From:

Cavelti, John EDUC:EX

Sent:

Monday, December 22, 2014 11:08 AM

To:

Mark De Mello (mdemello@sd38.bc.ca)

Cc:

Palmer, Joel EDUC:EX; Chambers, Phillip R EDUC:EX

Subject:

Gilmore

Good morning Mark,

I am just following up on our telephone call two weeks ago about the currently supported seismic remediation project at James Gilmore Elementary. As this project will likely be delayed until your District's Long Range Facilities Plan is completed, we had discussed looking for another school that may be a better candidate to proceed more quickly.

I was wondering if you have had an opportunity to discuss this issue internally and if any other school would be brought forward in the short term for seismic remediation?

Many thanks and all the best for the holiday season,

John Cavelti

Planning Officer Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1

Fax: (250) 953²4985 E-mail John.Cavelti@gov.bc.ca

From:

Palmer, Joel EDUC:EX

Sent:

Tuesday, December 16, 2014 10:50 AM

To:

Cambridge, Janice EDUC:EX

Cc:

MacDonald, Maureen R EDUC:EX

Subject: Attachments: FW: Letter from Minister Peter Fassbender 174049 Sargent outgoing.pdf

Here's a SD38 letter that mentions James Gilmore

Joel Palmer

s.17

From: Minister, EDUC EDUC:EX Sent: Friday, July 4, 2014 12:33 PM

To: 'DSargent@sd38.bc.ca'
Cc: Palmer, Joel EDUC:EX

Subject: Letter from Minister Peter Fassbender

Please find attached a letter from the Minister of Education.



July 4, 2014

Ref: 174049

Donna Sargent, Chair Board of Education School District No. 38 (Richmond) 7811 Granville Ave Richmond BC V6Y 3E3 Email: dsargent@sd38.bc.ca

Dear Ms. Sargent:

Thank you for your letter of April, 22, 2014, regarding a recent directive that school districts across the province be required to share in the costs of major capital projects. Please accept my apologies for the delayed response.

As you may be aware, Budget 2014 made a firm commitment to balancing the provincial budget, which requires careful debt-to-GDP management to maintain BC's valuable triple-A credit rating. Where possible, government is trying to reduce the amount of borrowing required to fund capital projects and at the same time make progress toward the long-term goal of gradually reducing cash balances held by public agencies. For school districts, this involves contributing available local funds to the cost of major capital projects that are priorities for both government and school districts.

Ministry of Education and school district staff are meeting on a project-by-project basis to determine the level of local funding that a district can bring to these priority projects. School district cash balances are reviewed to ensure that districts are able to proceed with any planned projects, as well as meet any existing obligations.

Your District currently has supported capital projects at Henry Anderson Elementary and at James Gilmore Elementary. When you have completed the Project Definition Reports, please have your staff work with Ministry staff to determine the amount of local funding that your School District may have available to help fund these projects, which are priorities for both government and for your Board.

I also recognize the need for additional seismic projects in the Richmond School District as a result of recent assessments by APEGBC. Ministry staff will continue to work closely with your district to ensure these projects are added to the Seismic Mitigation Program.

.../2

On behalf of the Province, thank you for your Board's efforts in support of Richmond's students.

Sincerely,

Peter Fassbender

Minister

pc: Joel Palmer, Executive Director, Capital Management Branch

From:

Cavelti, John EDUC:EX

Sent:

Wednesday, December 3, 2014 8:07 AM

To:

Russ Sales

Cc:

XT:Frank, Greg FIN:IN; Palmer, Joel EDUC:EX; Chambers, Phillip R EDUC:EX

Subject:

Re: Alpha & Montecito

Russ,

Thanks for getting back to me.

22

If I get the drafts for review

tomorrow, would you be available Friday morning to go over them with me?

Thanks,

John Cavelti

Sent from my iPhone

On Dec 2, 2014, at 5:03 PM, Russ Sales < Russ.Sales@sd41.bc.ca> wrote:

John

I have just received Montecito with the changes and can send you a copy before I read it one more time if you would like as it is still Draft only.

Alpha will be ready Thursday for forwarding for your review as a draft only.

I think that we have been able to address the budget issues as we discussed in each of the drafts I will be forwarding to you I could give you a call and go over where we are or maybe it would be better once you have the draft in hand that we discuss any issues arising.

Thanks

Russ Sales

Director of Facilities Services

School District 41 (Burnaby)

5325 Kincaid Street

Burnaby, BC V5G 1W2

604-296-6900 ext. 661058

russ.sales@sd41.bc.ca

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

Sent: December-02-14 3:58 PM

To: Russ Sales

Cc: Greg Frank; Palmer, Joel EDUC:EX; Chambers, Phillip R EDUC:EX

Subject: RE: Alpha & Montecito

Russ.

As per my earlier email, is it possible to get an update on the PDRs Alpha and Montecito?

Many thanks,

John Cavelti

Planning Officer

Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1

Cell:

Fax: (250) 953-4985

E-mail John.Cavelti@gov.bc.ca

From: Cavelti, John EDUC:EX

Sent: Wednesday, November 26, 2014 3:47 PM

To: 'Russ Sales'

Subject: Alpha & Montecito

Importance: High

Russ,

I hope all is well.

Since our call on October 27th I haven't seen anything on either Alpha or Montecito except for a summary for Alpha from Carson. I want to keep these projects moving and am wondering when the next draft of the PDR is due? While we are waiting for the next document it might be a good idea to work through the budget to address the questions I had during our phone call.

Thanks,

John Cavelti

Planning Officer Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1

Cell: 5. Fax: (250) 953-4985

E-mail John.Cavelti@gov.bc.ca

From:

Cavelti, John EDUC:EX

Sent:

Friday, November 28, 2014 11:33 AM

To: Subject: 'Mark De Mello' RE: Fwd: Gilmore

Mark,

Thanks of the update.

John Cavelti Planning Officer Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1 Cell: 7: Fax: (250) 953-4985 E-mail John.Cavelti@gov.bc.ca

From: Mark De Mello [mailto:mdemello@sd38.bc.ca]

Sent: Friday, November 28, 2014 11:27 AM

To: Cavelti, John EDUC:EX

Cc: Mike Beausoleil; Zul Helal; Clive Mason

Subject: Re: Fwd: Gilmore

Hi John,

I've had a chat with Joel about this, and indicated that we will move on it after the LRFP is done. My original estimate was fall 2015, but the recent election has seen us with four new trustees, so I suspect that the process will be delayed even further. However, if it is possible to advance the project so that we are not waiting for the LRFP completion, we will make every effort to do so.

Mark

--- Original Message ----

From: "Cavelti, John EDUC:EX" < John Cavelti@gov.bc.ca > Nov-27-14 1:37:58 PM

Subject: Gilmore

To: Zul Helal View in Browser

Cc: "Chambers, Phillip R EDUC:EX" < Phillip.Chambers@gov.bc.ca>

Zul.

Is there any update on the Gilmore PDR or is this project awaiting the completion of the Long Range Facility Plan? Either way is there an estimated date for a draft PDR?

Many thanks,

John Cavelti

Planning Officer
Ministry of Education
Box 9151 Stn Prov Govt,
Victoria, BC V8W 9H1
Cell:
Fax: (250) 955-4985
E-mail John Cavelti@gov.bc.ca

From:

Chambers, Phillip R EDUC:EX

Sent:

Monday, December 1, 2014 11:15 AM

To:

Cavelti, John EDUC:EX; Palmer, Joel EDUC:EX

Subject:

RE: Fwd: Gilmore

We did talk about this a bit last week ... as they have been working on their LTFP for probably a year now, can we ask if they can at least say with some confidence that Gilmore will be part of their future planning, or not? If it is, I can't see why they can't just get on with the project.

PHILLIP CHAMBERS

Regional Director & Director Responsible for the Seismic Mitigation Program Capital Management Branch Ministry of Education



S. 17

m phillip.chambers@gov.bc.ca

From: Cavelti, John EDUC:EX

Sent: Friday, November 28, 2014 11:31 AM

To: Palmer, Joel EDUC:EX; Chambers, Phillip R EDUC:EX

Subject: FW: Fwd: Gilmore

Joel, Phil,

Somewhat concerned that we will see no movement on Gilmore for at <u>least</u> a year. This would indicate that we also can't try to get any of their other 20 seismic projects moving in the short term.

John Cavelti

Planning Officer Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1 Cell: 7: Fax: (250) 955-4985 E-mail John Cavelti@gov.bc.ca

From: Mark De Mello [mailto:mdemello@sd38.bc.ca]

Sent: Friday, November 28, 2014 11:27 AM

To: Cavelti, John EDUC: EX

Cc: Mike Beausoleil; Zul Helal; Clive Mason

Subject: Re: Fwd: Gilmore

Hi John,

I've had a chat with Joel about this, and indicated that we will move on it after the LRFP is done. My original estimate was fall 2015, but the recent election has seen us with four new trustees, so I suspect that the process will be delayed even further. However, if it is possible to advance the project so that we are not waiting for the LRFP completion, we will make every effort to do so.

