



2010/2011 Capital Plan

For submission to the Ministry of Education

June 2010

School District No. 8 (Kootenay Lake) 2010/2011 Capital Plan

Table of Contents

CP-1 Proposed Projects with a High Ranking

1. New Trafalgar Elementary/Middle School (includes the Design Aid Sheet)
2. Hume Elementary Mechanical System Upgrade (includes System Assessment)
3. LV Rogers Secondary Mechanical System Upgrade (includes System Assessment)
4. Replacement of 4-72 Passenger Buses (includes Inspection Reports)

CP-2 Five Year Capital Plan Summary

CP – 3 School District Summary of Capacities and Projected Enrollments

CP – 4 School Capacity and Enrolment Worksheet

CP – 5A Capacity Utilization Summary

CP – 5B Capacity Utilization Analysis



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 1
Ministry Priority: HIGH

'monica schulte' (PRD01)

Project No.: 116036

Request Type: Update

Part A - Project Identification

| | | | |
|---------------------------------|---|--|------------------------------|
| 1. Capital Plan Year: 2010/2011 | 2. SD Ref. No.: 100 | 3. Last Modified: Jun. 10, 2010 | 4. Submitted On: unsubmitted |
| 5. SD No. 08 | 6. SD Name Kootenay Lake | 7. Municipality: NELSON | 8. Asset No.: 100246 |
| 9. Facility No.: 07005 | 10. Facility Name: TRAFALGAR MIDDLE SCHOOL | Facility Type: | |
| 13. Proj. Cd.: REPLACE | 14. Project Description: TRAFALGAR ELEMENTARY/MIDDLE SCHOOL | 11. Current: Junior Middle School | |
| 15. Proj. Type: MAJOR | | 12. Proposed: Elementary-Secondary Sch | |

Part B - Capacity, Area Factors and Allowances

| | | | | | |
|--|---------|--|--------------|--|--|
| <u>Nominal Capacity:</u> | | Kindergarten | Grades 1 - 7 | Grades 8 - 12 | 7. Grade Configuration |
| 1. Actual Existing: | | 0 | 375 | 200 | 6-8 |
| 2. Capacity Adjustments: | | 0 | 125 | -50 | |
| 3. Proposed Higher Priority Additions: | | 0 | 0 | 0 | |
| 4. Total Existing: | | 0 | 500 | 150 | |
| 5. Proposed Addition: | | 0 | 0 | 0 | |
| 6. Proposed Total Capacity: | | 0 | 500 | 150 | 8. K-8 |
| <u>Site Area (ha):</u> | | <u>Allowable Building Area (sq.m.)</u> | | | <u>Allowable Renovation Area (sq.m.)</u> |
| 9. Required Size: | 0.0 | 12. Total Allowable Area: | 6942.0 | 16. Renovations Associated With Additions (%): | 0 |
| 10. Existing Area: | 0.0 | 13. Existing Area: | 0.0 | 17. Renovation Area: | 0.00 |
| 11. Total New Area: | 0.0 | 14. Area to be demolished: | 0.0 | 18. Renovation Unit Rate: | 0 |
| | | 15. Area of New Space: | 6942.0 | | |
| <u>Construction Cost Factors:</u> | | | | <u>Equipment Allowance (%):</u> | |
| 19. Base Unit Rate: | 1050.00 | 20. Air Conditioning: | 0 | LFA: 0.00 | MF: 1.00 |
| 21. Project Size Factor: | 0.981 | 22. Location Factor: | 2.513 | 23. Ground Factor: | 1.00 |
| | | | | 24. New Space: | 17.3 |
| | | | | 25. Freight Allowance: | 8.609 |

Part C - Estimated Budget

| | | | | | | | | |
|-----------------------------|---------------------------------------|---|--------------------------|-----------------------------------|----------------------|-------------------------------|---------------|-----------|
| <u>Site Acquisition:</u> | | 1. Purchase: | 0 | 2. Other Cost: | 186,701 | 3. Subtotal: | 186,701 | |
| <u>Site Development:</u> | | 4. Development Cost Charges: | 0 | 5. Offsite Costs: | 0 | 6. Adjusted Site Development: | 1,171,058 | |
| | | 7. Supplementary Site: | 0 | 8. New Building on Existing Site: | 466,000 | 8. Subtotal: | 1,171,058 | |
| <u>New Construction:</u> | | 9. New Area: | 6,942.0 | Renovations: | 13. Renovation Area: | 0.00 | | |
| | | 10. Adjusted Unit Rate: | 2,588.5157 | 14. Renovation Unit Rate: | 0 | 15. Subtotal: | 0 | |
| | | 11. Subtotal: | 17,969,476 | 16. Supplementary Costs: | 0 | 17. Other Costs: | 0 | |
| | | 12. Supplementary Building: | 0 | 18. Build Total: | 17,969,476 | 19. Reno Cost: | 0 | |
| <u>Building Costs:</u> | | 20. Subtotal: | 17,969,476 | | | | | |
| <u>Equipment Allowance:</u> | | 21. New Area: | 1,372.00 | Area Allowance: | 249,224 | | | |
| | | 22. Area Entitled to Equipment Replacement: | 0.00 | | 0 | | | |
| New Fee | Reno Fee | 23. Equipment Freight Allowance: | 21,456 | | | | | |
| 0.0927 | 0.1600 | 24. Subtotal: | 270,680 | | | | | |
| Fees: | 25. Site Dev.: | 108,557 | 26. New: | 1,665,770 | 27. Renovation: | 0 | 28. Subtotal: | 1,774,327 |
| Contingency: | 29. New: | 574,216 | 30. Renovation: | 0 | 31. Subtotal: | 574,216 | | |
| Other: | 32. Supplementary Building: | | 33. Subtotal: | 4,605,773 | | | | |
| Phases: | 34. Site: | 186,701 | 35. Plan: | 765,621 | 36. Completion: | 25,599,909 | | |
| | 37. Planning Costs in Planning Phase: | 765,621 | 38. In Completion Phase: | 0 | | | | |
| Total Estimated Budget: | | | | | | 39. Subtotal: | 26,552,231 | |

Part D - Schedule and Funding

| Project Cost Schedule: | | Site | Planning | Completion |
|------------------------|---------------------|-----------|-----------|------------|
| | 1. Year: | 2012/2013 | 2012/2013 | 2012/2013 |
| | 2. Cost: | 186,701 | 765,621 | 25,599,909 |
| Funding Source: | | | | |
| | 3. Bylaw Capital: | 186,701 | 765,621 | 25,599,909 |
| | 4. Capital Reserve: | 0 | 0 | 0 |
| | 5. Land Reserve: | 0 | | 0 |
| | 6. Local Capital: | 0 | 0 | 0 |

Part E - Approved Funding

| | | | | |
|---------------|---------------------|-----------|-----------|------------|
| Phase Status: | 1. Status: | Requested | Requested | Requested |
| Approved: | 2. Bylaw Capital: | 0 | 0 | 0 |
| | 3. Capital Reserve: | 0 | 0 | 0 |
| | 4. Land Reserve: | 0 | | 0 |
| | 5. Local Capital: | 0 | 0 | 0 |
| Variance: | 6. Variance | 186,701 | 765,621 | 25,599,909 |
| Net Request: | 7. Bylaw Capital: | 186,701 | 765,621 | 25,599,909 |
| | 8. Capital Reserve: | 0 | 0 | 0 |
| | 9. Land Reserve: | 0 | 0 | 0 |
| | 10. Local Capital: | 0 | 0 | 0 |

Part F - Comments

New Trafalgar Elementary / Jr. Middle School **Option 4.1**
DESIGN AID SHEET FOR SECONDARY SCHOOLS - SHEET #1

SCHOOL NAME Trafalgar Elementary / Middle Grades K to 8 Facility Code _____ Date 2-Jun-10

DISTRICT SD #8 Total Elective Modules 1

| | | | | | | |
|----------------------------|---|-----|---|-----|---|----|
| School Capacity *Nominal - | E | 500 | S | 150 | K | 40 |
| *Operating - | E | 440 | S | 150 | K | 38 |

| | |
|--------------------------------------|------|
| Agreed Nominal / Operating Capacity: | |
| Ministry of Education | Date |

This sheet is for use in the design procedures in PART 2 of the building manual.

