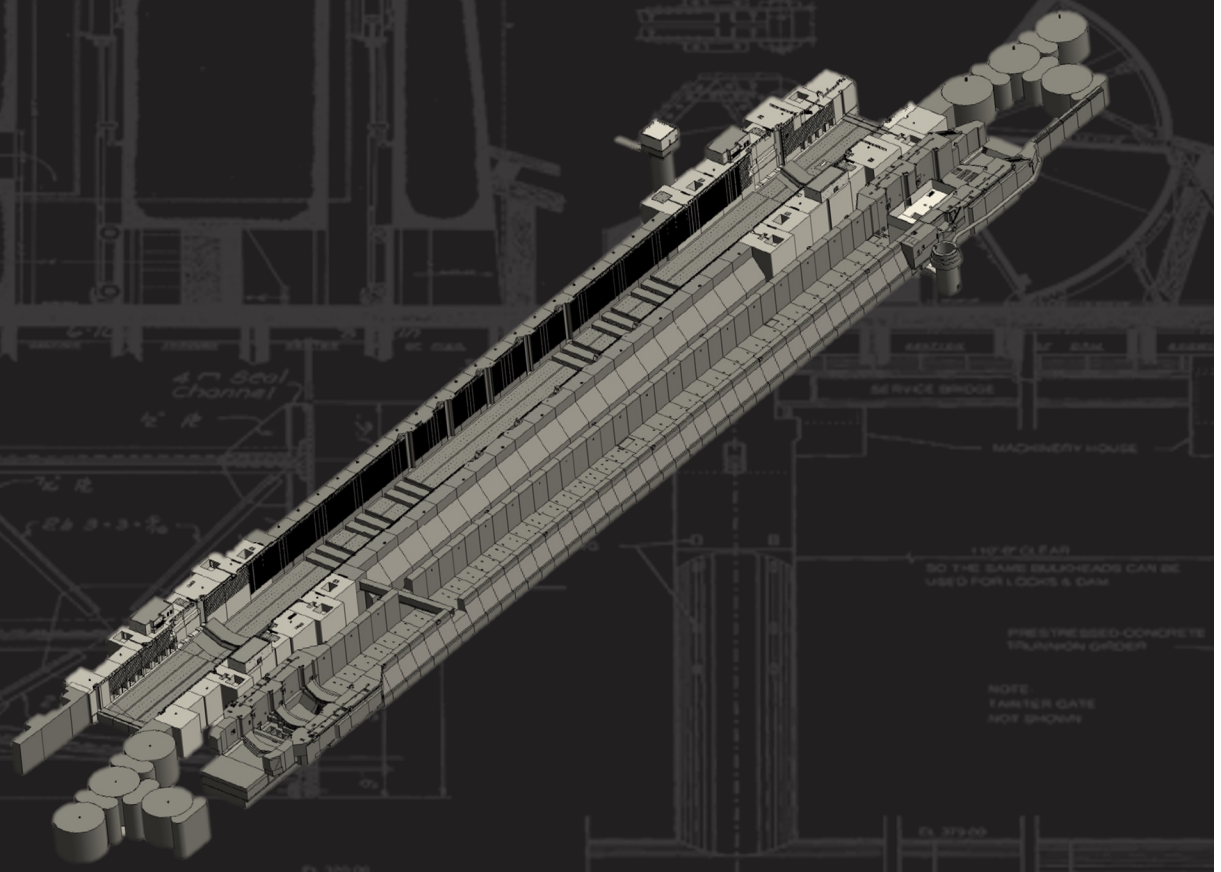
NEW LOCK AT THE SOO PROGRESS UPDATE

AMERICAN GREAT LAKES PORTS ASSOCIATION MEETING



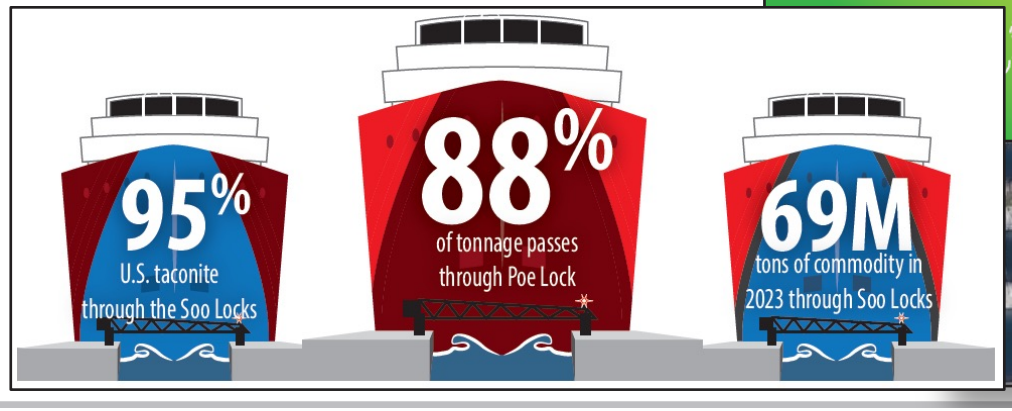
Kevin McDaniels
Deputy District Engineer
U.S. Army Corps of Engineers
Detroit District
09 Aug 2024

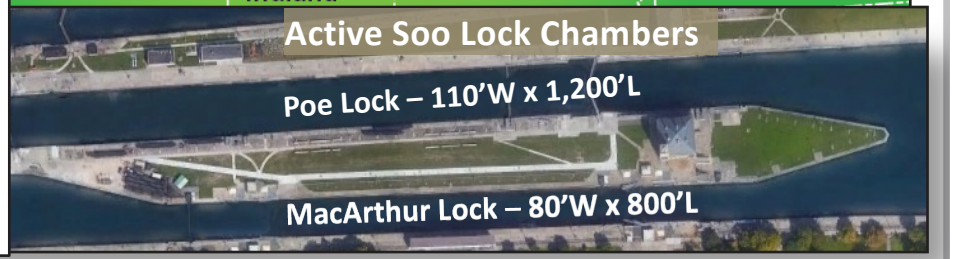
U.S. ARMY

US Army Corps of Engineers®

SOO LOCKS IMPORTANCE

- Nearly all domestically produced high strength steel is made with iron ore that transits the Poe Lock
- Within 2-6 weeks of an unscheduled Poe Lock outage, 75% of our nation's high strength steel production would cease
- Six-month unscheduled outage would result in 11 million jobs lost and $1.1 trillion economic impact





