
Phase 2 – Civil Room Revitalization

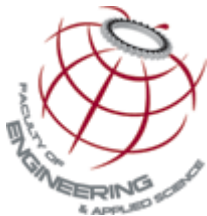
CLASSROOM/TEACHING INFRASTRUCTURE DEVELOPMENT FUND:
MODERNIZATION OF EN.2050 FOR ENHANCED TEACHING
WINTER-SPRING 2007

Submitted to:

***Office of the Dean,
Faculty of Engineering and
Applied Science
Memorial University of Newfoundland***

Submitted by:

***S. Bruneau on behalf of
Civil Engineering Discipline Chair
Faculty of Engineering and Applied Science
Memorial University of Newfoundland***



PR. xx_03
November 28, 2006
St. John's, Nf., Can



This proposal has been prepared so that the balance of funds required to implement the civil room renovations can be secured. Previous application for funds was limited to digital projection, console and projection screen-related items. This proposal focuses on the renovation of the room, installation of new computers, implementation of healthy living space items such as natural lighting and ventilation, plus the replacement of aging and derelict desks and chairs.

1.0 Project/Initiative Title

The modernization of the Civil Engineering Lecture Room, EN.2050.

2.0 Unit and Contact Information

Civil engineering discipline, Faculty of Engineering and Applied Science.

Proposal requested by Tahir Husain, 737-8781

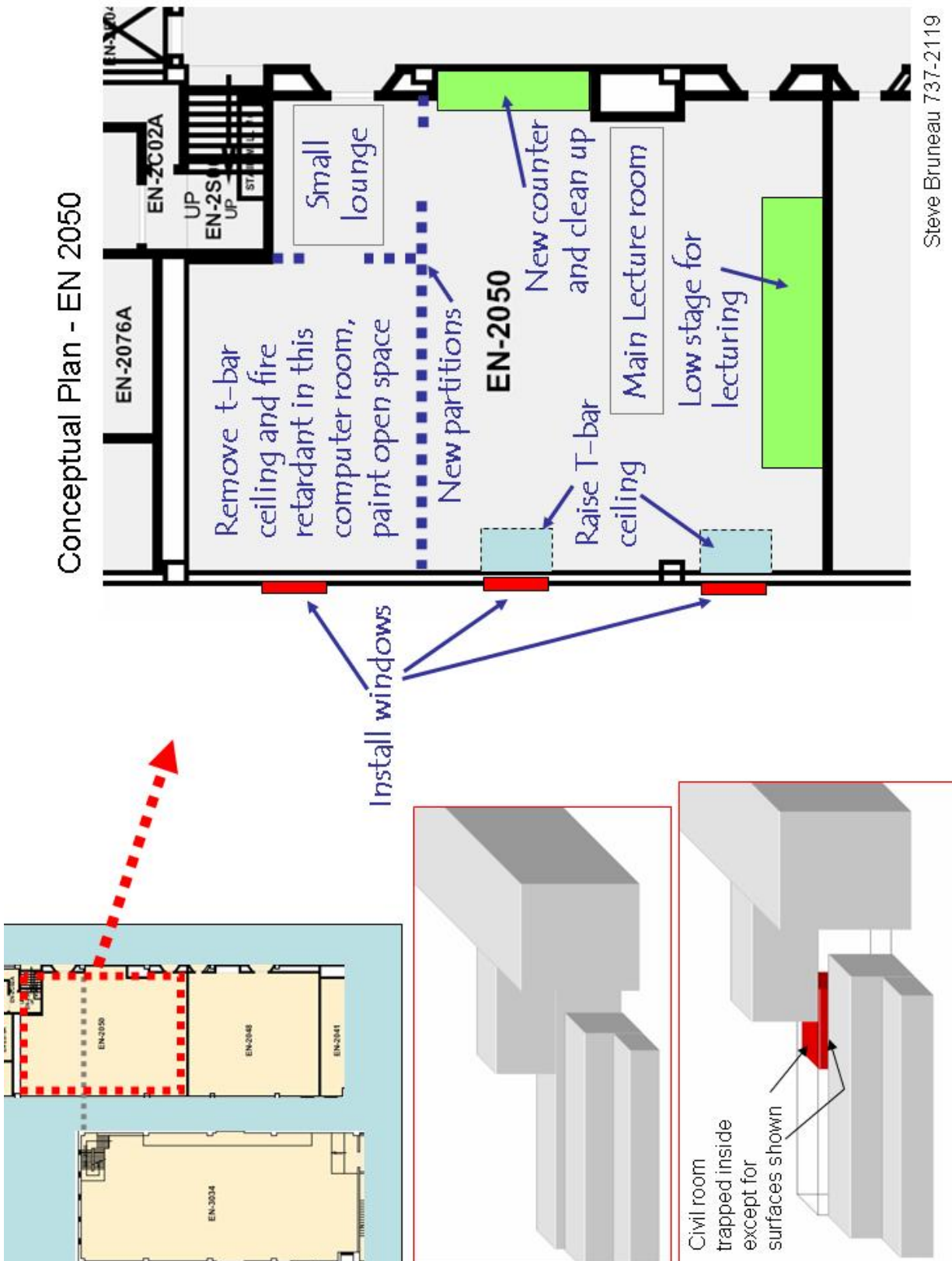
Proposal drafted by Steve Bruneau, 737-2119 - Primary contact person.

