PRESERVING CLEVELAND’S UNIQUE CHARACTER and HERITAGE
Heritage preserved across USA

Gas Works Park in Seattle, Washington

An aerial view taken on from an altitude of about 1,800' MSL

Photograph courtesy of Liesl Matthies Sept 5 2011
Heritage preserved across USA

Gas Works Park in Seattle, Washington

Photograph courtesy of Joe Mabel

Panoramic view shows (from left to right) playfield, old rail piers, play barn, portions of the old gas works including the "forbidden zone", Lake Union and behind the lake Capitol Hill, South Lake Union and Downtown Seattle, the Space Needle, and part of Queen Anne Hill.
Heritage preserved across USA

Gas Works Park in Seattle, Washington

Photograph courtesy of Joe Mabel
Heritage preserved across USA

Sloss Furnaces in Birmingham, Alabama

A National Landmark
Operated from 1882 – 1971
Became first industrial site to be preserved for public use

Photograph courtesy of Steve Merkel
**Heritage preserved across USA**

*Sloss Furnaces in Birmingham, Alabama*

Interior of one of the caster buildings, showing only less than half of its depth.

Photograph courtesy of Steve Merkel
Heritage preserved across USA

Sloss Furnaces in Birmingham, Alabama

Conveyor belt and hopper transfer station

Photograph courtesy of Steve Merkel
HERITAGE PRESERVED ACROSS USA

Tod Engine Heritage Park in Youngstown, OH

YSHF - Youngstown Steel Heritage Foundation is the only grassroots steel industry heritage organization in the United States engaged in the preservation of the gigantic equipment used in steelmaking.

Photographs courtesy of the YSHF  www.todengine.org
Heritage preserved across USA

Tod Engine Heritage Park in Youngstown, OH

Photographs courtesy of the YSHF  www.todengine.org
Heritage preserved across USA

Tod Engine Heritage Park in Youngstown, OH

Westinghouse Machine Co.
26" x 54" x 48"
Cross Compound Stationary Steam Engine

Photographs courtesy of the YSHF www.todengine.org
IRON ORE MINING AND SHIPPING FROM MINNESOTA TO CLEVELAND

Photograph courtesy of HAER OHIO, 18-CLEV, 33--1
IRON ORE LOADING AT MINE DOCKS

Photograph courtesy of Great Lakes Historical Society
Cleveland’s Industrial Heritage

Brown Conveying Hoists    Conneaut, OH

First installed in 1880 on the New York, Pennsylvania and Ohio dock in Cleveland

Photographs courtesy of Ray Saikus
Iron Ore Unloading History

Brownhoists & Whaleback Steamer Cleveland, Ohio

Brownhoists first installation was in 1880 at Cleveland’s New York, Pennsylvania and Ohio dock

Photographs courtesy of HAER OHIO, 18-CLEV, 33-1
Iron Ore Unloading History

Brown Conveying Hoists at Conneaut, OH

By 1893 they handled 75% of the iron ore unloaded at lake Erie Ports, ran up to 1930’s.

Photographs courtesy of Detroit Publishing Co.
These machines were in operation during the same time period as the Brownhoists.
Cleveland’s Industrial Heritage

Huletts Ore Unloaders    Cleveland, OH

Located on Whiskey Island

Photograph courtesy of William F. Taylor
CLEVELAND’S INDUSTRIAL HERITAGE

Huletts Ore Unloaders    Cleveland, OH

Photographs courtesy of Ray Saikus

Machine Shop
Power House
DC power with
coal storage,
also shown
spare parts for
maintenance
of the Huletts
Shunt engines were used to move the rail cars under the Hulett Ore Unloaders for filling with iron ore.

Photographs courtesy of Ray Saikus
Cleveland’s Industrial Heritage

Shunt Engines at Whiskey Island  Cleveland, OH

Shunt engines were used with the narrower gauge tracks

Photographs courtesy of William F. Taylor
Huletts Ore Unloaders    Cleveland, OH

Built in 1911 and placed into service in 1912
Located on Whiskey Island
They operated continuously until 1992

Photographs courtesy of Jack Delano - 1943
First Hulett 1899 Steam Powered

Photographs courtesy of HAER
George H. Hulett, Inventor

Photographs courtesy of Western Reserve Historical Society
BATTERY OF ORIGINAL HULETTS

Courtesy of Great Lakes Historical Society
SECOND GENERATION HULETTS

Courtesy of Great Lakes Historical Society
Early Huletts Operational Mishaps

Courtesy of Steamship William G. Mather Museum
CLEVELAND’S HULETTS 1911 DRAWING
CLEVELAND’S HULETTS ISOMETRIC

SINGLE HULETT ISOMETRIC

LEGEND
1. Bucket - Scoops ore out of the cargo hold of a docked ship and dumps ore into a hopper located between the traveling base.
2. Bucket Leg - Supports the bucket and can rotate 360 degrees to provide maximum scooping coverage.
3. Stabilizer - Provides stabilization to bucket leg.
4. Walking Beam - Rotates up to 35 degrees to raise and lower bucket.
5. Trolley - Moves north-south along traveling base to provide access between the boat and ore hopper.
6. Traveling Base - Supports the trolley, ore hopper, & lorry car.
7. Lorry Car - Receives ore from hopper, weighs it, and distributes it to one of four railroad cars or the ore pit.
8. Tower - Towers are structural supports for the entire Hulet.
9. Tower Limit Bridge - The towers move east-west along rails to provide maximum coverage of ship length.
10. Shunt Engine - Bring in empty railroad cars and take away full railroad cars.
11. Empty rail cars.
12. Cable - Prevent walking beam from tipping over.
13. Ore Pit - Provides storage prior to loading ore into railroad cars.
Cleveland’s Industrial Heritage