NEW LOCK AT THE SOO

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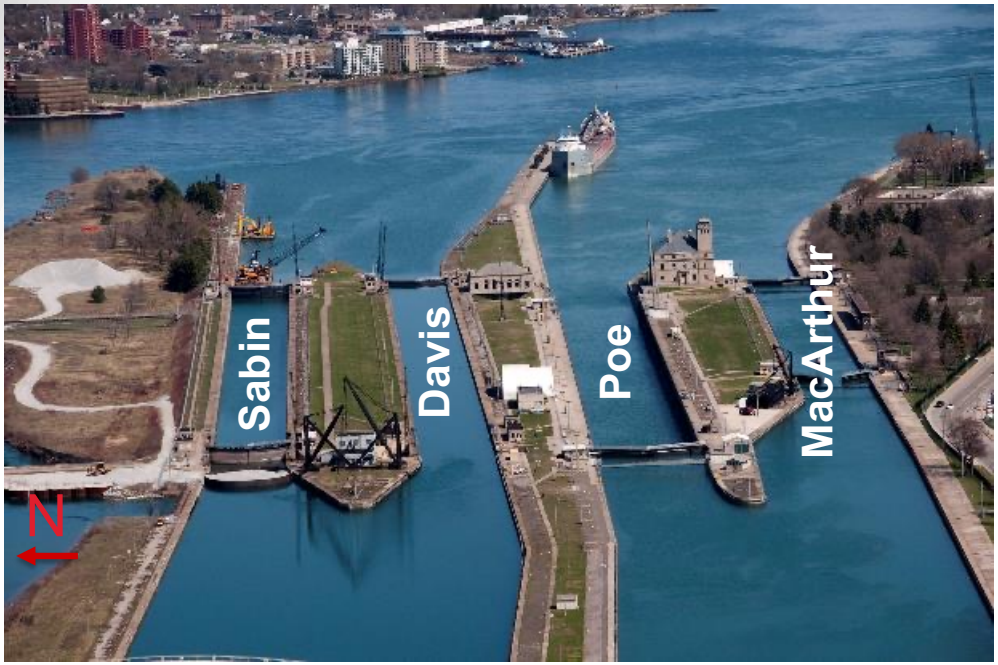
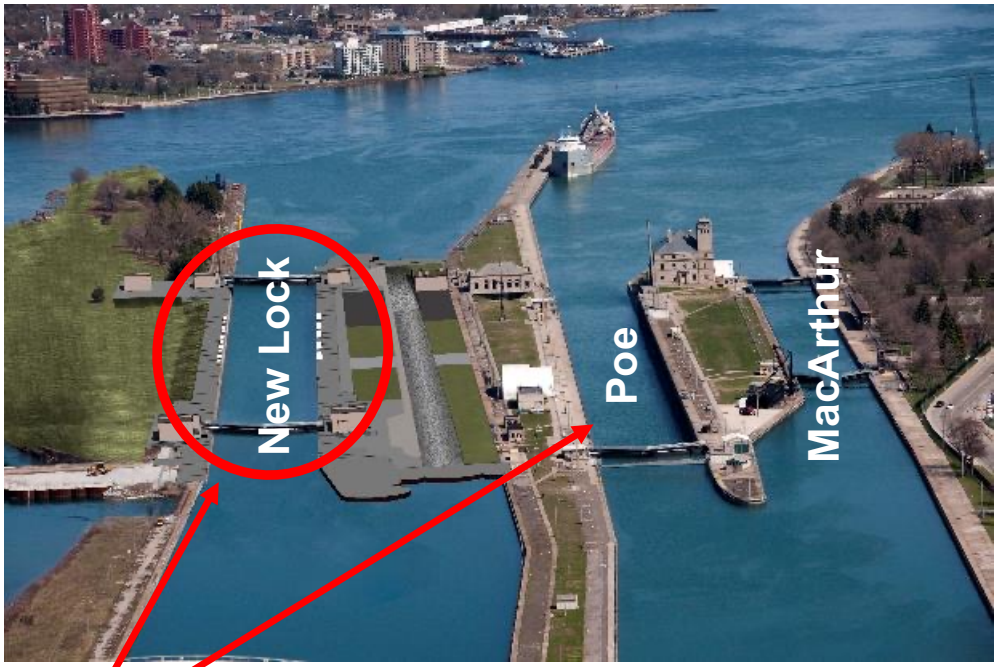


Current Facility



Future Facility

New lock will have **same dimensions** as existing Poe Lock
(1200 ft length by 110 ft width and a depth of 32 ft)

