### THANK YOU FOR JOINING US

Our broadcast will begin momentarily



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NOTE-TARITER GATE NOT SHOWN

### NEW ORLEANS DISTRICT

### **INDUSTRY DAY 2024**

### 24 April 2024

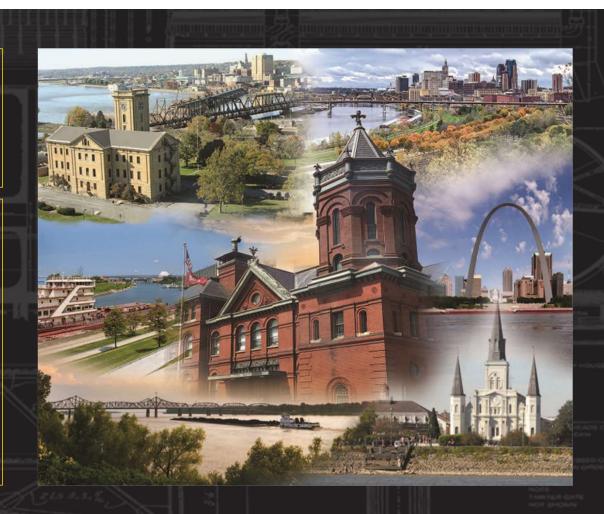






### ANNOUNCEMENTS

Ms. Renee Elizabeth Davis Executive Assistant to the Commander







### **POINTS OF CONTACT FOR QUESTIONS**

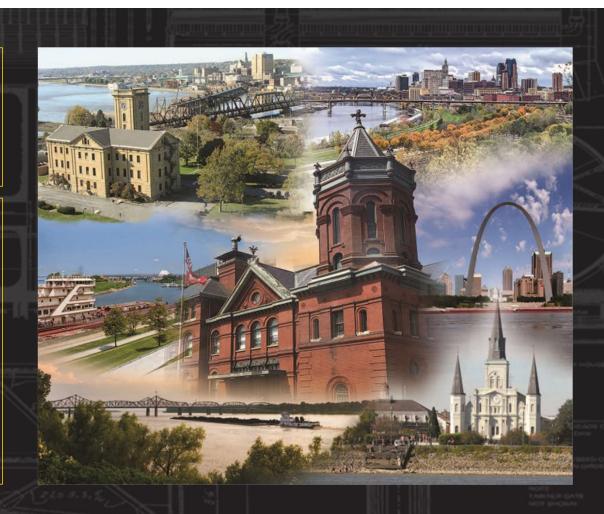
Primary Point of Contact: Anedra A. Baldwin Contract Specialist – Projects West Branch anedra.a.baldwin@usace.army.mil

www.SAM.gov keyword "New Orleans Industry Day 2024"

All questions submitted to the Contracting Division *prior* to Wednesday, May 8<sup>th</sup> will be answered and posted back to this notice no later than Wednesday, May 22nd.

### WORKSHOP WELCOME & INTRODUCTION

Ms. Renee Elizabeth Davis Executive Assistant to the Commander









### AGENDA

ANNOUNCEMENTS

WELCOMING REMARKS

CONTRACTING OFFICE SMALL BUSINESS PROGRAMS

PROJECT OVERVIEWS

- MISSISSIPPI RIVER LEVEE CONSTRUCTION
- WEST SHORE LAKE PONTCHARTRAIN PROJECT
- COMITE RIVER DIVERSION PROJECT
- EAST BATON ROUGE FLOOD RISK REDUCTION PROJECT
- MORGANZA TO THE GULF
- SOUTHEAST LOUISIANA URBAN FLOOD CONTROL PROJECT
- ATCHAFALAYA BASIN CONSTRUCTION
- SOUTHWEST COASTAL NON-STRUCTURAL RESIDENTIAL HOME ELEVATION
- OPERATIONS DIVISION CONTRACT OPPORTUNITIES
- A-E OUTLOOK
- STUDIES & POSSIBLE FUTURE OPPORTUNITIES

SAFETY

SOCIETY OF AMERICAN MILITARY ENGINEERS (SAME) PRESENTATIONS

**CLOSING REMARKS** 

### DOING BUSINESS WITH THE GOVERNMENT

Mr. Jeff Waguespack Chief, Business Oversight Branch USACE – New Orleans District 24 April 2024









