motion Detection</li> </ul>

BATHROOM FOUNDATION PLAN - PLUMBING & DRAINAGE
1:50

BATHROOM FLOOR PLAN - PLUMBING & DRAINAGE
1:50

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>—</b> ə	PIPE DROP OR FROM BELOW		COMBINATION BALANCING AND METERING VALVE		DOMESTIC COLD WATER (DCW)	G	NATURAL GAS
<b>—</b>	PIPE UP OR FROM ABOVE	<u> </u>	CONSTANT FLOW DEVICE		DOMESTIC HOT WATER (DHW)	gv	NATURAL GAS VENT
—₩—	VALVE		CHECK VALVE		DOMESTIC HOT WATER RECIRCULATION (DHWR)	PG	PROPANE GAS
<b>6</b> √5.R.V.	SAFETY RELIEF VALVE	₩ <u>₩</u>	BACKFLOW PREVENTOR	—т—	TEMPERED DOMESTIC HOT WATER	CA	COMPRESSED AIR
-	UNION OR FLANGE FITTING		PRESSURE REDUCING VALVE	IRR	IRRIGATION SYSTEM PIPING	AV	ACID VENT
	FLEXIBLE CONNECTION	151	STRAINER		SANITARY ABOVE GRADE OR FLOOR	AW	ACID WASTE
<b>H</b>	HOSE BIBB	<b>—</b>	REDUCERS		SANITARY BELOW GRADE OR FLOOR	v	SANITARY VENT
<b>W</b> -W-	PLUMBING FIXTURE (TYPE NOTED)	-55	PUMP	st	STORM ABOVE GRADE OR FLOOR	GI	GREASE INTERCEPTOR ABOVE GRADE
<b>→</b> □	WALL HYDRANT	1/4	VENT THROUGH ROOF	st	STORM BELOW GRADE OR FLOOR	GI	GREASE INTERCEPTOR BELOW GRADE
	THERMOMETER	₩-∅	PRESSURE GAUGE	PSAN	PUMP SANITARY DRAIN	ID	INDIRECT DRAIN (CONDENSATE, ETC.)
ÛVB	VACUUM BREAKER	厚	FLOW SWITCH	PST-	PUMP STORM DRAIN	FD-	FOUNDATION DRAIN
曱	WATER TEMPERATURE SENSOR	PS	PRESSURE SWITCH	NP	NON-POTABLE WATER	CIRR	COLD WATER IRRIGATION
P/T	PRESSURE TEMPERATURE PLUG	HI—CA-	COMPRESSED AIR OUTLET	IRR-	IRRIGATION	HIRR-	HOT WATER IRRIGATION
<b>⊕</b> 4ø FD	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES	<b>─</b> •	FLOOR DRAIN FROM ABOVE WITH TRAP		SQUARE EXTERIOR AREA DRAIN	<b>⊗</b>	MANHOLE
⊕ 4ø FFD	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES	<b></b>	UPTURNED CLEANOUT	•	CIRCULAR AREA DRAIN	• мнсв	MANHOLE CATCH BASIN
<b>⊕ 4ø</b> HD	HUB DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES	I <sup>c.o.</sup>	HORIZONTAL CLEANOUT	Т.В.	THRUST BLOCK	Ш с.в.	CATCH BASIN
<b>⊕ 4ø</b> RD	ROOF DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES	₫—№	GAS TURRET	GM	GAS METER		WATER METER
NOTE: NOT AL	L SYMBOLS APPLY, REFER TO FLOOR P	LANS AND DRAWII	NGS				

3 PLUMBING AND DRAINAGE SYMBOLS AND ABBREVIATIONS

KEY PLAN
NTS

s.15

DRAWING NOTES APPLY WHERE INDICATED:

- BEAM OVER.
- BULKHEAD OR FURRING.
- CAP FOR FUTURE.
- EXISTING TO REMAIN IN SERVICE. 5. EXISTING TO BE ABANDONED. REMOVE AS REQUIRED TO
- SUIT NEW CONSTRUCTION.
- EXISTING TO BE RELOCATED.
- EXISTING TO BE REMOVED.
- 8. CAP EXISTING IN THIS APPROXIMATE LOCATION.
- 9. CONNECT TO EXISTING IN THIS APPROXIMATE LOCATION. REFER TO LARGE SCALE PLAN.
- 11. FOR CONTINUATION, SEE SITE SERVICES.
- ROOF ACCESS.
- CEILING ACCESS. BUILDING GAS SERVICE AND METER.

- 17. IRRIGATION WATER SERVICE. 18. ROUGH-IN HOT, COLD, WASTE AND VENT PIPING IN WALL FOR
- FUTURE FIXTURE.
- 20. MOUNT ON STAND. DRAIN TO CUSTODIAN SINK. GAS PRV (FROM 34kPa TO 3.5kPa) C/W ISOLATION VALVE. PROVIDE PRV VENT AS PER GAS CODE.

- 25. EXISTING TEMPERED MIXING VALVE.

- 15. CLEAN-OUT AT GRADE. REFER TO DETAIL.
- 16. RUN PIPE AT 2% SLOPE WHERE INDICATED BY DRAWING NOTE.

- PROVIDE 38mm TRAPPED WASTE AND 12mm VALVED HOT WATER SUPPLY TO SUIT DISHWASHER.
- GAS SUPPLY UP TO ROOF MOUNTED EQUIPMENT. REFER TO DETAIL.
- 23. EXTEND DOMESTIC WATER SERVICE TO THIS POINT AND DISTRIBUTE HOT AND COLD SUPPLY TO EACH FIXTURE IN THE
- 24. 75mm BUILDING VENT.

FOUNDATION & FLOOR PLANS - PLUMBING & DRAINAGE

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ISSUED FOR

Similkameen Elementary / Secondary School Upgrades, School District #53

LEARNING TODAY

Keremeos, B.C.

2016/04/11 ISSUED FOR PRICING

DESCRIPTION

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SEALS:

CONSULTANTS:

NO. DATE

PROJECT TITLE

DRAWING TITLE

PROJECT NO.

DESIGNED BY: TK DRAWN BY: JB EOR: REVIEWED BY: SCALE: AS NOTED DATE: APR, 2016

DRAWING NO.

s.15

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ELBOW DROPPING  ELBOW RISING  VALVE  CONTROL VALVES  SAFETY RELIEF VALVE  UNION OR FLANGE FITTING	17 PS 1	CHECK VALVE  BACKFLOW PREVENTOR  STRAINER
C.V. & C.V.	VALVE  CONTROL VALVES  SAFETY RELIEF VALVE	<del></del>	
C.V.	CONTROL VALVES  SAFETY RELIEF VALVE		STRAINER
\$ M.V.	SAFETY RELIEF VALVE	ĺ	S.Martin
 			REDUCERS
₹ M.V.	UNION OR FLANGE FITTING	-55	PUMP
<b>文</b> M.V.			COMBINATION BALANCING AND METERING VALVE
	FLEXIBLE CONNECTION		CONSTANT FLOW DEVICE
<del></del>	MANUAL AIR VENT	Ą.	AUTOMATIC AIR VENT
FS	THERMOMETER	₩-Ø	PRESSURE GAUGE
FS	FLOW SWITCH	626 7	AIR OR WATER FLOW IN L/S
PS	PRESSURE SWITCH		REFRIGERANT SIGHT GLASS
甲	WATER TEMPERATURE SENSOR	(C)	SQUARE ELBOW DUCT WITH TURNING VANE
P/T	PRESSURE TEMPERATURE PLUG	F/D	FIRE DAMPER
	ELECTRIC THERMOSTAT/TEMPERATURE SENSOR	M.O.D.	MOTOR OPERATED DAMPER
O	VISUAL FLOW INDICATOR	B.D.	BALANCING DAMPER
	SUPPLY OR OUTSIDE AIR DUCT UP OR FROM ABOVE	⊕ B.D.D.	GRAVITY OR BACKDRAFT DAMPER
	SUPPLY DUCT OR OUTSIDE AIR DUCT DOWN OR FROM BELOW	<u></u>	ROUND SUPPLY DIFFUSER
1 1/11 1	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	<u> </u>	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW	<u></u>	SQUARE OR RECTANGULAR DIFFUSER
	ROUND DUCT UP OR FROM ABOVE	→ 🗸	NON DUCTED RETURN OR EXHAUST GRILLE
	ROUND DUCT DOWN OR FROM BELOW	<b>→</b> ⊙	NON DUCTED ROUND RETURN OR EXHAUST GRILLE
	ACOUSTIC LINED DUCT		SUPPLY AIR BOOT DIFFUSER C/W FLEXIBLE DUCT
	FLEXIBLE CONNECTION		DUCT MOUNTED SUPPLY OR RETURN GRILLE
f	FLEXIBLE DUCTWORK		LINEAR SUPPLY OR RETURN GRILLE
	DOOR GRILLE	O O	WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE
DIFFUSER GRILLE REGISTER TYPE -		ENCLOSURE	A 1200W HEATING CAPACITY 1944 ACTIVE ELEMENT LENGTH
— нws —— н	HEATING WATER SUPPLY		HEAT PUMP WATER SUPPLY
— — HWR — —	HEATING WATER RETURN	— — HVACR — —	HEAT PUMP WATER RETURN
— CHS — C	CHILLED WATER SUPPLY	—— GSS ——	GROUND SOURCE SUPPLY
— — CHR — — (	CHILLED WATER RETURN	— — GSR — —	GROUND SOURCE RETURN
cds	CONDENSER WATER SUPPLY	RS	REFRIGERATION SUCTION
— — CDR — —	CONDENSER WATER RETURN	— —RL— —	REFRIGERATION LIQUID
<b>S</b>	AIR SEPARATOR	(((((((((((((((((((((((((((((((((((((((	HEAT TRACE
NOTE: NOT ALL	. SYMBOLS APPLY, REFER TO FLOOR PL	LANS AND DRAWI	NGS

HVAC SYMBOLS AND ABBREVIATIONS

s.15

BATHROOM FLOOR PLAN - HVAC 1 : 50

DRAWING NOTES APPLY WHERE INDICATED:

BEAM OVER.

BULKHEAD OR FURRING.

CAP FOR FUTURE.

4. EXISTING TO REMAIN IN SERVICE.

EXISTING TO BE ABANDONED. REMOVE AS REQUIRED TO SUIT NEW CONSTRUCTION.

EXISTING TO BE RELOCATED.

EXISTING TO BE REMOVED.

