



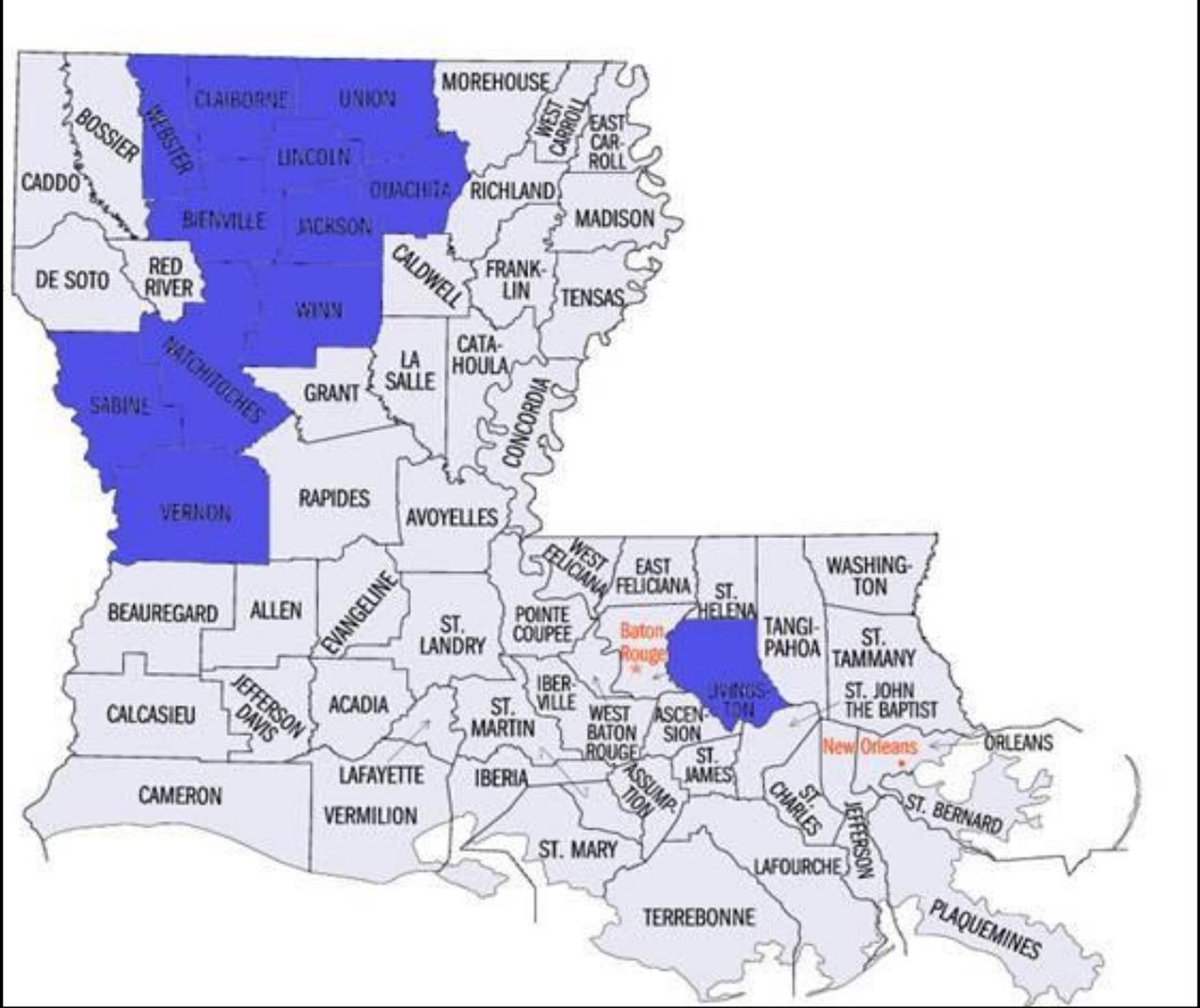
Alliance of the Ports of Canada, the Caribbean,
Latin America and the United States

