

**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



Close-up of
Panoramic
view shows
fencing,
details of
elements
that were
restored
and others
left intact

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 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



October 21, 2009

View of the Tod Engine from the man-lift as the siding was being erected for the new building enclosure



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 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



Photographs courtesy of HAER OHIO, 18-CLEV, 33-1

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



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.

IRON ORE UNLOADING HISTORY

Hoover and Mason at Cleveland, OH



These machines
were in
operation during
the same time
period as the
Brownhoists



Photographs courtesy of Detroit Publishing Co.

CLEVELAND'S INDUSTRIAL HERITAGE

Hulett's Ore Unloaders Cleveland, OH



**Located on
Whiskey Island**

Photograph courtesy of William F. Taylor



CLEVELAND'S INDUSTRIAL HERITAGE

Hulett's Ore Unloaders Cleveland, OH



**Machine Shop
Power House
DC power with
coal storage,
also shown
spare parts for
maintenance
of the Hulett's**

Photographs courtesy of Ray Saikus



CLEVELAND'S INDUSTRIAL HERITAGE

Shunt Engines at Whiskey Island Cleveland, OH



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



ICONS OF CLEVELAND'S RICH INDUSTRIAL HERITAGE

Hulett's Ore Unloaders Cleveland, OH

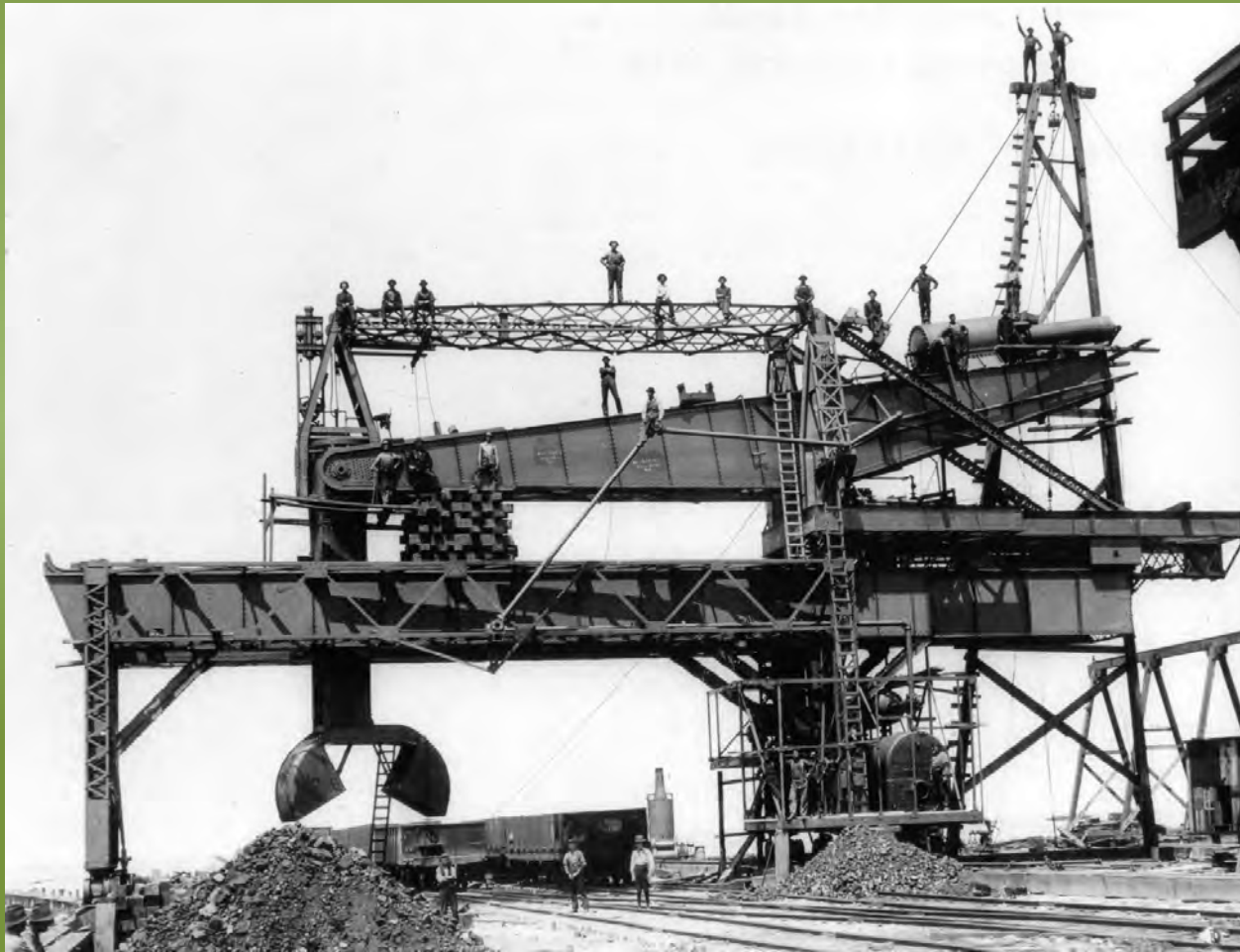


**Built in 1911
and placed into
service in 1912
Located on
Whiskey Island
They operated
continuously
until 1992**

Photographs courtesy of Jack Delano - 1943