NEW LOCK AT THE SOO ALLOCATIONS & CAPABILITIES

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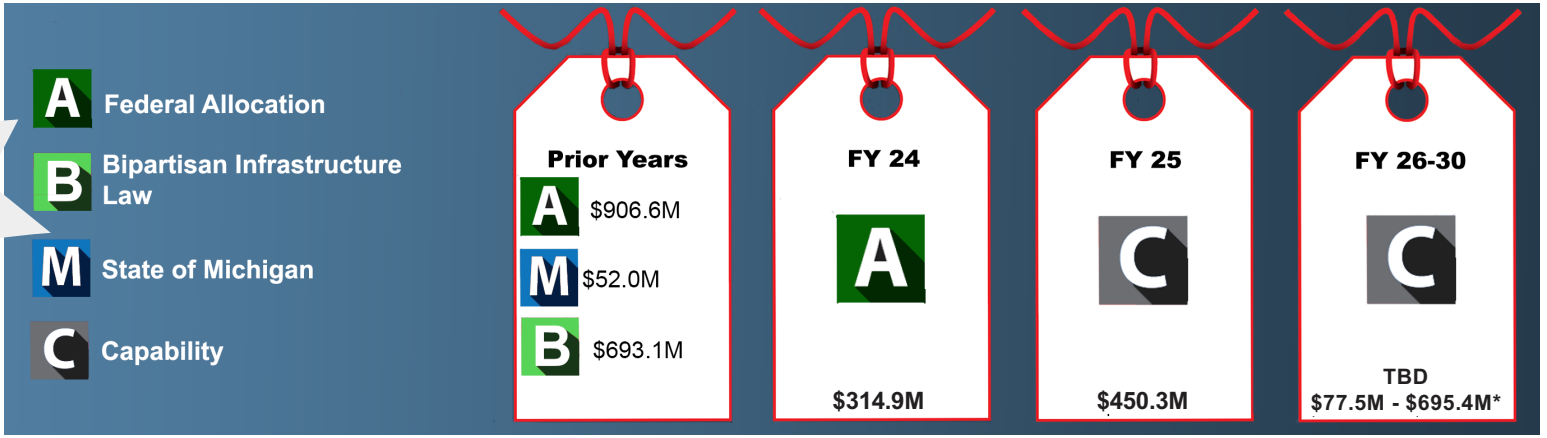
$1.967B Allocated to Date

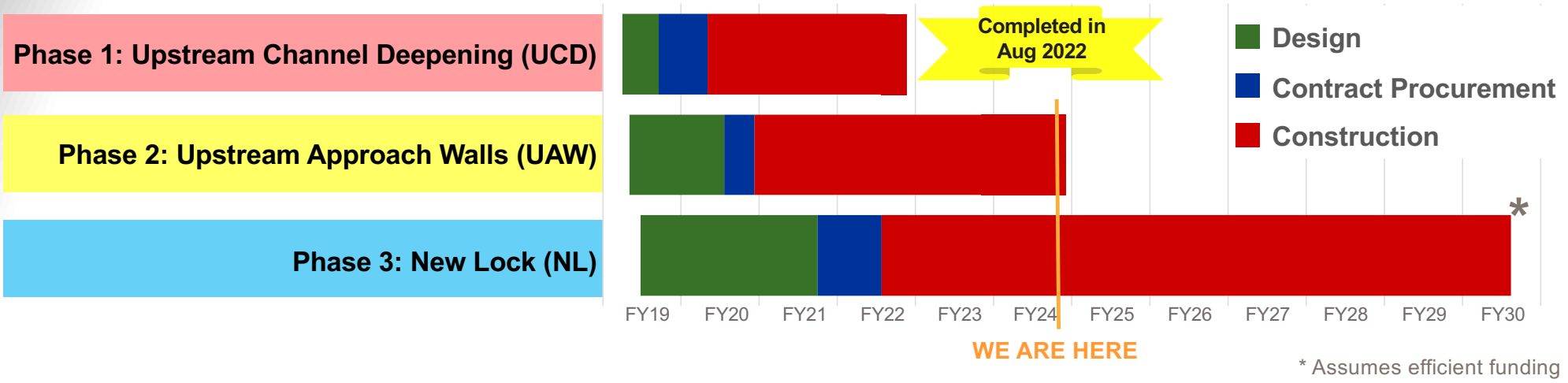


* Based on Authorized Project Cost of $3.219B and includes a management reserve of $617.9M that is not currently planned to be requested but could be requested for currently unknown contractual needs.

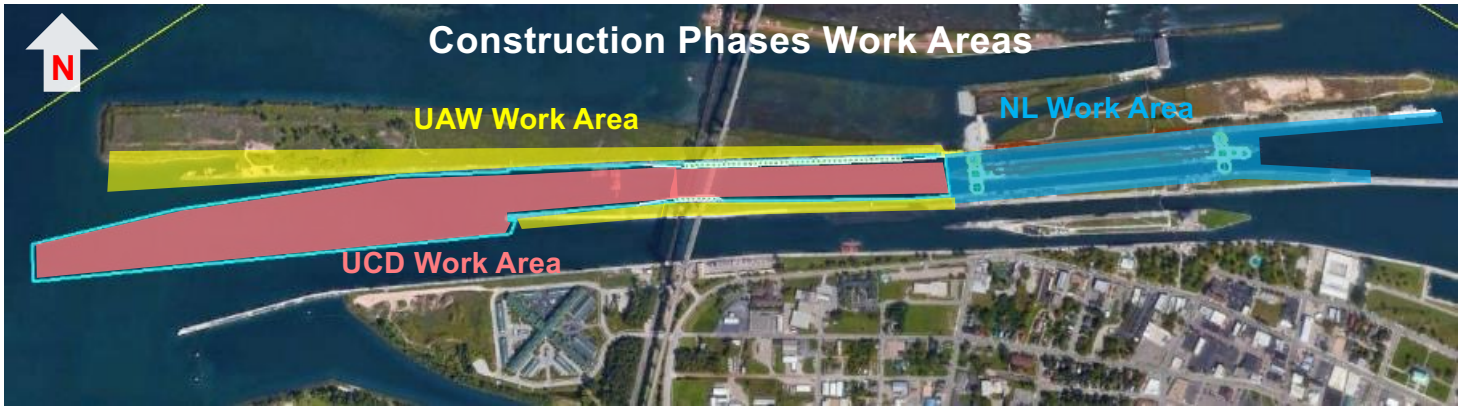
Activities		FY25 Capability		FY 26 Capability
		FY25 Pbud	FY25 Remaining	
Supervision and Administration (Labor)		$11.0M		$11.0M
Phase III - Option 3, "Lock Operational"	Pricing Expires SEP 2024	$253.1M	$7.3M	
Phase III - Option 4, "Downstream Work"	Pricing Expires SEP 2025		$49.4M	
Phase III - Option 5, "Hands Free Mooring"	Pricing Expires SEP 2025		$26.6M	
Phase III - Option 6, "Downstream Ship Arrestors"	Pricing Expires SEP 2025		$28.8M	
Remaining Upper Approach Wall Work			$74.1M	$22.5M
	TOTAL	**$264.1M**	**$186.2M**	**$33.5M**