2013 Facilities Engineering Award of Excellence

Riverfront Cold Storage Facility

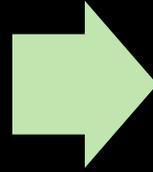


Louisiana's Poultry Industry



Cold Storage Product Flow

**Move from local
and regional
farmers,
producers and
processors**

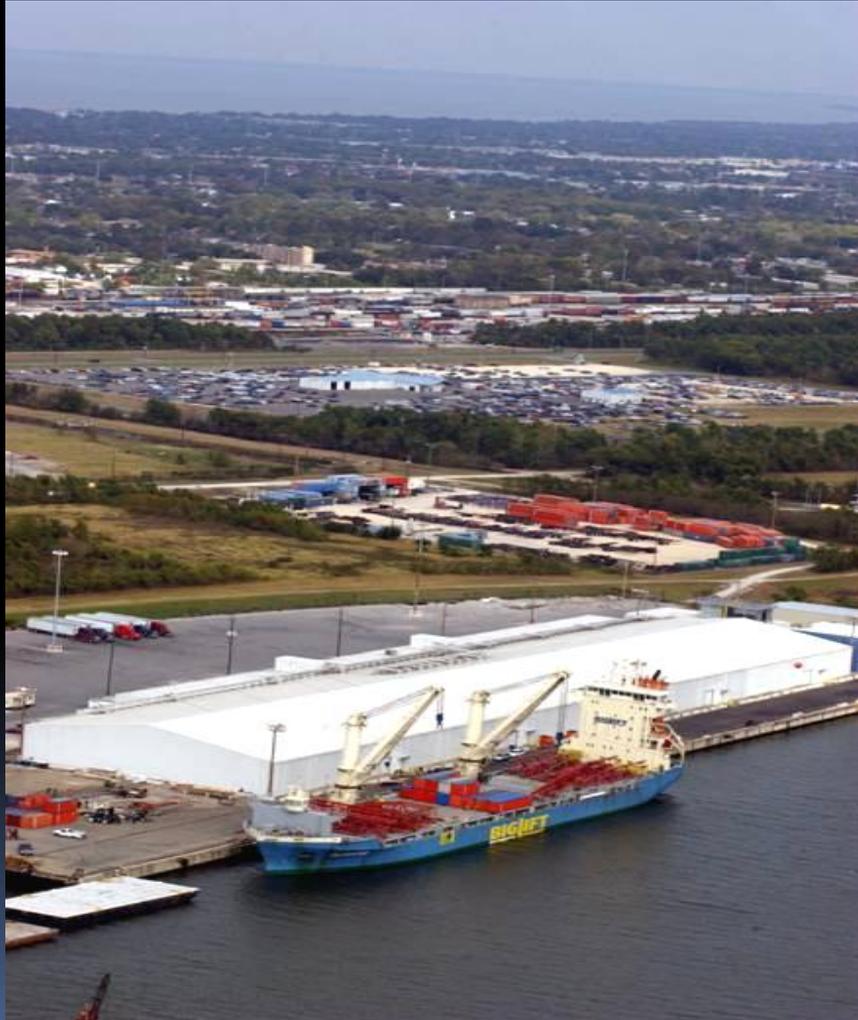


**Blast frozen in
cold storage
warehouses**



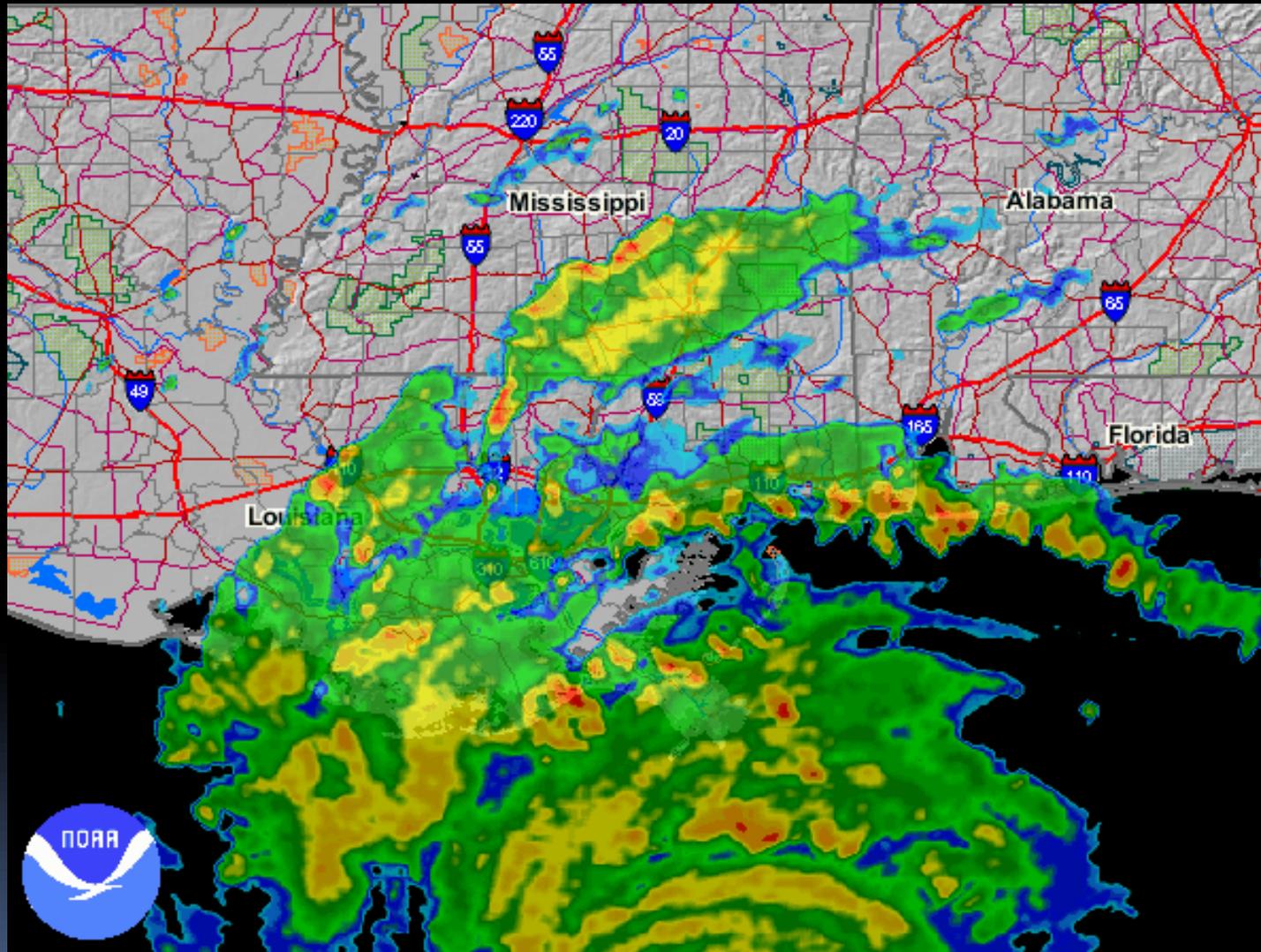
**Shipped via
truck, rail and
vessel to
restaurants and
grocers**

Port of New Orleans Existing Cold Storage Facility **Jourdan Road Terminal**



Terminal Operator: New Orleans Cold Storage (NOCS)

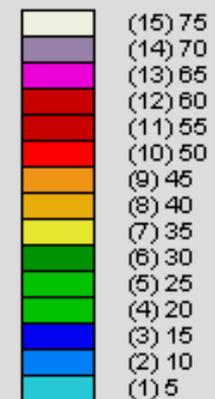
Why Relocate to the Riverfront?