FIRST HULETT 1899 STEAM POWERED



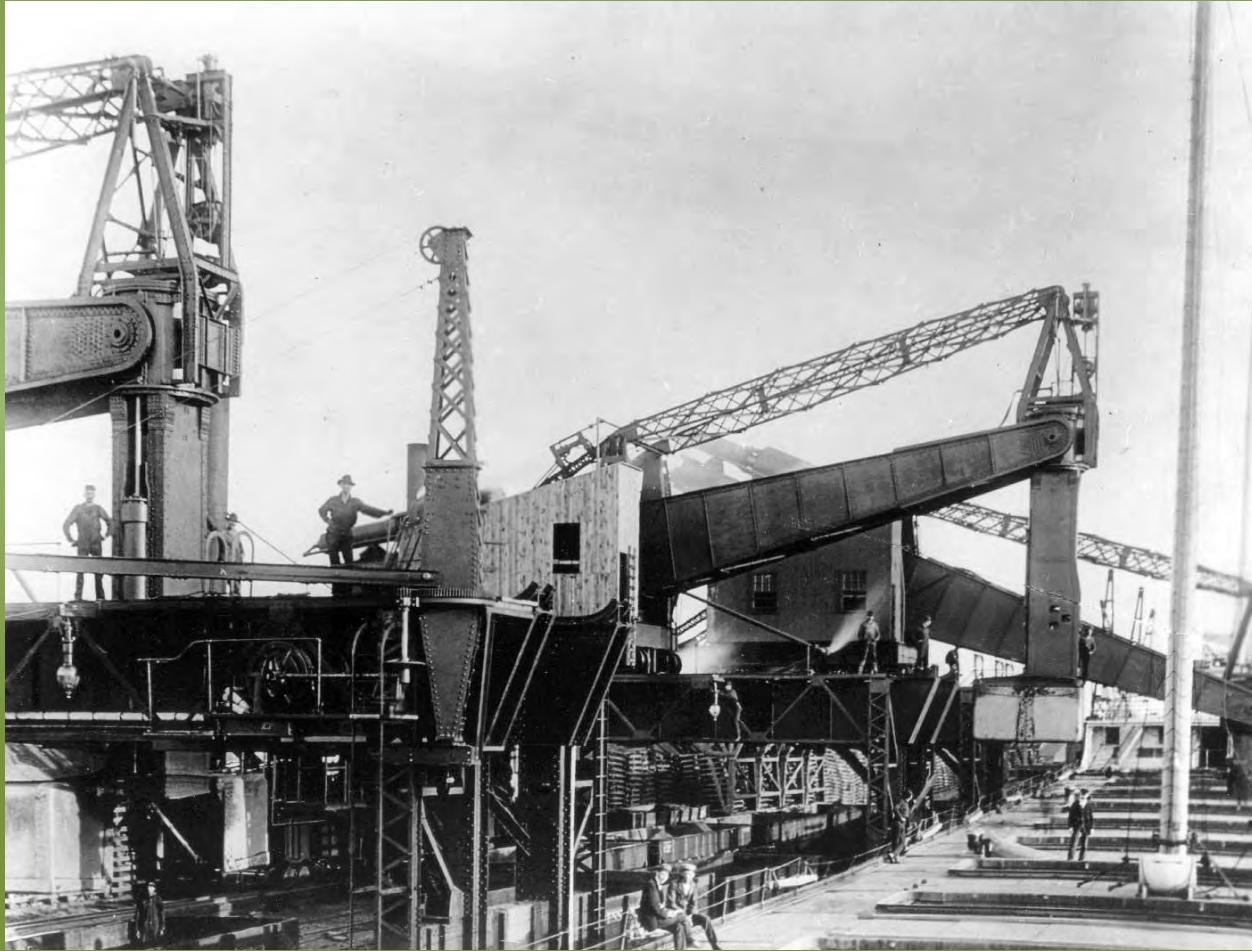
Photographs courtesy of HAER

GEORGE H. HULETT, INVENTOR



Photographs courtesy of Western Reserve Historical Society

BATTERY OF ORIGINAL HULETT'S



Courtesy of Great Lakes Historical Society

SECOND GENERATION HULETT'S



Courtesy of Great Lakes Historical Society

EARLY HULETT'S OPERATIONAL MISHAPS

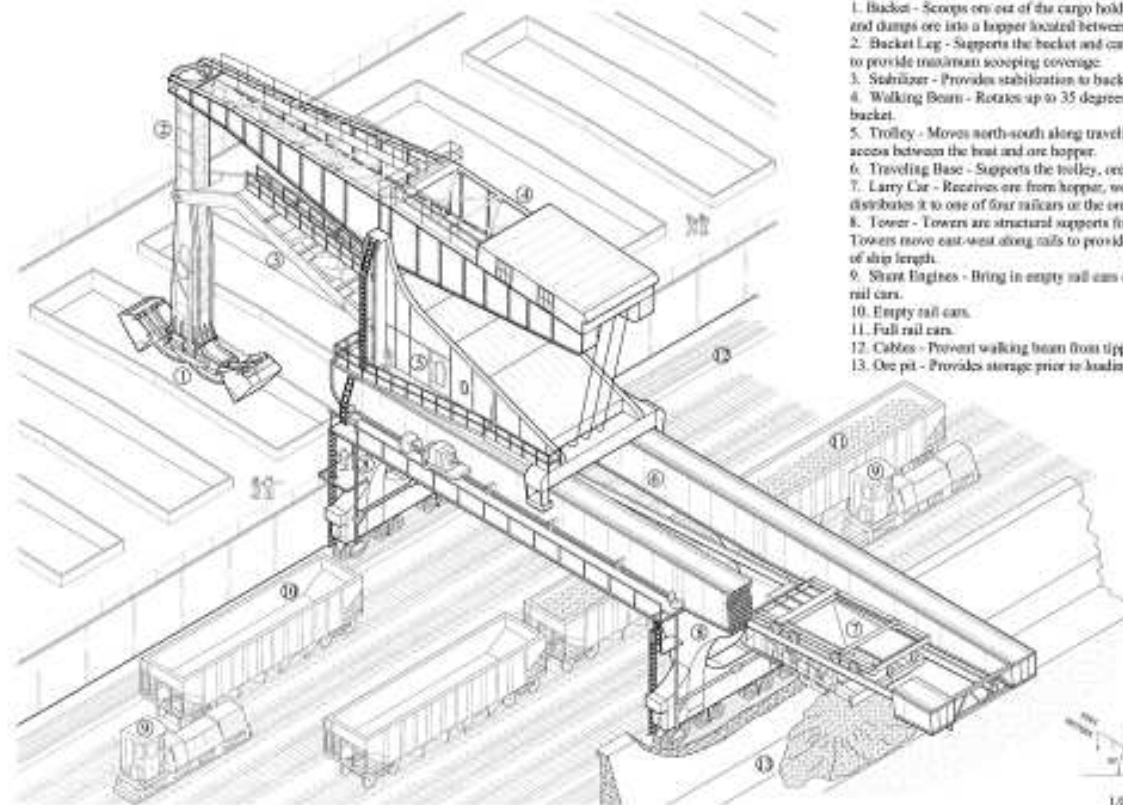


Courtesy of Steamship William G. Mather Museum



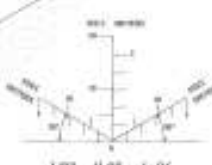
CLEVELAND'S HULETT'S ISOMETRIC

SINGLE HULETT ISOMETRIC



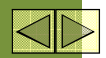
LEGEND

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 swivel 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, & larry car.
7. Larry Car - Receives ore from hopper, weighs it, and distributes it to one of four railcars or the ore pit.