(AS OF 23 JUL 2024)

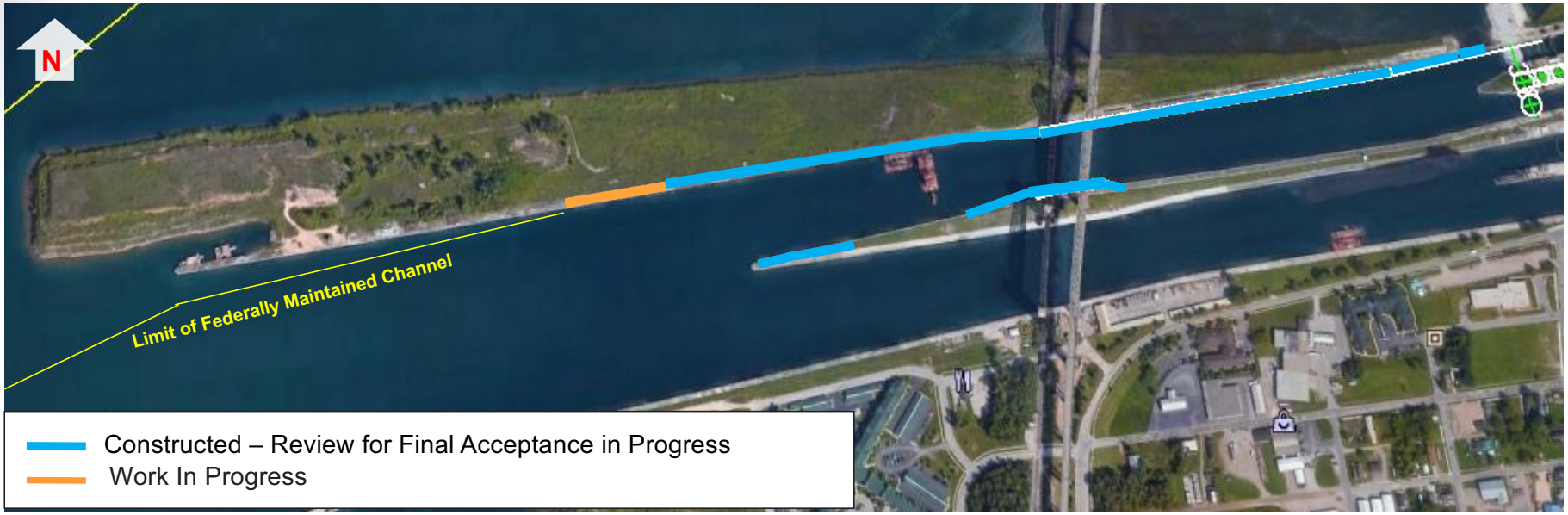
NEW LOCK AT THE SOO CONSTRUCTION STATUS



* Assumes efficient funding



PHASE 2: UPSTREAM APPROACH WALLS UPDATE



Scope: Rehabilitate approach walls upstream of new lock including reconstruction/refacing existing 100-year-old walls, installation of new lighting, bollards, and concrete cap repairs.

Construction Status:

- $117M Contract awarded in September 2020 to Kokosing-Alberici
- Contractor is generally working from East to West and has completed 95% of the required contract work.

Estimated Completion: Summer 2024

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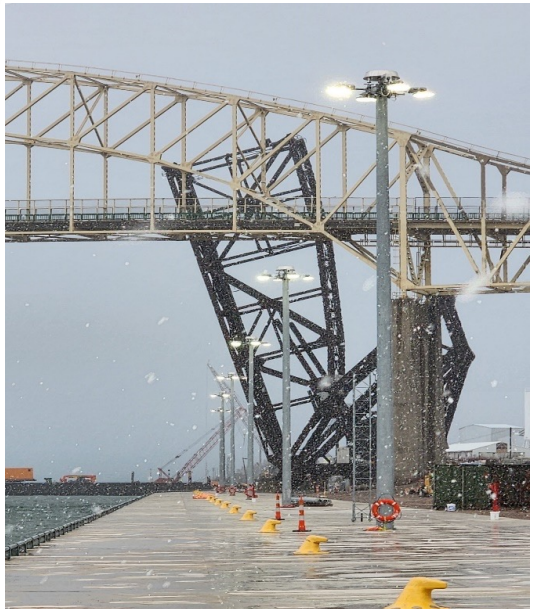
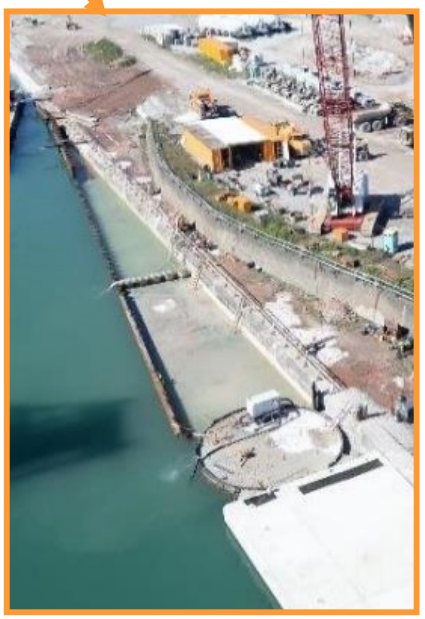
PHASE 2: UPSTREAM APPROACH WALLS PROGRESS