BASE REFLECTIVITY
KLIX - NEW ORLEANS, LA
08/29/2005 00:02:28 GMT
LAT: 30/20/13 N
LON: 89/49/30 W
ELEV: 138.0 FT
MODE/VCP: A / 11

ELEV ANGLE: 0.50 °
MAX: 56 dBZ
RANGE 248 NM

Legend: (Category) dBZ



Why Relocate to the Riverfront?

Lake Pontchartrain



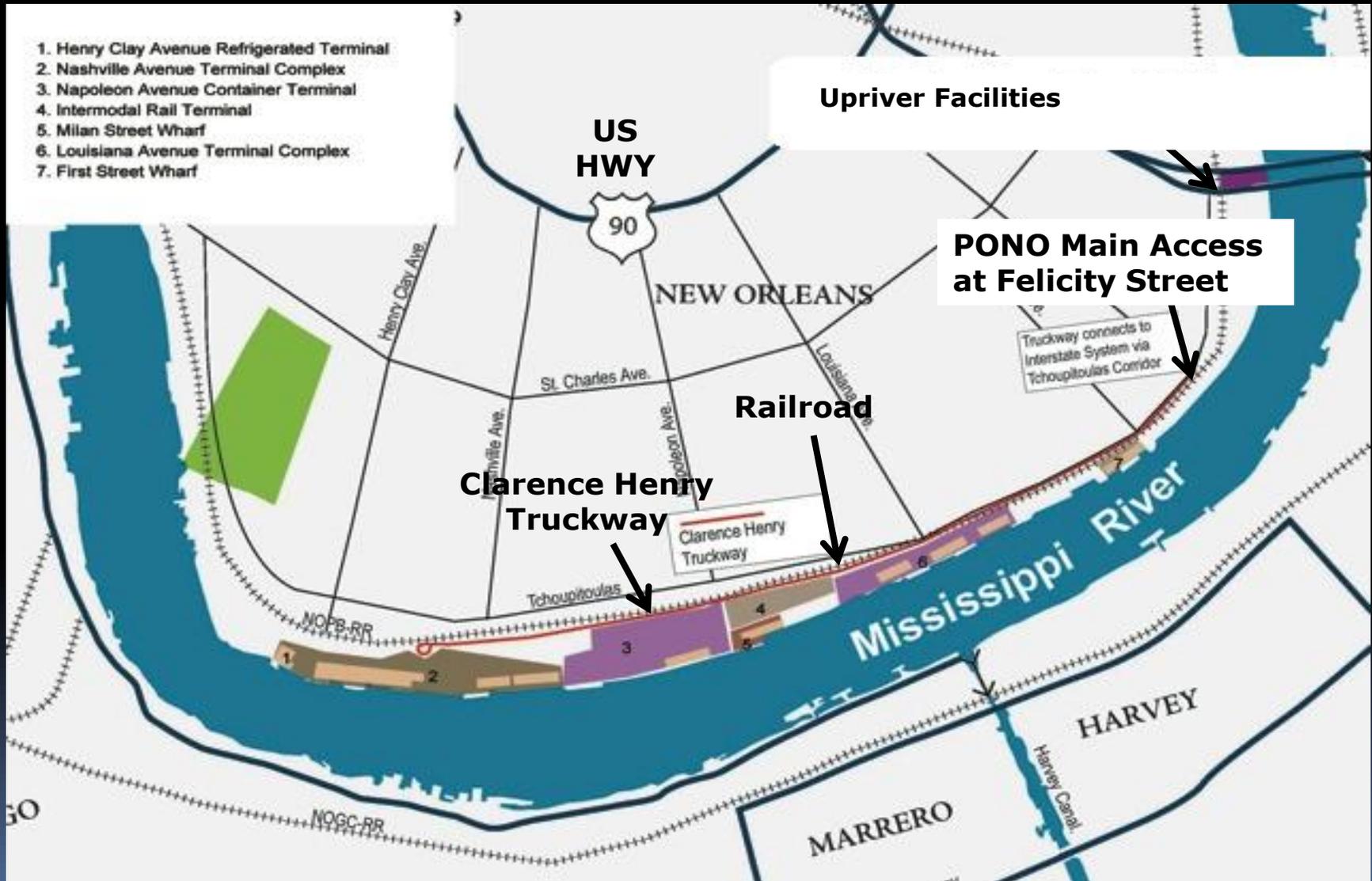
Inner Harbor Navigation (IHNC) Lock

Jourdan Road Terminal



Without the MRGO, the IHNC lock is the only passage for deep draft vessels from the Mississippi River to the JRT.

Project Intermodal Access



Short-Term Solution

Move cold storage operations to the Poland Avenue Terminal.



Long-Term Solution

Construct a new cold storage facility at Henry Clay Avenue Terminal.

