



# GREEN

DEMOLITION | ASBESTOS ABATEMENT | ENVIRONMENTAL REMEDIATION  
ASSET RECOVERY | DYNAMIC COMPACTION | EXCAVATION  
STRUCTURE REMOVAL | SITE PREPARATION  
HAZARDOUS WASTE MANAGEMENT | BUILDING RENOVATION

# DEMOLITION

**Brandenburg®**

# ABOUT

# GREEN DEMOLITION

## Common Items Salvaged and Recycled:

- Architectural Elements
- Asphalt
- Bricks
- Carpeting
- Concrete
- Fly Ash
- Glass
- Gypsum
- Metal
- Processing Equipment
- Roofing
- Wood

Brandenburg has been practicing “Green” demolition techniques since the company was established over 40 years ago. Brandenburg immediately recognized the environmental, social, and economical value driven from the proper remediation, segregation, and recycling of all debris generated from demolition projects long before the recent trends.

The U.S. Environmental Protection Agency has estimated that America generates over 135 million tons of construction and demolition debris annually; approximately 70% is demolition debris. Brandenburg makes every effort to remediate, salvage, and recycle as much material as possible from project sites. The company’s focus is to remediate environmental contamination of materials to minimize the quantity sent to landfills. During this process, materials are salvaged for reuse and processed for recycling. The land is also restored and returned to its closest possible natural state.

Brandenburg’s innovative demolition practices and procedures are designed to produce the optimal dismantling methods for segregation of materials. Prior to a project start, an engineering survey is conducted and a site specific plan is developed. This plan addresses all known environmental, social, and safety related elements and assists to determine the appropriate demolition means and methods to employ.

The first step in a typical demolition process is to implement environmental and safety control methods. These methods are designed to ensure the safety of the workers, the public, and the environment. The next step is to abate all environmental hazards. Once that has been completed, items and equipment that can be reused or have historical value are salvaged in an asset recovery effort. The next step is to remove all general construction debris that cannot be salvaged for reuse or recycling. The structure is then dismantled following optimal methods to segregate the materials. Once the materials have been segregated, they are processed and diverted to the appropriate reuse/recycling destinations.

Although these efforts may seem extraordinary, Brandenburg acknowledges the benefits of these “Green” demolition practices. Majority of people have an impression that demolition is done by the methods of either implosion or “smash and bash” which reduces structures into huge piles of debris. It is then assumed that the debris is sent to landfills. Brandenburg defies these perceptions and typically exceeds the requirements of many “Green” efforts. Brandenburg will continue to develop new markets, equipment, and methods to assist in achieving the maximum level of “Green” demolition.





### Major Recycling Accomplishments

- > Of the 62,850 tons of material generated during the demolition of the Chicago Sun-Times building, 55,000 tons or 78% was recycled.
- > During the Veterans Stadium demolition project, nearly 85,000 cubic yards of concrete was processed and reused on site. There were also several architectural elements that were salvaged and reused during construction of the new baseball stadium.
- > Over 12 million board feet of 300 year old heart pine and 23 million bricks were salvaged and recycled during the demolition of the Sears Warehouse structure.
- > West End (Sands Casino), located in Bethlehem, PA, produced more than 276,000 net tons of concrete, which was processed onsite. Recycled material consisted over 90% of all material. This was a LEED certified project.

**Photos, left:** BHP Copper, Inc. contracted Brandenburg to raze their 650-acre processing facility located at the 7000-acre mine site in San Manuel, Arizona. This project was completed in two phases and is considered one of the world's largest mine closure. Due to the remote location, Brandenburg utilized railcars to transport scrap from the site.

## PROFESSIONAL SERVICES

### DEMOLITION/DECOMMISSIONING

Industrial  
Commercial  
Highway structures  
Residential

### ENVIRONMENTAL

Asbestos abatement  
Decontamination  
Site remediation  
Hazardous waste management  
Water treatment  
(advanced oxidation process)  
By-products recycling  
Underground storage tanks  
Drum identification and management  
Labpacks

### SITE PREPARATION

Mass excavation  
Infrastructure development  
Dynamic compaction  
Soil stabilization

### EMERGENCY RESPONSE

Consultation  
Structural engineering  
Specialized equipment  
Skilled labor

### CONSULTING

Specification development  
Facility closure  
Environmental remediation  
Utilities system design  
Site preparation  
Surplus facility disposition  
Asset recovery

### ELECTRICAL & MECHANICAL UTILITIES

System mapping and design  
Mechanical construction, piping  
disconnection, and relocation  
Electrical construction,  
disconnection, and relocation

### INVESTMENT RECOVERY

Scrap management  
Equipment rigging  
Equipment sales

City of Chicago  
Commonwealth Edison  
Conectiv Energy  
ConocoPhillips  
Consolidated Edison  
Corn Products Corporation  
Chrysler  
Dow Chemical USA  
Eli Lilly and Company  
Exelon

Exxon Mobil Corporation  
Ford Motor Company  
General Electric  
General Motors  
Gilbane Building Company  
Home Depot  
Honeywell International Inc.  
Kraft General Foods  
Marathon Oil Company  
National Starch & Chemical  
Navistar International  
NiSource  
O'Brien & Gere  
Pannatoni Construction Inc.  
Pennsylvania Power & Light  
Pepper Construction Company

Skanska USA Building, Inc.  
Smurfit Stone  
Sunoco, Inc.  
The Trump Corporation  
Turner Construction Co.  
U.S. EPA  
United States Steel Corporation  
Valero  
Walbridge Aldinger  
Walsh Construction Company  
Waste Management, Inc.  
WE Energies  
Weston Solutions  
Wyeth Pharmaceuticals  
Xcel Energy

**PARTIAL CLIENT LIST**

Abbott Laboratories  
AMEC  
American Electric Power  
Amtrak  
ArcelorMittal Steel  
Arkema Inc.  
ASARCO  
Ashland Chemical  
BASF  
BHP Copper, Inc.



BMW International  
Bovis Lend Lease  
BP Amoco  
Cargill  
Centerpoint Properties  
Chemtura Corporation  
Chicago Transit Authority  
Citgo

Pfizer Inc.  
Phelps Dodge  
Praxair  
Proctor & Gamble Company  
Quantum Chemical  
Rohm & Haas  
SEPTA  
Sherwin Williams

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