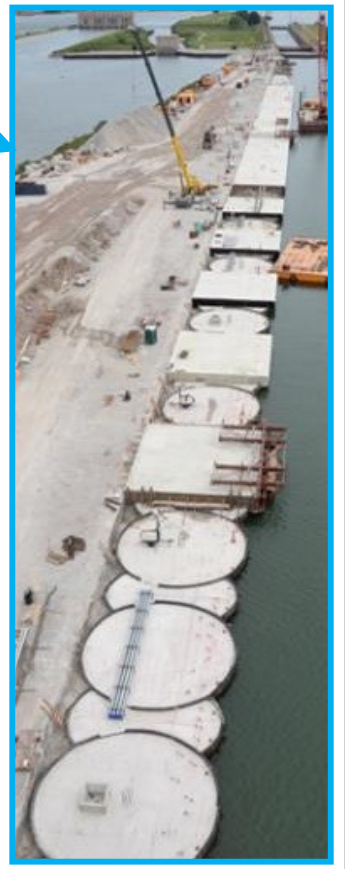


New guard rail, mooring bollards, and LED high mast light poles

SSP Face Wall:
Placement of steel sheet piles



SSP Transition Wall: Tremie concrete placement behind SSP wall face



Circular SSP Walls:
34' dia. SSP Cells with cap placement in progress

PHASE 2: UPSTREAM APPROACH WALLS PROGRESS

Dead men tie back and mooring bollard foundation installation

Concrete panels

H-Pile, concrete panel, waler, and tie rod

Placement of tremie concrete behind concrete panels

PHASE 3: NEW LOCK

Scope: Construct new 1,200’ long by 110’ wide by 32’ deep chamber, New Pump Well, and New Power Plant Bridge, and rehabilitate downstream approach walls.

Construction Status:

- Contract awarded in July 2022 to Kokosing Alberici Traylor, LLC
- Current contract award valued at $1.556B (83% of total contract cost)
  - $366M of work completed through end of June 2024
- 2024 focus:
  - Dewatering of Construction Site
  - Electrical Work
  - Demolition of Sabin Lock
  - Filling of Davis Lock Chamber
  - Bridge construction
  - Bedrock Excavation
  - Mass Concrete Placement

Estimated Completion: Summer 2030

PHASE 3: NEW LOCK CONTRACT BASE & OPTIONS

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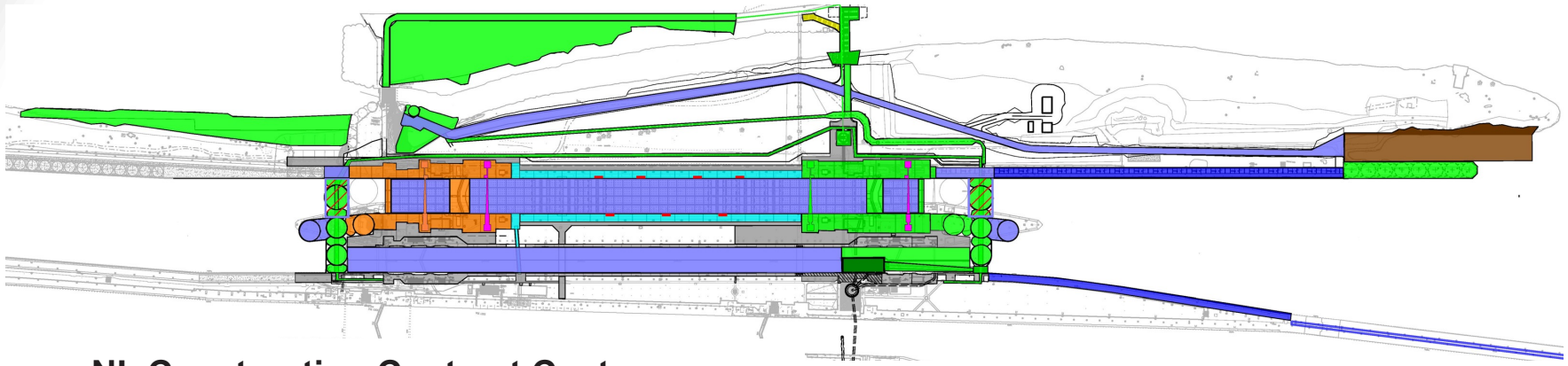
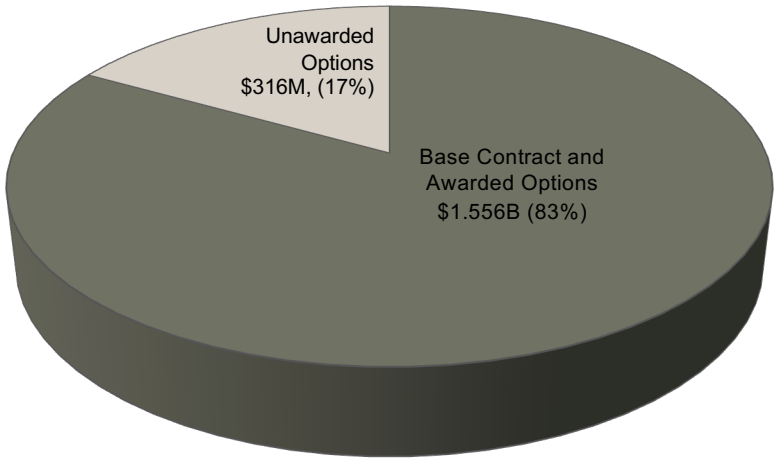