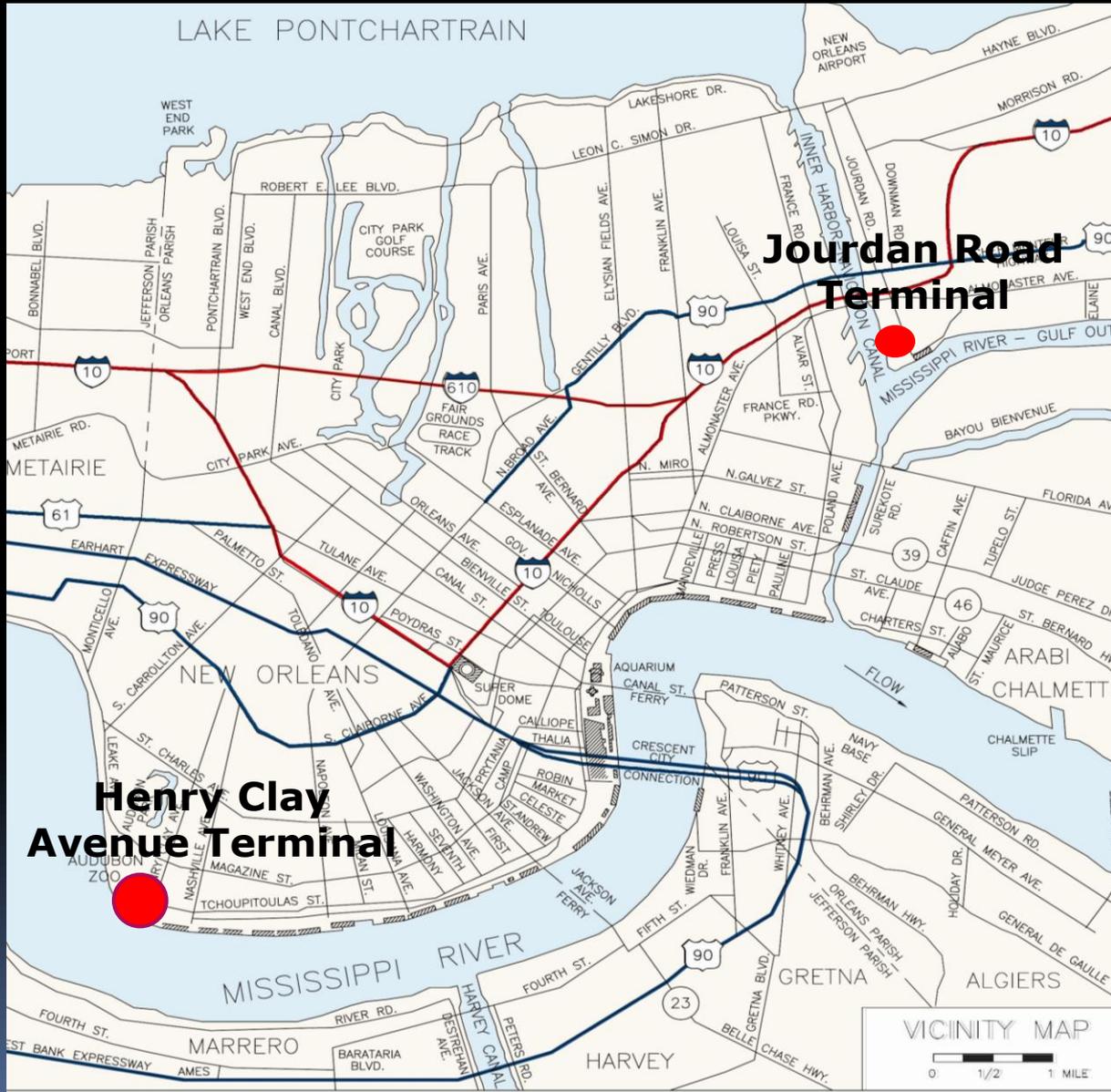


Former Henry Clay Avenue Wharf and Shed

Riverfront Cold Storage Facility First Design Build Project at the Port of New Orleans