PART 1 - ACADEMIC/VOCATIONAL

| Space Function | 1A - EXISTING Description | 1B - MODULES | | | 1C - NEW CORE Description | Area | 1D - NEW ELECTIVE Description | Area | 1D - NEW ELECTIVE Area | 1D - NEW ELECTIVE Mods. |
|-------------------------------|---------------------------|--------------|-------|--------------|---------------------------|------|---------------------------------|------|------------------------|-------------------------|
| | | Area | Mods. | Core Deficit | | | | | | |
| Business Education | | | 0.00 | 1.0 | 0.00 | 100 | | 100 | 0 | 0 |
| | | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| Fine Arts | Art | | 0.00 | 1.0 | 0.00 | 160 | Drama & Theatre | 120 | 0 | 1.00 |
| | Coral Music | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Music | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Drama & Theatre | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| Home Economics | Clothing | | 0.00 | 1.0 | 0.00 | 140 | clothing/foods | 0 | 0 | 1.00 |
| | Foods | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Clothing/Foods | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| Industrial Education | General Shop | | 0.00 | 1.0 | 0.00 | 155 | General Shop | 0 | 0 | 1.00 |
| | Drafting | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Technology | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| Science | General Science | | 0.00 | 1.0 | 0.00 | 100 | Science | 0 | 0 | 1.00 |
| | Physics | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Chemistry | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| | Biology | | 0.00 | 1.0 | 0.00 | | | | 0 | 0 |
| Other* | | | | | | | | | | |
| General Instruction | rooms 75-95 s.m. | 0 | 0.00 | E: 20 | 0.00 | 1680 | Area = no. of modules x 80 s.m. | 0 | 0 | 0 |
| | other rooms | 0 | 0.00 | S: 1.0 | 0.00 | 2335 | | 120 | 0 | 0 |
| Sub-Totals | | 0 | 0 | | 0.00 | Ci | | Di | Dii | 1.00 |
| Total of New Elective Modules | | | | | | | | | | 1.00 |

*Note - May not be used except for spaces agreed in writing by the Ministry.

**New Trafalgar Elementary / Jr. Middle School
DESIGN AID SHEET FOR SECONDARY SCHOOLS - SHEET #2**

Jun 02, 10

Option 4.1

(See sheet #1 for base information)

| PART 2 - SERVICE ACTIVITY | | | | PART 3 - TOTAL AREAS | | | |
|---------------------------|----------|-------------|-----------|----------------------|------------|-------|--------|
| Space Function | E-Exist. | F-Allowable | G-Deficit | H-New | N-EXISTING | P-NEW | |
| Administration / Health | | 190 | 190 | 190 | 0 | 0 | |
| Counselling | | 50 | 50 | 50 | | Ci | 2335 |
| Gen. Storage | | 90 | 90 | 90 | | Di | 120 |
| Gym Activity | | 600 | 600 | 600 | | Hi | 4487 |
| Gym Ancillary | | 150 | 150 | 150 | | Pi | 6942 |
| Media / Tech Centre | | 320 | 320 | 320 | | Ni | 0 |
| Multi-purpose | | 160 | 160 | 160 | | | 5775 |
| Spec. Education | | 320 | 320 | 320 | | | 117.5 |
| Mechanical | | 170 | 170 | 170 | | | 1212 |
| Design Space | | 1225 | 1225 | 1225 | | | 7104.5 |
| * Other | | 1212 | 1212 | 1212 | | | |
| SUB-TOTAL | Ei | Fi | | Hi | | | |
| | 0 | 4487 | | 4487 | | | |
| | | | Fi-Ei= | | | | |
| | | | | | | | |

Total Gross Allowable Area
extra gross area for 25 Elem. students
plus Other

Other' is:
2 X Kindergarten @ 90 sm + 20 sm (design space)
Strong start @90 s.m. + 20 sm (design space)
Neighborhood Learning Centre at 15% of 5880 s.m. = 882 s.m.

| SITE REQUIREMENTS | PROVIDED | REQUIRED |
|-------------------|----------|----------|
| HECTARES | | |
| ACRES | 0.00 | 0.00 |

| |
|----------------------------|
| ENROLLMENT: 2014 / 2015 |
| Full Day K at 36 FTE |
| Elementary (1 to 7) at 437 |
| Secondary (gr 8) at 155 |

| | |
|----------|------|
| Area New | 6942 |
|----------|------|



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 2
Ministry Priority:

monica.schulte (PRD01)

Project No: N/A

Request Type: New

Part A - Project Identification

| | | | |
|---------------------------------|---|---------------------------------|------------------------------|
| 1. Capital Plan Year: 2010/2011 | 2. SD Ref. No.: 150 | 3. Last Modified: Jun. 2, 2010 | 4. Submitted On: unsubmitted |
| 5. SD No. 08 | 6. SD Name: Kootenay Lake | 7. Municipality: NELSON | 8. Asset No.: 100242 |
| 9. Facility No.: 07004 | 10. Facility Name: HUME ELEMENTARY SCHOOL | Facility Type: | |
| 13. Proj. Cd.: MECHUP | 14. Project Description: HUME MECHANICAL SYSTEM UPGRADE | 11. Current: Elementary School | |
| 15. Proj. Type: MINOR | | 12. Proposed: Elementary School | |

Part B - Capacity, Area Factors and Allowances

| | | | | | |
|--|---------|---------------------------------|--------------|--|-----------------------------------|
| Nominal Capacity: | | Kindergarten | Grades 1 - 7 | Grades 8 - 12 | 7. Grade Configuration |
| 1. Actual Existing: | | 40 | 250 | 0 | K-5 |
| 2. Capacity Adjustments: | | 0 | 0 | 0 | |
| 3. Proposed Higher Priority Additions: | | 0 | 0 | 0 | |
| 4. Total Existing: | | 40 | 250 | 0 | |
| 5. Proposed Addition: | | 0 | 0 | 0 | |
| 6. Proposed Total Capacity: | | 40 | 250 | 0 | 8. K-5 |
| Site Area (ha): | | Allowable Building Area (sq.m.) | | | Allowable Renovation Area (sq.m.) |
| 9. Required Size: | 0.0 | 12. Total Allowable Area: | 0.0 | 16. Renovations Associated With Additions (%): | 20 |
| 10. Existing Area: | 0.0 | 13. Existing Area: | 0.0 | 17. Renovation Area: | 0.00 |
| 11. Total New Area: | 0.0 | 14. Area to be demolished: | 0.0 | 18. Renovation Unit Rate: | 0 |
| | | 15. Area of New Space: | 0.0 | | |
| Construction Cost Factors: | | | | Equipment Allowance (%): | |
| 19. Base Unit Rate: | 1035.00 | 20. Air Conditioning: | 0 | LFA: 0.00 | MF: 1.00 |
| 21. Project Size Factor: | 1.050 | 22. Location Factor: | 2.513 | 23. Ground Factor: | 1.00 |
| | | | | 24. New Space: | 13.0 |
| | | | | 25. Freight Allowance: | 8.609 |