Mark

---- Original Message ----

From: "Cavelti, John EDUC:EX" < John.Cavelti@gov.bc.ca> Nov-27-14 1:37:58 PM

Subject: Gilmore

To: Zul Helal View in Browser

Cc: "Chambers, Phillip R EDUC:EX" < Phillip Chambers@gov.bc.ca>

Zul,

Is there any update on the Gilmore PDR or is this project awaiting the completion of the Long Range Facility Plan? Either way is there an estimated date for a draft PDR?

Many thanks,
John Cavelti
Planning Officer
Ministry of Education
Box 9151 Stn Prov Govt,
Victoria, BC VEW 9H1
Cell:
Fax: (250) 95\$4985
E-mail_John.Cavelti@gov.bc.ca

From:

Zul Helal <zhelal@sd38.bc.ca>

Sent:

Friday, November 28, 2014 8:34 AM

To:

Cavelti, John EDUC:EX

Cc:

Chambers, Phillip R EDUC:EX

Subject:

Re: Gilmore

John.

It is waiting for the LFRP. I will get back you on the estimated date.

Sincerely,

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"Cavelti, John EDUC:EX" < John.Cavelti@gov.bc.ca > on November-27-14 at 1:37 PM -0800 wrote: Zul.

Is there any update on the Gilmore PDR or is this project awaiting the completion of the Long Range Facility Plan? Either way is there an estimated date for a draft PDR?

Many thanks,

John Cavelti

Planning Officer
Ministry of Education
Box 9151 Stn Prov Govt,
Victoria, BC V8W 9H1
Cell: —
Fax: (250) 953°4985
E-mail John Gavelti@gov.bc.ca

From:

Cavelti, John EDUC:EX

Sent:

Monday, October 27, 2014 1:22 PM

To:

'Russ Sales'

Subject: Attachments:

Alpha and Montecito PDRs As part of the Province.docx

Russ,

As discussed, here are the paragraphs that Phil would like to have added to each PDR summary. You will notice, that I have provided one for each school as they were supported in different years.

Thanks again for your time today,

John Cavelti

Planning Officer Ministry of Education

Box 9151 Stn Prov Govt, Victoria, BC V8W 9H1 Cell:

Fax: (250) 953-4985 E-mail John,Cavelti@gov.bc.ca

As part of the Province's Seismic Mitigation Program, Alpha Secondary was assessed as having high seismic structural risk to three of the school's six blocks. As the risk for one block was "High 1" (the highest risk rating), the Province included this school in the group of forty five projects supported to proceed to design and construction in 2012.

As part of the Province's Seismic Mitigation Program, Montecito Elementary was assessed as having high seismic structural risk to three of the school's six blocks. As the risk for one block was "High 1" (the highest risk rating), the Province included this school in the group of forty five projects supported to proceed to design and construction in 2013.

From:

Cavelti, John EDUC:EX

Sent:

Thursday, October 23, 2014 11:54 AM

To:

Chambers, Phillip R EDUC:EX

Cc:

Palmer, Joel EDUC:EX

Subject:

Re: QP

Russ not available today will be discussing PDRs on Monday

John Cavelti

Sent from my iPhone

On Oct 23, 2014, at 11:49 AM, "Cavelti, John EDUC:EX" < John.Cavelti@gov.bc.ca> wrote:

Montecito just rec'd PDR, will be discussing with district today or early next week. Has been entirely with district until a week or so ago.

Surrey presume reassessments reduced need to seismically upgrade. Two schools being added back onto list (sorry I forget which ones)

John Cavelti

Sent from my iPhone

On Oct 23, 2014, at 11:27 AM, "Palmer, Joel EDUC:EX" < Joel Palmer@gov.bc.ca > wrote:

Some quick answers for these please. I know some of them are obvious, esp Montecito and Surrey.

Thanks

Joel

Seismic Upgrading

- When is Premier going to do as she promised to make schools safe for our kids?
- Announced five different timelines for this program. Delays are costing our schools and districts every year. Six schools from 2003 list haven't been upgraded yet. How many years will BC kids have to go to schools that won't withstand a major earthquake?
- · Would the Premier please explain when Burnaby will see the promised construction to take place on Montecito (sp?) school?
- Three Surrey schools were promised upgrades 11 years ago and nothing has happened. How can anyone trust premier when she says anything.

Joel Palmer | Executive Director | Capital Management Branch | Ministry of Education

Phone:

| email: Joel.Palmer@gov.bc.ca

From:

Cavelti, John EDUC:EX

Sent:

Thursday, October 23, 2014 7:44 AM

To:

Russ Sales

Subject:

PDRs

Russ,

I would like to go through the documents with you if that is possible, are you available to discuss the PDRs this afternoon?

I am available from 1-3 today, if not today it would have to be early next week.

Let me know what works for you and I will give you a call, thanks.

John Cavelti

Planning Officer Ministry of Education

From: Hugh Skinner <Hugh.Skinner@ghma.com>

Sent: Thursday, April 17, 2014 1:16 PM

To: Carson Goerz

Cc: Mark Mathiasen; Cavelti, John EDUC:EX; Chambers, Phillip R EDUC:EX

Subject: FW: SPIR Summary Pages

Attachments: SPIR SD41 Burnaby North Block6 FINAL March 2014.pdf

Carson,

Re: Alpha Secondary PDR. Email below F.Y.I.

The newer SPIRs (example attached from Burnaby North) have the one (1) page summary that Philip Chambers is referring to in his email below. The older SPIRS don't have the same one (1) page summary. John Cavelti should be able to provide you with some guidance on what is the key information that he is looking for from the older SPIRs.

All the best,

Hugh

Hugh Skinner CEFP Director of Planning Services



Email: hugh.skinner@ghma.com

Direct Line / Signature / Web: www.ghma.com



From: Chambers, Phillip R EDUC:EX [mailto:Phillip.Chambers@gov.bc.ca]

Sent: Wednesday, April 16, 2014 11:50 AM

To: 'Russell Horswill (russell.horswill@sd71.bc.ca)'; Hugh Skinner; Mark Mathiasen; 'lan Heselgrave

(ian.heselgrave@sd71.bc.ca)'
Cc: Kane, Kathleen EDUC:EX
Subject: SPIR Summary Pages

One last thought I failed to mention for your PDR, we now have SPIR summary pages that can be attached to the report. This is makes the PDR's much more concise, and means we don't have to wade through the much longer full SPIR's.

PHILLIP CHAMBERS

Regional Manager & Manager Responsible for the Seismic Mitigation Program Capital Management Branch Ministry of Education



ີສຸ່ ⊯ phillip.chambers@gov.bc.ca

Seismic Project Identification Report

REPORT NO. SPIR-41-013

for

BLOCK #02-6 (Classrooms/Admin) BURNABY NORTH SECONDARY SCHOOL

751 Hammarskjold Drive Burnaby, BC V5B 4A1

Facility No: 4141002

School District No. 41
Burnaby School District

Structural Engineering Guidelines for the Performance-based Seismic Assessment and Retrofit of Low-rise British Columbia School

Report No: SPIR-41-013 March, 2014 JW Engineering and BBP

PREFACE Page: (ii)

The Seismic Project Identification Report (SPIR) is a new report format that documents the seismic retrofit concepts proposed for a high risk school block.

The Ministry of Education (Ministry) requires that a School District submit an SPIR for any school block as the first step in the District's request for seismic retrofit funding.

APEGBC, as the Ministry's technical advisor for the Seismic Mitigation Program, was requested by the Ministry to develop the format and technical requirements for the SPIR.

SPIRs are due diligence documents that are designed to present seismic upgrading options to assist seismic safety planning by both the School District and the Ministry. The expectation is that SPIR information will guide the seismic upgrading of school blocks in a safe and cost-effective manner.

Ongoing feedback from engineering practitioners is encouraged to advance future refinements in the format for the SPIR document.