8. CAP EXISTING IN THIS APPROXIMATE LOCATION.

9. CONNECT TO EXISTING IN THIS APPROXIMATE LOCATION. 10. REFER TO LARGE SCALE PLAN.

11. FOR CONTINUATION, SEE SITE SERVICES.

12. ROOF ACCESS.

13. CEILING ACCESS. 14. DUCT IN JOIST SPACE. DUCT TIGHT TO UNDERSIDE OF STRUCTURE IN CEILING SPACE.

ALL DUCT RUNOUTS TO DIFFUSERS ARE TO BE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.

17. PROVIDE MANUAL VOLUME DAMPER. PROVIDE ACCESS AS

18. MOUNT GRILLE 200mm ABOVE FLOOR LEVEL.

19. DUCT UP TO GOOSENECK ON ROOF. 20. MOUNT AT HIGH LEVEL.

21. PROVIDE BACKDRAFT DAMPER AT BUILDING ENVELOPE PENETRATION. REFER TO SPEC.

22. PROVIDE TRANSITION FOR DUCT UNDER BEAM.

23. ELECTRIC HEAT BY OTHERS.

24. GRAVITY BACKDRAFT DAMPER. 25. PROVIDE FIRE DAMPER AT FIRE SEPARATION.

RE-BALANCE EXISTING GRILLE OR DIFFUSER TO NEW SPECIFIED AIR FLOW.

LEARNING TODAY Keremeos, B.C. DRAWING TITLE FLOOR PLAN - HVAC

REVIEWED BY:

DRAWING NO.

DATE:

Similkameen Elementary / Secondary School Upgrades, School District #53

DESIGNED BY: TK DRAWN BY: JB

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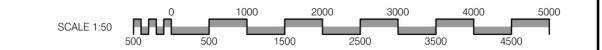
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APR, 2016

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- BEAM OVER.
- BULKHEAD OR FURRING.
- CAP FOR FUTURE.
- 4. EXISTING TO REMAIN IN SERVICE.
- 5. EXISTING TO BE ABANDONED. REMOVE AS REQUIRED TO SUIT NEW CONSTRUCTION.
- EXISTING TO BE RELOCATED.
- EXISTING TO BE REMOVED.
- 8. CAP EXISTING IN THIS APPROXIMATE LOCATION.
- 9. CONNECT TO EXISTING IN THIS APPROXIMATE LOCATION.
- 10. REFER TO LARGE SCALE PLAN.
- 11. FOR CONTINUATION, SEE SITE SERVICES.
- 12. ROOF ACCESS.
- CEILING ACCESS.
- GOOSENECK ON ROOF.
- GAS PRV (FROM 34kPa TO 3.5kPa) C/W ISOLATION VALVE. CONNECT TO ROOF TOP HEATING UNIT. REFER TO DETAIL.

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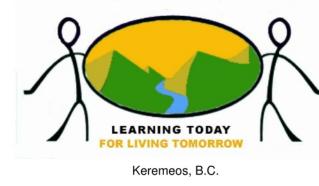
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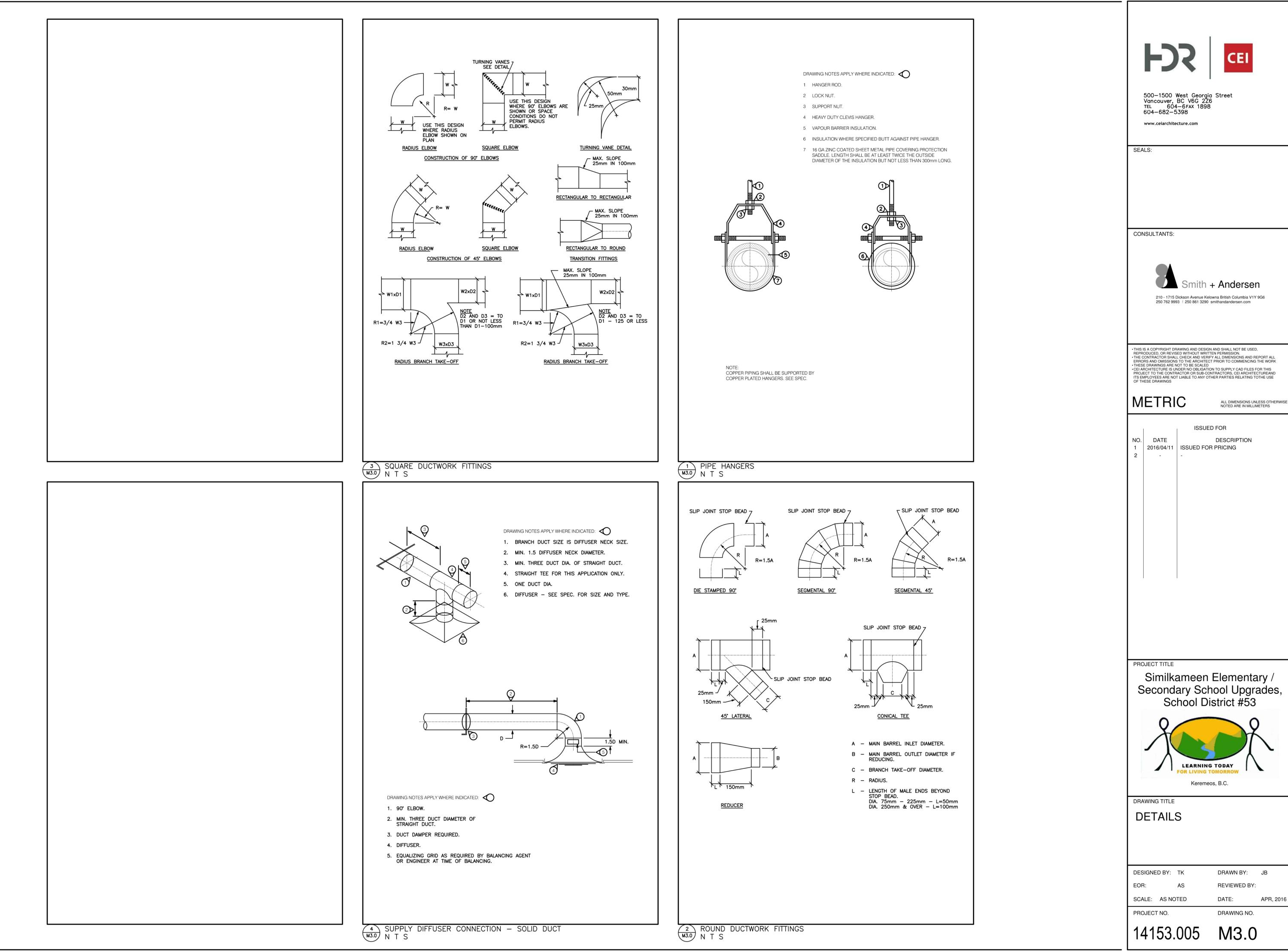
PRELIMINARY ROOF PLAN

DRAWN BY: JB DESIGNED BY: TK REVIEWED BY: SCALE: AS NOTED DATE: APR, 2016

> PROJECT NO. DRAWING NO.

14153.005

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s.15

 $\frac{1}{M4.0}$  BATHROOM FOUNDATION PLAN - PLUMBING & DRAINAGE DEMOLITION 1 : 50

BATHROOM FLOOR PLAN - PLUMBING & DRAINAGE DEMOLITION 1 : 50

s.15

DRAWING NOTES APPLY WHERE INDICATED:

- BEAM OVER. BULKHEAD OR FURRING.
- CAP FOR FUTURE.
- EXISTING TO REMAIN IN SERVICE.
- 5. EXISTING TO BE ABANDONED. REMOVE AS REQUIRED TO SUIT NEW CONSTRUCTION.
- EXISTING TO BE RELOCATED.
- EXISTING TO BE REMOVED.
- 8. CAP EXISTING IN THIS APPROXIMATE LOCATION.
- 9. CONNECT TO EXISTING IN THIS APPROXIMATE LOCATION.
- 10. REFER TO LARGE SCALE PLAN.

14. BUILDING GAS SERVICE AND METER.

- 11. FOR CONTINUATION, SEE SITE SERVICES.
- ROOF ACCESS.
- 13. CEILING ACCESS.

- 15. CLEAN-OUT AT GRADE. REFER TO DETAIL.
- PROVIDE 38mm TRAPPED WASTE AND 12mm VALVED HOT WATER SUPPLY TO SUIT DISHWASHER.
- 20. MOUNT ON STAND. DRAIN TO CUSTODIAN SINK.
- GAS PRV (FROM 34kPa TO 3.5kPa) C/W ISOLATION VALVE. PROVIDE PRV VENT AS PER GAS CODE.
- 23. EXTEND DOMESTIC WATER SERVICE TO THIS POINT AND DISTRIBUTE HOT AND COLD SUPPLY TO EACH FIXTURE IN THE
- 24. 75mm BUILDING VENT.
- 25. EXISTING TEMPERED MIXING VALVE.

16. RUN PIPE AT 2% SLOPE WHERE INDICATED BY DRAWING NOTE.

17. IRRIGATION WATER SERVICE.

- ROUGH-IN HOT, COLD, WASTE AND VENT PIPING IN WALL FOR FUTURE FIXTURE.

- 22. GAS SUPPLY UP TO ROOF MOUNTED EQUIPMENT. REFER TO

DRAINAGE DEMOLITION DESIGNED BY: TK

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DRAWN BY: JB EOR: REVIEWED BY: SCALE: AS NOTED DATE: APR, 2016 PROJECT NO. DRAWING NO.