3.0 Project Overview

The first phase of the EN.2050 Classroom Modernization Project is outlined in Appendix A. It involves the installation of new electronic equipment allowing for digital projection and internet access. In addition a new stage and lecture area were proposed. Funding for Phase 1 totaling \$34k has been secured – the work has not yet been carried out. It is intended that the additional work proposed herein take place concurrently with the previously proposed work to limit the construction downtime and optimize construction costs.

This proposal outlines the remaining work for room revitalization. In summary the proposed work includes the removal and replacement of ceiling system, the permanent opening of one-third of the ceiling space for better air circulation, building system visibility as an educational tool and new access to external walls allowing for window and vent installation. Windows, new acoustic divider system and mechanical system improvements are also included. The entire room is to be cleaned up and repainted (the murals and tiles will be looked after by students).

Significantly, the second phase of the project also includes forty new desks and chairs that provide for a long term solution to the aging and damaged units currently in place. From the old units in place the best 20 will be preserved to allow for class expansion during the 2010 wave of enrollment. New units will have locking drawers and stable healthy chairs that will relieve the chronic security and comfort challenges currently faced by students. The phase 2 concept drawing is shown below.

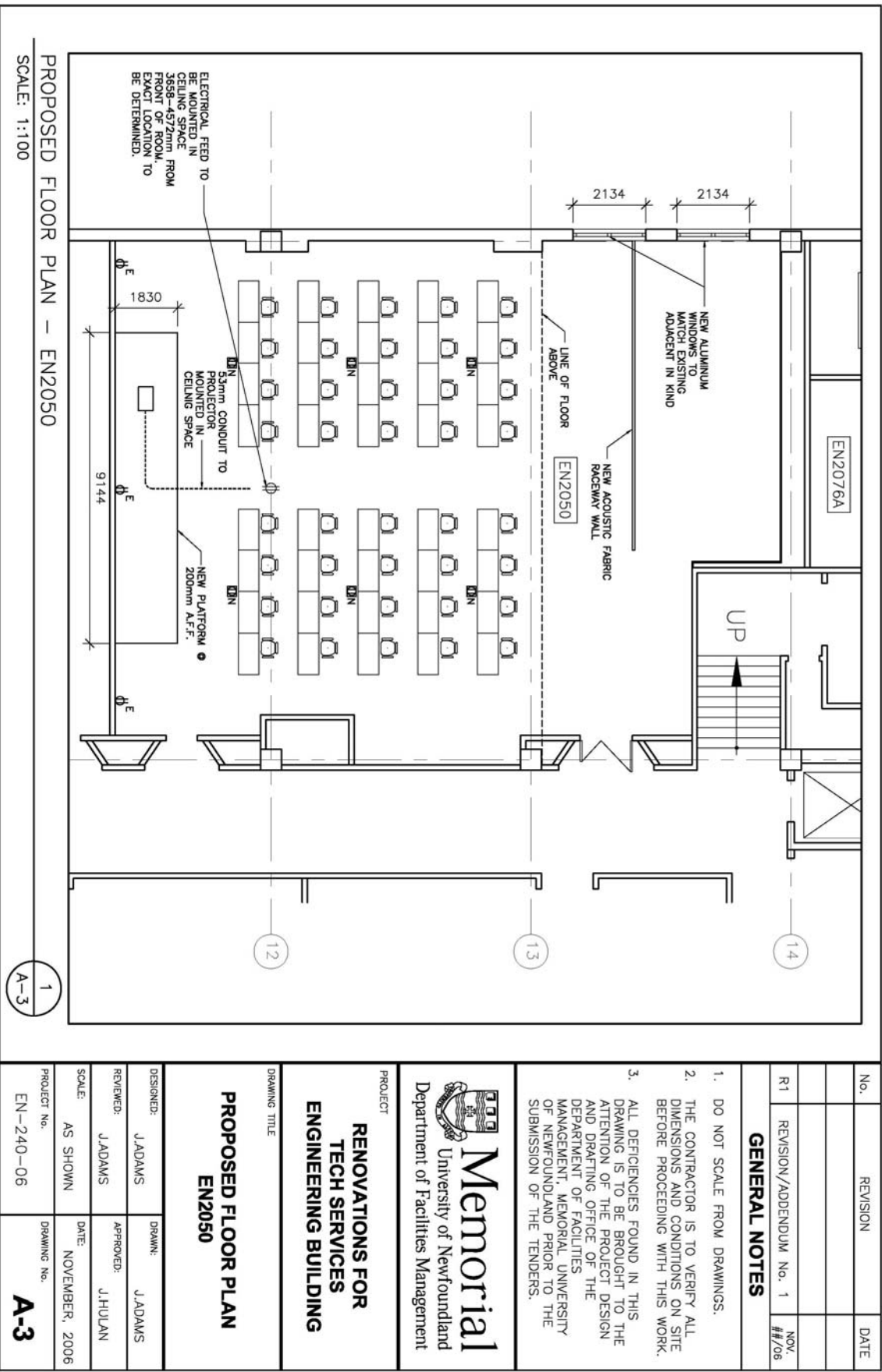




4.0 Detail of Project and Summary of Estimated costs

Working closely with Facilities management of Memorial University a detailed breakdown of the project elements and costs has now been procured. The application to facilities management is provided below, the proposed floor plan and estimate is provided on the following pages.

Memorial University of Newfoundland Department of Facilities Management		Project Request Form (Please Complete All of Section I)	
Section I: CUSTOMER SECTION - To Be Completed By The Requestor			Project #
Contact Name:	Stephen Bruneau	Phone No.:	737-2119
Email:	sbruneau@engr.mun.ca	Fax No.:	
Requestor's Name:	- same -	Phone No.:	
Email:		Fax No.:	
Faculty/Department	Engineering & Applied Sci	FOAPAL No.:	
Building Name / Area Of Work Required:		Room(s)	
S.J. Carew Building		"Civil room" EN 2050	
Detailed Description of Work Required: (describe the scope of work, including architectural, electrical, communications, heating/cooling, space or moving works. Include any sketches, plans or product data.)			