Part C - Estimated Budget

| | | | | | | | |
|----------------------|----------|---------------------------------------|-----------|---|----------------------|----------------------------------|---|
| Site Acquisition: | | 1. Purchase: | 0 | 2. Other Cost: | 0 | 3. Subtotal: | 0 |
| Site Development: | | 4. Development Cost Charges: | 0 | 5. Offsite Costs: | 0 | 6. Adjusted Site Development: | 0 |
| | | 7. Supplementary Site: | 0 | 8. Subtotal: | 0 | | |
| New Construction: | | 9. New Area: | 0.0 | Renovations: | 13. Renovation Area: | 0.00 | |
| | | 10. Adjusted Unit Rate: | 0.0000 | 14. Renovation Unit Rate: | 0 | 15. Subtotal: | 0 |
| | | 11. Subtotal: | 0 | 16. Supplementary Costs: | 0 | 17. Other Costs: | 0 |
| | | 12. Supplementary Building: | 0 | 18. Build Total: | 0 | 19. Reno Cost: | 0 |
| Building Costs: | | 20. Subtotal: | 0 | Area | Allowance | | |
| Equipment Allowance: | | 21. New Area: | 0.00 | 22. Area Entitled to Equipment Replacement: | 0.00 | 23. Equipment Freight Allowance: | 0 |
| New Fee | Reno Fee | 24. Subtotal: | 0 | 25. Site Dev.: | 0 | 26. New: | 0 |
| 0.0000 | 0.1600 | 27. Renovation: | 0 | 28. Subtotal: | 0 | 29. New: | 0 |
| Fees: | | 30. Renovation: | 0 | 31. Subtotal: | 0 | 32. MECHANICAL SYSTEM UPGRADE | |
| Contingency: | | 32. Subtotal: | 1,425,990 | 33. Subtotal: | 1,425,990 | 34. Site: | |
| Other: | | 34. Site: | 0 | 35. Plan: | 0 | 36. Completion: | |
| Phases: | | 36. Completion: | 1,425,990 | 37. Planning Costs in Planning Phase: | 0 | 38. In Completion Phase: | |
| | | 37. Planning Costs in Planning Phase: | 0 | 38. In Completion Phase: | 0 | 39. Total Estimated Budget: | |
| | | 39. Total Estimated Budget: | 1,425,990 | | | | |

Part D - Schedule and Funding

| Project Cost Schedule: | Site | Planning | Completion |
|------------------------|-----------|-----------|------------|
| 1. Year: | 2012/2013 | 2012/2013 | 2010/2011 |
| 2. Cost: | 0 | 0 | 1,425,990 |
| Funding Source: | | | |
| 3. Bylaw Capital: | 0 | 0 | 1,425,990 |
| 4. Capital Reserve: | 0 | 0 | 0 |
| 5. Land Reserve: | 0 | | 0 |
| 6. Local Capital: | 0 | 0 | 0 |

Part E - Approved Funding

| | | | | |
|---------------|---------------------|-----------|-----------|-----------|
| Phase Status: | 1. Status: | Requested | Requested | Requested |
| Approved: | 2. Bylaw Capital: | 0 | 0 | 0 |
| | 3. Capital Reserve: | 0 | 0 | 0 |
| | 4. Land Reserve: | 0 | | 0 |
| | 5. Local Capital: | 0 | 0 | 0 |
| Variance: | 6. Variance | 0 | 0 | 1,425,990 |
| Net Request: | 7. Bylaw Capital: | 0 | 0 | 1,425,990 |
| | 8. Capital Reserve: | 0 | 0 | 0 |
| | 9. Land Reserve: | 0 | 0 | 0 |
| | 10. Local Capital: | 0 | 0 | 0 |

Part F - Comments

HUME ELEMENTARY SCHOOL

HVAC SYSTEMS ASSESSMENT
SCHOOL DISTRICT NO. 8 (Kootenay)
Nelson, B.C.
May 27, 2010



1.0 Executive Summary

- The existing structure is well maintained and is good shape.
- The school appears to be well utilized. Present student population is about 180 students.
- Existing mechanical systems do not deliver good occupant comfort.
- Existing mechanical system are not capable of delivering adequate ventilation for the most part.
- Existing heating system is old and inefficient.
- The building is amongst the poorest energy consumers in the district.
- Significant portion of the control systems are pneumatic and need to be upgraded.
- A conventional heat pump upgrade is estimated at \$1,040,000.
- A Ground Source Heat Pump (GSHP) upgrade is estimated at \$1,425,000.
- A GSHP will save 74 tonnes of CO2 Per Year.

2.0 Description of Existing Building

- Area of Building: 3254m²
- The bulk of the building is a three storey classroom block using a masonry façade. The style of building could be considered heritage and is in very good shape considering its vintage.
- Building was original constructed in 1923. Library and Classroom Addition was in 1966. Gymnasium was added in 1991.

3.0 Description of Existing Mechanical Systems

- Three Storey Classroom Block utilizes Gas-fired hydronic boilers without mechanical cooling. Central air handling unit with hydronic reheat coils with supplementary wall fin radiators and convectors. Pneumatic controls.
- Library, Gym and select upper storey classroom are service by a combination of heating only and heat/cool roof top units.

4.0 Recommended Mechanical Upgrade

- The proposal is that classrooms and support areas will be served by new water to air heat pump units located in service area areas and possibly in the ceiling spaces. New supply ducts, and new return air ducts will be connected to the new heat pumps.
- New primary outside air heat pump will be modified to provide outdoor air ventilation service. Ventilation levels will be controlled by automatic dampers controlled by carbon dioxide sensors.
- In order to save significant energy costs, the main heat source and heat rejection medium can be upgraded to a new geo-thermal source field located east of the classroom building. The geo-thermal field will be sized to provide 75 – 85 % of the plant energy needs. Supplemental heat will be provided by new condensing boilers. A new fluid cooler will be needed to provide heat rejection when the geo-thermal field has reached its performance limit.
- The ground systems will need to be based on the more expensive vertical type systems to accommodate a small site situation.

5.0 Appendix

- Construction estimates
- Energy and carbon saving calculation.

HUME Elementary School 3,254 sq m 180 Students 2010 May 27

ANNUAL UTILITY COSTS for HVAC SYSTEM UPGRADE

Effective area 3,254 sq m Current Enrollment Estimate 180 Students **EXISTING CONSUMPTION**

| NATURAL GAS | | | | ELECTRICITY | | | | ANNUAL GHG and ENERGY REDUCTIONS | | | | | | | | |
|-------------|---------|-----------|---------|-------------|-----------|---------|----------|----------------------------------|---------|-----------|------------------|--------------|----------------|-----------------|-----------------|--------|
| GJ | kWhr | Tonne CO2 | G/seq.m | G/seq.m | Tonne CO2 | kWhr | \$/seq.m | GJ | kWhr | Tonne CO2 | Total CO2 Saving | % CO2 Saving | Fuel \$ Saving | Hydro \$ Saving | TOTAL \$ Saving | |
| 1,730 | 480,594 | 85.9 | 0.53 | 148 | \$27,238 | \$15.74 | \$0.057 | 504 | 140,000 | 3.1 | 0.15 | 43 | \$14,030 | \$27.84 | \$0.100 | \$4.31 |