Similkameen Elementary / Secondary School Upgrades, School District #53

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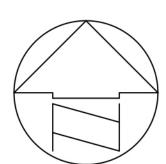
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FOUNDATION & FLOOR

PLANS - PLUMBING &

s.15 www.ceiarchitecture.com SEALS: CONSULTANTS: NO. DATE BATHROOM FLOOR PLAN - HVAC DEMOLITION
1 : 50 s.15 DRAWING NOTES APPLY WHERE INDICATED: PROJECT TITLE DUCT TIGHT TO UNDERSIDE OF STRUCTURE IN CEILING SPACE. BEAM OVER. BULKHEAD OR FURRING. 16. ALL DUCT RUNOUTS TO DIFFUSERS ARE TO BE DIFFUSER 3. CAP FOR FUTURE. NECK SIZE UNLESS OTHERWISE INDICATED. 4. EXISTING TO REMAIN IN SERVICE. 17. PROVIDE MANUAL VOLUME DAMPER. PROVIDE ACCESS AS EXISTING TO BE ABANDONED. REMOVE AS REQUIRED TO SUIT NEW CONSTRUCTION. 18. MOUNT GRILLE 200mm ABOVE FLOOR LEVEL. 6. EXISTING TO BE RELOCATED. 19. DUCT UP TO GOOSENECK ON ROOF. 20. MOUNT AT HIGH LEVEL. EXISTING TO BE REMOVED. 8. CAP EXISTING IN THIS APPROXIMATE LOCATION. 21. PROVIDE BACKDRAFT DAMPER AT BUILDING ENVELOPE PENETRATION. REFER TO SPEC. 9. CONNECT TO EXISTING IN THIS APPROXIMATE LOCATION. 22. PROVIDE TRANSITION FOR DUCT UNDER BEAM. REFER TO LARGE SCALE PLAN. 23. ELECTRIC HEAT BY OTHERS. 11. FOR CONTINUATION, SEE SITE SERVICES. Keremeos, B.C. 24. GRAVITY BACKDRAFT DAMPER. ROOF ACCESS. 25. PROVIDE FIRE DAMPER AT FIRE SEPARATION. DRAWING TITLE 13. CEILING ACCESS. 26. RE-BALANCE EXISTING GRILLE OR DIFFUSER TO NEW SPECIFIED AIR FLOW. 14. DUCT IN JOIST SPACE. DEMOLITION DESIGNED BY: TK EOR: 2 K E Y P L A N N T S SCALE: AS NOTED PROJECT NO. DRAWING NO.

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Similkameen Elementary / Secondary School Upgrades, School District #53



FLOOR PLAN - HVAC

DRAWN BY: JB REVIEWED BY: DATE: APR, 2016

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BOYS CHANGE ROOM - DEMOLITION
1:50

REFERENCE NOTES

RE POSITION AND RE ROUTE CONDUIT AND JUNCTION BOXES IN THIS AREA, TO POSITION THE JUNCTION BOXES ABOVE THE ACCESS HATCH.

2 ACCESS HATCH.

LUMINAIRE SCHEDULE							
TYPE	LUMINAIRE			LAMP			
TIPE	MANUFACTURER	CATALOGUE NO.	VOLT	LUMENS	POWER	COLOUR	NOTE
Α	KENALL	MLHA12-48-F-MW-CP-45L40K		4526	45W	4000K	-
В	KENALL	MLH5-48-F-MW-CP-45L40K-9500		4526	45W	4000K	1
С	LITHONIA	L3LED-T24-40PA-LED-4090CRI	120	650	10W	4000K	2

# NOTES

1. MOUNT TIGHT TO THE TOP OF MIRROR.

WET LISTED.

	OCCUPANCY SENSOR SCHEDULE					
TYPE	MANUFACTURER	CATALOGUE NO.	VOLT	REMARKS	SEE NOTE	
OS1	SENSORSWITCH	CMR9-PDT	120	DUAL TECHNOLOGY	1	

1. SET FOR AUTO ON-AUTO OFF AFTER 20 MINUTES.

# BOYS CHANGE ROOM - FLOOR PLAN 1:50

# REFERENCE NOTES

- 1 RE POSITION SPEAKER AS REQUIRED.
- (2) RE POSITION BELL AS REQUIRED.

- PROJECT GENERAL NOTES

  1. CONFIRM ALL CONDUITS ON SITE.
- 2. REPLACE BREAKER FOR HAND DRYER AS REQUIRED. 3. PROVIDE STAINLESS COVERPLATES. WHERE REQUIRED.

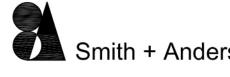


HDR | CEI Architecture Associates, Inc.

500-1500 West Georgia Street Vancouver, BC V6G 2Z6 Tel 604-687-1898 Fax 604-682-5398 www.ceiarchitecture.com

SEALS

CONSULTANTS



210 - 1715 Dickson Avenue Kelowna British Columbia V1Y 9G6 250 762 9993 f 250 861 3290 smithandandersen.com

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NO. | DATE DESCRIPTION 1 |- • • |

PROJECT TITLE

Similkameen Elemantary Secondary School Boys Shower Upgrade



School District #53 Keremeos, B.C.

FLOOR PLANS

DRAWN: GW

DATE: APR 2016

CHECKED BY: DL

SCALE: AS NOTED

PROJECT NO.

14153.005

DRAWING NO.

E-1



Phone: 250-492-3916 email: <a href="mailto:rob.nielsenroofing@shaw.ca">rob.nielsenroofing@shaw.ca</a> web site: www.nielsenroofing.ca

April 6, 2016

School District # 53 35061-101<sup>st</sup> Street Oliver, BC

Email: bporteous@sd53.bc.ca

Attention: Mr. Bruce Porteous

Re: Keremeos Elementary School - 13, 700 sq. ft. re-roofing budget price.

Roofing Quote # 9456

Dear Mr. Porteous,

To tear off existing roofing and flashing and dispose of the same,

#### **SUPPLY AND INSTALLATION WILL INCLUDE:**

- a) 28 lb. fire protection sheet.
- b) 3/16 asphaltic board.
- c) Fully torch 180 SBS base sheet.
- d) Strip all perimeters and walls with 180 S.B.S. membrane, complete with necessary stripping membrane.
- e) Fully torch 180 S.B.S. granular cap sheet, complete with cap stripping.
- f) All new galvanized iron roof jacks.
- g) All new aluminum flashing for existing plumbing vent.
- h) Drains to be new spun copper.
- All new pre-finished metal flashing.
- \$5,000,000.00 Liability Insurance and WCB Clearance letters upon request.

#### FOR THE BUDGET SUM OF \$ 125, 000.00 Plus GST

\*NOTE: If required, rotted wood deck replacement at \$3.00 per square foot.

Sincerely,

#### Robert Nielsen

NIELSEN ROOFING & SHEET METAL LTD.

"Quality Roofing in the Okanagan Valley since 1946."

# Southern Okanagan Secondary School, 6140 Gala Street, Oliver, BC

# School District No. 53 (Okanagan Similkameen)

# Sawdust Collection System Assessment Report

8 October 2015

### 1.0 Executive Summary

- 1) The comments in this report are based on a site survey dated 28 August, 2015.
- 2) The dust collector is not adequately sized to service the wood shop machinery.
- 3) The duct system is undersized for the machinery in
- 4) Explosion prevention and mitigation devices are not in place.
- 5) The sawdust collection system does not meet code for filtered air or explosion prevention/mitigation.
- 6) A major upgrade of this system is necessary to meet code. The mechanical upgrade is estimated at \$247,700.



### 2.0 - Discussion of Existing Sawdust Collection System

#### **Dust Collector**



#### Observations:

- An N.R. Murphy dust collector (Model MKAW-536-4D) is located in an exterior room which is open to the atmosphere.
- This unit can handle 4,050 cubic feet per minute (cfm) of airflow.
- The dust-generating machinery in the woodshop requires a total airflow of 4,600 cfm. This figure includes machinery that is currently connected and machinery that should be connected to the system.
- The dust collector is not adequately sized to service the machinery in the woodshop.

#### Recommendations:

Replace the dust collector with an adequately sized model or remove one to two machines from the woodshop to reduce the load on the dust collector.

#### Recirculated Air



#### Observations:

- The dust collector returns filtered air to the woodshop through the duct shown at left by the red arrow.
- At the design air flow of 4050 cfm, the unit has an air to filter cloth ratio of **7.2:1** which is above the desired ratio of **5:1** for air returned to a work area.

#### Recommendations:

- Replace the dust collector with a larger unit with adequate filter media to meet the required air to filter cloth ratio of 5:1.
- Install a spark detection device and ensure it is interlocked with the dust collector stop switch.

## **Explosion Ventilation Configuration**



#### Observations:

- The dust collector is equipped with explosion relief panels.
- The main duct feeding the dust collector is not equipped with a blowback damper, nor is it equipped with a spark detection device.
- The location of the dust collector negates the need for explosion ducting.
- The return air duct is not equipped with an abort gate.

#### Recommendations:

- Install a main duct that includes a blowback prevention damper and a spark detection device.
- Install an abort gate on the return air duct.

# **Ducting**



#### Observations:

- The main circular duct that feeds into the dust collector has a diameter of 10 inches. At the desired stream velocity, this duct can carry **2,200** cubic feet per minute (cfm). Current demand is **4,600** cfm.
- The main duct is undersized for the equipment in the woodshop.

#### Recommendations:

- Replace the main duct with an adequately sized duct.
- Include a blowback prevention damper and a spark detection device.



#### Observations:

 The spindle sander shown at left is not connected to the dust collection system.

#### Recommendations:

 Connect this machine to the dust collection system.



#### Observations:

 Foil tape has been used in several locations within the woodshop to seal collection ducts.

#### Recommendations:

Remove foil tape and replace with duct sealant.

### 3.0 - Housekeeping



#### Observations:

 Housekeeping in the shop was observed to be generally good on the day of our visit.

#### Recommendations:

None

## 4.0 - Considerations for Mechanical System Upgrade

The sawdust collection system fails to meet codes and regulations on several points. We recommend a major upgrade of the system to rectify these failures. A major upgrade would involve the replacement of the existing dust collector and the existing duct system.

Since it is a well-built machine, the existing N.R. Murphy dust collector could be relocated to another shop in the District that matches the specifications.

Explosion protection devices are needed to meet code. A blowback prevention damper, a spark detection device and an abort gate must be included in the upgrade.

A new duct system should be mounted from the ceiling with the existing sub-floor duct system abandoned in place to avoid the cost of removal.

