



Vermont Agency of Natural Resources, Waste Management Division Construction Site Waste Management Reduction Plan

Company Name: Pizzagalli Construction Company **Contact Person:** Jeff Carlson
Address: 50 Joy Drive, South Burlington, VT **Telephone No.:** 802-651-1297
Project Location: South Willard Street, Burlington, VT

Project Description: Champlain College Student Life Complex is approximately 40,100 square feet of new construction. It consists of a cafeteria, gymnasium, fitness center, lounge and recreation rooms. The project is scheduled to start in the spring of 2003. The first phase requires the removal of Pearl Hall Annex, an existing exterior elevator, and a 9' X 25' piece of Hamrick Hall. Hamrick Hall is scheduled for removal in the spring of 2004 after the cafeteria in the Student Life Complex is operational. Our waste management reduction plan is divided into two phases comprised of several components each, as outlined below.

Phase I- Deconstruction & Demolition:

The deconstruction and demolition phase of the project will be closely managed by Pizzagalli Construction personnel experienced in reducing construction site waste. We have thoroughly investigated the components and construction types of the existing structures to pre-plan for their removal. Working with Champlain College, we have identified all salvageable materials and appurtenances. With ReCycle North, we have created a plan for the reuse of those useable items not desired by the College. The main demolition debris will be sorted and recycled in the typical manner. The primary components of the debris will be the steel/metals and the concrete foundation. Prior to the bidding process, we will identify potential buyers for the building components and provide a listing of potential buyers in the demolition bid package.

Phase II- Construction:

During the construction phase we will implement a program similar to the Champlain College Information Commons Project. Using the lessons learned on the IC project, as well as new resources available from ANR and CSWD, we have created a construction waste reduction plan designed to reduce common waste by 15%. Key components of this plan are: 1) Contractual responsibility, 2) Worker orientation and education, 3) Implementation and enforcement.

- Contractual responsibility will be established during the bidding process. Bidders will be given detailed waste reduction instructions as part of their individual bid packages. The instructions will be specific to the subcontractor's scope of work, not generic for the project.

- Worker orientation and education is crucial to the success of the program. We will make a concerted effort to make the program as easy as possible to follow and to help workers understand the incidental benefits and benefits to their community and to themselves. On the IC project, many workers were the beneficiaries of our recycling efforts by receiving reusable materials which would have otherwise been sent to the landfill.
- Implementation and enforcement follows a well designed program rather easily. PC management and employees are designated specific responsibilities to promote awareness and minimize contamination. Incentives, such as celebration lunches and commemorative clothing, raise the awareness of the workers and help foster a common goal mentality throughout the project.

Jobsite Planning Worksheet –

Waste Prevention Planning: Once Champlain College has moved out of the buildings, they are going to salvage items of value to them. The next step is having ReCycle North “soft strip” the buildings, which consists of taking out the doors, windows, wainscoting, trim, hardwood flooring and stairs. The foundations of the buildings will be crushed and used in concrete mix. The asphalt that is removed will be reprocessed. There will be cardboard and metal dumpsters on site, reusable materials storage containers, along with a dumpster for trash, for the duration of the project to reduce landfill waste and job costs.

Education Plan: Pizzagalli Construction Company will hold pre-construction meetings with Subcontractors. At this meeting, we will tell them that there will be specific containers for materials and if they are used correctly, Pizzagalli Construction Company will pay for removal. If they are not properly used, the subcontractors will be responsible to remove their waste off site. We have found this monetary incentive to work very well in the past. The waste reduction plan will be discussed at the weekly job meetings. Scrap lumber and salvageable materials are customarily placed in a specified area so they can be utilized by employees.

Tracking: Pizzagalli Construction Company will be able to track material quantities through the accounting phasing of trucking slips, company labor records (payroll) and subcontracts. On a daily basis, work is phased so we can distinguish with ease the deconstruction of the buildings as well as loads of construction debris diverted from the waste stream. The loads to the landfill will be tracked, as will the recycled metals, cardboard, concrete, asphalt, and the amount of clean wood set in its designated area will be monitored. ReCycle North will provide us with the necessary paperwork for tracking the quantities they salvage.



Waste Reduction Budget:

ReCycle North subcontract (proposal dated 11/11/02 attached):	\$6,928
Labor for implementation:	\$16,200 *
Hauling and rental for the containers:	\$2,700 **
Celebration/award/recognition program:	<u>\$1,000</u>
Total program budget:	\$26,828

*- Based on 5 hours per week for 108 weeks. This is the same employee responsible for the implementation of the Information Commons program, John Gavin. John is a 26-year PC veteran residing in Richmond, VT.

** - Based on \$25 per week for 108 weeks.

Qualifications: Jeff Carlson has been assigned to be the Project Manager for this project. He was the superintendent for the Champlain College Information Commons project that is currently a case study for this program and won the Governor's award for excellence in waste reduction. Jeff is currently managing a similar program for the 381 Main Street dormitory project for the College and is planning another for the Center for Global Business project to begin next spring.

REUSE & RECYCLING WORKSHEET

Material	Estimated Quantity	Management – Salvage or Recycling	Handling Procedure
Sample Listing: Cardboard	(1) 3 cy dumpster	Recycled thru ABC Hauling	How materials are to be removed, separated, stored and hauled for reuse or recycling. Cardboard dumpster will be placed as located in plan sheet. Will call hauler when full.
Cardboard	(25) 3 cy dumpster	Recycled thru Champlain College	PC superintendent to call when full.
"Clean" Wood	2 Tons	Placed at designated area for employees to take	Clean wood to be placed at designated area.
Painted Wood	1 Ton	Trash	
Plaster/Drywall	2 Tons	Trash	
Asphalt Roofing	1 Ton	Trash	
Insulation	.25 Ton	Trash	
Glass	.12 Ton	To be salvaged	ReCycle North
Flooring	.5 Ton .5 Ton	Tile and Carpet Trash Hardwood Flooring to be stripped	ReCycle North
Asphalt	15 Tons	Reuse by A. Marcelino	Stripped and hauled to Marcelino
Brick	1 Ton	Crushed and reused by SD Ireland	Demo and haul to crusher
Concrete	54 Tons	Crushed and reused by SD Ireland	Demo and haul to crusher
Metal	4 Tons	Metals container	PC superintendent to call when full.
Salvageable Items: Windows, doors, moldings, fixtures, bathroom fixtures, etc. (Please list items separately.)		See attached lists by ReCycle North	Champlain College
Other			