SPIR SUMMARY Page: (iii)

No.	Deliverable Description	Update Details
1	School Name and School District	Burnaby North Secondary SD 41 (Burnaby)
2	Block No. / Name	Block #02-6 Classrooms/Administration
3	Floor Area Guide	• 2740 m ²
4	Year and Type of Construction	1955, 68, 71, 76, 87 1 storey Unreinforced Masonry Concrete Block Timber Roof
5	Soil Type	Site Class C
6	Risk	• H1
7	Life Safety Retrofit Features	Vertically reinforce existing masonry walls Diaphragm upgrades New R/Mas lateral elements New steel posts and girts FRP to enhance shear capacity of some existing masonry walls
8	Phased Retrofit Features	Similar scope to Life-safety but less new R/Mas and FRP, and some load bearing URM walls left unreinforced.
9	Enhanced Performance Retrofit Features	Not Applicable
10	Schedule	14 months (2 summers and one school year)
11	Construction Risks	• HAZMAT
12	Cost Estimates	 \$4,147,580 (\$1514/m²) for life safety retrofit \$3,835,024 (\$1400/m²) for phased retrofit
13	PDR Requirements	HAZMAT testing

(Professional Seal and Signature)

Date

<u>CH</u>	IAPTER Section Title	Page
	PREFACE	(ii)
1.0	BLOCK PHOTOGRAPHS	1-1
2.0	KEY PLAN AND ADJACENCY	2-1
3.0	BASIC EXISTING BLOCK DATA	3-1
4.0	PRINCIPAL ELEMENTS OF EXISTING BLOCK	
	Vertical Load-bearing Supports (VLS)	4-1
	LDRSs	4-1
	Out-of-Plane URM Walls	4-2
	Roof Diaphragm	4-2
	Floor Diaphragm	4-3
	Connections	4-3
5.0	RETROFIT PRIORITY RANKING FOR EXISTING BLOCK	5-1
6.0	RETROFIT OVERVIEW	6-1
7.0	LIFE SAFETY RETROFIT	
	Retrofit Concept	7-1
	Retrofit LDRSs	7-3
	SPIR Benchmarks	7-3
	Scope of Retrofit	7-3
	Retrofit Cost Estimate	7-3
	Schedule	7-4
	Construction Risks	7-4
8.0	PHASED RETROFIT	8-1
10.0	RETROFIT SUMMARY	10-1
	APPENDIX A: SCOPE OF RETROFIT DETAILS	A-1
	APPENDIX B: RETROFIT COST ESTIMATE REPORT	B-1
	APPENDIX C: REPRESENTATIVE STRUCTURAL DETAILS	C-1
	APPENDIX D: PHOTOGRAPHS	D-1

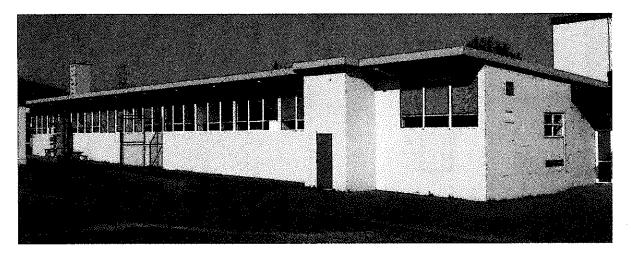


Figure 1.1: West Elevation of Main Block

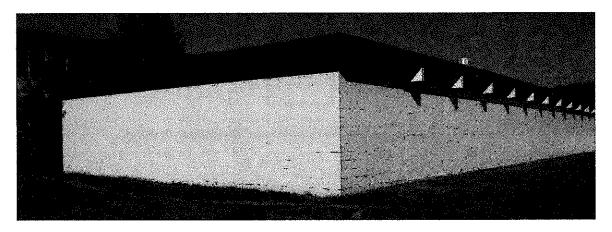


Figure 1.2: South Elevation of West Building



Figure 1.3: North Elevation of Library Addition

Report No: SPIR-41-013 March, 2014 JW Engineering and BBP

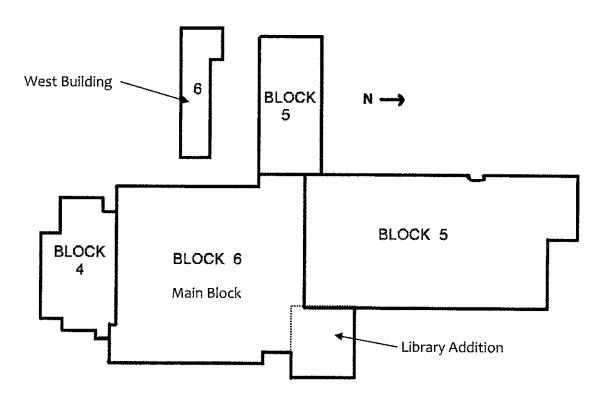


Figure 2.1: Key Plan for Burnaby North (South "Kensington" Building)

Identification of Retrofit Block (Box #2-1) Block #6: Classrooms/Administration Adjacency (Box #2-2) No Significant Adjacency Issues Significant Adjacency Issues

Adjacency Comments (Box #2-3)

This block is built integrally with the adjacent block 4. Despite the difference in storey height between the main stage structure and the adjacent lower areas in block 4, there are no significant issues. Form of construction is similar and anticipated storey drifts will also be similar. No Vertical Load Bearing elements appear to be threatened. Adjacency to Block 5 is a problem along the South edge of Block 5. The storey heights, construction materials and drifts will be different. A seismic gap is recommended

School	District	(Box #3-1)
--------	----------	------------

Burnaby (SD 41)

Block Name (Box #3-2)

Classrooms/Administration

Structural Firm (Box #3-3)

Bush, Bohlman & Partners
John A Wallace Engineering Ltd.

Engineer-of-Record (Box #3-4)

Tim White, Ph.D., P.Eng.
John Wallace, P.Eng., Struct.Eng.

Years of Construction (Box #3-5)

1955, 68, 71, 76, 87

Floor Area (Box #3-6)

2740 m²

Construction Type (Box #3-7)

#31 (URM Classrooms with wood roof)

Site Classification (Box #3-8)

Site Class C

Comments on Construction Type (Box #3-9)

Majority of the block has shiplap on joists supported by URM on concrete foundation walls with strip footings. Some areas are T&G on glulam supported by steel columns. Most areas slab on grade with some areas of crawl space with suspended concrete slab over. Library is metal deck on OWSJ spanning to concrete beams. R/C beams supported by a combination of load bearing giant brick and concrete columns on strip and pad footings respectively. East building has ply on wood joists on glulams supported by load bearing unreinforced masonry. One small addition to the East Building has reinforced masonry walls. Both Library and East building floors are slab on grade.

Number of Storeys (Box #3-10)

1

Clear Storey Heights (Box #3-11)

3.6 m (Shops, Library and Boiler Room)

2.8 m (Hallways, Admin and Changerooms)

3.2m (Classrooms and East Building)

4.2m (Cafeteria)

Report No: SPIR-41-013 March, 2014 JW Engineering and BBP

Previou	ıs Seismic U	grade (Box #3	3-12)		
Ø	No				
	Yes				
Previou	ıs Seismic Up	 orade Detail	S (Boy #3-13)		

(1) Vertical Load-bearing Supports (VLS)

VLS Type (Box #4-1)

Unreinforced concrete block masonry

Steel columns

Concrete Columns

VLS DDL (Box #4-2)

1.25% URM block

4% Steel Columns

1.25% Non-ductile R/C Columns

Supports Description (Box #4-3)

Predominantly 8" load bearing URM. Steel columns found on glazed walls of Shops, Cafeteria and Boiler room. R/C Columns are in Library. Classroom and Admin areas have wood studs on partial height block wall forming a hinge.

Report No: SPIR-41-013 March, 2014 JW Engineering and BBP

(2) LDRSs

Number of LDRS Prototypes (Box #4-4)

1

LDRS Prototype Details (Box #4-5)

Shaking Direction	Prototype No.	LDRS Prototype Description	Max DDL	Capacity	
N-S/E-W	M-2	Unreinforced Masonry	1.25%	5%W	

Comments on LDRS Prototypes (Box #4-6)

DDL governed by URM VLS. Diaphragms are flexible. Capacity of URM LDRS drag lines range from 5% (mostly clear storey windows with cantilevered steel columns) to 25%W. Lowest capacity listed as it will govern risk.

(3) Out-of-Plane URM Walls

URM Walls (Box #4-7)

	No	
V	Yes	

Out-of-Plane Prototype Details (Box #4-8)

Prototype No.	Prototype Description	Max. Height	Wall Thickness	Surcharge
OP-2	Inadequately restrained walls (load bearing)	2800 to 4200	190	50% to 100%
OP-2	Inadequately restrained walls (partition)	2800 to 4200	140	0%
OP-1	Cantilever wall	1000 to 2000	190	0%
OP-3	Restrained wall (confined)	3350	190	100%

Comments on Out-of-Plane Prototypes (Box #4-9)

Most corridor walls are load bearing.	Most exterior	walls are cantilever v	vith load	supported	by st	eel
columns. Demising walls are 6" with	no surcharge.	Library exterior walls	are 8" (giant brick	with F	₹/C
beam above.						

(4) Roof Diaphragm

Roof Diaphragm Material (Box #4-10)

Ø	Wood	Concrete
	Steel Deck	Braced Steel

Roof Diaphragm Prototype Details (Box #4-11)

Prototype No.	Roof Diaphragm Prototype Description	Span	Max. Movement	Capacity
D-2	Unblocked plywood	37m	100mm	5%W
D-3	2 inch T&G Deck (horizontal boards)	15 to 45m	100mm	9 to 3%Wd
D-3	Horizontal Shiplap (horizontal boards)	15 to 45m	100mm	6 to 2%W
D-6	Non-ductile Metal Deck	20m	100mm	22%W

Comments on Roof Diaphragm (Box #4-12)

T&G decking is over higher areas framed with glulam beams (boiler room, shops and cafeteria). Shiplap in areas with joist framing (classrooms, hallways, changerooms and Admin). Plywood over West building.

Note: diaphragm capacity based for West building based on diaphragm shear capacity only. Due to slender aspect ratio and lack of cords, diaphragm is very flexible and does not meet displacement limits.