Option 1 - Conventional Heat Pump

| NATURAL GAS | | | | ELECTRICITY | | | | ANNUAL GHG and ENERGY REDUCTIONS | | | | | | | | |
|-------------|---------|-----------|---------|-------------|-----------|---------|----------|----------------------------------|---------|-----------|------------------|-----------------|----------------|-----------------|-----------------|--------|
| GJ | kWhr | Tonne CO2 | G/seq.m | G/seq.m | Tonne CO2 | kWhr | \$/seq.m | GJ | kWhr | Tonne CO2 | Total CO2 Saving | % CO2 Reduction | Fuel \$ Saving | Hydro \$ Saving | TOTAL \$ Saving | |
| 1,557 | 432,535 | 77.3 | 0.48 | 133 | \$24,514 | \$15.74 | \$0.057 | 454 | 126,000 | 2.8 | 0.14 | 39 | \$12,627 | \$27.84 | \$0.100 | \$3.88 |

Option 2 - Ground Source Heat Pump

| NATURAL GAS | | | | ELECTRICITY | | | | ANNUAL GHG and ENERGY REDUCTIONS | | | | | | | | |
|-------------|--------|-----------|---------|-------------|-----------|---------|----------|----------------------------------|---------|-----------|------------------|-----------------|----------------|-----------------|-----------------|--------|
| GJ | kWhr | Tonne CO2 | G/seq.m | G/seq.m | Tonne CO2 | kWhr | \$/seq.m | GJ | kWhr | Tonne CO2 | Total CO2 Saving | % CO2 Reduction | Fuel \$ Saving | Hydro \$ Saving | TOTAL \$ Saving | |
| 173 | 48,059 | 8.6 | 0.05 | 15 | \$2,724 | \$15.74 | \$0.057 | 1,159 | 322,000 | 7.1 | 0.36 | 99 | \$32,269 | \$27.84 | \$0.100 | \$9.92 |



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 3
Ministry Priority:

'monica schulte' (PRD01)

Project No: N/A

Request Type: New

Part A - Project Identification

| | | | |
|---------------------------------|--|--------------------------------|------------------------------|
| 1. Capital Plan Year: 2010/2011 | 2. SD Ref. No.: 151 | 3. Last Modified: Jun. 2, 2010 | 4. Submitted On: unsubmitted |
| 5. SD No. 08 | 6. SD Name Kootenay Lake | 7. Municipality: NELSON | 8. Asset No.: 100270 |
| 9. Facility No.: 07013 | 10. Facility Name: L V ROGERS SECONDARY | Facility Type: | |
| 13. Proj. Cd.: MECHUP | 14. Project Description: LV ROGERS MECHANICAL SYSTEM UPGRADE | 11. Current: Secondary School | |
| 15. Proj. Type: MAJOR | | 12. Proposed: Secondary School | |

Part B - Capacity, Area Factors and Allowances

| | | | | | |
|--|---------|---------------------------------|--------------|--------------------------|--|
| Nominal Capacity: | | Kindergarten | Grades 1 - 7 | Grades 8 - 12 | 7. Grade Configuration |
| 1. Actual Existing: | | 0 | 0 | 725 | 9-12 |
| 2. Capacity Adjustments: | | 0 | 0 | 0 | |
| 3. Proposed Higher Priority Additions: | | 0 | 0 | 0 | |
| 4. Total Existing: | | 0 | 0 | 725 | |
| 5. Proposed Addition: | | 0 | 0 | 0 | |
| 6. Proposed Total Capacity: | | 0 | 0 | 725 | 8. 9-12 |
| Site Area (ha): | | Allowable Building Area (sq.m.) | | | Allowable Renovation Area (sq.m.) |
| 9. Required Size: | 0.0 | 12. Total Allowable Area: | 0.0 | | 16. Renovations Associated With Additions (%): |
| 10. Existing Area: | 0.0 | 13. Existing Area: | 0.0 | | 17. Renovation Area: |
| 11. Total New Area: | 0.0 | 14. Area to be demolished: | 0.0 | | 0.00 |
| | | 15. Area of New Space: | 0.0 | | 18. Renovation Unit Rate: |
| | | | | | 0 |
| Construction Cost Factors: | | | | Equipment Allowance (%): | |
| 19. Base Unit Rate: | 1065.00 | 20. Air Conditioning: | 0 | LFA: 0.00 | MF: 1.00 |
| 21. Project Size Factor: | 1.090 | 22. Location Factor: | 2.513 | 23. Ground Factor: | 1.00 |
| | | | | 24. New Space: | 25.9 |
| | | | | 25. Freight Allowance: | 8.609 |

Part C - Estimated Budget

| | | | | | | | | |
|-------------------------|--|----------------------------------|-----------|---------------------------------------|----------------------|---|-----------|---|
| Site Acquisition: | | 1. Purchase: | 0 | 2. Other Cost: | 0 | 3. Subtotal: | 0 | |
| Site Development: | | 4. Development Cost Charges: | 0 | 5. Offsite Costs: | 0 | 6. Adjusted Site Development: | 0 | |
| | | 7. Supplementary Site: | 0 | 8. None: | 0 | | 0 | |
| New Construction: | | 9. New Area: | 0.0 | Renovations: | 13. Renovation Area: | 0.00 | | |
| | | 10. Adjusted Unit Rate: | 0.0000 | 14. Renovation Unit Rate: | 0 | 15. Subtotal: | 0 | |
| | | 11. Subtotal: | 0 | 16. Supplementary Costs: | 0 | 17. Other Costs: | 0 | |
| | | 12. Supplementary Building: | 0 | 18. Build Total: | 0 | 19. Reno Cost: | 0 | |
| Building Costs: | | 20. Subtotal: | 0 | 21. New Area: | 0.00 | 22. Area Entitled to Equipment Replacement: | 0.00 | |
| Equipment Allowance: | | 23. Equipment Freight Allowance: | 0 | 24. New Fee: | 0.0000 | 25. Site Dev.: | 0 | |
| | | 26. New: | 0 | 27. Renovation: | 0 | 28. Contingency: | 0 | |
| | | 29. New: | 0 | 30. Renovation: | 0 | 31. Other: | 1,678,300 | |
| | | 32. Mechanical System Upgrade | | 33. Phases: | 34. Site: | 0 | 35. Plan: | 0 |
| | | 36. Completion: | 1,678,300 | 37. Planning Costs in Planning Phase: | 0 | 38. In Completion Phase: | 0 | |
| Total Estimated Budget: | | 39. Total Estimated Budget: | 1,678,300 | | | | | |

Part D - Schedule and Funding

| Project Cost Schedule: | | Site | Planning | Completion |
|------------------------|---------------------|-----------|-----------|------------|
| | 1. Year: | 2012/2013 | 2012/2013 | 2011/2012 |
| | 2. Cost: | 0 | 0 | 1,678,300 |
| Funding Source: | 3. Bylaw Capital: | 0 | 0 | 1,678,300 |
| | 4. Capital Reserve: | 0 | 0 | 0 |
| | 5. Land Reserve: | 0 | | 0 |
| | 6. Local Capital: | 0 | 0 | 0 |

Part E - Approved Funding

| | | | | |
|---------------|---------------------|-----------|-----------|-----------|
| Phase Status: | 1. Status: | Requested | Requested | Requested |
| Approved: | 2. Bylaw Capital: | 0 | 0 | 0 |
| | 3. Capital Reserve: | 0 | 0 | 0 |
| | 4. Land Reserve: | 0 | | 0 |
| | 5. Local Capital: | 0 | 0 | 0 |
| Variance: | 6. Variance | 0 | 0 | 1,678,300 |
| Net Request: | 7. Bylaw Capital: | 0 | 0 | 1,678,300 |
| | 8. Capital Reserve: | 0 | 0 | 0 |
| | 9. Land Reserve: | 0 | 0 | 0 |
| | 10. Local Capital: | 0 | 0 | 0 |

Part F - Comments

LV ROGERS SECONDARY SCHOOL

HVAC SYSTEMS ASSESSMENT SCHOOL DISTRICT NO. 8 (Kootenay)

Nelson, B.C.