Guy Harding, P. Eng

#### Southern Okanagan Secondary School, 6140 Gala St., Oliver, BC 8-Oct-2015 Sawdust Collection System Upgrade Estimate **TOTAL** man Demolition day \$800 /man day \$3,200 @ **New Dust Collector** \$58,000 units @ /units \$58,000 Installation + Hoisting units (a) \$10,000 /units \$10,000 Chainlink Fence + Concrete units Pad 0 @ \$5,000 /units \$0 \$8,000 Blowback Prevention Damper 1 units \$8,000 /units @ Spark detection device. 1 units @ \$6,000 /units \$6,000 Abort Gate 1 units \$8,000 /units \$8,000 @ Safety Devices Required on Systems more than 5000 cfm Device 1 0 units \$1,000 /units \$0 @ Device 2 0 units @ \$2,000 /units \$0 Device 3 0 units \$4,000 /units \$0 @ New Equipment Pickup 12 pickup \$1,500 /pickup \$18,000 @ New Branch- Machine to Main \$1,000 /pickup \$12,000 12 pickup @ **New Main Duct** pickup /pickup \$12,000 12 @ \$1,000 \$10,000 /units Recirculation System 1 units \$10,000 Carpentry 1 allow /allow \$2,500 \$2,500 @ Roofing 0 allow \$2,500 /allow \$0 @ Electrical 1 units \$5,000 /units \$5,000 @ Subtotal \$152,700 \$152,700 Escalation (current US\$ exchange & travel time) 30% \$45,900 \$45,900 Misc and Contingency 15% \$23,000 \$23,000 Fees and Disbursements 12% \$18,400 \$18,400 taxes (GST) \$7,700 5% \$7,700 PROJECT TOTAL \$247,700

28-Mar-2016

					Т	OTAL
Demolition	4	man day	@	\$800 /man day	\$3,200	
New Dust Collector System (5,500 cfm)	1	units	@	\$58,000 /units	\$58,000	
Blowback Prevention Damper	1	units		included		
Abort Gate	0	units		n/a		
Spark Detection System	0	units		n/a		
Silencer on dust collector outlet	1	units		included		
Safety Filter	0	units		n/a		
Commissioning	1	units		included		
Freight to Oliver	1	units		included		
				<b>440,000</b> / 11	440.000	
Installation + Hoisting		units	@	\$10,000 /units	\$10,000	
Concrete Slab		units	@	\$7,500 /units	\$7,500	
Chainlink Enclosure	1	units	@	\$2,000 /units	\$2,000	
New Equipment Pickup	12	pickup	@	\$1,500 /pickup	\$18,000	
New Branch lines from Woodshop Equipment to Main	12	pickup	@	\$1,000 /pickup	\$12,000	
New Main Duct	12	pickup	@	\$1,000 /pickup	\$12,000	
Electrical Works	1	units	@	\$21,000 /units	\$21,000	
Carpentry	2	allow	@	\$2,000 /allow	\$4,000	
Roofing	0	allow	@	\$3,000 /allow	\$0	
otal					\$147,700	\$147
alation			18%		\$26,600	\$26
and Contingency			15%		\$22,200	\$22
and Disbursements			12%		\$17,800	\$17
s (GST)			5%		\$7,400	\$7

# Similkameen Elementary Secondary School

Keremeos, B.C.

# School District No. 53 (Okanagan Similkameen) Mechanical Systems Assessment Report

11 April 2016



# 1.0 Executive Summary

- The school appears to be well utilized and is well populated.
- The existing mechanical systems are in FAIR to POOR condition. Many systems are at the end of the service life.
- The existing mechanical systems are not CONFIGURED to good engineering practice.
- The existing mechanical systems cannot be CONTROLLED to match the loads.
- The existing mechanical systems are not configured for ease of MAINTENANCE, especially during the heating season.
- The existing mechanical systems use a disproportionate amount of ENERGY.
- The Building is a combustible construction but has not been provided with a fire protection system
- Significant upgrades to ventilation and plumbing systems are required to bring systems to good design practices, guidelines and standards.

- The proposed partial mechanical upgrade will save over 17 Tonnes of CO₂ and \$4,496 per year.
- The simple payback as compared to a conventional rooftop unit upgrade is 5 years.

# 2.0 Description of Existing Building

- Area of building: 6,157 m²
- Original buildings (started as two building) date: 1960's. Additions were in 1989, 1992, 1995, and 2007.
- Description of existing building: The building is single storey with combustible construction. There are a number of structural systems and building configurations.

# 3.0 Discussion of Existing Mechanical Systems

# **Terminal Equipment**

Terminal equipment for occupied areas are based on roof top units. The	Terminal units will need to
bulk of these systems were installed in 1989 addition. These systems are	be upgraded.
at the end of the service life.	
The contribution of the deliterated as also contributed as a large of the contributed as a large	
The outside air is delivered to the zone through the unit but the unit	
cannot temper the air adequately without having draft complaints.	
Terminal units for unoccupied areas such as entry ways and perimeter	Perimeter heating systems
ancillary are electric force flow, unit heater or baseboard heating systems.	will need to be upgraded.
Many zones have high ceilings (10 feet and higher). Stratification (heat	Duct system will need to
migrating to the ceiling in heating season) is an effect that causes cool	be upgraded to include low
conditions to occur in the occupied zone (cool complaints). As well,	level returns.
excessive energy usage occurs as the hot supply air is short-circuited to	
the return openings.	
The zoning or temperature control is very poor for the building. Many	Zone control will need to
zones are served by one unit or many units serve one zone.	be upgraded so that one
	terminal unit serves one
	zone.

# **Controls**

The building is serviced by a current digital control system. This system will require minor reconfiguration to suit the upgrades proposed for other systems.	Control system will need to be modified to suit the upgrade.
The building has not been provided with carbon dioxide sensors in the occupied zones. Carbon dioxide sensors can be used to optimize and maintain appropriate outside air levels.	Control systems will need to be upgraded with CO <sub>2</sub> Sensors.
The electric heating systems are not controlled though the DDC. Energy can be saved by controlling these heating systems through DDC otherwise they will roll back to night setback temperatures with the remainder of the building.	Electric heated need to be upgraded to DDC System.

# **Exhaust Air Systems**

Finishing Booth – exhaust systems are not configured for VOC or spray based paints.	The finishing room systems must be upgraded, however this is beyond the scope of the present report.
Metal Shop - Forge area and welding area systems do not comply with current safety guidelines and good engineering practice. systems do not comply with current safety guidelines and good engineering practice	Metal shop exhaust systems need to be upgraded.
Automotive - Carbon monoxide and Parts cleaning tank exhaust systems do not comply with current safety guidelines and good engineering practice.	Automotive exhaust systems need to be upgraded.
Science Fume Hood – Fume hood and exhaust systems do comply with current ASHRAE 110, but they do meet the code the day that they were installed.	Science room fume hoods will need to be upgraded.
Art Room –Kiln exhaust systems do not comply with current guidelines and good engineering practice.	Art Room exhaust systems need to be upgraded.

## **Plumbing Systems**

The Domestic Hot Water heater is a gravity vented type. These systems	Provide new sealed
are inefficient and waste energy due to excessive standby losses.	combustion domestic hot
	water heaters.

## Safety and Environmental Protection Plumbing Systems

Emergency eyewashes and showers that are plumbed into the domestic	Emergency eyewashes and
water systems to meet current safety guidelines have not been provided	showers will need to be
except for the science area. The science area will require water tempering	upgraded for the science
systems to meet the regulations.	and shop areas.
Flammable storage cabinets in the finishing room, science prep room and	Flammable storage cabinet
art room have not been vented according to manufactures and WorkSafe	and venting systems will
guidelines.	need to be upgraded.

## **Fire Protection Systems**

Fire protection sprinkler systems have not been provided for this facility.	Fire protection systems
This facility is the only school in Keremeos.	should be considered for
	this facility.

### 4.0 Considerations for Mechanical System Upgrade

Caveat. This review is intended to provide a quick review of the conditions and configuration of the existing mechanical systems where they are apparent. The main purpose of this report is to identify and then develop budgets for upgrades to mechanical systems. If a condition exist but is not apparent, then it may not be addressed in this report. This report must be review by staff familiar with the building to indicate and address any conditions not presented here.

A mechanical upgrade to the existing mechanical system will improve the operation, comfort, energy consumption and maintenance of the facility. We recommend a roof top air source heat pump system that can be easily phased if necessary. New condensing domestic hot water heaters should also be installed. Note that this application includes partial upgrades to the secondary wing only. The elementary wing will be considered in a future phase.

Andrew Stringer P.Eng.

Page 5 of 8

11 April 2016

# Appendix A – Budgetary Guidance

													16-A
CNODARY WING MECHANICAL SYSTE	MSU	PGRAD	E										
	qty			Equipment Unit Cost	Duct Unit Cost	Piping Unit Cost	Total Unit Cost		Equipment Cost	Duct Cost	Piping Cost	Total Cost	т
	qty												
Air Source Heat Pump with Economizer - 21/2 ton	15	Unit	@	\$7,000	\$10,000	\$1,500	\$18,500	/Unit	\$105,000	\$150,000	\$22,500	\$277,500	
Relief Air Gooseneck	1	Thing	@	\$2,000	\$3,000	\$0	\$5,000	/Thing	\$2,000	\$3,000	\$0	\$5,000	
Large Single Zone Rooftop Unit with Economizer - 1000	1	Unit	@	\$71,000	\$54,000	\$1,500	\$126,500	/Unit	\$71,000	\$54,000	\$1,500	\$126,500	
Large Single Zone Rooftop Unit with Economizer - 7000	2	Unit	@	\$54,000	\$41,000	\$1,500	\$96,500	/Unit	\$108,000	\$82,000	\$3,000	\$193,000	
Kitchen Make Up Air Unit	1	Unit	@	\$17,000	\$2,000	\$1,500	\$20,500	/Unit	\$17,000	\$2,000	\$1,500	\$20,500	
Kitchen Condesning Unit	1	Unit	@	\$4,000	\$0	\$1,000	\$5,000	/Unit	\$4,000	\$0	\$1,000	\$5,000	
Acoustic Fire Rated Transfer Duct	15	Unit	@	\$0	\$1,000	\$0	\$1,000	/Unit	\$0	\$15,000	\$0	\$15,000	
DHW Tank - Condesning Gas	2	Unit	@	\$9,000	\$0	\$2,000	\$11,000	/Unit	\$18,000	\$0	\$4,000	\$22,000	
DHW Pump	1	Unit	@	\$250	\$0	\$250	\$500	/Unit	\$250	\$0	\$250	\$500	
Range Hood - Residential	8	Unit	@	\$150	\$150		\$300	/Unit	\$1,200	\$1,200	\$0	\$2,400	
Hood - Forge & Melting Crucible	1	Unit	@	\$12,000	\$12,000		\$24,000	/Unit	\$12,000	\$12,000	\$0	\$24,000	
Industrial Vent Set - Roof Mount	1	Unit	@	\$4,000	\$4,000		\$8,000	/Unit	\$4,000	\$4,000	\$0	\$8,000	
Square Panel - Roof Mount	2	Unit	@	\$800	\$800		\$1,600	/Unit	\$1,600	\$1,600	\$0	\$3,200	
CO - Overhead Flexible	2	Unit	@	\$2,400	\$2,400		\$4,800	/Unit	\$4,800	\$4,800	\$0	\$9,600	
Science Fume Hood (ASHRAE 110)	1	Unit	@	\$10,000	\$10,000	\$2,500	\$22,500	/Unit	\$10,000	\$10,000	\$2,500	\$22,500	
Custodial Sink	1	Unit	@	\$1,000		\$1,500	\$2,500	/Unit	\$1,000	\$0	\$1,500	\$2,500	
Eyew ash/Show er and TMV	3	Unit	@	\$2,500		\$2,500	\$5,000	/Unit	\$7,500	\$0	\$7,500	\$15,000	
Acid Neutralizer	1	Unit	@	\$7,000		\$5,000	\$12,000	/Unit	\$7,000	\$0	\$5,000	\$12,000	
Controls - Typical Controls Devices	175	Point	@	\$600			\$600	/Point	\$105,000	\$0	\$0	\$105,000	
Controls - CO2 Sensors or Motion Detectors	18	Point	@	\$1,200			\$1,200	/Point	\$21,600	\$0	\$0	\$21,600	
Balancing	1	Unit	@				\$10,000	/Unit	\$0	\$0	\$0	\$10,000	
chanical Subtotal									\$500,950	\$339,600	\$50,250	\$900,800	\$9
Seekly Seek Seekly Linkshop	4	Unit	@				\$2,500	/Unit	\$0	\$0	\$0	\$10,000	
Bectric - Force Flow , Unit Heat	4	Unit	@				\$1,500	/Unit	\$0	\$0	\$0	\$6,000	
Electric - Baseboard	20	Unit	@				\$1,800	/Unit	\$0	\$0	\$0	\$36,000	
Electrical Connections	1,500						\$1,000		\$0	\$0	\$0	\$15,000	
Carpentry - Remove and Reinstall T-Bar Panels	20	Sq.m. Unit	@				\$1,000	/Sq.m. /Unit	\$0 \$0	\$0	\$0 \$0	\$15,000	
Carpentry - Curb and Support for Rooftop Unit or Small			@				\$300		\$0 \$0	\$0	\$0 \$0		
Roof Penetration	7	Unit	@					/Unit		+-		\$2,100	
Cutting and Patching Roofing - Roof Jack	1 23	Allow. Unit	@				\$3,000 \$350	/Allow. /Unit	\$0 \$0	\$0 \$0	\$0 \$0	\$3,000 \$8,050	
	20		@						\$0 \$0	\$0 \$0	\$0 \$0		
Roofing - Small Curb		Unit	@				\$1,200	/Unit				\$24,000	
Roofing - Large Curb	3	Unit	@				\$2,500	/Unit	\$0	\$0	\$0	\$7,500	
her Trades Subtotal									\$0	\$0	\$0	\$131,650	\$13
Demolition			1.5%									\$15,500	
Misc (Mobilization, Bonding, Permits, Inspection Fees)			2%									\$20,700	
Escalation (increses from typical Budgets or Location	Factor)		10%									\$103,300	
												\$139,500	\$1
												\$58,600	\$
			5%										
neral Subtotal			5%										\$1,2
eneral Subtotal taxes			1%									\$12,400	\$1,2 \$
taxes												\$12,400 \$123,100	
taxes  DTAL CONSTRUCTION BUDGET  Asbestos Allowance			1%										\$