(5) Floor Diaphragm									
Floor	Floor Diaphragm Material (Box #4-13)								
	☐ Wood ☐ Concrete								
Steel Deck with Concrete Topping									
Floor [Diaphrag	gm Prototype D	etails (Box	c #4-14)					
Prototy No.	/pe	Floor Diaphra	gm Protot	ype Descript	ion	Sp	an	Max. Movement	Capacity
N.A									
Comm	ents on	Floor Diaphrag	m (Box #4-	15)					
Single	storey. ,	Areas of crawlsp	ace have	cast in place	slabs.				
(5)	Conn	<u>ections</u>				· · · · · · · · · · · · · · · · · · ·			
Adequ	ate Con	nections (Box #4	-16)		_				
Roof D	ianhraor	m / LDRS		Yes					
1,001 B	icpi ii dgi	, 2510	\square	No					
1000	/ 	4:		Yes					
LDR5 /	LDRS / Foundation No								
Comm	ents on	Connections (B	ox #4-17)						
Connec	ctions ar	e not detailed bu	t given the	e vintage and	d type of co	onstruc	tion a	re likely inadequ	ıate.

Report No: SPIR-41-013 March, 2014 JW Engineering and BBP

Risk Assessment Results (Box #5-1)

Principal Element	Prototype No.	Prototype Description	PDE			
LDRS (N-S/E-W)	M-2	Unreinforced Masonry	>10%			
Out-of-plane Walls	OP-2	8" HCB (3 to 4.2 m) 50% surcharge	>5% but <10%			
Out-of-plane Walis OP-2 8" HCB (3m or less) 100% surcharge		>2% but <5%				
Out-of-plane Walls	OP-2	6" HCB Walls (partition)	>10%			
Out-of-plane Walls	OP-1	8" (1 to 2m) (exterior)	>10%			
Out-of-plane Walls	OP-3	8" Giant Brick	0.9%			
Diaphragm	D-2	Unblocked Plywood	2.1%			
Diaphragm (15 to 45m)	D-3	2" T&G	2.9 to 50%			
Diaphragm (15 to 45m)	D-3	Shiplap	3.5 to 50%			
Diaphragm (20m)	D-6	Non Ductile Deck	9.6%			
Max	kimum LDRS	PDE (refer to GDL note below)	>10%			
Existing Block Retrofit Priority Ranking H1						
Note: Based on GDLs of 1.2	25%.					

Comments on Seismic Deficiencies, Recommended Testing and Risk Assessment Results (Box #5-2)

Seismic Deficiencies:

- Several wall lines have very low capacity due to large window openings.
- Most walls, including some load bearing, are at risk of out-of-plane failure.
- Diaphragms are in general weak and not well connected
- Some exterior walls have load bearing studs on cantilevered masonry, thus forming a hinge midheight

Suggested Testing:

- Hazardous material testing should be done to check for vermiculite in exterior concrete block walls, lead paint and asbestos.

Retrofit Options Documented (Box #6-1)

No.	Retrofit Performance Level	Chapter 7	
1	Life-Safety Retrofit		
2	Phased Retrofit	8	

Comments on Documented Retrofit Options (Box #6-2)

Both Life-safety and Phased were reviewed for this Block. Enhanced was not reviewed as this is not a Gymnasium block.

Page 32

(1) Retrofit Concept

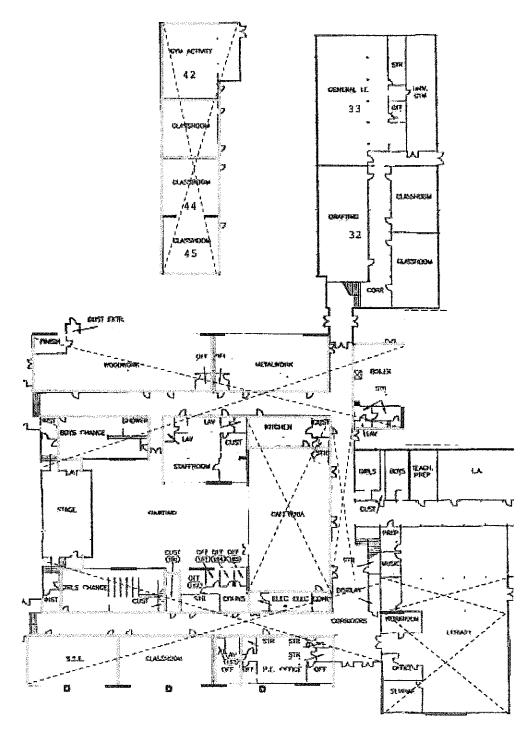


Figure 7.1: Life-safety Retrofit Concept Plan

Note: Retrofit of masonry walls should be done from the interior where possible.

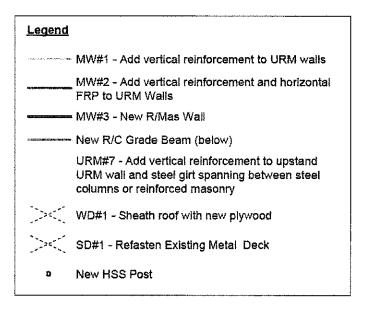


Figure 7.2: Life-safety Retrofit Legend

Comments on Figure 7.1 and Figure 7.2 (Box #7-1)

Add vertical reinforcing to existing unreinforced concrete block walls. Add new masonry walls or horizontal FRP strips for lateral capacity for areas with significant window openings. Sheath wood diaphragms and refasten metal deck diaphragms. Add steel girts and posts to address wall hinges.

(2) Retrofit LDRSs

Number of Retrofit LDRS Prototypes (Box #7-2)

1

Retrofit LDRS Prototype Details (Box #7-3)

Shaking Direction	Prototype No.	LDRS Prototype Description	Max PDE	Max DDL	R _m
N-S/E-W	M-3	Reinforced Masonry	2%	1.25%	18.9%W

Comments on Retrofit LDRS Prototypes (Box #7-4)

New reinforced masonry in both directions. Combined with existing moment frame in N-S direction and with rocking squat shearwalls in E-W direction.

(3) SPIR Benchmarks

Benchmark SPIRs (Box #7-5)

Benchmark SPIR No.	Benchmark SPIR Description	Retrofit Cost (\$ / m²)
41-009	Alpha Secondary Block 6 – Shops	\$690/m²

Comments:

Both blocks are URM concrete block with timber roofs.

(4) Scope of Retrofit

Refer to Appendix A for details on the scope of work for both the structural and non-structural retrofits.

Page 35

(5) Retrofit Cost Estimate

Refer to Appendix B for details on the retrofit cost estimate for the life safety retrofit. A summary of the life safety retrofit is given in Chapter 10.

(6) Schedule

Schedule (Box #7-6)

No.	Schedule Issue	Value	
1	Temporary Accommodations	Unknown	
Commen	t on Operational Disruption:		
The work required is extensive. Temporary accommodations will be required during the school year.			

(7) Construction Risks

Risks (Box #7-7)

Risk Description		Significant Risk			
Asbestos	Ø	Yes	☐ No		
Vermiculite	Z	Yes	☐ No		
Other: Lead Paint	\square	Yes	☐ No		

Risk Management Comments (Box #7-8)

No existing documents provide information on hazardous materials. Given vintage, lead paint, asbestos and vermiculite are very likely.

Summary of Life-safety Retrofit Option (Box #7-9)

The Life-safety retrofit provides the following:

- Add vertical reinforcing to existing unreinforced concrete block walls.
- Add new masonry walls or horizontal FRP strips for lateral capacity for areas with significant window openings.
- Sheath wood diaphragms and refasten metal deck diaphragms.
- Add steel girts and posts to address wall hinges.

The Life-safety retrofit will reduce the Seismic Risk of the facility to Low (i.e. 2% in 50 years).

Summary of Phased Retrofit Option (Box #8-1)

The Phased retrofit is similar to the life-safety, but differs in the following ways:

- Load bearing corridor walls in the N-S direction have adequate PDE (<5%) and do not need to be vertically reinforced, but still need to be connected to the roof diaphragm.
- Total amount of new reinforced masonry along the exterior East and West walls can be reduced from 3 bays down to 2.
- The amount of FRP strengthened walls near the cafeteria is reduced by about one third.
- See Appendix A for specific changes.

The Phased retrofit will reduce the Seismic Risk of the facility to Low (i.e. 5% in 50 years).



The enhanced retrofit does not apply to this block because it is not a Gymnasium.