Proposed Work includes: -Replacement of all ceiling tiles and possibly t-bar (old class tiles to be kept by others) -Construction of new, lower, broader and deeper stage -Installation of some window sets – including raising the ceiling tiles in immediate area around windows. -New partition to replace existing dividers -Painting of walls (murals to be transferred photographically) -Chalk, white board and projection wall/screen to be discussed further. -Some electrical work for improved student access -Data projection and console/desk to be provided by Engineering- D.Press contact - - Improved network access to students to be investigated by D. Press et al.			
Reason For Work Requested:			
Renovations to civil room required to improve quality of teaching, student comfort and health through improved air quality, natural lighting, cleanliness, sound abatement and safety.			
Proposed Start Date:		Proposed Completion Date:	
April 8th, 2006		June, 2006	
Rationale For Date:		Start after winter term, easier to find temporary room for spring students in May, window installation after winter preferable, time to plan the transfer of murals etc. time to build department consensus on plan etc.	
Proceed Without Estimate:		Indicate Type (Required)	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Must Be Completed		Preliminary: <input type="checkbox"/> (Budgetary)	
Signature of Requestor:		Detailed: <input checked="" type="checkbox"/> (+/- 10%)	
Date:			
Departmental Authorization:		Date Received:	
Date:			
Section II: FACILITIES MANAGEMENT (Internal) - To Be Completed By Facilities Management			
Internal		External	
Project Coordination		Dispatch	
Work Control	<input type="checkbox"/>	Est.	<input type="checkbox"/>
Energy Systems	<input type="checkbox"/>	Mech.	<input type="checkbox"/>
Central Utilities	<input type="checkbox"/>	Annex	<input type="checkbox"/>
Building Services	<input type="checkbox"/>	Grounds	<input type="checkbox"/>
Space Planning	<input type="checkbox"/>	Moving	<input type="checkbox"/>
Safety & Environment	<input type="checkbox"/>	Risk	<input type="checkbox"/>
Campus Enforcement	<input type="checkbox"/>	Traffic	<input type="checkbox"/>
Engin/Development	<input type="checkbox"/>		
		Dispatch	
		Elec.	
		Maint.	
		Building	
		Temp Facil.	
		Plan Review	
		Patrol	
		C&C	
		Technical Services	
		DELT	
		HSC	
		Marine Institute	
		SWGSC	
		Government: (
		Consultant)
Signature of Projects Coordinator:	Assigned To:	Assigned By:	
Date:	Date:	Date:	





Memorial

University of Newfoundland

Department of Facilities Management

Project Estimate	Prepared By: Jason Adams	Project No.	EN-251-06
Client Department:	Engineering	Contact:	Steven Bruneau
Project Title:	Renovations to EN2050	Date Prepared:	November 28, 2006
Project Description:	Remarks:		
Install new windows & ceiling system, furniture, raised platform, a/v equipment.		This estimate is based on current market prices and is subject to change. Estimates are only valid for 45 days after which time they are subject to mandatory revision. A charge may apply for this work.	