### FEDERAL GOVERNMENT CONTRACTING PROCESS TOPICS

- 1. Market Research
- 2. Types of Solicitations
- 3. Evaluating Solicitations
- 4. Best Practices Before Submitting Invitation for Bids (IFBs) or Request for Proposals (RFPs)
- 5. Contract Award
- 6. Contract Administration



### FEDERAL GOVERNMENT CONTRACTING PROCESS

1. Market Research

#### **Sources Sought**

• Ask for industry comments or provide notice that a solicitation is planned. *This is your opportunity to let us know your capabilities or provide your professional input.* 

#### **Pre-Solicitation Notices**

• For <u>most</u> requirements, a pre-solicitation notice is published a <u>minimum</u> of 15 calendar days before the solicitation is published, however, it can be months or even years depending on the scope of the project.



### FEDERAL GOVERNMENT CONTRACTING PROCESS

#### 2. Solicitations

- **Most** solicitations are advertised for a minimum of 30 days.
- <u>Amendments</u> are changes to the solicitation. Amendments often answer questions, clarify the work to be performed, or correct errors in the solicitation. Amendments also may extend the due date of the offer. You must acknowledge each amendment when submitting your offer to confirm that you are offering on the most recent version of the work to be performed.



### **TYPES OF SOLICITATIONS**

• **Request for Quote** (*<u>RFQ</u>) is used to receive information on price and delivery. This solicitation type is often used when the estimated value of the government's need is less than \$250K, or with a commercial supply or service up to \$7.5M. <i>In emergencies, may be an email or a phone call.* 

• **Request for Proposal** (*<u>RFP</u>) is used to communicate government requirements to prospective contractors and solicit proposals. The basis for award is either Lowest Price Technically Acceptable (LPTA) or Trade-Off Process.* 

• Invitation for Bid (<u>IFB)</u> is often referred to as a sealed bid. Typically, there are "NO" discussions or negotiations following bid opening. While price is the key evaluation factor, *the lowest bidder does not automatically win the contract.* 



#### 3. IFB

- A. Evaluate for responsiveness (bid guarantee, no deviation from solicitation/specifications, offer a firm/definite price).
- B. Evaluate for unbalanced pricing, errors, including realism or reasonableness.
- C. Evaluate responsibility check CPARS rating, FAPIIS, Evaluate subcontracting plan (if unrestricted).

Common mistakes:

- Late or incomplete submission-No consideration
- Ineligible due to socio-economic set-aside
- No Bid Guarantee or incorrect amount
- Failure to acknowledge amendments
  - Bid unsigned

### **EVALUATING SOLICITATIONS**

#### **3. RFP**

- A. Evaluate Technical, Past Performance, Small Business Participation and Price.
- B. Check responsibility.
- C. Rate non-priced factors.
- D. LPTA Acceptable or Unacceptable.
- E. Trade-off: Outstanding, Good, Acceptable, Marginal & Unsatisfactory.

Common mistakes:

- Failure to address ALL evaluation factors
- Failure to follow proposal submission instructions
- Failure to show relevant/recent past experience
- Not understanding trade-off considerations, e.g., what factors are most important



### BEST PRACTICES BEFORE SUBMITTING A BID OR PROPOSAL

- Read and download all associated attachments posted alongside of the Solicitation
- Consider Period of performance (service), delivery schedule (supplies) or completion date (construction)
- Understand Provisions, Terms and Conditions cited within the solicitation
- Check price calculations on Bidding/Pricing Schedule

- Read carefully and understand proposal submission information
- Read carefully and understand proposal evaluation information
- Offer precisely what's asked for
- Resolve Inconsistencies or Ambiguities by submitting Requests for Information (RFIs) to the Point of Contact



### FEDERAL GOVERNMENT CONTRACTING PROCESS

#### 4. Contract Award

- RFQ Generally, to the responsible vendor with a quote that is technically acceptable with the lowest price. In emergencies, may be best interest of the Government, such as speed of delivery, quantity available from one supplier, etc.
- **IFB** to the responsible bidder who submitted the lowest-priced, responsive bid.
- RFP Either LPTA or Trade-off
  - > LPTA to the responsible offeror with the lowest priced, technically acceptable proposal.
  - Trade-off to the responsible offeror with a proposal that provides the best value to the Government. May or may not be the lowest price.