May 31, 2010



1.0 Executive Summary

- The existing structure is well maintained and is good shape.
- The school appears to be well utilized.
- Existing HVAC system energy supply can be augmented by a Ground Source heat system fairly simply.
- The school is the largest energy consumer in the district.
- A Ground Source Heat Pump (GSHP) and woodshops upgrade is estimated at \$1,680,000.
- A GSHP will save 142 tonnes of CO2 Per Year

2.0 Description of Existing Building

- Area of Building: 10,080m²
- The building is a combination of 2 and 3 story building more or less contoured to the slopes of Nelson.
- Original Building date late 1960's. Additions were done throughout the 70's. An architectural systems upgrade and gym addition was done in 1995/

3.0 Description of Existing Mechanical Systems

- The bulk of the building is served by a constant volume reheat system. Air handling units supply constant volume tempered ventilation air and reheat function is provided by coils in the supply air ductwork.
- Gymnasium, Fine arts and shops areas are served by individual or combined air handling unit with hydronic heating. Mechanical cooling is not provided.
- These systems were upgraded in 1995. These system are functional and are in good repair.
- The wood shop sawdust collection system employer an older style sawdust collection system that is a housekeeping problem, is undersized and is located inside a enclosure where there is no explosion venting. This will need to be upgrading.

4.0 Recommended Mechanical Upgrade

Ground Source Heat Pump.

- Water to water heat pumps will be used to provide heating effect to the hydronic heating system. A system size of approximately 120 tons will provide 65% to 75% of the building heating loads in the average degree-day year. Ground systems will need to be vertical as there is limited site available. CO2 sensors will be introduced to help minimize the overall fresh air loads.

Shops

- Wood shop will be provided with a new sawdust collector. The collector will be of a style where the unit can be located outside and will be reconfigured to recirculate the air back to the building for an energy saving.

5.0 Appendix

- Construction estimates
- Energy and carbon saving calculation.

LV Rogers Estimate

| IDENT | Notes | Existing Unit | Qty | Ton | Unit | Unit Costs | Accessories | Roof Curb | Econo | Damper motor | Unit Costs | Equipment Costs | Install | Duct | Insulation | Pipe | Balance, Misc | Controls | Electrical | Roofing | Capantry | Misc. | Subtotal | HST | Total | FEE & Contingen cy | 31-May-10 GRAND TOTAL | |
|--------------------------------|---|---------------|-----|-----|--------------|------------|-------------|-----------|-------|--------------|------------|-----------------|----------|----------|------------|-----------|---------------|----------|------------|----------|-----------|-------------|-----------|-------------|-----------|--------------------|-----------------------|-----------|
| GENERAL SYSTEM UPGRADE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Demolition | | 1 | | | | | | | | \$5,000 | | | | | | | | | | | | | | | | | |
| | Wood Shop | | 1 | | cellulom | \$50,000 | | | | | \$45,000 | \$45,000 | \$11,250 | \$5,000 | \$1,500 | | \$2,000 | \$2,000 | \$2,500 | | \$2,000 | \$9,200 | \$90,550 | \$9,700 | \$90,250 | \$15,950 | \$105,600 | |
| | CO2 Upgrade | | 46 | | | \$1,200 | | | | | | | | | | | | \$55,200 | | | | \$7,200 | \$62,400 | \$7,500 | \$69,900 | \$11,900 | \$81,800 | |
| | Sub Total | | | | | | | | | | \$45,000 | \$16,250 | \$5,000 | \$5,000 | \$1,500 | | \$2,000 | \$57,200 | \$2,500 | | \$2,000 | \$17,150 | \$146,600 | \$17,900 | \$166,500 | \$28,950 | \$194,850 | |
| GROUND SOURCE HEAT PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ground Heat Exchanger -Included ground repair | | 120 | | | \$5,000 | | | | | | | | | | \$600,000 | | | | | | | | | | | | \$886,500 |
| | Water to water-Heat pump | | 3 | | 40 ton units | \$88,000 | | | | | \$264,000 | \$66,000 | \$5,000 | \$2,250 | \$750 | \$14,400 | \$14,400 | \$16,500 | | \$10,000 | \$49,300 | \$426,200 | \$51,400 | \$479,600 | \$81,950 | \$561,150 | | |
| | Minor Cite Pumps | | 1 | | | \$1,000 | | | | | \$4,000 | \$1,000 | \$500 | \$750 | \$250 | \$1,200 | \$1,200 | \$2,500 | | \$500 | \$1,400 | \$12,100 | \$1,500 | \$13,600 | \$2,350 | \$15,950 | | |
| | Major Cite Pumps | | 1 | | | \$4,000 | | | | | \$80 | \$4,000 | \$4,000 | | | \$1,600 | \$1,600 | \$13,600 | | \$10,900 | \$13,600 | \$1,650 | \$15,250 | \$2,600 | \$17,850 | | | |
| | Connection from mechanical to GSHP | | 100 | | 4" - Piping | | | | | | \$268,000 | \$67,000 | \$6,500 | \$61,000 | \$1,000 | \$15,000 | \$15,000 | \$19,000 | | \$10,900 | \$330,900 | \$1,131,900 | \$135,950 | \$1,267,850 | \$215,600 | \$1,483,450 | | |
| | Sub Total | | | | | | | | | | \$313,000 | \$83,250 | \$5,000 | \$5,000 | \$11,000 | \$61,000 | \$3,000 | \$72,600 | \$21,500 | \$12,500 | \$147,450 | \$1,280,500 | \$155,850 | \$1,434,350 | \$243,950 | \$1,678,900 | | |
| | GRAND TOTAL | | | | | | | | | | 22% | | 6% | 0% | 1% | 43% | 0% | 5% | 1% | 1% | 10% | 89% | 11% | | 17% | | | |

LV Rogers Secondary School

2010 May 31

ANNUAL UTILITY COSTS for HVAC SYSTEM UPGRADE

Effective area 10,080 sq.m Current Enrollment Estimate 800 dents estimated

EXISTING CONSUMPTION

| NATURAL GAS | | | | ELECTRICITY | | | | ANNUAL GHG and ENERGY REDUCTIONS | | | | | |
|-------------|-----------|-----------|----------|-------------|-----------|----------|---------|----------------------------------|------------|--------------|----------------|-----------------|-----------------|
| GJ | kWhr | Tonne CO2 | G/Jsq.m. | kWh/sq.m. | Tonne CO2 | G/Jsq.m. | \$/sq.m | Tonne CO2 | CO2 Saving | % CO2 Saving | Fuel \$ Saving | Hydro \$ Saving | TOTAL \$ Saving |
| 4,350 | 1,208,430 | 218.0 | 0.43 | 120 | 0.31 | 85 | \$8.25 | 2,350.0 | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

45% Increase Estimate Ground Source Heat Pump

| NATURAL GAS | | | | ELECTRICITY | | | | ANNUAL GHG and ENERGY REDUCTIONS | | | | | |
|-------------|---------|-----------|----------|-------------|-----------|----------|---------|----------------------------------|------------|-----------------|----------------|-----------------|-----------------|
| GJ | kWhr | Tonne CO2 | G/Jsq.m. | kWh/sq.m. | Tonne CO2 | G/Jsq.m. | \$/sq.m | Tonne CO2 | CO2 Saving | % CO2 Reduction | Fuel \$ Saving | Hydro \$ Saving | TOTAL \$ Saving |
| 1,305 | 382,529 | 64.8 | 0.13 | 36 | 0.45 | 124 | \$9.08 | 92.4 | -8.6 | 61% | -\$35,000 | -\$28,350 | -\$63,350 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 4
Ministry Priority:

'monica schulte' (PRD01)

Project No: 116001

Request Type: Update

Part A - Project Identification

| | | | |
|---------------------------------|--|--------------------------------|------------------------------|
| 1. Capital Plan Year: 2010/2011 | 2. SD Ref. No.: 202 | 3. Last Modified: Jun. 2, 2010 | 4. Submitted On: unsubmitted |
| 5. SD No. 08 | 6. SD Name: Kootenay Lake | 7. Municipality: NELSON | 8. Asset No.: 100352 |
| 9. Facility No.: 07504 | 10. Facility Name: BUS GARAGE,DISTRICT | Facility Type: | |
| 13. Proj. Cd.: BUSREP | 14. Project Description: REPLACE 4 - 72 PASSENGER VANS (7087, 7088, 7089, 9080) | 11. Current: | Maintenance |
| 15. Proj. Type: MINOR | | 12. Proposed: | Maintenance |

Part B - Capacity, Area Factors and Allowances

| Nominal Capacity: | Kindergarten | Grades 1 - 7 | Grades 8 - 12 | 7. Grade Configuration |
|--|--------------|--------------|---------------|------------------------|
| 1. Actual Existing: | 0 | 0 | 0 | UNKN |
| 2. Capacity Adjustments: | 0 | 0 | 0 | |
| 3. Proposed Higher Priority Additions: | 0 | 0 | 0 | |
| 4. Total Existing: | 0 | 0 | 0 | |
| 5. Proposed Addition: | 0 | 0 | 0 | |
| 6. Proposed Total Capacity: | 0 | 0 | 0 | 8. UNKN |

| Site Area (ha): | Allowable Building Area (sq.m.) | Allowable Renovation Area (sq.m.) |
|-------------------------|---------------------------------|--|
| 9. Required Size: 0.0 | 12. Total Allowable Area: 0.0 | 16. Renovations Associated With Additions (%): 0 |
| 10. Existing Area: 0.0 | 13. Existing Area: 0.0 | 17. Renovation Area: 0.00 |
| 11. Total New Area: 0.0 | 14. Area to be demolished: 0.0 | 18. Renovation Unit Rate: 0 |
| | 15. Area of New Space: 0.0 | |

| Construction Cost Factors: | Equipment Allowance (%): |
|--------------------------------|------------------------------|
| 19. Base Unit Rate: 1100.00 | 24. New Space: 0.0 |
| 20. Air Conditioning: 0 | 25. Freight Allowance: 8.609 |
| 21. Project Size Factor: 1.000 | |
| 22. Location Factor: 2.513 | |
| LFA: 0.00 | |
| MF: 1.00 | |
| 23. Ground Factor: 1.00 | |

Part C - Estimated Budget

| | | | | Subtotal |
|-----------------------------|---|----------|----------------------------------|-----------------------------|
| <u>Site Acquisition:</u> | 1. Purchase: | 0 | 2. Other Cost: | 0 |
| <u>Site Development:</u> | 4. Development Cost Charges: | 0 | | |
| | 5. Offsite Costs: | 0 | | |
| | 6. Adjusted Site Development: | 0 | 0 | None |
| | 7. Supplementary Site: | 0 | | |
| <u>New Construction:</u> | 9. New Area: | 0.0 | <u>Renovations:</u> | 13. Renovation Area: 0.00 |
| | 10. Adjusted Unit Rate: | 0.0000 | | 14. Renovation Unit Rate: 0 |
| | 11. Subtotal: | 0 | | 15. Subtotal: 0 |
| | 12. Supplementary Building: | 0 | | 16. Supplementary Costs: 0 |
| | | | | 17. Other Costs: 0 |
| <u>Building Costs:</u> | 18. Build Total: | 0 | | 19. Reno Cost: 0 |
| | | | Area | 20. 0 |
| <u>Equipment Allowance:</u> | | | 21. New Area: | 0.00 |
| | 22. Area Entitled to Equipment Replacement: | 0.00 | | 0 |
| | | | 23. Equipment Freight Allowance: | 0 |
| New Fee: 0.0000 | Reno Fee: 0.0000 | | | 24. 0 |
| Fees: 25. Site Dev.: | 0 | 26. New: | 0 | 27. Renovation: 0 |
| Contingency: | 29. New: | 0 | 30. Renovation: | 0 |
| <u>Other:</u> | 32. BUS REPLACEMENT | | | 33. 476,000 |
| <u>Phases:</u> | 34. Site: | 0 | 35. Plan: | 0 |
| | 37. Planning Costs in Planning Phase: | 0 | 36. Completion: | 476,000 |
| | | | 38. In Completion Phase: | 0 |
| Total Estimated Budget: | | | | 39. 476,000 |

Part D - Schedule and Funding

| Project Cost Schedule: | | Site | Planning | Completion |
|------------------------|---------------------|-----------|-----------|------------|
| | 1. Year: | 2012/2013 | 2012/2013 | 2010/2011 |
| | 2. Cost: | 0 | 0 | 476,000 |
| Funding Source: | 3. Bylaw Capital: | 0 | 0 | 476,000 |
| | 4. Capital Reserve: | 0 | 0 | 0 |
| | 5. Land Reserve: | 0 | | 0 |
| | 6. Local Capital: | 0 | 0 | 0 |

Part E - Approved Funding

| | | | | |
|---------------|---------------------|-----------|-----------|-----------|
| Phase Status: | 1. Status: | Requested | Requested | Requested |
| Approved: | 2. Bylaw Capital: | 0 | 0 | 0 |
| | 3. Capital Reserve: | 0 | 0 | 0 |
| | 4. Land Reserve: | 0 | | 0 |
| | 5. Local Capital: | 0 | 0 | 0 |
| Variance: | 6. Variance | 0 | 0 | 476,000 |
| Net Request: | 7. Bylaw Capital: | 0 | 0 | 476,000 |
| | 8. Capital Reserve: | 0 | 0 | 0 |
| | 9. Land Reserve: | 0 | 0 | 0 |
| | 10. Local Capital: | 0 | 0 | 0 |

Part F - Comments



Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7701486

PG
45216
PG45216

DECAL EXPIRY DATE
31 MAY 2011

INSPECTION RESULT: **Pass** WORK ORDER # INSPECTION DATE: **10 MAY 2010** INSPECTION COMPLETE DATE/TIME: **10 MAY 2010 13:24**
 INSPECTION TYPE: **Complete**
 REASON FOR INSPECTION: **Annual** REASON NOTE:
 COLLISION REPAIR FACILITY: TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M05909-005**
 INSPECTOR'S NAME: **PETERSON, GARY BRUCE**
 CARD EXPIRY DATE: **29 FEB 2012**
 FACILITY NUMBER: **P4638-018**
 FACILITY NAME: **SCHOOL DISTRICT NO. 8**
 WORKING ON BEHALF OF FACILITY:
 INSPECTION CLASS: **5 - School Bus**

OWNER/LESSEE: **Board of Education of S.D. #8**
 ADDRESS: **570 Johnstone Rd.**
 CITY: **Nelson** PROV: **BC** POSTAL CODE: **V1L6J2**
 REGISTRATION NUMBER: **06312668** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **2547CC**
 YEAR: **1998** MAKE: **BLUEBIRD** MODEL:
 BODY STYLE: **BUS** VIN: **1HVBBAAN2WH594677**
 ODOMETER: **204879 KM** FUEL TYPE: **Diesel**
 UNIT/FLEET #: **7087** BRAKE TYPE: **Air**
 (Optional)