Huletts Ore Unloaders Cleveland, OH

Built in 1911 and placed into service in 1912
Located on Whiskey Island
They operated continuosly until 1992

Photographs courtesy of Jack Delano - 1943
Early image of Whiskey Island site showing the two Power House buildings and the stocking bridge, lost due to 1978 storm with over 100 mph winds

Courtesy of Western Reserve Historical Society
HULETT’S REVOLUTIONARY FUNCTIONS

Operators in legs with 360° access to cargo in ship

Courtesy of Great Lakes Historical Society
Hulett’s Revolutionary Functions

Transfer to Hulett Hopper and Larry Car Below

Courtesy of Western Reserve Historical Society
HULETT’S REVOLUTIONARY FUNCTIONS

Larry Car Weighing and Discharging into rail cars

Courtesy of Great Lakes Historical Society
Hulett’s Revolutionary Functions

Larry Car Weighing and Discharging for Yard Pile

Courtesy of Western Reserve Historical Society
Decommissioned Huletts prior to their scrapping of two and dismantling of the other two for re-erection.
A Citizens’ Vision Of

Cleveland’s Lakefront and Future

Copyright © 2004 Friends of The Hulett Ore Unloaders and Steamer William G. Mather - Citizens’ Vision
Steamship William G. Mather

Lakefront Icon of Cleveland’s Rich and Proud Maritime Heritage
Steamship William G. Mather

- Flagship of Cleveland-Cliffs Fleet
- ASME Mechanical Engineering Landmark
- Operating Educational Museum since 1991
Hulett Ore Unloaders

Unique Icons of Cleveland’s Innovative Origins and Visionary Citizens

Photo Credit: Jerry Mann
Hulett Iron-Ore Unloaders
- - Cleveland ‘s “Eiffel Tower” - -

Vital to Cleveland’s economy for over 75 yrs

- Cleveland inventor
- Built in Cleveland
- Listed on National Register of Historic Places
- Cleveland Landmark
- ASME Mechanical Engineering Landmark
The Goal of the Friends of the Hulett Ore Unloaders and Steamer *William G. Mather*:

A comprehensive Lakefront and Harborfront Development Plan that invites future economic growth, incorporating complementing venues, and anchored by...
History of Organizations

The **Friends of the Hulett Ore Unloaders and Steamer William G. Mather**, a committee of **Citizens’ Vision**, was formed in 1994 to promote the preservation of the Hulett Ore Unloaders and the Steamship William G. Mather. Members of the committee nominated, organized and had the Huletts and the Mather designated National Historic Mechanical Engineering Landmarks by ASME International (American Society of Mechanical Engineering) and had the Huletts placed on the National Register of Historic Places. This committee was represented throughout the Lakefront Development Planning process and was the original and consistent promoter of placing the Huletts, the Mather, the Cod, the Crawford Museum of Transportation and Industry as well as bringing the Cleveland Aquarium to the Dock 32 area North of the Great Lakes Science Center.

**Citizens’ Vision**, founded in 1999, is a 501C3 Non-Profit Corporation with a mission to provide organizational, educational, fiscal management, and skill development support to groups of citizens in their quest to have their visions and concerns heard and acted upon as related to historic preservation, waterfront development, and public space utilization. This corporation, **Citizens’ Vision**, is the umbrella organization and the home for various committees, such as the **Friends of the Hulett Ore Unloaders and Steamer William G. Mather**, **The Committee to Save Cleveland's Huletts**, **Friends of Whiskey Island**, and **The Committee for Responsible Waterfront Development**.
The Friends of the Hulett Ore Unloaders and Steamer William G. Mather, with the endorsement of The Committee for Responsible Waterfront Development, present a plan of the area bounded by Mall C on the South, East 9th Street pier on the East, and Dock 20 (the Cuyahoga River) on the West which:

- Creates a new Convention and Hotel facility for bigger & multiple conventions
- Collects on the potential of our priceless lakefront and access to it
- Provides infrastructure for all-year-round use and access to the facilities
- Creates an inviting, multifaceted, and repeat visit destination
- Incorporates non-intrusive multi-modal access to the site and its attractions
- Makes it a "Must Place to Go" for visitors and residents alike

Multiple attractions in relatively close proximity (walking distance) of each other will provide the visitor draw for all to be successful. The proposed garage annexes to the Browns Stadium with the full perimeter 8 story high promenade (open air and protected with shops and restaurants) will serve the various facilities and activities that might be scheduled in the Inner Harbor area as well as provide close, protected from the weather and secure parking for the games and other venues at the stadium.
An elevated promenade/plaza (approximately 20’ above dock level) that will begin to the West of the stadium, starting at Dock 20 and wrap around the North and East of the stadium as well as weave in between the different attractions and follow the road south of the Great Lakes Science Center and then to the Rock Hall of Fame Museum and to points East beyond the East 9th Street Pier. This promenade will allow for underground bus, handicap, rapid transit, and truck access to all amenities, plus it will provide covered access between the different buildings during inclement weather.

The themes are: industrial heritage, maritime heritage, rock and roll, the Browns, as well as marine and nautical. The site will also provide venues to host various size concerts, festivals, and planned activities.
Contact Information
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