													16-Apr-1
RE PROTECTION UPGRADE													
				Equipment	Duct	Piping	Total		Equipment	Duct	Piping	Total	
	qty			Unit Cost	Unit Cost	Unit Cost	Unit Cost		Cost	Cost	Cost	Cost	TOTA
Sprinkler Main Floor and Mezanines	6,800	Sq.m	@			\$35	\$35	/Sq.m	\$0	\$0	\$238,000	\$238,000	
Sprinkler Craw Ispace	6,700	Sq.m	@			\$25	\$25	/Sq.m	\$0	\$0	\$167,500	\$167,500	
New Water Service	1	Unit	@			\$20,000	\$20,000	/Unit	\$0	\$0	\$20,000	\$20,000	
New Sprinkler Service Inside Station	1	Unit	@			\$12,000	\$12,000	/Unit	\$0	\$0	\$12,000	\$12,000	
Large DCVA	1	Unit	@	\$2,500		\$5,000	\$7,500	/Unit	\$2,500	\$0	\$5,000	\$7,500	
lechanical Subtotal									\$2,500	\$0	\$442,500	\$445,000	\$445,00
Other Trades Subtotal									\$0	\$0	\$0	\$0	4
Other Trades Subtotal  Demoition			0.0%						\$0	\$0	\$0	\$0 \$0	4
	·)		0.0%						\$0	\$0	\$0		•
Demoition									\$0	\$0	\$0	\$0	\$
Demoition Msc (Mobilization, Bonding, Permits, Inspection Fees Escalation (increses from typical <b>Budgets</b> or <b>Locat</b>			6%						\$0	\$0	\$0	\$0 \$26,700	
Demoition Msc (Mobilization, Bonding, Permits, Inspection Fees Escalation (increses from typical <b>Budgets</b> or <b>Locat</b>			6%						\$0	\$0	\$0	\$0 \$26,700 \$66,800	\$93,50
Demoition Misc (Mobilization, Bonding, Permits, Inspection Fees Escalation (Increses from typical Budgets or Locat Seneral Subtotal taxes			6% 15%						\$0	\$0	\$0	\$0 \$26,700 \$66,800 \$93,500	\$93,50 \$27,00
Demoition Misc (Mobilization, Bonding, Permits, Inspection Fees Escalation (Increses from typical Budgets or Locat Seneral Subtotal taxes			6% 15%						\$0	\$0	\$0	\$0 \$26,700 \$66,800 \$93,500	\$93,50 \$27,00 \$565,50
Demoition Msc (Mobilization, Bonding, Permits, Inspection Fees Escalation (increses from typical Budgets or Locat Seneral Subtotal taxes  OTAL CONSTRUCTION BUDGET			6% 15% 5%						\$0	\$0	\$0	\$0 \$26,700 \$66,800 \$93,500 \$27,000	\$93,50 \$27,00 \$565,50 \$17,00
Misc (Mobilization, Bonding, Permits, Inspection Fees Escalation (increses from typical Budgets or Locat General Subtotal taxes  TOTAL CONSTRUCTION BUDGET  Asbestos Allowance			6% 15% 5%						\$0	\$0	\$0	\$0 \$26,700 \$66,800 \$93,500 \$27,000	\$93,50 \$27,00 \$565,50 \$17,00 \$56,60 \$67,90

# Appendix B - Projected Energy Savings

	SIMILKAMEEN ELEMENTARY SECONDARY (PARTIAL UPGRADE)										
1,301	sq m								8-Apr-16		
	Consumption	n for Exist	ing Con	figuratio	n Based	on 2011 to	2013 D	ata			
	GJ	kWhr	Tonne	GJ/	kWhr/	\$	\$/	\$/	\$/		
	GJ	KVVIII	CO <sub>2</sub>	sq.m.	sq.m	Φ	GJ	kWhr	sq.m		
Natural Gas	542	150,508	26.9	0.42	116	\$8,398	\$15.50	\$0.056	\$6.45		
Electricity	337	93,484	2.1	0.26	72	\$7,946	\$23.61	\$0.085	\$6.11		
TOTAL	878	243,991	29.0	0.68	188	\$16,344	\$18.61	\$0.067	\$12.56		

Anticip	oated Cons	sumption a	after Hea	at Pump	and Don	nestic Hot	Water U <sub>l</sub>	ograde	
	GJ	kWhr	Tonne	GJ/	kWhr/	¢	\$/	\$/	\$/
	GJ	KVVIII	CO <sub>2</sub>	sq.m.	sq.m	Ф	GJ	kWhr	sq.m
Natural Gas	200	55,688	10.0	0.15	43	\$3,107	\$15.50	\$0.056	\$2.39
Electricity	370	102,832	2.3	0.28	79	\$8,741	\$23.61	\$0.085	\$6.72
TOTAL	571	158,520	12.2	0.44	122	\$11,848	\$20.76	\$0.075	\$9.11

				;	Savings					
		GJ	kWhr	Tonne	GJ/	kWhr/	¢	\$/	\$/	\$/
		GJ	KVVIII	CO <sub>2</sub>	sq.m.	sq.m	Ф	GJ	kWhr	sq.m
Natural Gas	63%	341	94,820	16.9	0.26	73	\$5,291	\$15.50	\$0.056	\$4.07
Electricity	-10%	-34	-9,348	-0.2	-0.03	-7	-\$795	\$23.61	\$0.085	-\$0.61
TOTAL	35%	308	85,471	16.7	0.24	66	\$4,496	\$14.61	\$0.053	\$3.46

Addition Above Conventional Cost \$22,500 \$/sq.m \$17 Simple Payback in Years 5 \$/Ton \$1,344

No:	NAME: Similkameen Elem	entary Secondary (PAR	TIAL HVAC	Type: RTU								
ID	Item	Comment	Qty	Location	Qty	Location	Qty	Location	Qty	Location	Q: Red	•
PRIMAR	Y HVAC SYSTEMS											
	Relief Air Gooseneck		1	Roof			т.		Т		1	Unit
TERMIN	AL HVAC SYSTEMS											
	Roof Top Unit - Large - Heat/Coo	I PRE-PURCHASE	1	Gym	2	Shop	$\overline{}$	Theater	Т		3	Unit
	Roof Top Unit - Large - Heat/Coo	INSTALL	1	Gym	2	Shop		Theater			3	Unit
	Roof Top Unit - Large - Heat Only			Gym		Shop	1	Kitchen			1	Unit
	Roof Top Unit - Large - Heat Only	INSTALL	0	Gym	0	Shop	1	Kitchen			1	Unit
	Roof Top Unit - Small PRE-PURG			Class	_		+				15	Unit
	Roof Top Unit - Small INSTALL			Class							15	Unit
	Electric Heat - Force Flow, Unit H	eat		Entry/Stair		Storage					4	Unit
	Split System AC			Class		Server					1	Unit
	Low Level Retrurn			All							15	Unit
	Acoustic Transfer with Fire Dampe	er		Class							15	Unit
DEDICA	TED EXHAUST PICKUP	-										
A	Small Ceiling Grille			Elect Rm	$\overline{}$	Dark Room	$\overline{}$	Storage - Sm.	8	W/R - Single	8	Unit
D	Hood - Forge & Melting Crucible			Metal	_		+	otorago om	-	TTTT OILIGIT	1	Unit
D	Slotted Back - Pick Up			Welding	1	Paint	1	Kiln			2	Unit
D	Articulating Arm			Welding	Τ.	Solder	+-				2	Unit
D	CO - Overhead Flexible			Auto	_	00.00.	_				3	Unit
D	Science Fume Hood (ASHRAE 11	0)		Science	_	Prep	+				1	Unit
_	ST SYSTEMS	<u> </u>		00101100		1.00						OTTIL
В	Square Panel - Roof Mount		4	Roof	_						4	Unit
D	Industrial Vent Set - Roof Mount			Roof	_		+				4	Unit
_	ENCY PLUMBING FIXTURES		-	11001							-	OTHE
LINEITO	Eyewash - New, TMV - New		1	Woodshop	_	Tech Ed		Electricity		Physics	1	Unit
	Eyewash/Shower - New, TMV - No	aw a		Metalshop	_	Autoshop	1	Science	0	Chem Prep	2	Unit
CROSS	CONTAMINATION			Wickelbriop		тицоэнор		Colonico		Опситтор	-	OTHE
011000	Large DCVA - Fire Protection Sys	tems	1	Sprinkler		Premise	_	Irrigation			1	Unit
EL AMM	ABLE STORAGE CABINET	terris		Opinikioi		1 10111130		irrigation				OTHE
LAMM	New Cabinet - New 2" Sched 40 S	Steel Vent Thru Roof	1	Chem Storage	_	Autoshop	1	Finishing	1	Art	3	Unit
	Cabinet OK - New 2" Sched 40 St			Chem Storage	_	Autoshop	+ '-	Finishing	<u> </u>	Art	1	Unit
FIRE PR	OTECTION SYSTEMS	cor vent mile ricer		Onom Otorage		тилоопор		rimoring		7 11 1		OTIL
	Water Entry		1	Sprinkler Station	_		_				1	Unit
	Sprinkler Remainder of Building		6700		_		_				6700	Sq.m
	Sprinkler crawlspace		6700		_		+		+		6700	Sq.m
	new service		1	7 41	_		+				1	allow
BIIII DIN	IG ENVELOPE											anow
DOILDII	Re and Re T-Bar				$\overline{}$		_				1125	Sq.m
	asbestos		1		_		+				1	Unit
MISC	usbestos											OTIN
	Permits & Inspection Fees				_						19	Unit
	Demolition										10%	% of
	Bonding				+		+				1%	% of
GRAND											. ,,,	70 01
Area:		n.: (Secondary Wing)										
Zones:	19	(Cooolidary 1111ig)			_		+					+

