

Controlled Demolition Buildings & Urban Structures

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HAK JAM APARTMENTS *Pohang, South Korea*

On July 1, 1996, Controlled Demolition Incorporated (CDI) of Phoenix, Maryland, its London-based affiliate, C.D.I. (U.K.) Ltd., and its Seoul-based affiliate, CDI Korea, demolished 12 apartment buildings at the Hak Jam Apartment Facility for Kolon Construction Company of Seoul, South Korea in a single implosion sequence. To the best of CDI's knowledge, this simultaneous implosion of 12 independent structures sets a new world record in that category.

The 12 apartment blocks were prepared by Kolon Construction's crews under the direction of Mr. Douglas Loizeaux, Vice President of CDI and Mr. Myung Ho Hahm of CDI Korea. The direction followed implosion design as laid out by CDI. CDI's field supervision and international insurance coverage was furnished by C.D.I. (U.K.) Ltd., the international contracting affiliate of CDI.

Over 4,000 holes were drilled in the support columns of the structures which were then loaded with a total of 1,340 lbs. of explosives.

Concern for vibration damage was high among adjacent property owners. CDI's initiation system was timed to cause the structures to fall at various times at the Hak Jam site, permitting vibration caused by the fall of debris from each structure to help cancel out vibration created by the adjacent structures as they fell. Seismic monitoring indicated vibration levels well within allowable limits as respects protection of other housing units to remain in use at the site. Debris was cleaned up ahead of schedule following the implosion by Kolon Construction and their subcontractors.

TRAVELERS BUILDING Boston, Massachusetts

Controlled Demolition Incorporated's database on the removal of urban structures is the product of the demolition of over a billion square feet of high rise office buildings, hotels and residential structures, worldwide. Hands-on experience and knowledge of regional design/construction practices and materials permits design of the safe, efficient and cost effective demolition and removal of massive buildings in a matter of weeks instead of the months required by more traditional demolition methods.

The 451,000 square foot, 18-story, structural steel Traveler's Insurance Building blocked development of a valuable property in Boston's financial district. Controlled Demolition Incorporated's team was able to complete asbestos abatement/environmental remediation, prepare the structure for implosion and drop the massive structural steel building just 2 weeks after our client's last employee vacated the premises. Controlled Demolition Incorporated's DREXS (Directional Remote Explosive Severance) System sequentially severed the 4 inch thick flanges of the buildings' support columns to drop the structure without damage to a Boston Fire Department facility just 30 feet away. The 60,000 cubic yards of debris generated by the implosion of this downtown office complex was so well fragmented that it was cleared from the site in just 6 weeks.



"...I feel now, more than ever, that the right decision was made in contracting with Controlled Demolition Incorporated for a total demolition package...this job was an extremely difficult one through the dealings with the unions, the physical constraints, a very compressed time schedule and the high degree of potential liability involved. The effort your employees put into achieving the end result is exemplary..."

*Peter J. Stankiewicz, Senior Construction Manager
One Twenty Five High Street Limited Partnership
(Developer)*

ARDLER MSD FLATS Dundee, Scotland

After a tragic accident caused by another explosives contractor in Glasgow, Scotland shut down explosives demolition in the UK, Controlled Demolition Incorporated was called to Dundee by a local Scottish contractor who wanted The Loizeaux's to convince authorities that implosion, carried out by qualified professionals, was still the safest means of demolishing redundant, high-rise public housing facilities in heavily populated areas.



Controlled Demolition Incorporated's experience and understanding of the natural failure characteristics of reinforced concrete structures permitted a finite analysis of 3, 17-story Ardler Buildings. That analysis resulted in Controlled Demolition Incorporated's design of an implosion program which used less than 30% of the explosives generally used in

the United Kingdom by other contractors. Controlled Demolition Incorporated's operations resulted in the complete fragmentation of the structures, without fly of debris outside of the footprint of the structures being demolished...exactly as Controlled Demolition Incorporated had predicted.

On the Ardler Project, Controlled Demolition Incorporated also introduced a tough, yet flexible covering system to the UK Market which Controlled Demolition Incorporated has used with complete success internationally for over 15 years. This system precluded the reoccurrence of problems which plagued the Glasgow blast a year prior.