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

| | F | R | P | PC | C | NA | | F | R | P | PC | C | NA |
|---|---|---|---|----|---|----|---|---|---|---|----|---|----|
| Section 1 - Power Train | | | ✓ | | | | Pressure Fuel | | | | | | |
| | | | | | | | Liquid Propane Gas | | | | | | ✓ |
| | | | | | | | Compressed Natural Gas | | | | | | ✓ |
| Section 2 - Suspension | | | ✓ | | | | Pressure Fuel Inspector's Name & Number | | | | | | |
| Section 3 - Hydraulic Brakes | | | | | | ✓ | Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm) | | | | | | |
| Section 3A - Air Brakes | | | ✓ | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| Section 4 - Steering | | | ✓ | | | | Type: Clamp Clamp | | | | | | |
| Section 5 - Instruments, Auxilliary Equipment | | | ✓ | | | | Size: 16 30 | | | | | | |
| Section 6 - Lamps | | | ✓ | | | | Slack: Auto Auto | | | | | | |
| Section 7 - Electrical System | | | ✓ | | | | Left: 32 36 | | | | | | |
| Section 8 - Body & Frame | | ✓ | | | | | Right: 32 36 | | | | | | |
| Section 8 - Body & Frame | | | | | | | Comments: | | | | | | |
| Section 9 - Tires & Wheels | | | ✓ | | | | Air Brake Camshaft Rotation Measurement (degrees) | | | | | | |
| Section 10 - Couplers & Hitches | | | | | | ✓ | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| Section 10 - Special Use Vehicle Components | | | | | | ✓ | Type: Lining (S Lining (S | | | | | | |
| | | | | | | | Left: 90 80 | | | | | | |
| | | | | | | | Right: 85 95 | | | | | | |
| | | | | | | | Comments: | | | | | | |
| | | | | | | | Brake Lining/Pad Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Lining (S Lining (S | | | | | | |
| | | | | | | | Left: 11 12 | | | | | | |
| | | | | | | | Right: 12 12 | | | | | | |
| | | | | | | | Comments: | | | | | | |
| | | | | | | | Rotor/Drum Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Drum Drum | | | | | | |
| | | | | | | | Left: 0 0 | | | | | | |
| | | | | | | | Right: 0 0 | | | | | | |
| | | | | | | | Comments: 1 - drums not removed; 2 - drums not removed | | | | | | |
| General Inspection Comments: | | | | | | | | | | | | | |

[Handwritten Signature]

Inspector's Name **PETERSON, GARY BRUCE**

Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

NOTICE: KEEP THIS VEHICLE INSPECTION REPORT WITH VEHICLE REGISTRATION

The information on this form is collected under the authority of the Motor Vehicle Act, Section 217. The information will be used to process your vehicle inspection. If you have any questions please call 250-952-0577 or visit our website at www.th.gov.bc.ca/cvse



Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7372153

PG
PG08882

DECAL EXPIRY DATE
31 JUL 2010

INSPECTION RESULT: Pass
INSPECTION TYPE: Complete
REASON FOR INSPECTION: Annual
COLLISION REPAIR FACILITY:

WORK ORDER # **INSPECTION DATE** **INSPECTION COMPLETE DATE/TIME**
 09 JUL 2009 09 JUL 2009 13:49

REASON NOTE:
TECHNICIAN NAME: **PHONE #:**

INSPECTOR'S NUMBER: M05909-004
INSPECTOR'S NAME: PETERSON, GARY BRUCE
CARD EXPIRY DATE: 28 FEB 2010
FACILITY NUMBER: P4638-018
FACILITY NAME: SCHOOL DISTRICT NO. 8
WORKING ON BEHALF OF FACILITY:
INSPECTION CLASS: 5 - School Bus

OWNER/LESSEE: Board of Education of SD # 8 Kootenay Lake
ADDRESS: 570 Johnstone Rd.
CITY: Nelson **PROV:** BC **POSTAL CODE:** V1L6J2
REGISTRATION NUMBER: 6315933 **VEHICLE JURISDICTION:** BC **PLATE NUMBER:** 2551CC
YEAR: 1998 **MAKE:** BLUEBIRD **MODEL:**
BODY STYLE: BUS **VIN:** 1HVBBAAN6WH594679
ODOMETER: 224731 KM **FUEL TYPE:** Diesel
UNIT/FLEET #: 7089 **BRAKE TYPE:** Air
 (Optional)

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

| | F | R | P | PC | C | NA | | F | R | P | PC | C | NA |
|---|---|---|---|----|---|----|--|---|---|---|----|---|----|
| Section 1 - Power Train | | | ✓ | | | | Pressure Fuel | | | | | | |
| | | | | | | | Liquid Propane Gas | | | | | | ✓ |
| | | | | | | | Compressed Natural Gas | | | | | | ✓ |
| Section 2 - Suspension | | | ✓ | | | | Pressure Fuel Inspector's Name & Number | | | | | | |
| Section 3 - Hydraulic Brakes | | | | | | ✓ | Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm) | | | | | | |
| Section 3A - Air Brakes | | | ✓ | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| Section 4 - Steering | | | ✓ | | | | Type: Clamp Clamp | | | | | | |
| Section 5 - Instruments, Auxillary Equipment | | | ✓ | | | | Size: 16 30 | | | | | | |
| Section 6 - Lamps | | | ✓ | | | | Slack: Auto Auto | | | | | | |
| Section 7 - Electrical System | | | ✓ | | | | Left: 300 300 | | | | | | |
| Section 8 - Body & Frame | | | ✓ | | | | Right: 300 300 | | | | | | |
| Section 9 - Tires & Wheels | | | ✓ | | | | Comments: | | | | | | |
| Section 10 - Couplers & Hitches | | | | | | ✓ | Air Brake Camshaft Rotation Measurement (degrees) | | | | | | |
| Section 10 - Special Use Vehicle Components | | | | | | ✓ | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Left: 65 35 | | | | | | |
| | | | | | | | Right: 70 35 | | | | | | |
| | | | | | | | Comments: | | | | | | |
| | | | | | | | Brake Lining/Pad Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Lining (S Lining (S | | | | | | |
| | | | | | | | Left: 150 190 | | | | | | |
| | | | | | | | Right: 150 200 | | | | | | |
| | | | | | | | Comments: | | | | | | |
| | | | | | | | Rotor/Drum Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Drum Drum | | | | | | |
| | | | | | | | Left: 0 0 | | | | | | |
| | | | | | | | Right: 0 0 | | | | | | |
| | | | | | | | Comments: 1 - drums not removed; 2 - drums not removed | | | | | | |

General Inspection Comments:

Inspector's Name **PETERSON, GARY BRUCE**

Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

NOTICE: KEEP THIS VEHICLE INSPECTION REPORT WITH VEHICLE REGISTRATION

The information on this form is collected under the authority of the Motor Vehicle Act, Section 217. The information will be used to process your vehicle inspection. If you have any questions please call 250-952-0577 or visit our website at www.th.gov.bc.ca/cvse



Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7256906

PG
08865
PG08865

DECAL EXPIRY DATE
31 MAR 2010

INSPECTION RESULT: **Pass**
 INSPECTION TYPE: **Complete**
 REASON FOR INSPECTION: **Annual**
 COLLISION REPAIR FACILITY:

WORK ORDER # INSPECTION DATE INSPECTION COMPLETE DATE/TIME
 31 MAR 2009 31 MAR 2009 13:33

REASON NOTE:
 TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M10204-005**
 INSPECTOR'S NAME: **HILGER, ROLAND**
 CARD EXPIRY DATE: **30 JUN 2010**
 FACILITY NUMBER: **P4638-015**
 FACILITY NAME: **SCHOOL DISTRICT NO. 8**
 WORKING ON BEHALF OF FACILITY:
 INSPECTION CLASS: **5 - School Bus**

