

This aerial map illustrates the proposed floating wave attenuator project at Battery Park. The map shows the park's green space, Battery Park, and the adjacent waterfront. A red rectangular structure, the floating wave attenuator, is shown extending from the shore. Key dimensions and features are labeled:

- LAWARE STREET**: The street running along the top of the park.
- BATTERY PARK**: The green area on the left side of the map.
- BANKS BUILDING**: A building located on the shore, adjacent to the park.
- 15'**: The width of the floating wave attenuator.
- 180'**: The length of the floating wave attenuator.
- 20'**: The width of the floating wave attenuator at its end.
- 140'**: The length of the floating wave attenuator at its end.
- 125'**: The length of the floating wave attenuator at its end.
- 170'**: The length of the floating wave attenuator at its end.
- FLOATING WAVE ATTENUATORS**: The red rectangular structure extending from the shore.
- EXISTING ICE BREAKER**: A structure located near the bottom right of the map.
- ACCESS**: Arrows indicating access points to the floating wave attenuator.

DECKING MATERIAL

Softwood Decking (Treated Yellow Pine)

Usable Life Span 8 - 10 years

Cost \$2.00 - \$3.00 / Square

Synthetic / Composite Decking

Usable Life Span 10 - 12 years

Cost \$4.50 - \$8.00 / Square

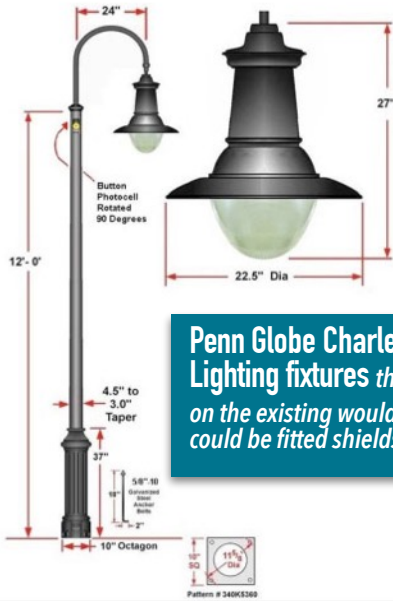
High Density Hardwood

Usable Life Span 25 - 35 years (Garapa)

30 - 50 years (IPE)

Cost \$6.00 - \$7.50 / Square

LIGHTING



Penn Globe Charles 750
Lighting fixtures the same that's
on the existing would be used. They
could be fitted shields if it necessary.

RAILING

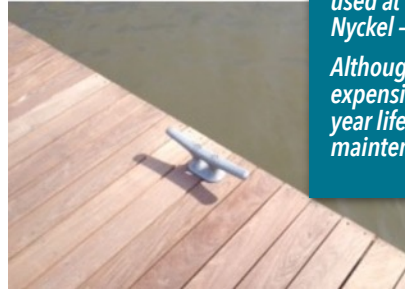


Raven Marine Railing is the
suggested product. It's a black
metal that would be similar to the
existing railing around the wharf.
Other examples were shown.



**IPE High Density
Hardwood** is
recommended and is
used at the Kalmar
Nyckel - 7th Street Dock .

Although the most
expensive it has a 30-50
year life span. Again...
maintenance free.



FLOATING WAVE ATTENUATORS

The wave attenuators concerned the audience the most. The color,
size, placement were all aired. Some questioned the need.

Piers/docks that are not
based in protective
covers are often subject
to the damaging wave
and erosionary forces
associated with violent
storms. These storms
cause damage. Waves,
and wakes formed from
passing boat traffic, can
violently rock harbored crafts. The recommended wave attenuator,
WhisprWave® is designed to extract the energy from incoming
waves. Anchored to the river bottom they would be used 9 months
and removed and stored during the winter.



They're available in various colors, including blue, so the visual
impact wouldn't be as glaring.

Check the [video](#).

THE New Castle **PIER**
AT DELAWARE STREET