DESCRIPTION OF WORK	COST	
Consulting	\$	-
Demolition	\$	-
Remove existing ceiling tile and grid	\$	3,330.60
Remove existing acoustic wall panels	\$	183.00
Demo existing concrete block (windows)	\$	366.00
Demo existing face brick (windows)	\$	488.00
Remove existing light fixtures at rear of class	\$	1,952.00
Remove existing chalk board, display screens	\$	183.00
Remove existing platform & step	\$	244.00
Construction	\$	-
Install new ceiling tile and grid	\$	5,734.00
Install new bulkhead @ edge of new ceiling	\$	488.00
Install new gypsum board metal stud wall in ceiling	\$	2,690.10
Install new acoustic wall panels c/w raceway	\$	3,513.60
Install new aluminum windows	\$	4,026.00
New Painting interior walls	\$	1,921.50
New Prime & Painting of walls @ exposed ceiling	\$	2,068.14
Gypsum board patching & repair	\$	366.00
New platform at front of class	\$	2,440.00
Mechanical	\$	-
Upgrade allowance	\$	1,830.00
Electrical	\$	-
Re locate existing conduits & wiring (windows)	\$	610.00
Install new suspended 2'x4' fluorescent fixtures	\$	3,904.00
Install new floor mounted receptacles	\$	2,196.00
Finishings/Window Dressings	\$	-
New 24x48 desk c/w b.b.f	\$	50,752.00
New white boards (4'x8') 2 units	\$	1,464.00
Student Assistance	\$	-
	\$	-
Safety	\$	-
Safety Fees	\$	610.00
Other/Contingencies	\$	-
Cleaning	\$	306.00
	\$	-

DISCLAIMER:	SUBTOTAL	\$	91,654.94
This estimate does not include such items as computer equipment, data cabling, network, or projection equipment, unless otherwise noted in this estimate.	Taxes	14%	\$ 12,831.69
	TOTAL	\$	104,486.63



In addition to the costs outlined above in the facilities management estimate the following three items are to be included in this proposal for EN.2050 upgrade:

- Digital Overhead Projector System– Canon system \$4500
- Millwork, shelving and cabinetry for civil engineering resource material – \$5,500
- Computer resources for the civil computing laboratory area inside 2050. This is to include 15 new HP machines with LCD monitors to reduce heat production. Cabinet desks for the security of each of these units are also to be installed.

Cost per computer/desk unit has been estimated at \$3000 for a total of \$45,000
The subtotal from these extra items is thus \$55,000 + tax.

The grand total budget for this Phase 2 proposal is as follows:

$$\begin{array}{r} \$91,654.94 \\ + \text{ \$55,000.00} \\ \hline \text{\$146,654.94 + tax} \end{array}$$

5.0 Implementation Schedule

The work is proposed to begin after the completion of the term 8 academic semester in April 2007 – allowing for the easier relocation of civil students during the less-busy spring and summer semester.

6.0 Benefits of Proposed Changes

(a) Solutions Provided

In addition to the benefits outlines in the phase 1 proposal this project will improve the quality of air, natural lighting and educational value of the classroom itself. It will enhance the comfort and security of students and provide a clean respectable room with a rational system for marking the legacy of previous classes.

(b) Further the Goals of MUN

The project furthers the goals of the university by improving the quality of instruction, and the learning and health of students. It will provide the same tools currently available at other schools and assist in future development of on-line related education.

(c) Number of students benefiting

The number of students benefiting from this project will be 20-40, every academic semester of the calendar year. These students will receive all instruction (approx 20 lectures per week) via this new infrastructure. In addition, during the year in which a second group of new entrants will be accepted, the proposal makes provision for seating and desks within the existing space.



(d) Consequences of *Not* Receiving Funds

The consequences of failing to receive this funding will demonstrate the general apathy toward student health and wellbeing by ignoring the demands for improved air quality and natural lighting, in addition the poor condition of the room will reflect on the civil discipline as a whole – general disrespecting the work environment or people. For more information on the proposed modernization please contact Steve Bruneau at 737-2119.



APPENDIX A

Proposal form January 2006 – Phase 1