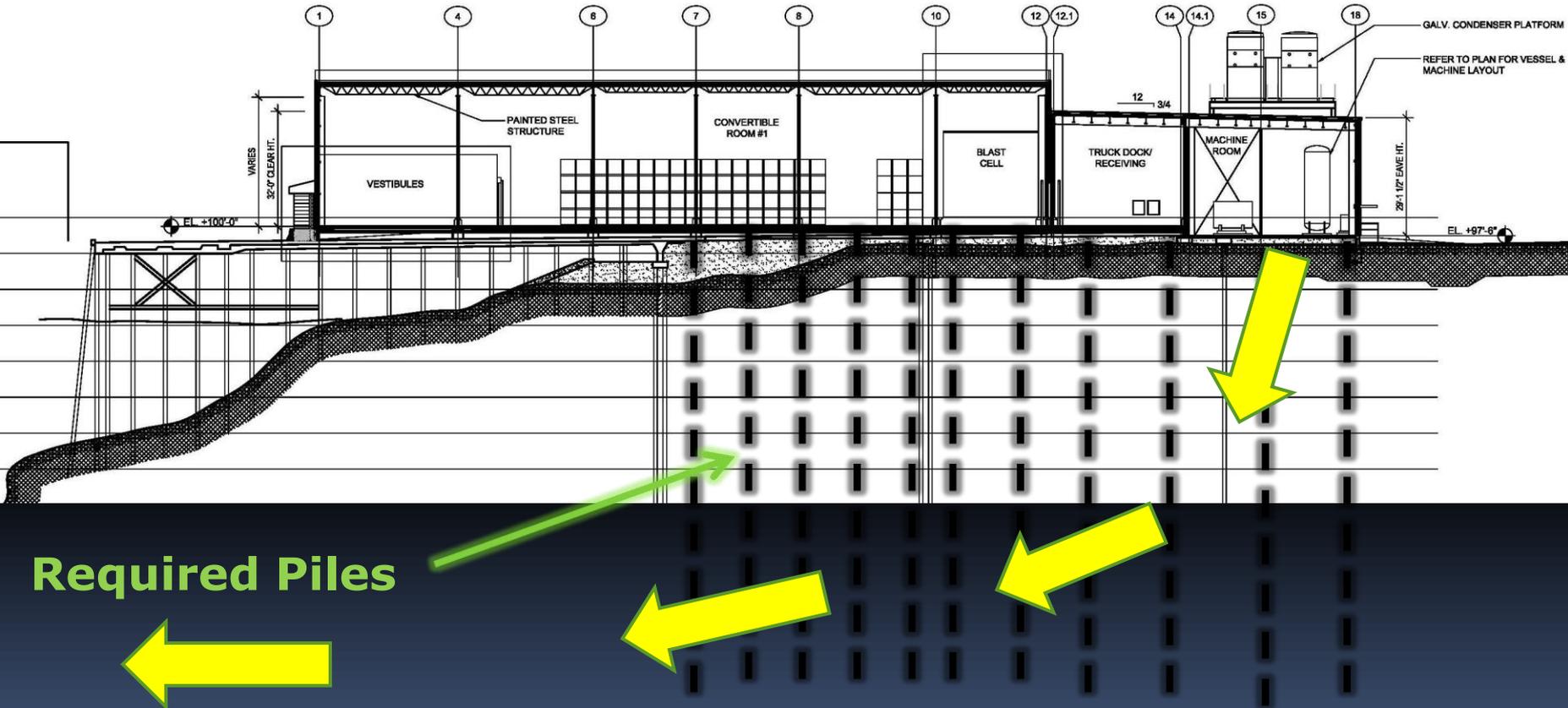
PONO Cold Storage Facilities



Site Constraints

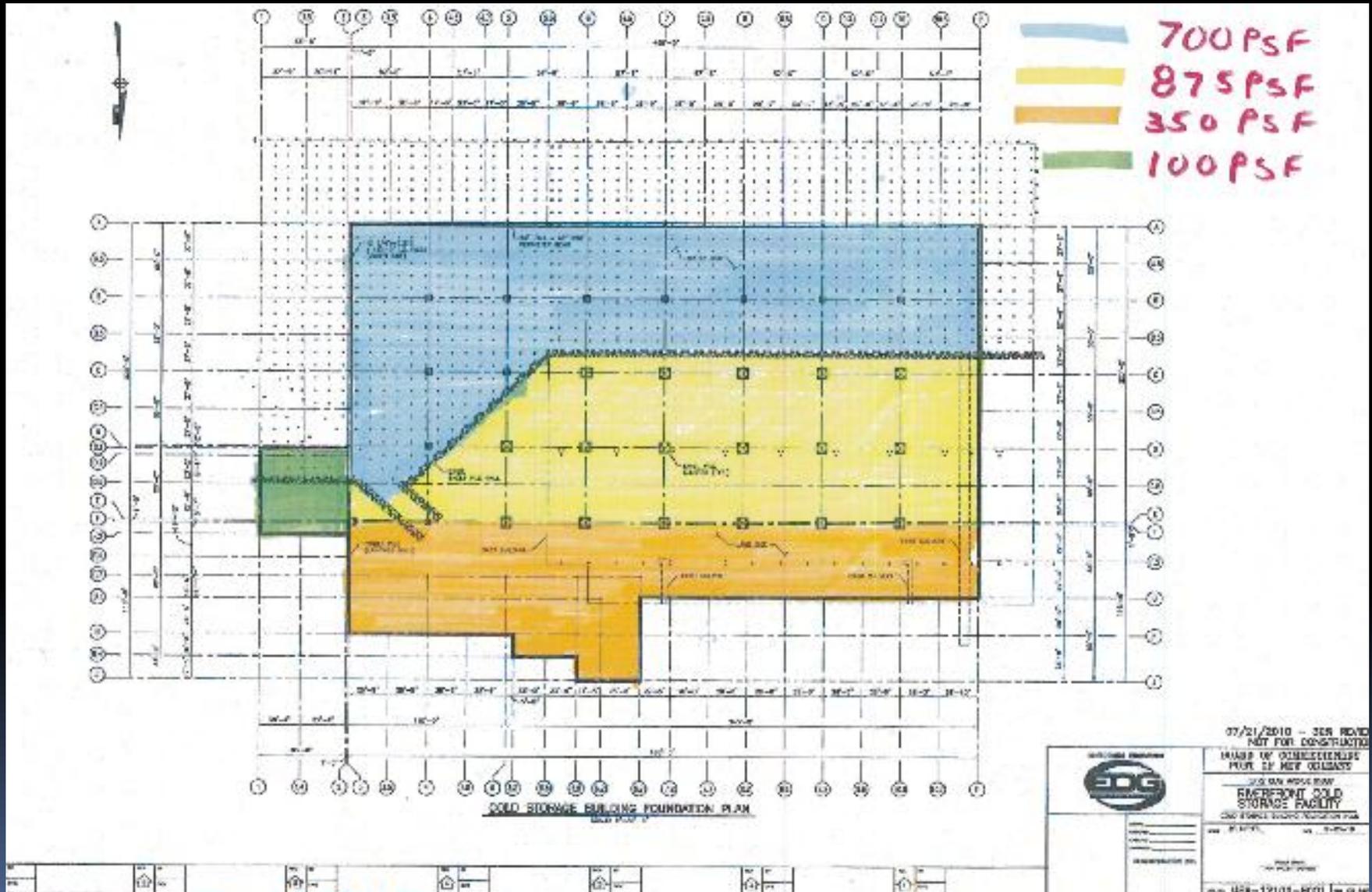
Riverside

Landside



Required Piles