NL Construction Contract Cost

Total contract valued at $1.872B

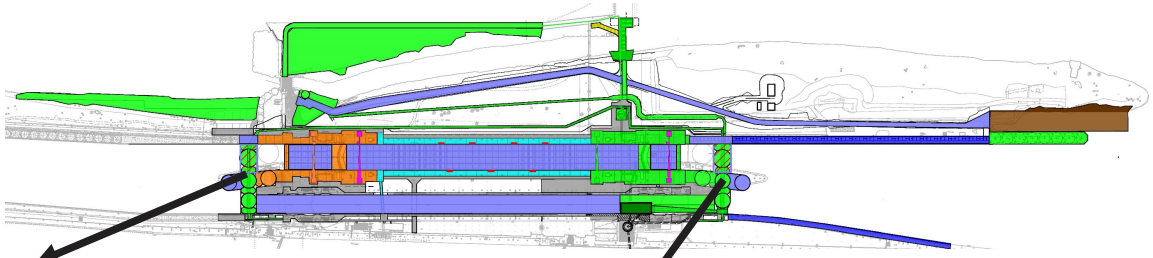


New Lock (Ph. 3) Base and Options Detail Legend

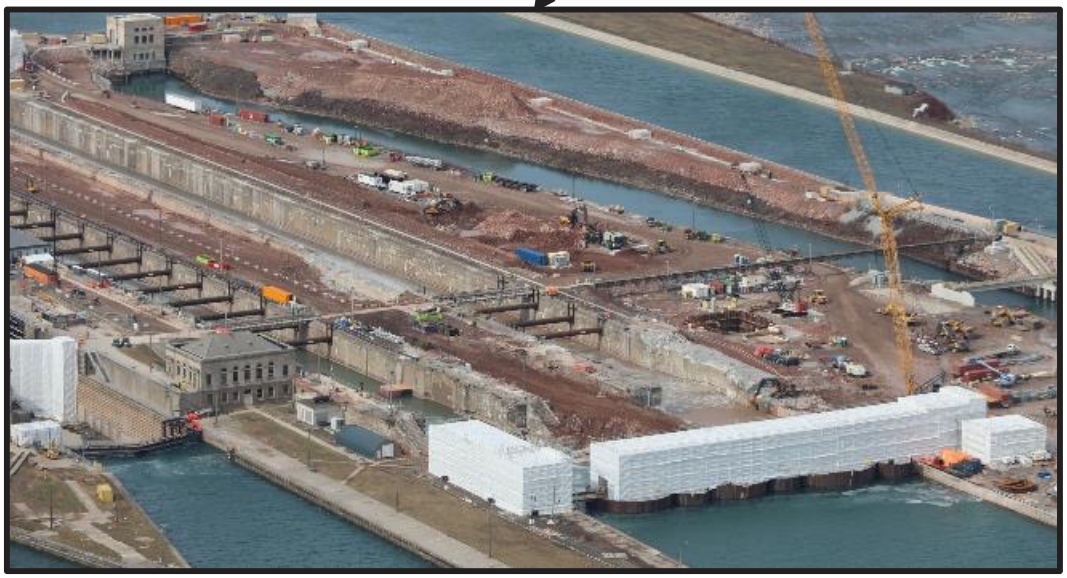
- BASE BID - AWARDED
- OPTION 1A UPSTREAM WIDE WALL MONOLITHS - AWARDED
- OPTION 1C NPP BRIDGE RAMP - AWARDED
- OPTION 2 NEW PUMP WELL COMPLETION - AWARDED
- OPTION 7 ALLIGATOR'S MOUTH MOORING AREA - AWARDED
- OPTION 1B CHAMBER WALL MONOLITHS - AWARDED
- OPTION 3 LOCK OPERATIONAL — Pricing Expires Sep 2024
- OPTION 4 DOWNSTREAM WORK — Pricing Expires Sep 2025
- OPTION 5 HANDS FREE MOORING — Pricing Expires Sep 2025
- OPTION 6 DOWNSTREAM SHIP ARRESTORS — Pricing Expires Sep 2025

PHASE 3: NEW LOCK PROGRESS

2024 WINTER WORK OPERATIONS



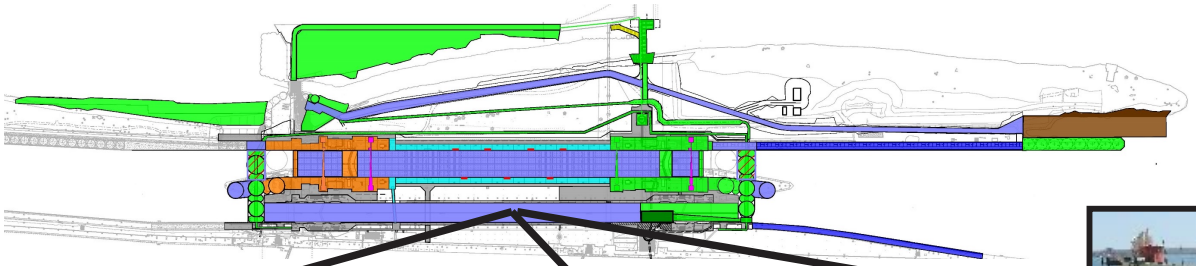
Upstream Cofferdam with Scaffolding Enclosure



Downstream Cofferdam with Scaffolding Enclosure

PHASE 3: NEW LOCK

DEWATERING OF CONSTRUCTION SITE



New Lock construction site dewatering pump initiation ceremony (15 May 2024)