OWNER/LESSEE: **School Dist #8 Kootenay Lake**
 ADDRESS: **570 Johnstone Rd**
 CITY: **Nelson** PROV: **BC** POSTAL CODE: **V1L6J2**
 REGISTRATION NUMBER: **0413342** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **8072DX**
 YEAR: **2000** MAKE: **THOMAS** MODEL:
 BODY STYLE: **BUS** VIN: **1HVBBAA0YH330604**
 ODOMETER: **245788 KM** FUEL TYPE: **Diesel**
 UNIT/FLEET #: **9080** BRAKE TYPE: **Air**
 (Optional)

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

| | F | R | P | PC | C | NA | | F | R | P | PC | C | NA |
|---|---|---|-------------------------------------|----|---|-------------------------------------|--|---|---|---|----|---|-------------------------------------|
| Section 1 - Power Train | | | <input checked="" type="checkbox"/> | | | | Pressure Fuel | | | | | | |
| | | | | | | | Liquid Propane Gas | | | | | | <input checked="" type="checkbox"/> |
| | | | | | | | Compressed Natural Gas | | | | | | <input checked="" type="checkbox"/> |
| Section 2 - Suspension | | | <input checked="" type="checkbox"/> | | | | Pressure Fuel Inspector's Name & Number | | | | | | |
| Section 3 - Hydraulic Brakes | | | | | | <input checked="" type="checkbox"/> | Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Clamp Clamp | | | | | | |
| | | | | | | | Size: 16 30L | | | | | | |
| Section 3A - Air Brakes | | | <input checked="" type="checkbox"/> | | | | Slack: Auto Auto | | | | | | |
| | | | | | | | Left: 35 38 | | | | | | |
| | | | | | | | Right: 33 39 | | | | | | |
| Section 4 - Steering | | | <input checked="" type="checkbox"/> | | | | Comments: | | | | | | |
| Section 5 - Instruments, Auxiliary Equipment | | | <input checked="" type="checkbox"/> | | | | Air Brake Camshaft Rotation Measurement (degrees) | | | | | | |
| Replace Driver's wiper switch | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Left: 70 85 | | | | | | |
| | | | | | | | Right: 70 85 | | | | | | |
| Section 6 - Lamps | | | <input checked="" type="checkbox"/> | | | | Comments: | | | | | | |
| Section 7 - Electrical System | | | <input checked="" type="checkbox"/> | | | | Brake Lining/Pad Measurement (mm) | | | | | | |
| | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Lining (S Lining (S | | | | | | |
| | | | | | | | Left: 14 13 | | | | | | |
| | | | | | | | Right: 14 13 | | | | | | |
| Section 8 - Body & Frame | | | <input checked="" type="checkbox"/> | | | | Comments: | | | | | | |
| Section 9 - Tires & Wheels | | | | | | | Rotor/Drum Measurement (mm) | | | | | | |
| Tighten RR wheel wheel nuts; bleeding | | | | | | | Axle # 1 2 3 4 5 6 7 8 9 | | | | | | |
| | | | | | | | Type: Drum Drum | | | | | | |
| | | | | | | | Left: 0 0 | | | | | | |
| | | | | | | | Right: 0 0 | | | | | | |
| Section 10 - Couplers & Hitches | | | | | | <input checked="" type="checkbox"/> | Comments: 1 - drums not puled; 2 - drums not pulled | | | | | | |
| Section 10 - Special Use Vehicle Components | | | | | | <input checked="" type="checkbox"/> | | | | | | | |

General Inspection Comments:

Inspector's Name **HILGER, ROLAND**

Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

NOTICE: KEEP THIS VEHICLE INSPECTION REPORT WITH VEHICLE REGISTRATION

The information on this form is collected under the authority of the Motor Vehicle Act, Section 217. The information will be used to process your vehicle inspection. If you have any questions please call 250-952-0577 or visit our website at www.th.gov.bc.ca/cvse

CP2 - Five Year Capital Plan Summary

Capital Plan Year: 2010/2011
Capital Plan Submission Date: Unsubmitted

School District: 08 Kootenay Lake

| Existing Project Priority No. | School District Reference No. | Project Title | Year One | Year Two | Year Three | Year Four | Year Five | Total Funding |
|-------------------------------|-------------------------------|---|-------------|-------------|--------------|-----------|-----------|---------------|
| 1 | 116036 | 100 REPLACE - TRAFALGAR MIDDLE SCHOOL TRAFALGAR ELEMENTARY/MIDDLE SCHOOL | \$0 | \$0 | \$26,552,231 | \$0 | \$0 | \$26,552,231 |
| 2 | N/A | 150 MECHUP - HUMIE ELEMENTARY SCHOOL HUMIE MECHANICAL SYSTEM UPGRADE | \$1,425,990 | \$0 | \$0 | \$0 | \$0 | \$1,425,990 |
| 3 | N/A | 151 MECHUP - L V ROGERS SECONDARY LV ROGERS MECHANICAL SYSTEM UPGRADE | \$0 | \$1,678,300 | \$0 | \$0 | \$0 | \$1,678,300 |
| 4 | 116001 | 202 BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER VANS (7087, 7088, 7089, 9080) | \$476,000 | \$0 | \$0 | \$0 | \$0 | \$476,000 |
| 5 | 116002 | 203 BUSREP - REPLACEMENT SCHOOL BUS REPLACE 3 - 72 PASSENGER BUSES (9081, 9082, 0081) | \$0 | \$357,000 | \$0 | \$0 | \$0 | \$357,000 |
| 6 | 116003 | 204 BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (0082, 0083, 1080, 1081) | \$0 | \$0 | \$476,000 | \$0 | \$0 | \$476,000 |
| 7 | 116013 | 205 BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (1082, 1083, 2080, 2081) | \$0 | \$0 | \$0 | \$476,000 | \$0 | \$476,000 |
| 8 | N/A | 206 BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (2082, 2083, 2084, 2085) | \$0 | \$0 | \$0 | \$0 | \$476,000 | \$476,000 |
| Total: | | | \$1,901,990 | \$2,035,300 | \$27,028,231 | \$476,000 | \$476,000 | \$31,917,521 |

Report Name: RDER0330

Report Title: School District Summary of Capacities and Projected Enrolment

Purpose: Report 10 years of forecasted enrolments (source 1558 report) and 2 years actual enrolments for the selected capital plan year.

Selection Parameters:

School District: 08 Kootenay Lake

Capital Plan Year: 2010/2011

Source Forms: Ministry of Education: form 1701

| Inclusion/Exclusion: | Ministry Projections | Ministry Actuals |
|--|----------------------|------------------|
| Standard School (type 0) | included | included |
| Continuing Education (type 1) | excluded | included |
| Distance Education Schools (type 2) | excluded | excluded |
| Alternate Program/School (type 3) | included | included |
| Provincial School (Jericho Hill) (type 4) | included | included |
| Youth Custody/Residential Attendance Centre (type 5) | included | included |
| Short Term Provincial Resource Programs (type 6) | included | included |
| Long Term Provincial Resource Programs (type 7) | included | included |
| Electronic Delivery Programs (type 8) | included | included |
| Open Independent Schools | excluded | excluded |
| Home School Registrations | excluded | excluded |
| Non- open Schools (closed or reserved) | excluded | excluded |
| Students Younger Than School Age | excluded | excluded |
| Students Older Than School Age | excluded | excluded |

