“The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”
Agenda

• Project Management (Kristina Schnettler)
  • Project Overview
  • Schedule/Timeline
  • Funding

• Technical (Tim Smith)
  • Protection of Existing Structures
  • Placement Site, Maximum Particle Size

• Construction (Joanne Gray)
  • Soo Locks Site Logistics

• Contracting (Rob Austin)
  • Major Contract Characteristics
  • Definitive Response Criteria

• Questions?
NEW SOO LOCK CONSTRUCTION PHASES

Completed Work:
- Downstream Deepening
- Sabin Lock Cofferdams

Remaining Work:
1. Upstream Channel Deepening
   - Fully Funded
2. Upstream Approach Walls
   - Design Fully Funded
3. New Lock Chamber
   - Design Partially Funded

Note: projects are listed in order in which work is to be performed
NEW SOO LOCK DESIGN AND CONSTRUCTION SCHEDULE (with Efficient Funding)

- **Upstream Channel Deepening**
  - FY19: Design, Contract Procurement
  - FY20-FY22: Construction

- **Upstream Approach Walls**
  - FY19: Design
  - FY20-FY23: Contract Procurement
  - FY24-FY28: Construction

- **New Lock Chamber**
  - FY29: Early completion

* Early completion could be realized with efficient funding and favorable weather conditions
*$75.3 has been identified in the FY20 President's Budget request. This funding has not yet been received.

*$14.4M in remaining capabilities for FY20

*$15.3M of State of Michigan funds remaining
NEW SOO LOCK UPSTREAM APPROACH WALLS

- Circular SSP Cells
- SSP Wall

Status: Design Fully Funded, Construction Not Funded
Scope: Rehabilitate approach walls upstream of the New Soo Lock by installing circular SSP Cells, a SSP wall face, and replace concrete cap.
Estimated Performance Period: 24 Months
NEW SOO LOCK CHAMBER

Status: Design Partially Funded, Construction Not Funded
Scope: Construct new 1,200 ft long, 110 ft wide, 32 ft deep lock chamber, including required cofferdams. Rehabilitate downstream approach walls.
Estimated Performance Period: 5-8 Years
NEW SOO LOCK UPSTREAM CHANNEL DEEPENING

Advertisement: July 2019
Award: Sep 2019

Scope
- Channel to be deepened to -30’ LWD+ 1’ Allowable Overdepth
- 206,000 CY bedrock removal
- 106,000 CY overburden removal
- Contractor to determine method of bedrock fracturing & removal
PROTECTION OF EXISTING STRUCTURES

• WOOD CRIBBING
• CONCRETE MONOLITH
• SHEET PILE CELLS
• RAILROAD CROSSING
• DOWNSTREAM STRUCTURES
Jacobsville Sandstone removed during downstream channel deepening.

EXISTING CANAL WALL
WOOD CRIB
Jacobsville Sandstone removed during downstream channel deepening

EXISTING CANAL WALL
WOOD CRIB

ROCK FILLED WOOD CRIB FOUNDED ON BED ROCK

SCALE 1" = 1'
EXISTING CANAL WALL
CONCRETE MONOLITH
EXISTING CANAL WALL SHEET PILE CELLS

Jacobsville Sandstone removed during downstream channel deepening.
CONDITIONS AT RAIL ROAD CROSSING
PROTECTION OF DOWNSTREAM STRUCTURES & ENVIRONMENT

- Stone-Protection of Structures
- Stone-Protection of Fish from Turbidity
PLACEMENT SITE

- Maximum particle size: 6"
- Load Restrictions @ Transfer Site
- Access Road & Detention Ditch
- At Grade Railroad Crossing
NEW SOO LOCK UPSTREAM CHANNEL DEEPENING

Jacobsville Sandstone removed during downstream channel deepening.
Jacobsville Sandstone removed during downstream channel deepening
REQUIRED DEEPENING EXTENTS FOR 1ST CONSTRUCTION SEASON (2020)

REQUIRED DEEPENING EXTENTS FOR 1ST CONSTRUCTION SEASON, 2020
(EAST OF STA 25+00 BY 15 OCT 2020)
NEW TEMPORARY RESIDENT OFFICE

- General Scope: Contractor to provide a modular office to house USACE employees while a new Resident Office is constructed by the contractor.
- The building shall include all utility hookups (water, sewer, and electric) and be fully furnished as well as conditioned.
- Approximately 6,500 SQFT (~52’ x ~124’)
- Must have modular office installed by 30 November 2019
- Required office completion date of 30 September 2020
SOO LOCKS SITE LOGISTICS

- Parking
- Transportation
- Housing
- Shipping and Receiving
- Offsite storage
New Soo Lock UCD  
Major Contract Characteristics

• Full and Open Solicitation

• Invitation for Bids

• Post Solicitation by July 3, 2019 (estimated).

• Plan for a 30 day Solicitation period, probably longer.

• Award by September 25, 2019 (estimated).

• The NAICS Code is 237990, which has a small business size standard of $36.5 million.

• Base (no options).

• Period of Performance – Complete all work by September 30, 2021. (Clause 52.211-10 in the solicitation)

• Interim Completion Milestone- The Contractor shall finish all deepening east of STA 25+00 by October 15, 2020. (Clause 52.211-10 in the solicitation)

• Disclosure of Magnitude - $25M to $100M

• The solicitation contains DEFINITIVE RESPONSIBILITY CRITERIA
DEFINITIVE RESPONSIBILITY CRITERIA
(section 00 21 13 of solicitation)

• Definitive Responsibility Criteria. In addition to examining the criteria in FAR 9.104-1, the Contracting Officer will also examine whether the low bidder can meet the requirements of two (2) definitive responsibility criteria. The apparent low bidder will be required to meet the following experience requirements:

1. A marine construction project completed within the last ten years with an aggregate value of $10 Million or more. A "project" may consist of multiple contracts that are performed consecutively at a single project site.

2. A project completed within the last ten years that demonstrates experience underwater deepening that required the removal of a minimum of 20,000 cubic yards of previously undisturbed bedrock.
DEFINITIVE RESPONSIBILITY CRITERIA (continued)

The Contracting Officer will verify the submitted projects meet the definitive responsibility criteria as part of the responsibility determination. Bidders are not required to submit additional documentation related to these criteria at the time of bid, but may elect to submit the necessary information with their bid package and are encouraged to do so in the interest of time and efficiency. Bidders are neither penalized for not doing so, nor rated on any information provided. If responsibility information is provided with the bid package, it must be sealed in a separate envelope marked “Responsibility Information”, and it will not be opened or reviewed prior to establishment of the apparent low bidder. If not included in the bid package, the required information must be provided to the Contracting Officer within four (4) calendar days after bid opening.
QUESTIONS AND/OR COMMENTS

• Questions/Comments on draft documents or industry day may be submitted to Jessica Baker at Jessica.L.Baker@usace.army.mil until MAY 8, 2019. Questions will not be posted to FBO and the Government will not be answering questions that are submitted. The questions/comments will be taken into consideration when developing the final solicitation documents.