Davis Lock chamber five days into dewatering process

Hydraulic pump used to dewater construction site on barge in Davis Lock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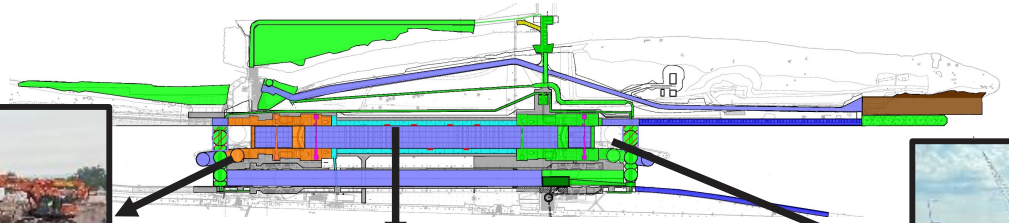
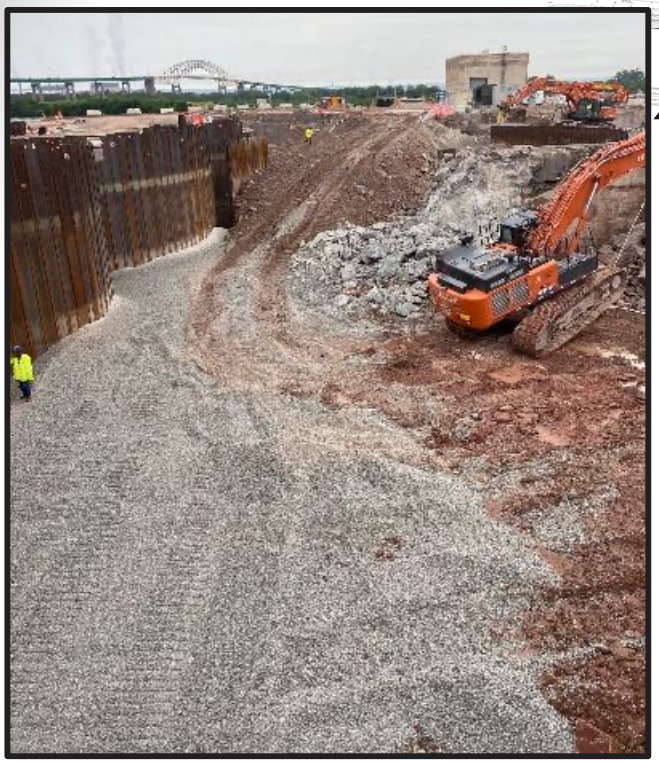
PHASE 3: NEW LOCK

ESTABLISHING ACCESS TO SABIN AND DAVIS FLOORS





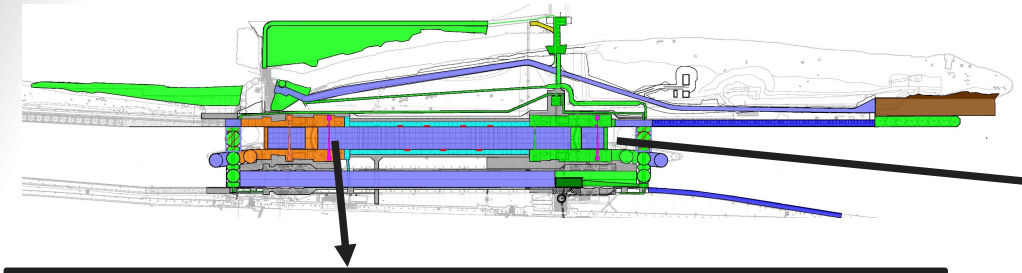
Ramp on East side of upstream cofferdam from the top of the lock wall to the lock floor