"...We were completely satisfied with your supervision, implementation and attention to detail related to explosives preparations on the site and your control on the day of the demolition. The experience and competency of your team was fully evident throughout this critical phase of the project..."

*Christopher D. Brown, Associate Director
Brian Pyle Associates
(Consultant to the Dundee District Council)*

Construction Failures

SHEIKH A. ALAKL RESIDENTIAL & COMMERCIAL CENTER Jeddah, Saudi Arabia

Over the last 52 years, Controlled Demolition Incorporated has designed and used explosives to cause the controlled, progressive failure of thousands of brick, concrete and steel structures. It comes as no surprise that Controlled Demolition Incorporated's database is highly useful in analyzing the condition of, and designing the implosion sequence for the demolition of structural systems damaged by construction failure, earthquakes, fires or explosions.

Half of the 17-story Sheikh A. Alaki Apartment Building in Jeddah, Saudi Arabia collapsed when portions of the new reinforced concrete facility were overloaded during final stages of construction. At the request of Bechtel, Controlled Demolition Incorporated's team mobilized to the site in less than 24 hours, prepared the central-core, flat slab, reinforced concrete structure in another 27 hours and put the balance of the building on the ground with absolute safety just 96 hours after the start of demolition preparations. The "arm's-length" nature of Controlled Demolition Incorporated's operations, combined with our in-house engineering, rapid response capabilities and international network of resources make Controlled Demolition Incorporated the natural choice in dealing with structural emergencies, worldwide.

Reference: [Sheikh A. Alaki Periodical](#)

"...Thank you for your incredibly fast response to our request that you assist us on the Sheikh A. Alaki Project...Of particular importance was your ability to work closely with all of the multi-national players involved on this project. Everyone was impressed by the professionalism shown in your dropping of the structure without damaging facilities to be saved next door or compromising efforts to excavate bodies still buried in the rubble from the initial catastrophe... Thanks again for the outstanding job you did..."

*Neville S. Long, Deputy Program Manager
Arabian Bechtel Company Limited
(Prime Contractor)*

2000 COMMONWEALTH AVENUE *Boston, Massachusetts - USA*

In January of 1971, half of the 16-story, #2000 Commonwealth Avenue condominium in the suburbs of Boston, Massachusetts collapsed. High winds had blown over space heaters on the top floor, causing a fire in the timber shoring underneath the concrete pour made at roof level the day before...the shoring under the roof slab failed. Workers entered the building the next morning to assess the damage. Without warning, a progressive collapse began and stripped out half of the structural slabs. Hundreds of tons of debris was left hanging from reinforcing elements on the south side of the central elevator and stair well core, taking the lives of four construction workers.

Controlled Demolition Incorporated (CDI) was called to the site by SAS Demolition after removal of debris from the initial collapse and recovery of the bodies of workmen had been completed.

Controlled Demolition Incorporated worked for three days to prepare the structure for implosion. Site constraints on three sides of the structure meant that the rigid elevator core had to be dealt with independently of the flat slab construction which had been temporarily shored by the



Boston Fire Department. Preparation of the structure included a combination of explosives demolition applications on reinforced shear walls in the core, concrete columns in the portion of the building remaining and timber shoring placed under those slabs after the initial failure. Controlled Demolition Incorporated orchestrated a carefully planned progressive collapse that first stripped the floors off of the central core and then felled the rigid central core into an open area to the rear of the site.

Earthquake-Damaged Structures

COLONIA ROMA Mexico City, Mexico

After the 1985 earthquake, Controlled Demolition Incorporated (CDI) was called to Mexico City by the US Department of State to assist local authorities in the demolition of structures that were still standing despite severe structural damage. Controlled Demolition Incorporated's in-house engineering capabilities and field analysis of the structural damage permits rapid demolition design. Minimal preparations required by Controlled Demolition Incorporated, combined with the stand-off nature of implosion activities makes Controlled Demolition Incorporated's emergency response services the safest means of handling structures distressed by or rendered dynamic as a result of seismic events.