No:	NAME: Similkameen El					Itemiz	ed Unit R	ate				
D	Item	Equip. Cost	Duct Install	Pipe Install	Insul.	Bal. & Comm.	Control	Elect	Cut & Patch	Roof	Ove Unit F	
PRIMAR	Y HVAC SYSTEMS											1.0
	Relief Air Gooseneck	\$2,000	\$2,000		\$1,000	\$200	\$500		\$500	\$500	\$6,700	/Unit
<b>TERMIN</b>	AL HVAC SYSTEMS											
	Roof Top Unit - Large - Heat	\$40,000									\$40,000	/Unit
	Roof Top Unit - Large - Heat		\$25,000	\$1,500	\$2,500	\$200	\$5,000	\$5,000	\$3,000	\$2,000	\$44,200	/Unit
	Roof Top Unit - Large - Heat	\$17,000									\$17,000	/Unit
	Roof Top Unit - Large - Heat	\$0	\$2,000	\$1,500	\$2,500	\$200	\$3,500	\$5,000	\$2,500	\$2,000	\$19,200	/Unit
	Roof Top Unit - Small PRE-P	\$7,000									\$7,000	/Unit
	Roof Top Unit - Small INSTA	\$0	\$0	\$1,000	\$1,500	\$200	\$3,500	\$1,500	\$1,000	\$1,500	\$10,200	/Unit
	Electric Heat - Force Flow, Ur						\$1,000	\$2,500			\$3,500	/Unit
	Split System AC	\$3,500	\$3,500	\$2,000	\$500		\$1,000	\$1,000			\$11,500	/Unit
	Low Level Retrurn	\$250	\$500			\$25			\$500		\$1,275	/Unit
	Acoustic Transfer with Fire Da	\$150	\$800						\$200		\$1,150	/Unit
DEDICA	TED EXHAUST PICKUP											
A	Small Ceiling Grille	\$50	\$50			\$25	\$500				\$625	/Unit
)	Hood - Forge & Melting Cruci	\$12,000	\$12,000			\$100	\$500	\$1,000	\$2,000		\$27,600	/Unit
)	Slotted Back - Pick Up	\$1,000	\$1,000			\$100	\$500				\$2,600	/Unit
)	Articulating Arm	\$1,200	\$1,200			\$100	\$500				\$3,000	/Unit
)	CO - Overhead Flexible	\$2,400	\$2,400			\$100	\$500				\$5,400	/Unit
)	Science Fume Hood (ASHRA	\$13,000	\$13,000			\$150		\$1,500	\$1,000		\$28,650	/Unit
EXHAUS	ST SYSTEMS											
3	Square Panel - Roof Mount	\$600	\$600		\$500	\$100	\$500	\$750	\$250	\$500	\$3,800	/Unit
)	Industrial Vent Set - Roof Mou	\$3,500	\$3,500		\$500	\$100	\$500	\$1,500	\$1,000	\$1,000	\$11,600	/Unit
MERG	ENCY PLUMBING FIXTURES											
	Eyewash - New, TMV - New	\$1,200		\$1,200							\$2,400	/Unit
	Eyewash/Shower - New, TMV	\$2,400		\$2,400							\$4,800	/Unit
CROSS	CONTAMINATION											
	Large DCVA - Fire Protection	\$2,500		\$5,000							\$7,500	/Unit
LAMM	ABLE STORAGE CABINET											
	New Cabinet - New 2" Sched	\$2,000		\$500					\$250	\$250	\$3,000	/Unit
	Cabinet OK - New 2" Sched 4			\$500					\$250	\$250	\$1,000	/Unit
IRE PR	OTECTION SYSTEMS											
	Water Entry			\$15,000							\$15,000	/Unit
	Sprinkler Remainder of Buildi			\$35							\$35	/Sq.m
	Sprinkler crawlspace			\$25							\$25	/Sq.m
	new service			\$20,000							\$20,000	/allow
BUILDIN	IG ENVELOPE											
	Re and Re T-Bar								\$10		\$10	/Sq.m
	asbestos								\$20,000		\$20,000	/Unit
MISC												
	Permits & Inspection Fees			\$500								
	Demolition	bour										
	Bonding	tal										
GRAND	TOTAL											
Area:	1301											
ones:	19											