APPENDIX A SCOPE OF RETROFIT DETAILS for BLOCK #02-6 (Classrooms/Admin) BURNABY NORTH SECONDARY SCHOOL

Table A.1: Scope of Structural Life-safety Retrofit

No.	Retrofit Detail	Construction Activity	Quantity
1a	MW#1	Add vertical reinforcing to existing masonry walls. Matching dowels into existing foundation wall. Work from interior.	3.1m high x 519m long
1b	Grade beams	Breakout existing slab on grade and cast new 400x400 grade R/C grade beam	15m long
2a	MW#2	Add vertical reinforcing and horizontal FRP strips to existing masonry walls. Matching dowels into existing foundation wall. Work from interior.	3.1m high x 21m long
2b	MW#3	New reinforced masonry walls.	3.1m high x 43m long
3	URM#7	Add vertical reinforcing to existing cantilever masonry walls. Matching dowels into existing foundation wall. Provide HSS girt at top of wall.	1.5m high x 144m long
4	WD#1	Remove roofing and sheath existing timber roof with new plywood.	2358m²
5	SD#1	Remove roofing. Add sheet metal straps over sidelaps and refasten deck to joists.	382m²
6	HSS Posts	Add new steel posts on exterior of building. Provide pad footing below and attach to roof diaphragm above. Fasten to girts from URM#7 on either rside.	3 locations 3.2m tall
7	Seismic Gap	Provide angle with long slotted holes to underside of roof deck. Peal back roofing, cut 64mm slot in T&G decking. Reroof.	20m long

Table A.2: Scope of Structural Phased Retrofit

No.	Retrofit Detail	Construction Activity	Quantity
1a	MW#1	Add vertical reinforcing to existing masonry walls. Matching dowels into existing foundation wall. Work from interior.	3.1m high x 346m lang
1b		Provide connection between existing URM wall and roof diaphragm only	180m long
1c	Grade beams	Breakout existing slab on grade and cast new 400x400 grade R/C grade beam	15m long
2a	MW#2	Add vertical reinforcing and horizontal FRP strips to existing masonry walls. Matching dowels into existing foundation wall. Work from interior.	3.1m high x 14m long
2b	MW#3	New reinforced masonry walls.	3.1m high x 36m long
3	URM#7	Add vertical reinforcing to existing cantilever masonry walls. Matching dowels into existing foundation wall. Provide HSS girt at top of wall.	1.5m high x 151m long
4	WD#1	Remove roofing and sheath existing timber roof with new plywood.	2358m²
5	SD#1	Remove roofing. Add sheet metal straps over sidelaps and refasten deck to joists.	382m²
6	HSS Posts	Add new steel posts on exterior of building. Provide pad footing below and attach to roof diaphragm above. Fasten to girts from URM#7 on either rside.	3 locations 3.2m tall
7	Seismic Gap	Provide angle with long slotted holes to underside of roof deck. Peal back roofing, cut 64mm slot in T&G decking. Reroof.	20m long

APPENDIX B RETROFIT COST ESTIMATE REPORT for

BLOCK #02-6 (Classrooms/Admin)
BURNABY NORTH SECONDARY
SCHOOL

Page 43

Retrofit Cost Estimate Report

Cost estimate by Denis Walsh Associates Ltd.

Burnaby North Secondary School								
BLOCK #6 (Classrooms / Admin) Construction Cost Estimate of Life Safety Retrofit								
3-Mar-14								
Floor Area	<u>2,740</u>	<u>m2</u>						
Component		\$	\$/m2					
Site Development		1,000	0.36					
Earthwork		8,500	3.10					
Selective Demolition		360,614	131.61					
Concrete Work		13,054	4.76					
Unreinforced Masonry Walls		641,863	234.26					
Seismic Separations		14,000	5.11					
Diaphragm Upgrades & Connections		501,464	183.02					
Other Work		6,000	2.19					
Exterior Building Envelope Work		502,238	183.30					
Interior Work		529,320	193.18					
Electrical		137,000	50.00					
Mechanical		221,940	81.00					
Hazardous Material		68,500	25.00					
Sub-total		3,005,493	1,096.90					
General Requirements & General Contractor's Fee		601,099	219.38					
Sub-total		3,606,592	1,316.27					
Design Contingency 15%		540,989	197.44					
Total (Excluding GST)		4,147,580	1,513.72					

Burnaby North Secondary School Block #6 (Classrooms/Admin)						
						Construction Cost Estimate
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$		
Site Development				1,000		
Make good site development at new exterior				•		
posts	1 LS	1,000.00	1,000			
Earthwork				8,500		
Excavation and disposal for grade beams and	40.0	500.00	0.000			
pad footings	12 m3		6,000			
Preparation work at existing footings Selective Demolition	1 L5	2,500.00	2,500	260 644		
Interior concrete slab removal	17 m2	200.00	3,400	360,614		
Removal and disposal of existing roofing	2,740 m2		137,000			
Demolish exterior walls	112 m2		34,384			
Remove exterior cladding	203 m2	100.00	20,300			
Demolish interior walls	22 m2	105.00	2,310			
Remove floor finishes	912 m2	35.00	31,920			
Remove floor tiling to washrooms	307 m2	80.00	24,560			
Remove ceilings	1,230 m2		36,900			
Remove wall tiling	188 m2		15,040			
Removal of millwork, cabinets and specialties	2,740 m2	20.00	54,800			
Concrete Work				13,054		
Grade beams: 400 x 400mm	17 m	512.00	8,704			
Pad footings for exterior HSS posts	3 No	600.00	1,800			
Concrete floor slab replacement	17 m2	150.00	2,550			
Unreinforced Masonry Walls				641,863		
Add vertical reinforcing to existing masonry walls: MW#1	1,609 m2	246	395,814			
Tane. Mili	1,000 1112	210	000,01.			
Add vertical reinforcing to existing cantilever	0.40	0.40	E0 400			
masonry walls: URM#7	216 m2	246	53,136			
Add vertical reinforcement and horizontal FRP strips to existing masonry walls: MW#2	21 m	1,473.00	30,933			
carpe to ordering majoring mails intring	£ 1 111	1, 11 0.00	00,000			
Dowels into existing foundation walls	632 No	60.00	37,920			
New reinforced masonry walls: MW#3	134 m2	410	54,940			

Burnaby North Secondary School Block #6 (Classrooms/Admin)						
						Construction Cost Estimate of Life Safety Retrofit 3-Mar-14
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$		
HSS girt at top of reinforced cantilever walls	144 m	480.00	69,120			
Seismic Separations Cut 64mm slot in T & G roof decking for				14,000		
seismic gap Steel angle with long slotted holes to underside	20 m	300.00	6,000			
of roof deck	20 m	400.00	8,000			
Diaphragm Upgrades & Connections				501,464		
Drag struts to top of new masonry walls Roof diaphragn upgrade: ply to existing roof:	50 m	220.00	11,000			
WD#1 Roof diaphragn upgrade: add sheet metal	2,358 m2	71.00	167,418			
straps over sidelaps and refasten metal deck to joists: SD#1	382 m2	137.00	323,046			
Other Work				6,000		
Exterior HSS steel posts attached to roof diaphragm	3 No	2,000.00	6,000			
Exterior Building Envelope Work Roofing				502,238		
New roofing Remove and make good roofing for seismic	2,740 m2	156.00	427,440			
joint	20 m	412.00	8,240			
Seismic joint cover <u>Exterior Wall Cladding, Windows & Doors</u>	20 m	138.00	2,760			
Replace exterior wall cladding	112 m2	288.00	32,256			
Make good exterior cladding	203 m2	144.00	29,232			
Exterior painting to exposed steel	154 m	15	2,310			
Interior Work				529,320		
Partitions & Doors Removal/reinstatement/partial replacement of						
doors/frames/hardware	20 Lfs	1,000.00	20,000			

Burnaby North Secondary School						
Block #6 (Classrooms/Admin)						
Construction Cost Estimate o	3-Mar-14					
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$		
<u>Finishes</u>						
Reinstate floor finishes: patch, repair, make good	912 m2	90.00	82,080			
Floor tiling to washrooms	307 m2	200.00	61,400			
Reinstate ceilings: patch, repair and make good	1,230 m2	72.00	88,560			
Paint ceilings	2,740 m2	12.00	32,880			
Wall finish: paint	4,675 m2	12.00	5 6 ,100			
Wall finish: tiling to washrooms	188 m2	200.00	37,600			
Millwork, Cabinets, Specialties						
New and partial reinstatement of millwork,						
cabinets and specialties	2,740 m2	55.00	150,700			
Electrical				137,000		
Electrical work due to seismic work	2,740 m2	50.00	137,000			
Mechanical				221,940		
Plumbing	2,740 m2	38.00	104,120			
Sprinklers	2,740 m2	8.00	21,920			
HVAC	2,740 m2	35.00	95,900			
Hazardous Materials	2,740 m2	25.00	68,500	68,500		
Sub-total				3,005,493		
General requirements, General Contractor's fee		20%		601,099		
Sub-total Sub-total			*********	3,606,592		
Design Contingency		15%		540,989		
Total				4,147,580		

Burnaby North Secondary School								
BLOCK #6 (Classrooms / Admin) Construction Cost Estimate of Phased Retrofit								
	***			13-Mar-14				
Floor Area	<u>2,740</u>	<u>m2</u>						
Component		\$	\$/m2					
Site Development		1,000	0.36					
Earthwork		8,500	3.10	-				
Selective Demolition		334,824	122.20					
Concrete Work		13,054	4.76					
Unreinforced Masonry Walls		487,202	177.81					
Seismic Separations		14,000	5.11					
Diaphragm Upgrades & Connections		561,384	204.88					
Other Work		6,000	2.19					
Exterior Building Envelope Work		502,343	183.34					
Interior Work		453,396	165.47					
Electrical		123,300	45.00					
Mechanical		205,500	75.00					
Hazardous Material		68,500	25.00					
Sub-total		2,779,003	1,014.23					
General Requirements & General Contractor's Fee		555,801	202.85					
Sub-total		3,334,804	1,217.08					
Design Contingency 15%		500,221	182.56					
Total (Excluding GST)		3,835,024	1,399.64					