8. Tower - Towers are structural supports for the entire Hulett. Towers move east-west along rails to provide maximum coverage of ship length.
9. Shunt Engines - Bring in empty rail cars and take away full rail cars.
10. Empty rail cars.
11. Full rail cars.
12. Cables - Prevent walking beam from tipping over.
13. Ore pit - Provides storage prior to loading ore into rail cars.



1/8" = 1'-0" 1:96

HULETT'S - HARBOR DUCK COMPANY, 200
 PENNSYLVANIA RAILWAY CO. DUCK, CLEVELAND AND PITTSBURGH DOCK
 DRAWING NO. 1011000000
 SHEET NO. 2 OF 2
 DATE 10/1/00
 SCALE 1/8" = 1'-0"



CLEVELAND'S INDUSTRIAL HERITAGE

Hulett's Ore Unloaders Cleveland, OH



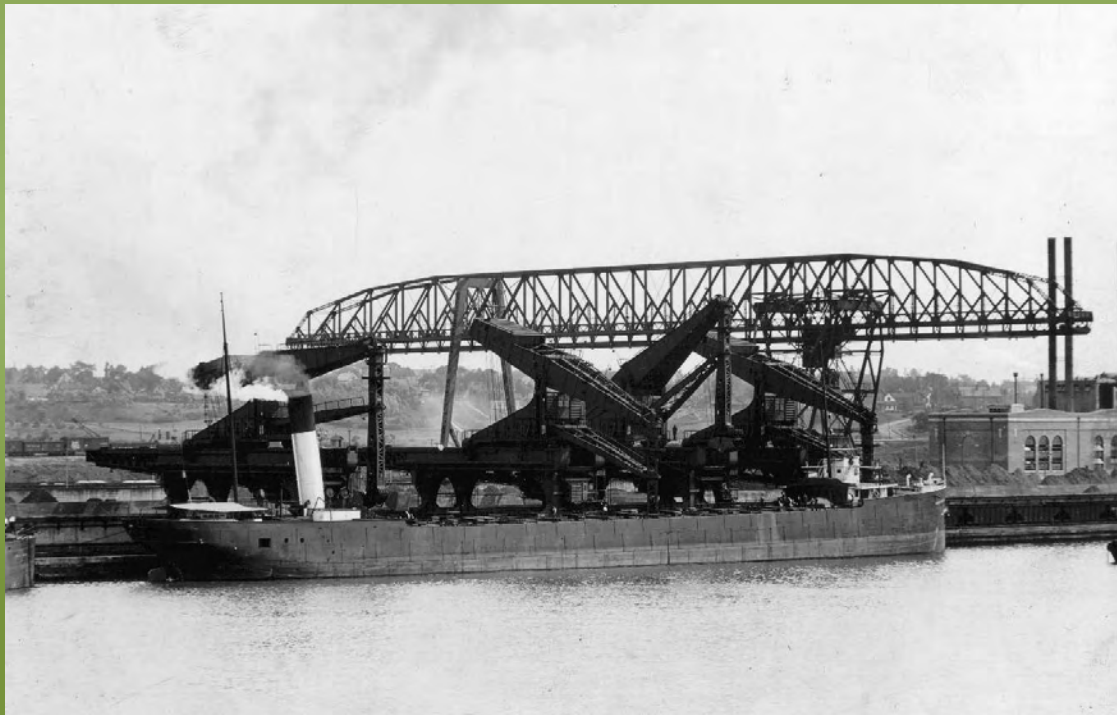
**Built in 1911
and placed into
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Located on
Whiskey Island
They operated
continuosly
until 1992**