Ramp through North Sabin Lock wall to Sabin Lock floor

USACE inspection of the Downstream Cofferdam

PHASE 3: NEW LOCK

DEMOLITION OF SABIN LOCK CHAMBER

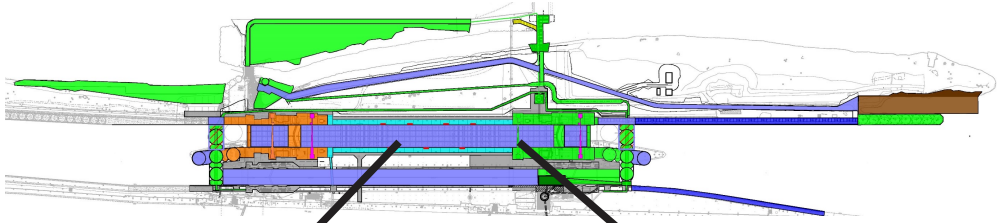


Demo of Sabin Lock Gate Leaf

Exposure of century old Sabin Lock timber cribbing

PHASE 3: NEW LOCK

DEMOLITION OF SABIN LOCK CHAMBER



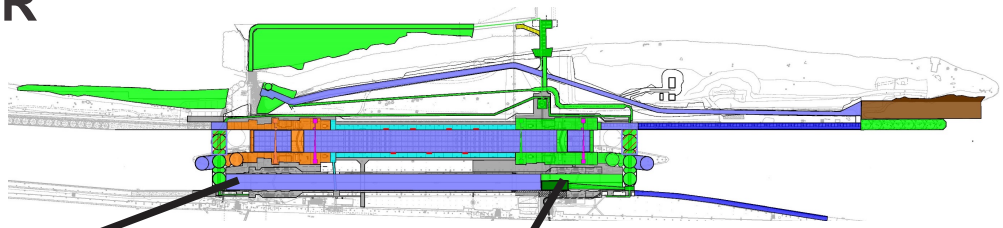
Middle of the Sabin Lock Chamber

Downstream end the Sabin Lock Chamber

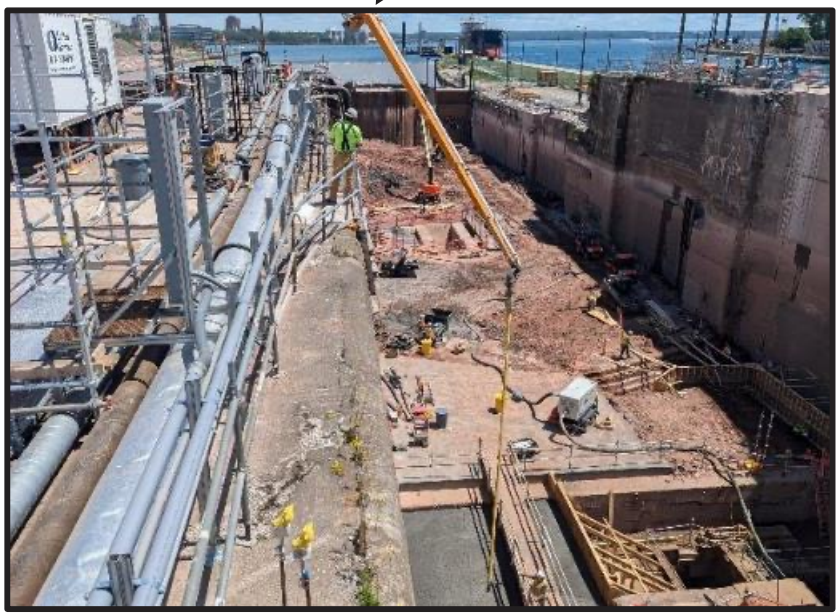

HITACHI
HITACHI

PHASE 3: NEW LOCK

FILLING OF DAVIS LOCK CHAMBER



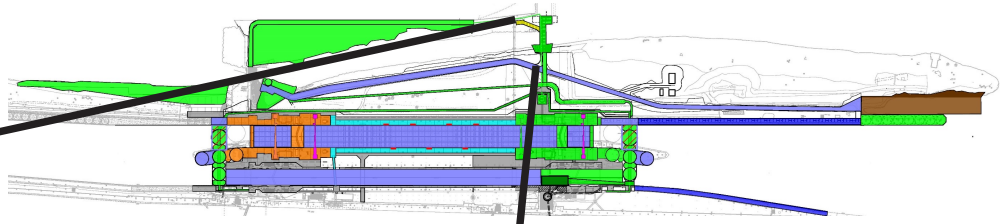
Placement of fill material in Davis Lock

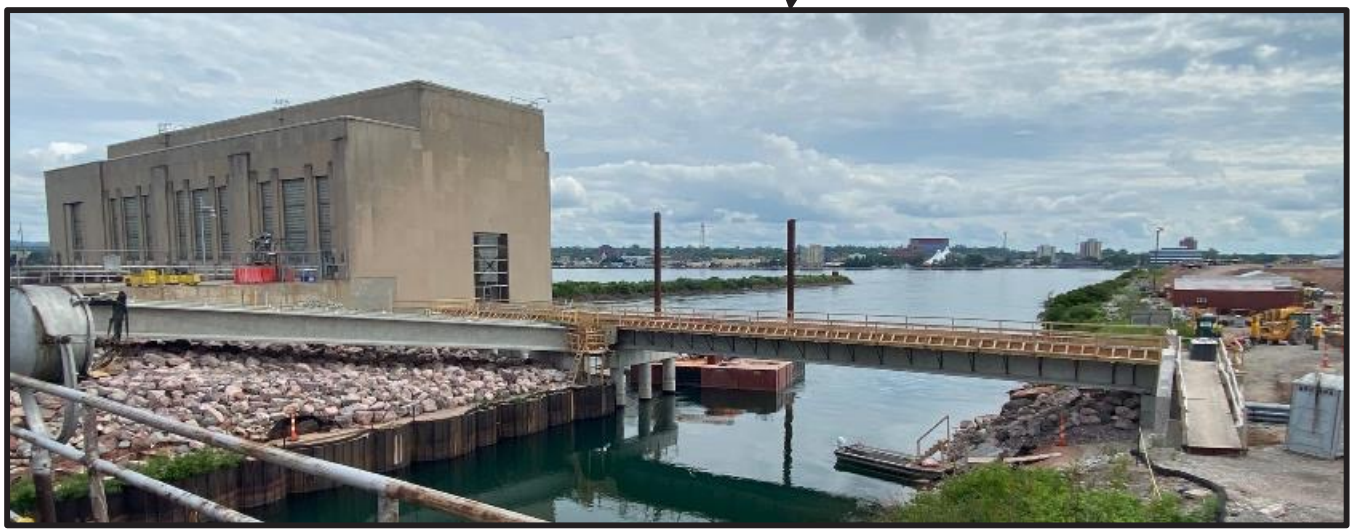


Concrete placement to fill voids in floor of Davis Lock in support of the New Pump Well construction in the Davis Lock

PHASE 3: NEW LOCK
BRIDGE CONSTRUCTION

Connection of new bridge to landing at hydropower plant





New bridge to the hydropower plant

PHASE 3: NEW LOCK
BEDROCK EXCAVATION

Trencor rock trencher to be used for bedrock excavation

Wirtgen milling machine to be used for bedrock excavation

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PHASE 3: NEW LOCK
MASS CONCRETE PLACEMENT

Expanded concrete batch plant

Mass concrete test section

RECENT ENGAGEMENTS AND UPCOMING DATES

Recent Engagements and Dates of Importance:

- St. Lawrence Seaway visit, APR 2024
- Detroit SAME New Lock tour, MAY 2024
- First Lady Dr. Jill Biden and Second Gentleman Mr. Douglas Emhoff Soo Locks site visit, MAY 2024
- International Joint Commission Commissioners site visit, JUL 2024
- Senator Peters site visit, AUG 2024

First Lady Dr. Jill Biden and Second Gentleman Mr. Douglas Emhoff Soo Locks site visit, MAY 2024

Upcoming Engagements and Dates of Importance:

- Phase 2 Contract Completion, Summer 2024

Michigan-based Science YouTuber Alexis Dahl Soo Locks and New Lock interviews (New Lock starts at about 14 minutes), video at: https://www.youtube.com/watch?v=t2XprPx63_A

QUESTIONS