### FEDERAL GOVERNMENT CONTRACTING PROCESS

#### 5. Contract Administration

- Awards over \$250K generally have a Contracting Officer's Representative (COR) appointed.
   Under \$250K, a COR or a Point of Contact will be provided.
- The COR is your government contact regarding questions, coordinating performance and the person responsible for rating your performance.
- The COR is not authorized to change the terms or conditions of the contract.
- A contract is modified <u>only</u> by a contracting officer. Modifications are issued unilaterally for change orders, exercise options, make minor administrative changes, or terminate a contract. Bi-lateral Modifications, BOTH parties must sign.

### SMALL BUSINESS

Mr. David Willis Deputy Office Small Business Program USACE-New Orleans District 24 April 2024









### FEDERAL ACQUISITION REGULATION PART 19—SMALL BUSINESS

19.201 General policy.

- (a) It is the policy of the Government to provide maximum practicable opportunities in its acquisitions to small businesses concerns:
  - Service-disabled veteran-owned small business
  - Veteran-owned small business
  - HUBZone small business,
  - Small disadvantaged business
  - Women-owned small business

#### \*\*Such concerns must also have the maximum practicable opportunity\*\*

Policy incorporates:

- (a) Executive Order 13985 "Advancing Equity in Federal Procurement" December 02, 2021
- (b) Executive Order 12138, May 18, 1979
- (c) Acquisition-related sections of the Small Business Act
- (d) Armed Services Procurement Act









Lloyd J. Austin III Secretary of Defense

### DEPARTMENT OF DEFENSE SMALL BUSINESS STRATEGY-JANUARY 2023

Secretary's Points Regarding Small Business

- Occupy a central position in the American economy.
- ✤ Account for over ninety-nine percent of all employer firms.
- Generate over <u>forty-four percent</u> of our Nation's economic activity
- DoD has met its small business prime-contracting goals for the past eight years.
- However, participation of small business in the defense industrial base has declined by <u>over forty percent</u> in the past decade.
- DoD Small Business Strategy outlines a Department-wide plan to reverse this trend.
- Ensure that small businesses continue to serve as indispensable partners



### **DEPARTMENT OF ARMY**





## **ARMY FY22 ANNUAL REPORT**



### Army Prime Contracting Achievement Fiscal Year 2022



Program	FY22	B Spend	FY22 SB %	FY22 SB % Goal	% or SB Achi	ioal	FY21 SB %	SB Trend
Small Business	\$2	4.5B	25.40%	26.60%	95.	8%	29.37%	•
Small Disadvantaged Business	\$1	3.6B	14.09%	12.28%	114	76%	11.52%	1
Service-Disabled Veteran- Owned Small Business	\$	.5B	2.58%	3.00%	86.	2%	2.73%	4
Women-Owned Small Business	\$	.1B	4.27%	5.00%	85.	3%	4.03%	Ŷ
Certified HUBZone Small Business	\$	5 <b>B</b>	2.58%	3.00%	86.	4%	2.79%	4

**Source:** Army Office of Small Business Programs Fiscal Year 2022 Annual Report **\*Most recent report as of 19 April 2024** 



# Army Corp of Engineers New Orleans District Is Very Small Business Friendly





### NEW ORLEANS DISTRICT SMALL BUSINESS SPENDING — FY23

	Dollars
Total District Dollars Spent	\$951,887,404
Small Business	\$561,153,151
Small Disadvantage Business (SDB) <b>(Includes 8a Awards)</b>	\$143,179,858
Service Disadvantaged Veteran Owned Small Business (SDVOSB)	\$11,271,385
Woman Owned Small Business (WOSB)	\$38,767,786
Histrionically Under-Utilized Business Zone (HubZone)	\$16,271,386