Burnaby North	Secondary	School			
Block #6 (Classrooms/Admin)					
Construction Cost Estimate	of Phased	Retrofit		13-Mar-14	
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$	
Site Development				1,000	
Make good site development at new exterior					
posts	1 LS	1,000.00	1,000		
Earthwork				8,500	
Excavation and disposal for grade beams and	40.0	500.00	0.000		
pad footings	12 m3		6,000		
Preparation work at existing footings Selective Demolition	1 LS	2,500.00	2,500	224 224	
Interior concrete slab removal	17 m2	200.00	2 400	334,824	
Removal and disposal of existing roofing	17 m2 2,740 m2		3,400 137,000		
Demolish exterior walls	2,740 m2 112 m2		34,384		
Remove exterior cladding	203 m2		20,300		
Remove floor finishes	552 m2		19,320		
Remove floor tiling to washrooms	307 m2		24,560		
Remove ceilings	1,050 m2		31,500		
Remove wall tiling	188 m2		15,040		
Removal of millwork, cabinets and specialties	2,740 m2		49,320		
Concrete Work				13,054	
Grade beams: 400 x 400mm	17 m	512.00	8,704		
Pad footings for exterior HSS posts	3 No	600.00	1,800		
Concrete floor slab replacement	17 m2	150.00	2,550		
Unreinforced Masonry Walls				487,202	
Add vertical reinforcing to existing masonry walls: MW#1	1,073 m2	246	263,958		
Add vertical reinforcing to existing cantilever masonry walls: URM#7	227 m2	246	55,842		
Add vertical reinforcement and horizontal FRP strips to existing masonry walls: MW#2	14 m	1,473.00	20,622	·	
Dowels into existing foundation walls	473 No	60.00	28,380		
New reinforced masonry walls: MW#3	112 m2	410	45,920		

Burnaby North Secondary School Block #6 (Classrooms/Admin)						
						Construction Cost Estimate
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$		
HSS girt at top of reinforced cantilever walls	151 m	480.00	72,480	<u> </u>		
Seismic Separations Cut 64mm slot in T & G roof decking for seismic gap	20	200.00	0.000	14,000		
Steel angle with long slotted holes to underside	20 m	300.00	6,000			
of roof deck	20 m	400.00	8,000			
Diaphragm Upgrades & Connections				561,384		
Drag struts to top of new masonry walls Roof diaphragn upgrade: ply to existing roof:	36 m	220.00	7,920			
WD#1 Roof diaphragn upgrade: add sheet metal straps over sidelaps and refasten metal deck to	2,358 m2	71.00	167,418			
joists: SD#1	382 m2	137.00	323,046			
Provide connection between existing URM wall and roof diaphragm only	180 m	350.00	63,000			
Other Work				6,000		
Exterior HSS steel posts attached to roof diaphragm	3 No	2,000.00	6,000			
Exterior Building Envelope Work Roofing				502,343		
New roofing Remove and make good roofing for seismic	2,740 m2	156.00	427,440			
joint	20 m	412.00	8,240			
Seismic joint cover	20 m	138.00	2,760			
Exterior Wall Cladding, Windows & Doors						
Replace exterior wall cladding		288.00	32,256			
Make good exterior cladding Exterior painting to exposed steel	203 m2 161 m	144.00 15	29,232 2,415			
Interior Work				453,396		
Partitions & Doors						
Removal/reinstatement/partial replacement of doors/frames/hardware	16 Lfs	1,000.00	16,000			

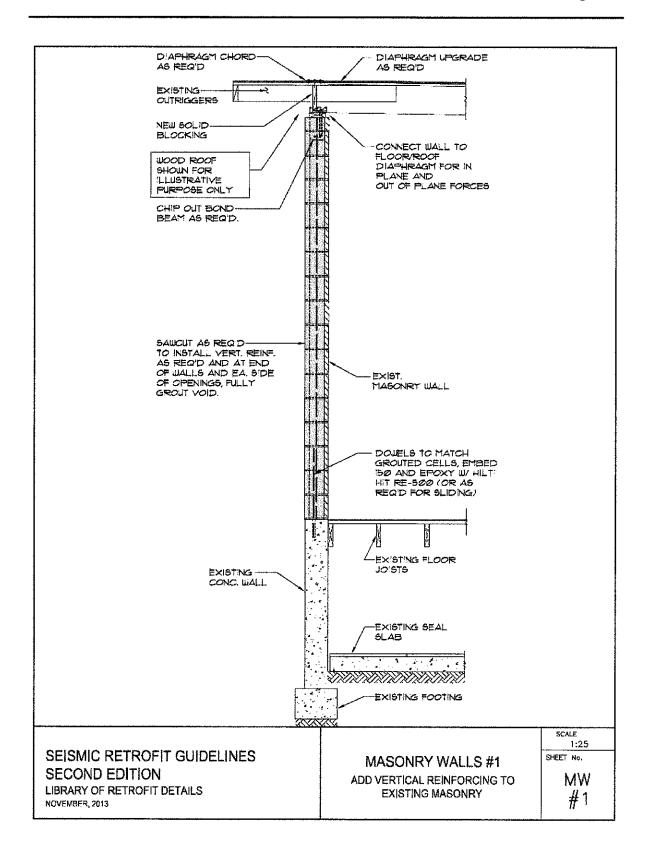
Burnaby North Secondary School						
Block #6 (Classrooms/Admin)						
Construction Cost Estimate	13-Mar-14					
Description	Quantity	Unit Rate \$	Cost \$	Sub-totals \$		
<u>Finishes</u>						
Reinstate floor finishes: patch, repair, make good	552 m2	90.00	49,680			
Floor tiling to washrooms	307 m2	200.00	49,000 61,400			
rioor diring to washinooms	307 1112	200.00	01,400			
Reinstate ceilings: patch, repair and make good	1,050 m2	72.00	75,600			
Paint ceilings	2,560 m2	12.00	30,720			
Wall finish: paint	3,783 m2	12.00	45,396			
Wall finish: tiling to washrooms	188 m2	200.00	37,600			
Millwork, Cabinets, Specialties						
New and partial reinstatement of millwork,						
cabinets and specialties	2,740 m2	50.00	137,000			
Electrical				123,300		
Electrical work due to seismic work	2,740 m2	45.00	123,300	·		
Mechanical				205,500		
Plumbing	2,740 m2	34.00	93,160	200,000		
Sprinklers	2,740 m2	8.00	21,920			
HVAC	2,740 m2	33.00	90,420			
Hazardous Materials	2,740 m2	25.00	68,500	68,500		
Sub-total			· · · · · · · · · · · · · · · · · · ·	2,779,003		
General requirements, General Contractor's fee		20%		555,801		
Sub-total				3,334,804		
Design Contingency		15%		500,221		
Total				3,835,024		

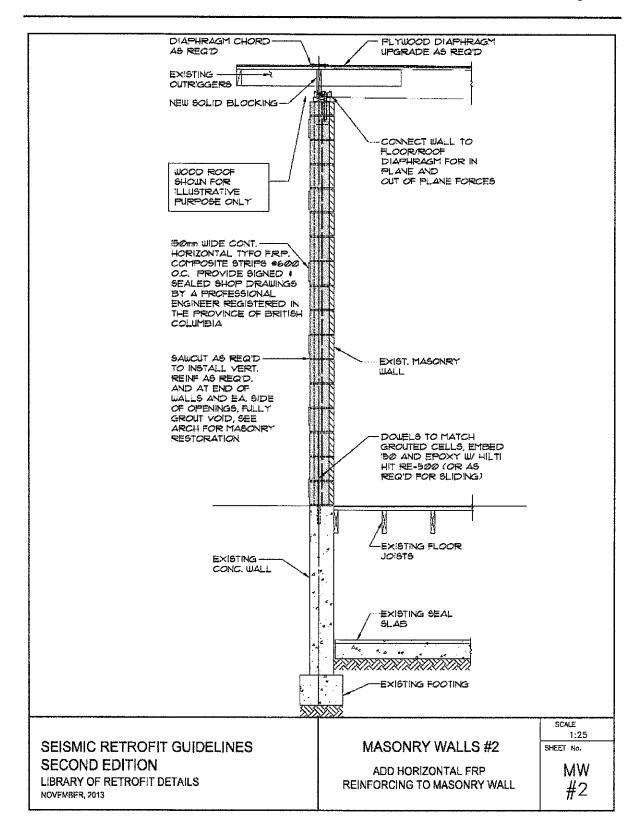
APPENDIX C REPRESENTATIVE STRUCTURAL DETAILS for