Controlled Demolition Incorporated's team managed over 400 employees of four Mexico City-based general contractors to prepare several structures for implosion simultaneously. Controlled Demolition Incorporated demolished 26 structures for the Mexican People, sometimes as many as 4 in 1 day in various parts of the shattered city. Working in the local language, Controlled Demolition Incorporated's team felled hanging structures that threatened rescue efforts, pulled leaning structures away from occupied buildings without a single injury to workers or contractors who supported our effort.



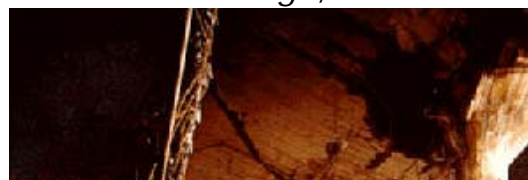
"...I would like to take this opportunity to thank you [CDI] for your remarkable volunteer contributions to the Embassy's earthquake relief effort. The operation was successful precisely because you and everyone involved worked together as a team. Such an immediate and effective response by you and the Embassy community made a difference where it counted most – in saving lives and relieving pain of those directly affected. We can all be proud of this achievement..."

*John Gavin, US Ambassador to Mexico
Embassy of the United States of America*

Fire-Damaged Structures

CUNEO PRESS BUILDINGS Chicago, Illinois - USA

The Cuneo Press Buildings stood vacant for years as the suburbs of Chicago tried to redefine their role in redevelopment of the City's industrial complex. An intermittent owner stored used tire casings in one of



the structures. A fire developed, causing major structural damage, not only resulting in the condemnation of the 8-story structures, but causing the City to declare them "out of bounds" due to the extreme impact of high temperatures and partial failure of one of the buildings' structural system.

Under extreme political constraints and critical deadlines, Controlled Demolition Incorporated (CDI) was selected by the City of Chicago to work with a traditional demolition contractor to clear the site. In a fast track operation that involved the participation of a multitude of city agencies walking the edge of their specific mandates, Controlled Demolition Incorporated was able to prepare and fell the structures with absolute safety to adjacent interstate routes, rail lines, city streets and river retaining walls which were already vulnerable because of pre-existing damage.

"I am writing to express my appreciation for the professional manner in which your company completed the implosion of the Cuneo Press Buildings...Mayor Daley was also very impressed with your work and spoke very highly of your company after seeing how smoothly things went... He and I look forward to working with you on other projects..."

*Cherryl T. Thomas, Building Commissioner
City of Chicago, Department of Buildings*



Bomb-Damaged Structures

ALFRED P. MURRAH FEDERAL BUILDING *Oklahoma City, Oklahoma - USA*

When a crime scene involves the detonation of explosives, and the possibility of undetonated materials exist, an experienced contractor is needed to preserve evidence critical to ongoing investigations while dealing with any explosives discovered. Responding first to the request of the General Services Administration (GSA), and subsequently that of the Federal Bureau of Investigation (FBI), Controlled Demolition Incorporated (CDI), was able to assist in analyzing the integrity of the unstable Alfred P. Murrah Federal Building in Oklahoma City. Controlled Demolition Incorporated's team coordinated with rescue and body retrieval efforts by authorities, salvaged evidence for the FBI's investigation, prepared the building for implosion, and completed the demolition sequence in a continuous work program. Controlled Demolition Incorporated is equipped to work closely with governmental agencies under complex project scenarios that demand professionalism and attention to detail while working under difficult site, political and emotional conditions.



"...From assisting in the recovery of personal items for the victims, to directing the file and rubble removal for safe working areas in the building, the personnel of Controlled Demolition Incorporated provided the expertise and first-hand knowledge necessary to complete every activity in a timely and safe manner. Your overall concern for the safety of not only your crew and subcontractors, but of all the workers in the building resulted in no one being injured in a building that was in a state of collapse...Through each phase of the project, CDI 's staff provided the professional expertise and guidance which resulted in the safe and timely implosion of the Alfred P. Murrah Federal Building..."

*Robert E. Hill, Vice President
Brockette, Davis & Drake, Inc.
(Consultant to General Services Administration)*

Also See [Alfred P.Murrah Building Implosion Press Release](#)

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Last modified: July 12, 1999