Photographs courtesy of Jack Delano - 1943



CLEVELAND'S INDUSTRIAL HERITAGE

Hulett's Ore Unloaders Cleveland, OH



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

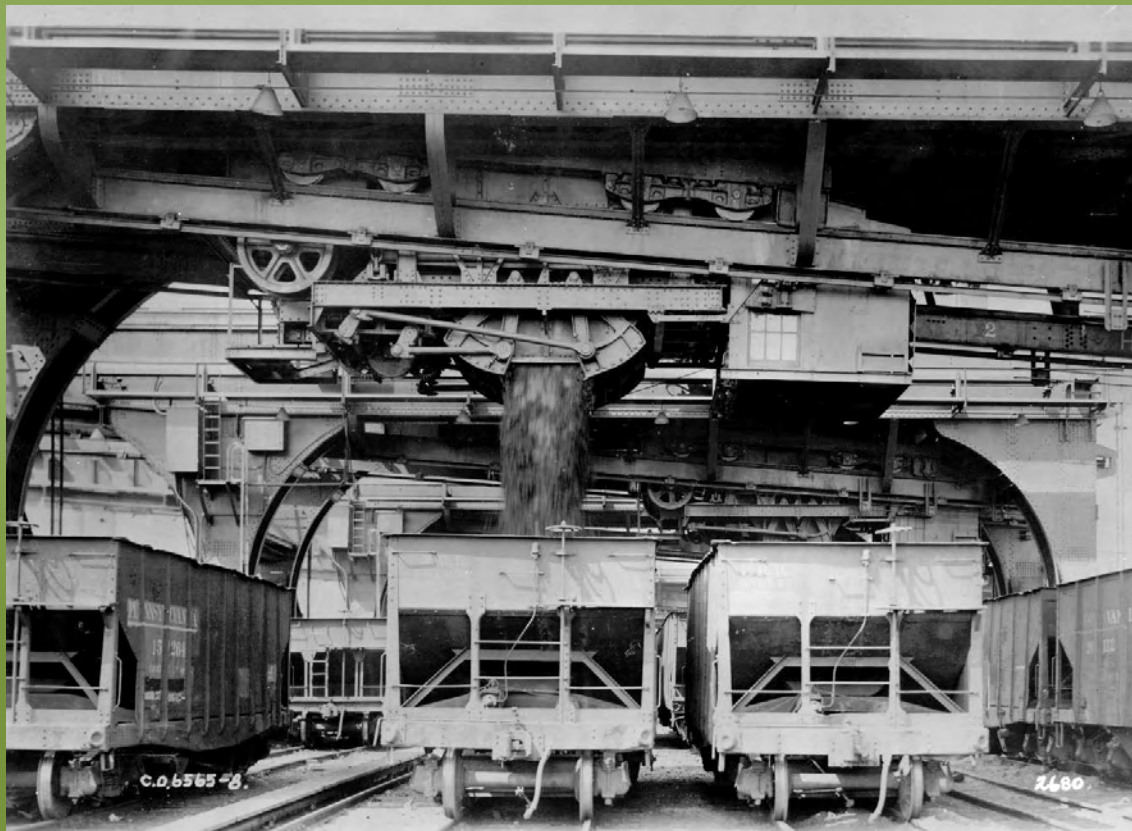
Transfer to Hulett Hopper and Larry Car Below



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

THE FINISHING TOUCHES CANNOT ESCAPE HUMAN INTERVENTION

Hulett's Ore Unloaders Cleveland, OH



**Decommissioned
Hulett's prior to
their scrapping
of two and
dismantling of
the other two for
re-erection**

Photographs courtesy of Ray Saikus



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*



Photo Credit: Bryan F. Lever



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



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...



Hulett Ore Unloaders and Steamer *William G. Mather*



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 Hulett's and the Mather designated National Historic Mechanical Engineering Landmarks by ASME International (American Society of Mechanical Engineering) and had the Hulett's 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 Hulett's, 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 Hulett's*, *Friends of Whiskey Island*, and *The Committee for Responsible Waterfront Development*.



Organizations' Goals

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



hues at the stadium.

Organizations' Goals (Continued)

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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