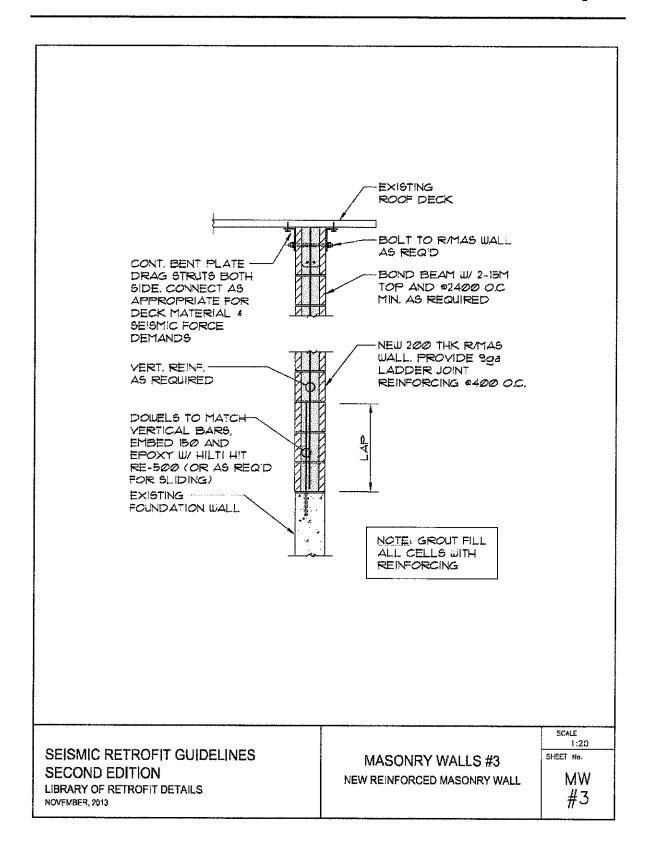
BLOCK #02-6 (Classrooms/Admin)
BURNABY NORTH SECONDARY
SCHOOL

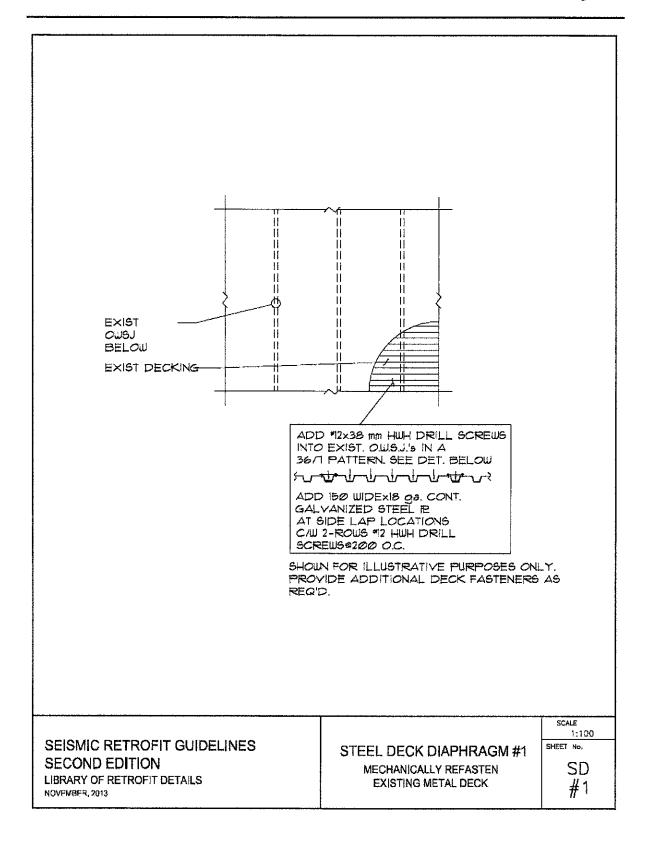
Representative Structural Details

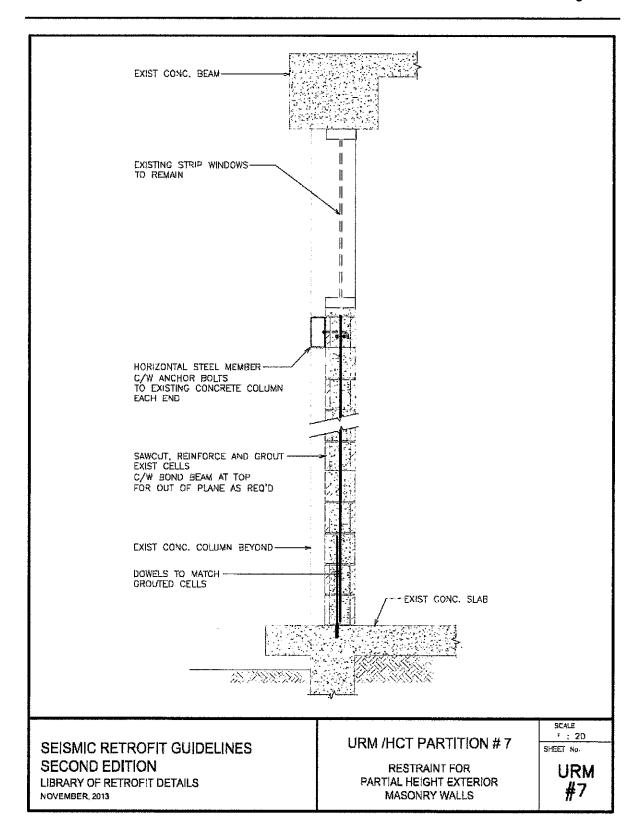
The following details (MW#1, MW#2, MW#3, SD#1, URM#7, WD#1 and WSW#1) are from the Library of Retrofit Details, Volume 7 of the Seismic Retrofit Guidelines and have been attached here for reference.

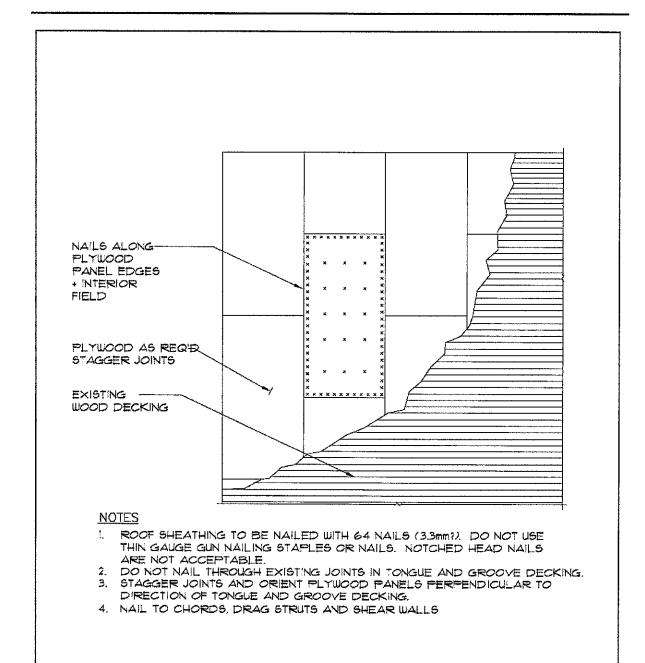












SEISMIC RETROFIT GUIDELINES SECOND EDITION LIBRARY OF RETROFIT DETAILS

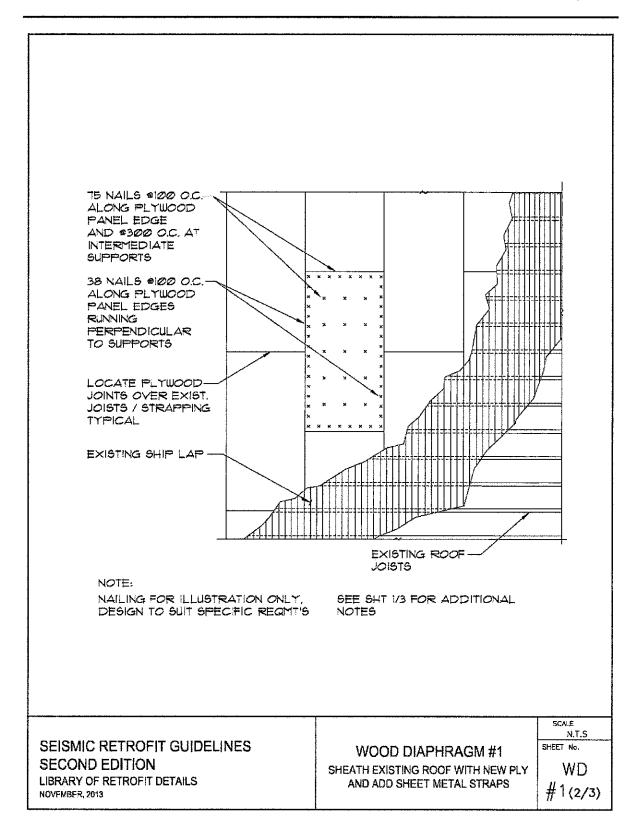
WOOD DIAPHRAGM #1 SHEATH EXISTING ROOF WITH NEW PLY AND ADD SHEET METAL STRAPS SCALE N.T.S SHEET NO. WD #1(1/3)