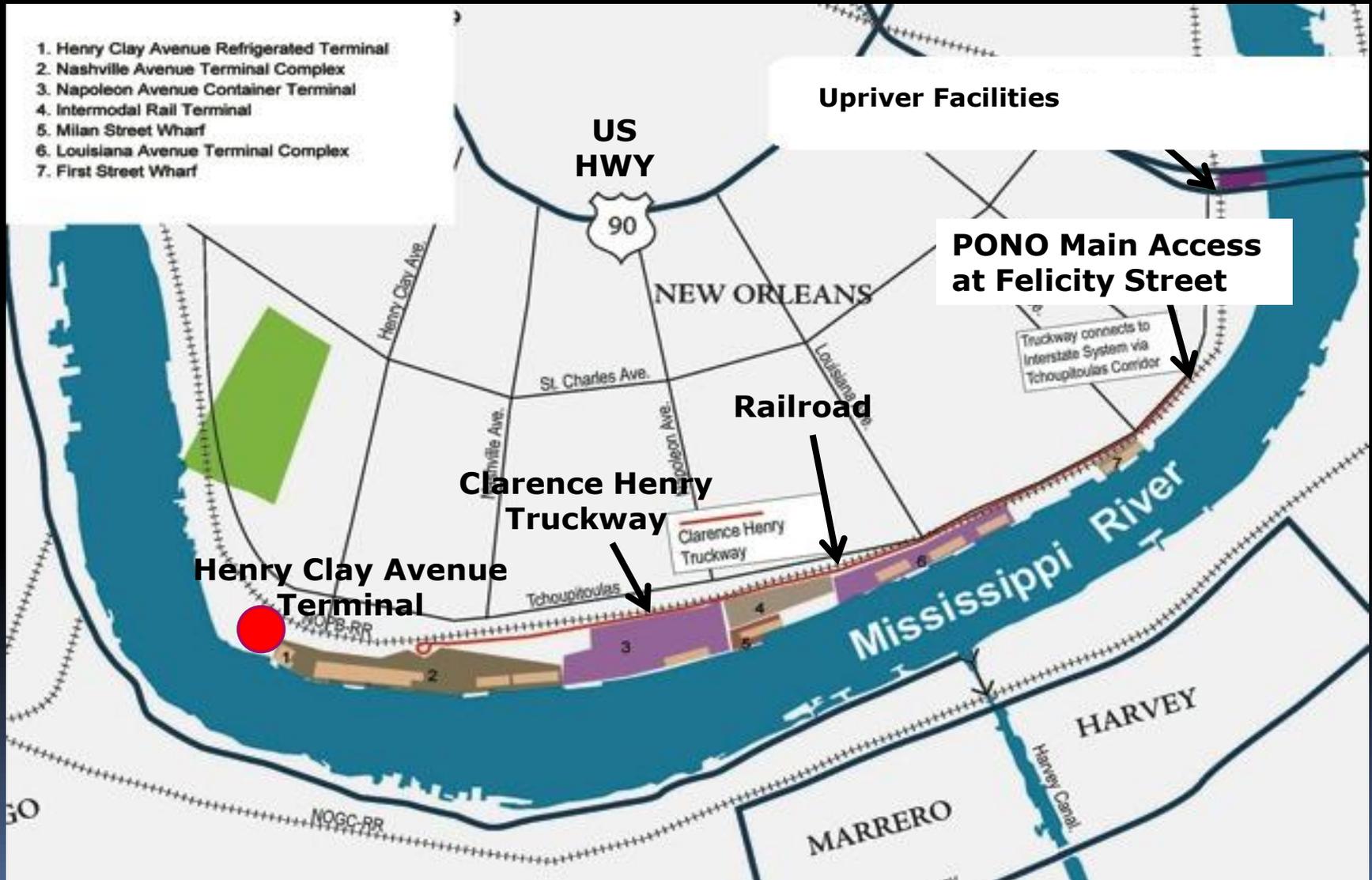
Foundation Plan



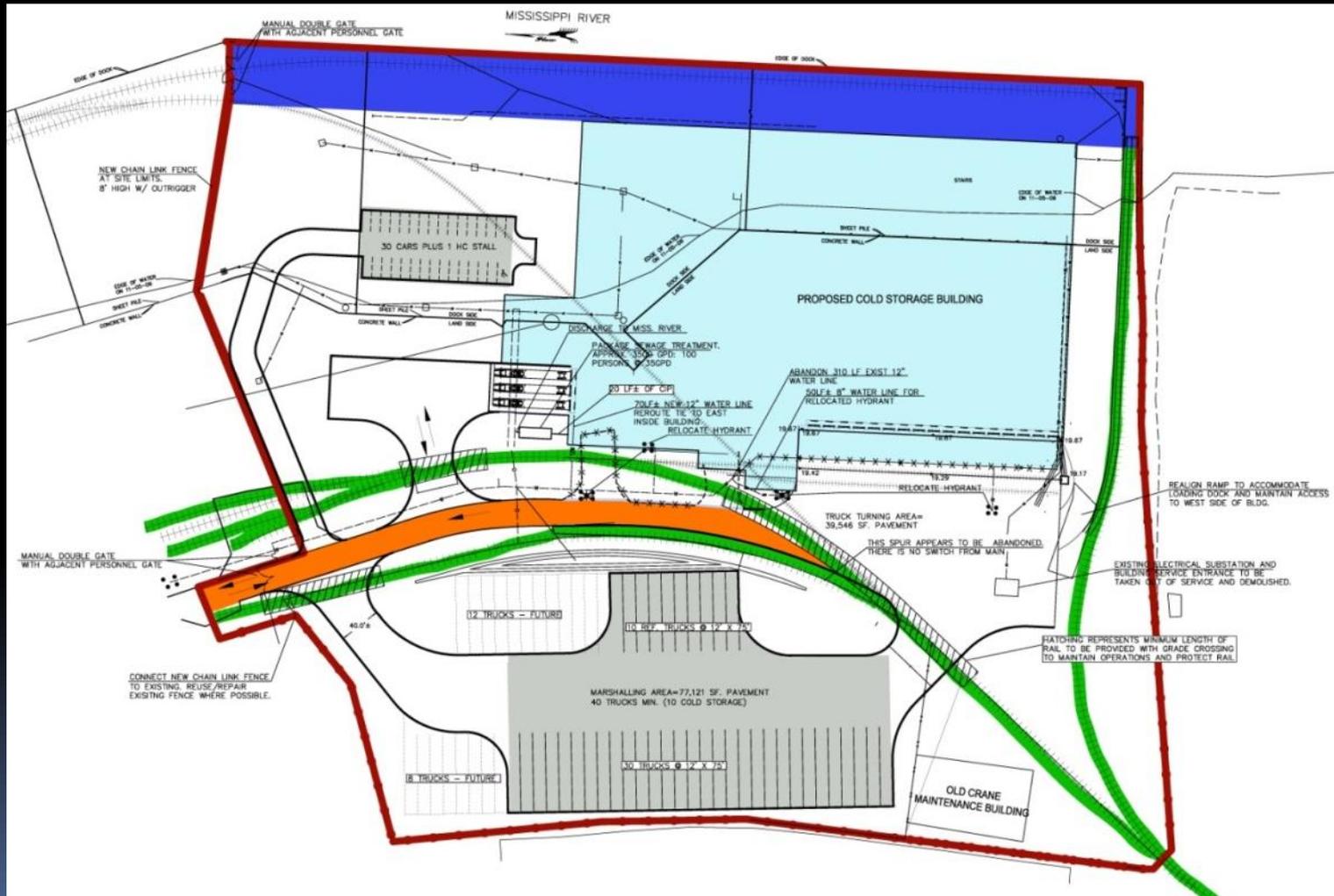
Other Challenges

- **High River Conditions – seasonal fluctuations in Mississippi River**
- **Vapor Barrier and Under Floor Heat System**
- **Blast Freezer Changes**
- **Existing Rail System – maintain active rail service running directly through the project site during construction.**