No:	NAME: Similkameen El					Splits					Sub	15%	20%	10%	12%	5%	PROJECT	PHASE	PHASE
D	Item	Equip. Cost	Duct Install	Pipe Install	Insul.	Bal.	Control	Elect	Cut & Patch	Roof	Total	Location Factor	Escal ation	Contin gency	Fee & Disb.	Taxes	TOTAL A S E	1	2
RIMAR	Y HVAC SYSTEMS	\$2,000	\$2,000	\$0	\$1,000	\$200	\$500	\$0	\$500	\$500	\$6,700	\$1,100	\$1,400	\$700	\$900	\$400	\$11,200	\$0	\$11,200
	Relief Air Gooseneck	\$2,000	\$2,000	\$0	\$1,000	\$200	\$500	\$0	\$500	\$500	\$6,700	\$1,100	\$1,400	\$700	\$900	\$400	\$11,200 2	\$0	\$11,2
ERMIN	AL HVAC SYSTEMS	\$251,500	\$100,000	\$23,000	\$33,000	\$4,175	\$76,000	\$53,500	\$37,000	\$30,500	\$608,675	\$91,600	\$122,000	\$61,200	\$73,400	\$30,800	\$987,675	\$392,300	\$595,375
	Roof Top Unit - Large - Heat	\$120,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120,000	\$18,000	\$24,000	\$12,000	\$14,400	\$6,000	\$194,400 1	\$194,400	
	Roof Top Unit - Large - Heat	\$0	\$75,000	\$4,500	\$7,500	\$600	\$15,000	\$15,000	\$9,000	\$6,000	\$132,600	\$19,900	\$26,600	\$13,300	\$16,000	\$6,700	\$215,100 2	\$0	\$215,
	Roof Top Unit - Large - Heat	\$17,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,000	\$2,600	\$3,400	\$1,700	\$2,100	\$900	\$27,700 1	\$27,700	
	Roof Top Unit - Large - Heat	\$0	\$2,000	\$1,500	\$2,500	\$200	\$3,500	\$5,000	\$2,500	\$2,000	\$19,200	\$2,900	\$3,900	\$2,000	\$2,400	\$1,000	\$31,400 2	\$0	\$31,
	Roof Top Unit - Small PRE-P	\$105,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$105,000	\$15,800	\$21,000	\$10,500	\$12,600	\$5,300	\$170,200 1	\$170,200	
	Roof Top Unit - Small INSTA	\$0	\$0	\$15,000	\$22,500	\$3,000	\$52,500	\$22,500	\$15,000	\$22,500	\$153,000	\$23,000	\$30,600	\$15,300	\$18,400	\$7,700	\$248,000 2	\$0	\$248.0
	Electric Heat - Force Flow, Ur	\$0	\$0	\$0	\$0	\$0	\$4,000	\$10,000	\$0	\$0	\$14,000	\$2,100	\$2,800	\$1,400	\$1,700	\$700	\$22,700 2	\$0	\$22.
	Split System AC	\$3,500	\$3,500	\$2.000	\$500	\$0	\$1,000	\$1,000	\$0	\$0	\$11,500	\$1,800	\$2,300	\$1,200	\$1,400	\$600	\$18,800 2	\$0	\$18,
	Low Level Retrurn	\$3,750	\$7,500	\$0	\$0	\$375	\$0	\$0	\$7,500	\$0	\$19,125	\$2,900	\$3,900	\$2,000	\$2,300	\$1,000	\$31,225 2	\$0	\$31,2
	Acoustic Transfer with Fire Da	\$2,250	\$12,000	\$0	\$0	\$0	\$0	\$0	\$3,000	\$0	\$17.250	\$2,600	\$3,500	\$1,800	\$2,100	\$900	\$28,150 2	\$0	\$28.
EDICA	TED EXHAUST PICKUP	\$37,000	\$37.000	\$0	\$0	\$1,150	\$8,000	\$2,500	\$3,000	\$0	\$88,650	\$13,500	\$18,000	\$9,100	\$11,000	\$4,700	\$144,950	\$0	\$144.95
	Small Ceiling Grille	\$400	\$400	\$0	\$0	\$200	\$4,000	\$0	\$0	\$0	\$5,000	\$800	\$1,000	\$500	\$600	\$300	\$8,200 2	\$0	\$8,
)	Hood - Forge & Melting Cruci	\$12,000	\$12,000	\$0	\$0	\$100	\$500	\$1,000	\$2,000	\$0	\$27,600	\$4,200	\$5,600	\$2.800	\$3,400	\$1,400	\$45,000 2	\$0	\$45.
)	Slotted Back - Pick Up	\$2,000	\$2,000	\$0	\$0	\$200	\$1,000	\$0	\$0	\$0	\$5,200	\$800	\$1,100	\$600	\$700	\$300	\$8,700 2	\$0	\$8.
)	Articulating Arm	\$2,400	\$2,400	\$0	\$0	\$200	\$1,000	\$0	\$0	\$0	\$6,000	\$900	\$1,200	\$600	\$800	\$300	\$9.800 2	\$0	\$9.
)	CO - Overhead Flexible	\$7,200	\$7,200	\$0	\$0	\$300	\$1,500	\$0	\$0	\$0	\$16,200	\$2,500	\$3,300	\$1,700	\$2,000	\$900	\$26,600 2	\$0	\$26.
)	Science Fume Hood (ASHRA		\$13,000	\$0	\$0	\$150	\$0	\$1,500	\$1,000	\$0	\$28,650	\$4,300	\$5,800	\$2,900	\$3,500	\$1,500	\$46,650 2	\$0	\$46,
XHAUS	T SYSTEMS	\$16,400	\$16,400	\$0	\$4.000	\$800	\$4.000	\$9.000	\$5,000	\$6,000	\$61,600	\$9.300	\$12,400	\$6.300	\$7.500	\$3,200	\$100,300	\$0	\$100.30
2	Square Panel - Roof Mount	\$2,400	\$2,400	\$0	\$2,000	\$400	\$2,000	\$3.000	\$1,000	\$2,000	\$15,200	\$2,300	\$3,100	\$1,600	\$1,900	\$800	\$24,900 2	\$0	\$24,9
)	Industrial Vent Set - Roof Mou	\$14.000	\$14,000	\$0	\$2,000	\$400	\$2,000	\$6.000	\$4,000	\$4,000	\$46,400	\$7,000	\$9,300	\$4,700	\$5,600	\$2,400	\$75,400 2	\$0	\$75.
MERGE	NCY PLUMBING FIXTURES	\$6,000	\$0	\$6.000	\$0	\$0	\$0	\$0,000	\$0	\$0	\$12,000	\$1,900	\$2,500	\$1,300	\$1,500	\$700	\$19,900	\$0	\$19,900
	Eyewash - New, TMV - New	\$1,200	\$0	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$2,400	\$400	\$500	\$300	\$300	\$200	\$4,100 2	\$0	\$4.
	Evewash/Shower - New, TMV	\$4,800	\$0	\$4.800	\$0	\$0	\$0	\$0	\$0	\$0	\$9,600	\$1,500	\$2,000	\$1,000	\$1,200	\$500	\$15.800 2	\$0	\$15.8
ROSS	CONTAMINATION	\$2,500	\$0	\$5.000	\$0	\$0	\$0	\$0	\$0	\$0	\$7.500	\$1,200	\$1,500	\$800	\$900	\$400	\$12,300	\$0	\$0
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Large DCVA - Fire Protection	\$2,500	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$7,500	\$1,200	\$1,500	\$800	\$900	\$400	\$12,300 3	\$0	ΨΟ
LAMMA	BLE STORAGE CABINET	\$6,000	\$0	\$2.000	\$0	\$0	\$0	\$0	\$1,000	\$1,000	\$10,000	\$1,600	\$2,000	\$1.000	\$1,300	\$600	\$16,500	\$0	\$16,500
	New Cabinet - New 2" Sched	\$6,000	\$0	\$1,500	\$0	\$0	\$0	\$0	\$750	\$750	\$9,000	\$1,400	\$1,800	\$900	\$1,100	\$500	\$14,700 2	\$0	\$14.
	Cabinet OK - New 2" Sched 4	\$0,000	\$0	\$500	\$0	\$0	\$0	\$0	\$250	\$250	\$1,000	\$200	\$200	\$100	\$200	\$100	\$1,800 2	\$0	\$1.
IRF PR	OTECTION SYSTEMS	\$0	\$0	\$437,000	\$0	\$0	\$0	\$0	\$0	\$0	\$437,000	\$65,700	\$87,400	\$43,800	\$52,500	\$22,000	\$708,400	\$0	\$0
	Water Entry	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$2,300	\$3,000	\$1,500	\$1,800	\$800	\$24,400 3	\$0	ΨΟ
	Sprinkler Remainder of Buildi	\$0	\$0	\$234,500	\$0	\$0	\$0	\$0	\$0	\$0	\$234,500	\$35,200	\$46,900	\$23,500	\$28,200	\$11.800	\$380,100 3	\$0	
	Sprinkler crawlspace	\$0	\$0	4	\$0	\$0	\$0	\$0	\$0	\$0	\$167,500	\$25,200	\$33,500	\$16,800	\$20,100	\$8,400	\$271,500 3	\$0	
	new service	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$3,000	\$4.000	\$2.000	\$2,400	\$1,000	\$32,400 3	\$0	
HIII DIN	G ENVELOPE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,250	\$0	\$31,250	\$4,700	\$6,300	\$3.200	\$3,800	\$1,600	\$50,850	\$0	\$50.85
OILDIN	Re and Re T-Bar	\$0	\$0	40	\$0	\$0	\$0	\$0		\$0	\$11,250	\$1,700	\$2.300	\$1,200	\$1,400	\$600	\$18.450 2	\$0	\$18.
	asbestos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0	\$20,000	\$3,000	\$4,000	\$2,000	\$2,400	\$1,000	\$32,400 2	\$0	\$32.
IISC	danea(05	\$0	\$20,500	\$33,200	\$0	\$0	\$0	\$0	\$20,000	\$0	\$53,700	\$8,300	\$10,800	\$5,500	\$6,600	\$2,800	\$32,400 2 \$87,700	\$16,800	\$40,000
1130	Permits & Inspection Fees	φυ	\$20,500	\$9,500	Φυ	Φυ	\$0	ΦU	φυ	φU	\$9.500	\$1,500	\$1,900	\$1,000	\$1,200	\$500	\$15.600 all	\$3,000	\$40,000
	Demolition		\$7.800	\$23,700							\$31,500	\$4,800	\$6,300	\$3,200	\$3,800	\$1,600	\$15,600 all \$51,200	\$9,800	\$23.4
	Bonding		\$12,700	\$23,700							\$12,700	\$4,800	\$2,600	\$1,300	\$3,800	\$700	\$20,900	\$4,000	\$23, \$9,
GRAND		¢201 400		\$506.000	000 000	<b>CC 205</b>	\$88.500	DOE OOO	677 7E0	¢20 000			1 /	. ,		\$67,200	\$20,900 \$2.139.775	\$4,000	* - 1
		\$321,400	\$175,900	\$506,200	\$38,000	\$6,325	400,000	\$65,000	\$77,750	\$38,000	\$1,317,075	\$198,900	\$264,300	\$132,900	\$159,400				\$979,07
rea:	1301	\$247	\$135	\$389	\$29	\$5	\$68	\$50	\$60	\$29	\$1,012	\$153	\$203	\$102	\$123	\$52	\$1,645	\$314	\$
ones:	19	\$16,916	\$9,258	\$26,642	\$2,000	\$333	\$4,658	\$3,421	\$4,092	\$2,000	\$69,320	\$10,468	\$13,911	\$6,995	\$8,389	\$3,537	\$112,620	\$21,532	\$51,5

No:	NAME: Similkameen El	PHASE
ID	Item	3
PRIMAR	RY HVAC SYSTEMS	\$0
	Relief Air Gooseneck	\$0
TERMIN	IAL HVAC SYSTEMS	\$0
	Roof Top Unit - Large - Heat	\$0
	Roof Top Unit - Large - Heat	\$0
	Roof Top Unit - Large - Heat	\$0
	Roof Top Unit - Large - Heat	\$0
	Roof Top Unit - Small PRE-P	\$0
	Roof Top Unit - Small INSTA	\$(
	Electric Heat - Force Flow, Ur	\$0
	Split System AC	\$(
	Low Level Retrurn	\$(
	Acoustic Transfer with Fire Da	\$0
	TED EXHAUST PICKUP	\$0
A	Small Ceiling Grille	\$(
D	Hood - Forge & Melting Cruci	\$0
D	Slotted Back - Pick Up	\$(
D	Articulating Arm CO - Overhead Flexible	\$(
D D	Science Fume Hood (ASHRA	\$(
	ST SYSTEMS	\$(
B	Square Panel - Roof Mount	\$0 \$0
D	Industrial Vent Set - Roof Mou	\$(
	ENCY PLUMBING FIXTURES	\$0
LINENG	Eyewash - New, TMV - New	\$0
	Eyewash/Shower - New, TMV	\$(
CROSS	CONTAMINATION	\$12,300
011000	Large DCVA - Fire Protection	\$12,300
FLAMM	ABLE STORAGE CABINET	\$0
	New Cabinet - New 2" Sched	\$(
	Cabinet OK - New 2" Sched 4	\$(
FIRE PR	ROTECTION SYSTEMS	\$708,400
	Water Entry	\$24,400
	Sprinkler Remainder of Buildi	\$380,100
	Sprinkler crawlspace	\$271,500
	new service	\$32,400
BUILDIN	NG ENVELOPE	\$0
	Re and Re T-Bar	\$0
	asbestos	\$0
MISC		\$30,600
	Permits & Inspection Fees	\$5,400
	Demolition	\$17,900
	Bonding	\$7,300
GRAND		\$751,300
Area:	1301	\$57
Zones:	19	\$39,542

From: Sent: To: Cc: Subject:	Woycheshin, John J EDUC:EX Tuesday, May 17, 2016 1:33 PM 'dsansome@sd53.bc.ca' 'lminnaba@sd53.bc.ca' CNCP versus SEP project funding	
Importance:	High	
Hi Deb:		
Does SD53 have a duplicated proje and SEP?	ect funding request for Similkameen Elementary Secondary School, under both CNCP	
•	t: "Remove existing gas fired roof top units and replace with air source heat pumps. bon dioxide sensors. This application includes partial upgrades for the secondary wing	
	ta Sheet: "Phase 2 - Replace existing gas fired rooftop units with new dual fuel air nupgrading piecemeal based on limited AFG funding available"	
Hopefully, the second phase of the you can save your available CNCP	e SEP project will entirely complete this particular MECHUP activity at the school, and funds for another projects	
Please advise!		
Thanks,		
John Woycheshin Regional Director		

**From:** Woycheshin, John J EDUC:EX **Sent:** Tuesday, May 17, 2016 1:54 PM

To: 'Debby Sansome'

Subject: RE: CNCP versus SEP project funding

This is what I thought as I've been seeing a couple of SD bet hedgers given the coincidental application processes for CNCP and SEP!