Report No: SPIR-41-013

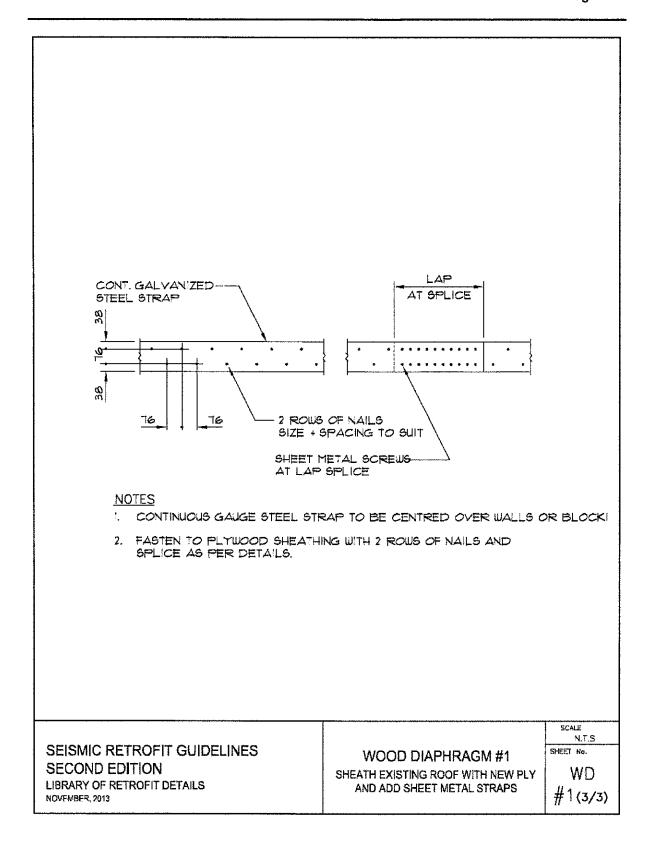
NOVEMBER, 2013

March, 2014

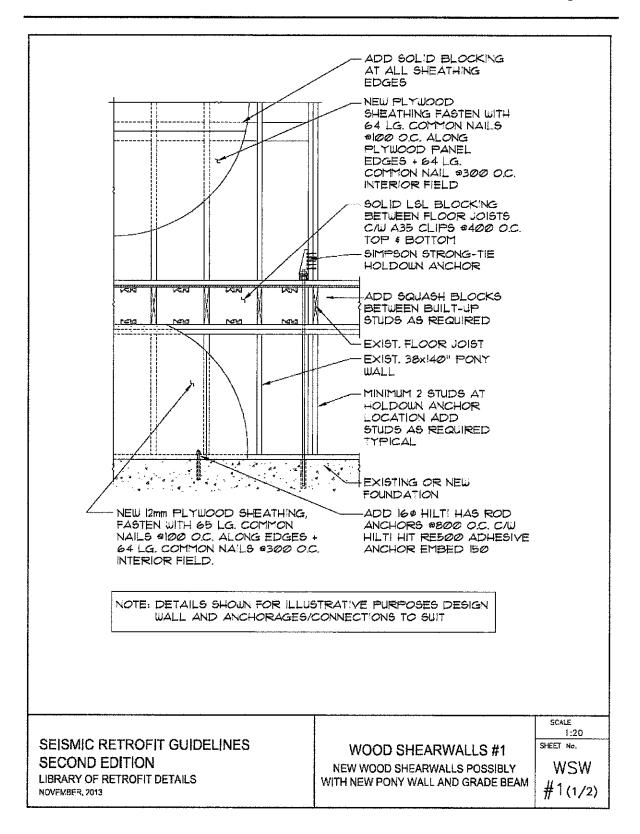
JW Engineering and BBP

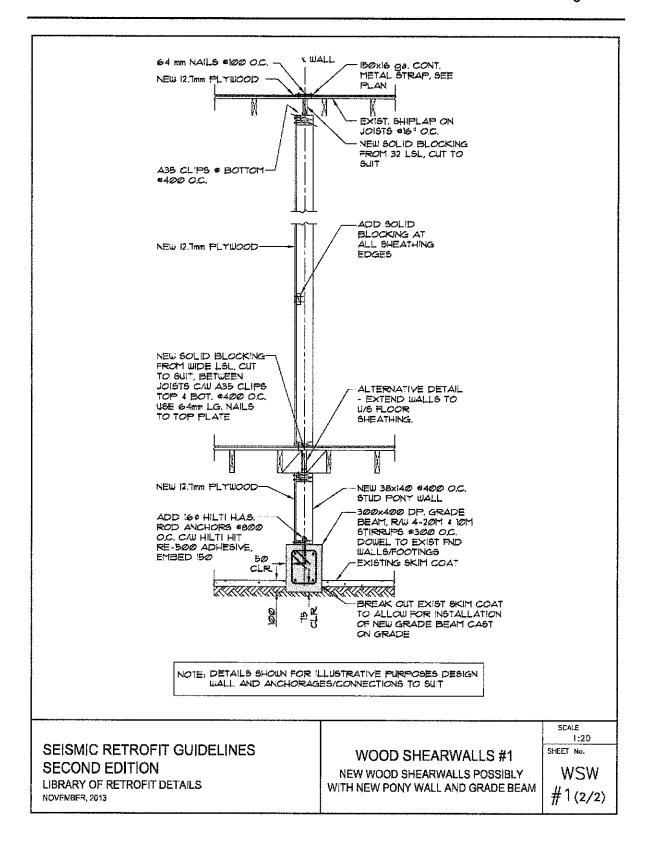


Report No: SPIR-41-013 March, 2014 JW Engineering and BBP



Report No: SPIR-41-013 March, 2014 JW Engineering and BBP





Report No: SPIR-41-013

March, 2014

JW Engineering and BBP

APPENDIX D PHOTOGRAPHS

for

BLOCK #02-4 (South Gymnasium)

BURNABY NORTH SECONDARY SCHOOL



Figure D-1: Cafeteria Interior

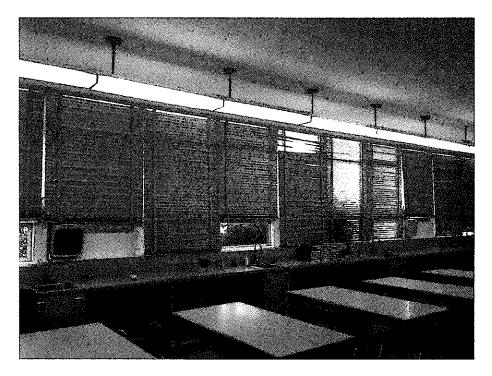


Figure D-2: Typical Classroom Interior



Figure D-3: Library Interior



Figure D-4: Typical Hallway

Vinning, Gurpreet S EDUC:EX

From:

Robertson, Paige < Paige. Robertson@leg.bc.ca>

Sent:

Wednesday, November 19, 2014 9:21 AM

To:

Vinning, Gurpreet S EDUC:EX

Cc:

Yap, John; Ng, PoWah LASS:EX; Quigley, Janta LASS:EX

Subject:

RE: seismic upgrades

Will John be able to get a briefing?

From: Vinning, Gurpreet S EDUC:EX [mailto:Gurpreet.Vinning@gov.bc.ca]

Sent: November 18, 2014 4:18 PM

To: Robertson, Paige

Cc: Yap, John; Ng, PoWah; Quigley, Janta

Subject: RE: seismic upgrades

Hi Paige,

Sorry for the delay in getting back to you and John. I spoke with our capital folks and they said that, Richmond SD is currently doing a long term facilities plan. The result of that will have some influence on what happens with the Gilmore project. The project because they are doing a new facilities plan is currently in the hands of the school district.

Gurpreet |

From: Robertson, Paige [mailto:Paige.Robertson@leg.bc.ca]

Sent: Friday, November 7, 2014 12:49 PM

To: Vinning, Gurpreet S EDUC:EX **Cc:** Yap, John; Ng, PoWah LASS:EX **Subject:** RE: seismic upgrades

Thank you

From: Vinning, Gurpreet S EDUC:EX [mailto:Gurpreet.Vinning@gov.bc.ca]

Sent: November 7, 2014 12:36 PM

To: Robertson, Paige

Subject: RE: seismic upgrades

I've forwarded to staff and asked for a rush. Sorry for the delay.

From: Robertson, Paige [mailto:Paige.Robertson@leg.bc.ca]

Sent: Thursday, November 6, 2014 3:46 PM

To: Vinning, Gurpreet S EDUC:EX

Cc: Ng, PoWah LASS:EX; Chen, Laura LASS:EX; Yap, John; Quigley, Janta LASS:EX

Subject: seismic upgrades

And the briefing?

Gurpreet.

When will this information be available for John?

Paige

Anything yet?

Gurpreet:

John would like the following information:

What is the status of the seismic upgrades for Richmond Schools? Specifically, what is the status of the upgrade of James Gilmore Elementary School in Richmond? Thanks.

Paige Robertson Constituency Assistant to John Yap, MLA Richmond-Steveston Phone: 604-241-8452

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