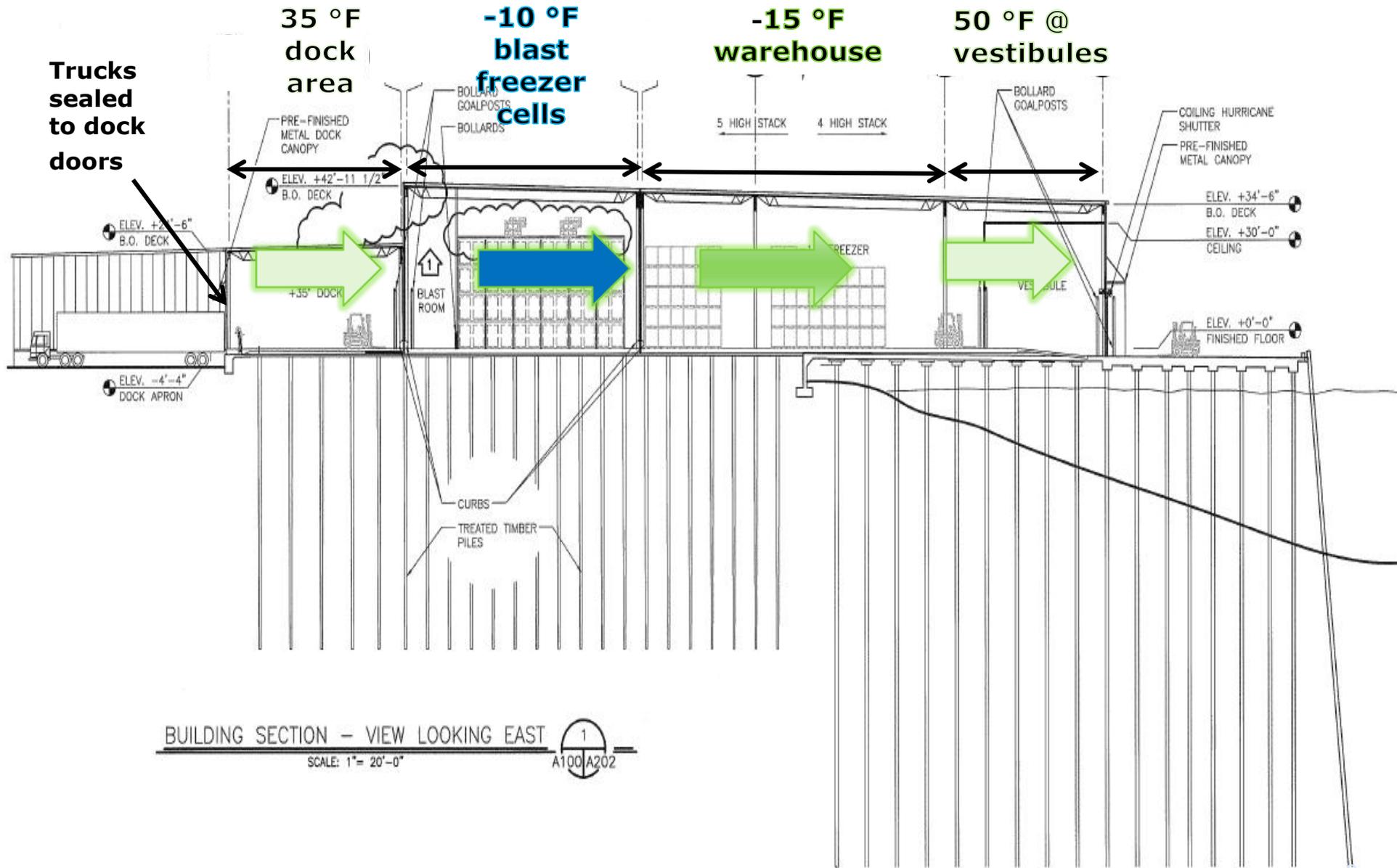
Project Intermodal Access



Site Plan



Temperature Control from Trucks to Ships



Facility Under Construction



Battery Stations and Washer



Truck Bays - Exterior



Truck Bays - Interior



Shipping and Receiving Dock



Blast Freezer Entrance



Rack Freezing System



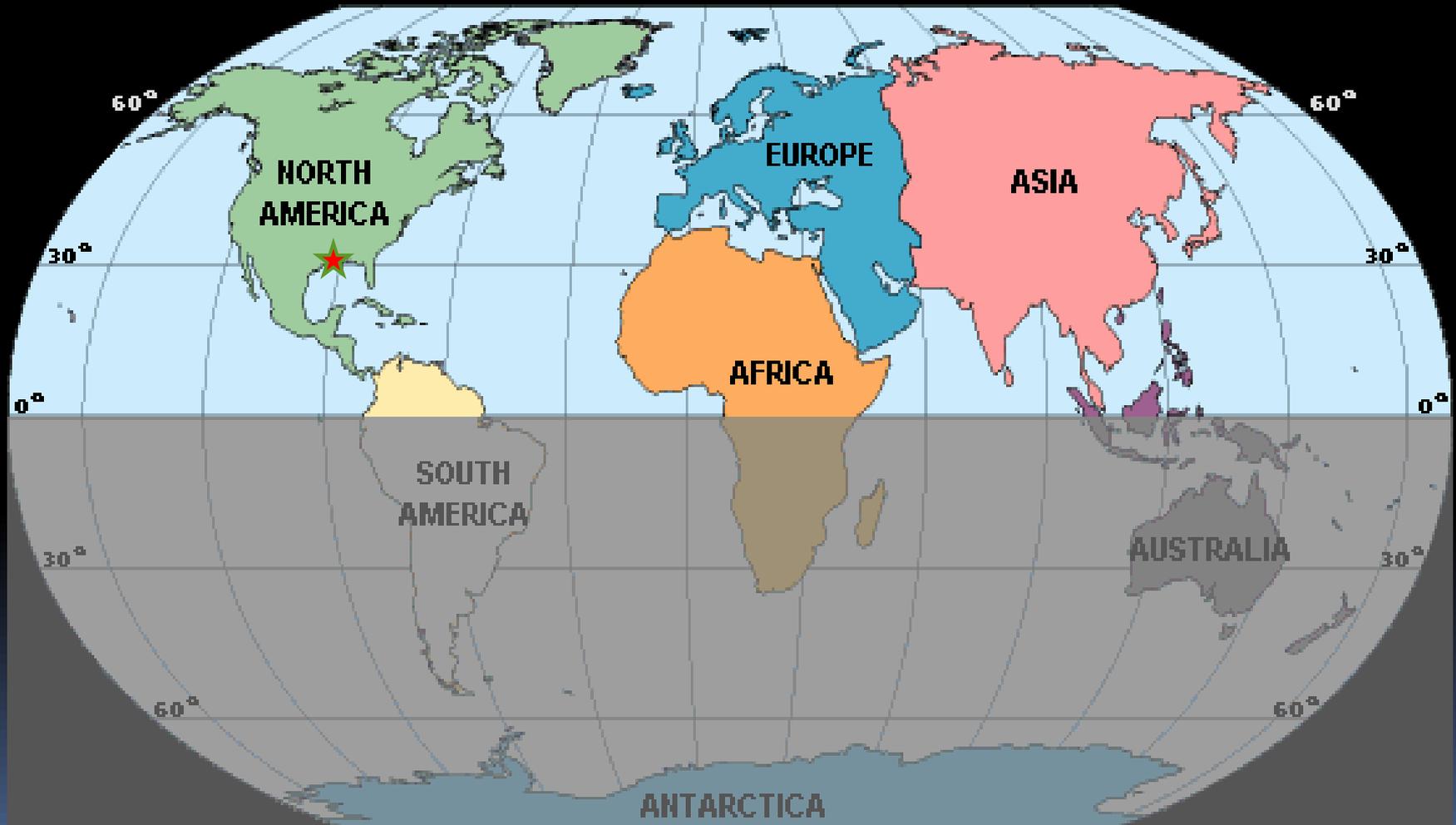
Freezer Warehouse



Freezer Warehouse



Largest Blast Freeze Operation in the Northern Hemisphere



Riverfront Cold Storage Facility



By the Numbers

142,000 SF
Building Area

296,328 SF
Wharf Area

3.5
Marshalling
Yard
Acreage

101,640 SF
Freezer

50+
Years
Useful Life

\$40.5

million

total project cost

2 years

start of design to
substantial completion
June 2010 – June 2012

Leadership In Energy and Environmental Design (LEED) Standards

Employed for energy savings and operational efficiencies including:

- **Light-emitting diodes (LED) lighting with centralized control and motion sensor systems**
- **Intricate sequence of systems that reduce energy demand such as:**
 - **Wider doors that allow trucks to open directly into the building**
 - **Air doors to reduce warm air infiltration**
 - **Dehumidifiers**

Total Project Costs at Henry Clay Site

MPJV Design-Build Contract	\$35,126,609
Design Build – Other Engineering	\$2,076,674
Shed and Foundation Demolition	\$662,465
Substructure Bracing and Revetment	\$1,345,252
Degrading Bank Line	\$972,796
Comfort Station	\$308,582
Total	\$40,492,378

Project Funding Sources

<u>Total Project Costs</u>	<u>\$40,492,378</u>
State Reimbursement (CDBG funds)	-\$23,500,000
FEMA Funding	-\$2,791,388
Site Selection Expenses	\$3,239,342
Net Project Costs to PONO	\$17,440,332

Riverfront Cold Storage Facility First Design Build Project at the Port of New Orleans

**Project Management Institute
Atlanta Chapter
2012 Project of the Year
Award**



Time-Lapsed Construction Sequence



OxBlue™

Thank you!

Questions and Comments?