How much would it cost to complete this <u>entire</u> MECHUP project at SESS this year, using SEP Phase 2 funding: \$1, 490,000 + \$206,000 = \$1,696,000; or \$1,747,000, if MED covers the SD's offer of a \$50,000 contribution?

John W.

From: Debby Sansome [mailto:DSansome@SD74.bc.ca]

Sent: Tuesday, May 17, 2016 1:44 PM To: Woycheshin, John J EDUC:EX

Subject: RE: CNCP versus SEP project funding

Yes, it is a smaller section of the bigger plan.

We have been working on SESS mechanical since before I arrived in 2014. We have not been successful in being awarded sufficient money to get the entire project done so we keep breaking it down into smaller chunks.

As I don't want to miss out on any opportunity for external funding, a small section was requested on CNCP but the larger project was put into SEP. I honestly didn't think we would receive anything under CNCP because we only have a very small amount of funding there for us so hedging my bets, I placed the project in SEP as well.

Trying to cover all the bases. This school has been under construction for so long the grads are making up special T shirts - under-construction Graduates<sup>©</sup>
Deb

From: Woycheshin, John J EDUC:EX [mailto:John.Woycheshin@gov.bc.ca]

Sent: May-17-16 1:33 PM

To: Debby Sansome; Debby Sansome

Cc: <a href="mailto:lminnaba@sd53.bc.ca">lminnaba@sd53.bc.ca</a>

Subject: CNCP versus SEP project funding

Importance: High

Hi Deb:

Does SD53 have a duplicated project funding request for Similkameen Elementary Secondary School, under both CNCP and SEP?

From the CNCP Project Data Sheet: "Remove existing gas fired roof top units and replace with air source heat pumps. Upgrade control systems. Add carbon dioxide sensors. This application includes partial upgrades for the secondary wing only."

From the SEP Project Proposal Data Sheet: "Phase 2 - Replace existing gas fired rooftop units with new dual fuel air source heat pumps. We have been upgrading piecemeal based on limited AFG funding available"

Hopefully, the second phase of the SEP project will entirely complete this particular MECHUP activity at the school, and you can save your available CNCP funds for another projects...

Please advise!

Thanks,

John Woycheshin Regional Director

From: Woycheshin, John J EDUC:EX

Sent: Tuesday, May 17, 2016 2:58 PM

Village Research Code FRIGGEN

**To:** Vijandre, Carlo EDUC:EX

**Subject:** FW: CNCP versus SEP project funding

Your call...

From: Debby Sansome [mailto:DSansome@SD74.bc.ca]

Sent: Tuesday, May 17, 2016 2:57 PM To: Woycheshin, John J EDUC:EX

Subject: RE: CNCP versus SEP project funding

If MED covered off \$2,000,000 for the SEP, the District could throw in \$197,000 and the entire project would be complete and it would disappear off the CNCP request list.

Deb

From: Woycheshin, John J EDUC:EX [mailto:John.Woycheshin@gov.bc.ca]

Sent: May-17-16 1:54 PM To: Debby Sansome

Subject: RE: CNCP versus SEP project funding

This is what I thought as I've been seeing a couple of SD bet hedgers given the coincidental application processes for CNCP and SEP!

How much would it cost to complete this <u>entire</u> MECHUP project at SESS this year, using SEP Phase 2 funding: \$1, 490,000 + \$206,000 = \$1,696,000; or \$1,747,000, if MED covers the SD's offer of a \$50,000 contribution?

John W.

From: Debby Sansome [mailto:DSansome@SD74.bc.ca]

Sent: Tuesday, May 17, 2016 1:44 PM To: Woycheshin, John J EDUC:EX

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From: Woycheshin, John J EDUC:EX

Sent: Wednesday, May 18, 2016 8:51 AM

To: Vijandre, Carlo EDUC:EX

vijandre, Cano EDOC.EX

**Subject:** FW: CNCP versus SEP project funding

For further discussion, if it's not too late...

From: Debby Sansome [mailto:DSansome@SD74.bc.ca]

Sent: Wednesday, May 18, 2016 7:03 AM

To: Woycheshin, John J EDUC:EX

Subject: FW: CNCP versus SEP project funding

I know, too much. John as the CNCP request is actually a section from the larger request of SEP, I can do the Phase 1 of 2 for the \$1,490,000.00. The Phase 2 of the project is the sprinkler system, one doesn't exist at this school so it can be a standalone project.

I hope this helps in the decision making. SESS has been on the mechanical books for a long time. It would be great to get out of the school for a while and let the educators teach.

Deb

From: Debby Sansome Sent: May-17-16 2:57 PM

To: 'Woycheshin, John J EDUC:EX'

Subject: RE: CNCP versus SEP project funding

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John W.

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From: Woycheshin, John J EDUC:EX [mailto:John.Woycheshin@gov.bc.ca]

Sent: May-17-16 1:33 PM

To: Debby Sansome; Debby Sansome

Cc: lminnaba@sd53.bc.ca

Subject: CNCP versus SEP project funding

Importance: High

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Hopefully, the second phase of the SEP project will entirely complete this particular MECHUP activity at the school, and you can save your available CNCP funds for another projects...

Please advise!

Thanks,

John Woycheshin Regional Director

From: Debby Sansome <DSansome@SD74.bc.ca>

Sent:Wednesday, May 18, 2016 3:00 PMTo:Woycheshin, John J EDUC:EXSubject:Project Savings Routine Capital

Importance: High

#### Hi John

As per your request I have estimated savings in energy costs as follows: Similkameen Elementary Secondary School Renovation Project ~\$200/year based on increased Building Envelope work, upgrade to electrical and mechanical for counselling/washrooms. Oliver Elementary replacement roof will also provide increased insulation factors for the school and I would anticipate a reduction in heating/cooling costs @ ~\$150/yr depending on commodity cost per GJ.

It may not sound like much but when you take into consideration that energy savings was not the primary needs, it is an excellent by-product of the exercise. No more leaky roof and very happy students with their new washrooms./flooring and windows.

Deb

D. Sansome-CTech Director of Facilities SD#53(Okanagan Similkameen) SD#74(Gold Trail) (250)498-9090 Trying to cover all the bases. This school has been under construction for so long the grads are making up special T shirts - under-construction Graduates<sup>©</sup>
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From: Woycheshin, John J EDUC:EX [mailto:John.Woycheshin@gov.bc.ca]

Sent: May-17-16 1:33 PM

To: Debby Sansome; Debby Sansome

Cc: <a href="mailto:lminnaba@sd53.bc.ca">lminnaba@sd53.bc.ca</a>

Subject: CNCP versus SEP project funding

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Please advise!

Thanks,

John Woycheshin Regional Director

**From:** Woycheshin, John J EDUC:EX **Sent:** Wednesday, May 18, 2016 3:11 PM

To: 'Debby Sansome'

Subject: RE: Project Savings Routine Capital

Debby:

Thanks for this. It's a great help!

John W.

PS - And I promise not to call you again today!

From: Debby Sansome [mailto:DSansome@SD74.bc.ca]

Sent: Wednesday, May 18, 2016 3:00 PM

To: Woycheshin, John J EDUC:EX
Subject: Project Savings Routine Capital

Importance: High

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Deb

D. Sansome-CTech
Director of Facilities
SD#53(Okanagan Similkameen)
SD#74(Gold Trail)
(250)498-9090

From: Education Funding Department EDUC:EX

**Sent:** Tuesday, May 24, 2016 4:21 PM

To: 'lminnaba@sd53.bc.ca'; 'byoung@sd53.bc.ca'

Cc: Woycheshin, John J EDUC:EX

Subject:186886 Capital Plan | Approval letter (SD53)Attachments:SD53\_Okanagan Similkameen School District.pdf

Hello,

Thank you for your Capital Plan submitted November 2015. I am pleased to forward your approval letter from Renee Mounteney, Executive Director, Capital Delivery Branch. Please see the attached letter for more details.

Thank you,

#### Rosa Cutler, Administrative Coordinator

Ministry of Education | Planning & Major Projects Division | Resource Management Division 5<sup>th</sup> Floor, 620 Superior Street, Victoria BC V8W 9H1, 250-896-4816 - Mobile



Please consider the environment before printing this email.



May 24, 2016

Ref: 186886

To: Secretary-Treasurer and Superintendent School District No. 53 (Okanagan Similkameen)

#### Re: Ministry Response to Annual Capital Plan Submission

This letter is in response to the Board's Annual Capital Plan submission and provides direction as to the next steps for advancing capital projects that align with provincial capital priorities.

The Ministry reviewed all the 5-year Capital Plan submissions across the participating 60 school districts to determine priorities for available capital funding in the programs of:

- Seismic Mitigation & Safety,
- Expansion,
- Building Envelope,
- Carbon Neutral Capital,
- School Enhancement, and
- Buses

I am pleased to advise Ministry support for advancing project development or delivery of the following projects:

SCHOOL PROJECT(S)			
School Name	Project Type	Next Steps & Timing	
Similkameen	School Enhancement	Proceed to design, tender & construction and complete by March 2017	
Elementary –			
Secondary			
Similkameen	Carbon Neutral Capital	Proceed to design, tender & construction	
Elementary/Secondary		and complete by March 2017	

Follow-up meetings will be scheduled by your assigned Regional Director to confirm scope, schedule, budget and the terms of project approval for the projects listed above. No works or expenditures can proceed without a signed project agreement or other signed authorization from the Ministry.

.../2

As a brief follow-up from a recent correspondence, the Ministry has recently revised the procedures on the Bylaws and the Annual Capital Plan submission which are briefly summarized below;

1. The Ministry eliminated the requirement for the Boards of Education to pass Bylaws for each individual capital project. For additional information, please visit our website at:

http://www2.gov.bc.ca/gov/content/education-training/administration/resource-management/capital-planning/capital-bylaws

2. The Annual Capital Plan submission deadline was initially revised to August 31, 2016, and based on recent feedback, the submission deadline will now be extended to September 9, 2016, to better align school district capital planning with government's fiscal cycle. The Capital Plan Instructions will be issued to you shortly with further details.

Should you have any questions regarding the Ministry's Capital Plan process, we would be more than happy to set-up a meeting with you to go over any questions you may have. At any time, please do not hesitate to contact your Regional Director, John Woycheshin at John. Woycheshin@gov.bc.ca to schedule a time to meet to discuss your inquiries.

Thank you for your dedication to the students of the Okanagan Similkameen School District.

Sincerely,

Renée Mounteney, MBA

Executive Director, Capital Delivery Branch

Planning and Major Projects Division

Cc: John Woycheshin, Regional Director, Capital Delivery Branch