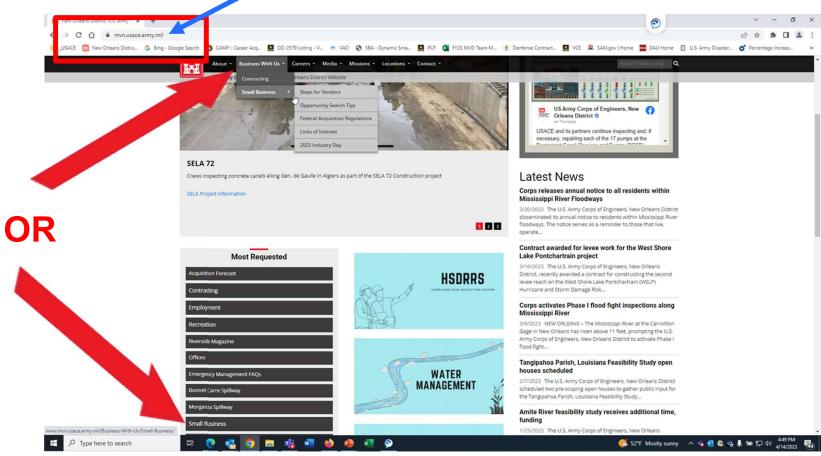


### NEW ORLEANS DISTRICT SMALL BUSINESS SPENDING — FY24

	Dollars
Total District Dollars Spent	\$183,968,822
Small Business	\$83,617,971
Small Disadvantage Business (SDB) (Includes 8a Awards)	\$60,118,456
Service Disadvantaged Veteran Owned Small Business (SDVOSB)	\$5,732,188
Woman Owned Small Business (WOSB)	\$10,185,096
Histrionically Under-Utilized Business Zone (HubZone)	\$10,195,834

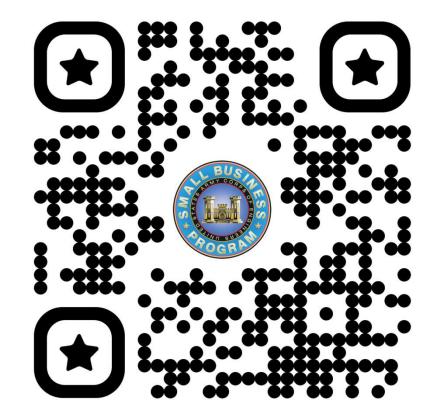


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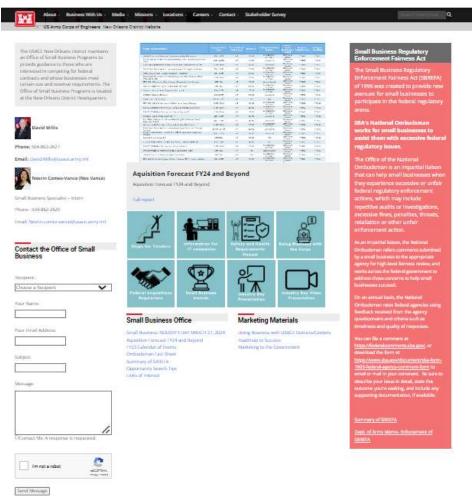




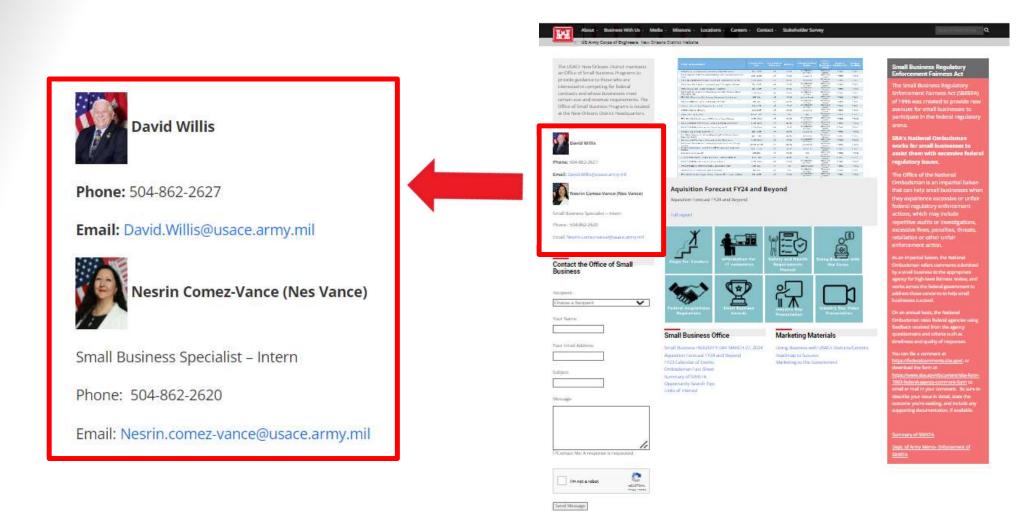
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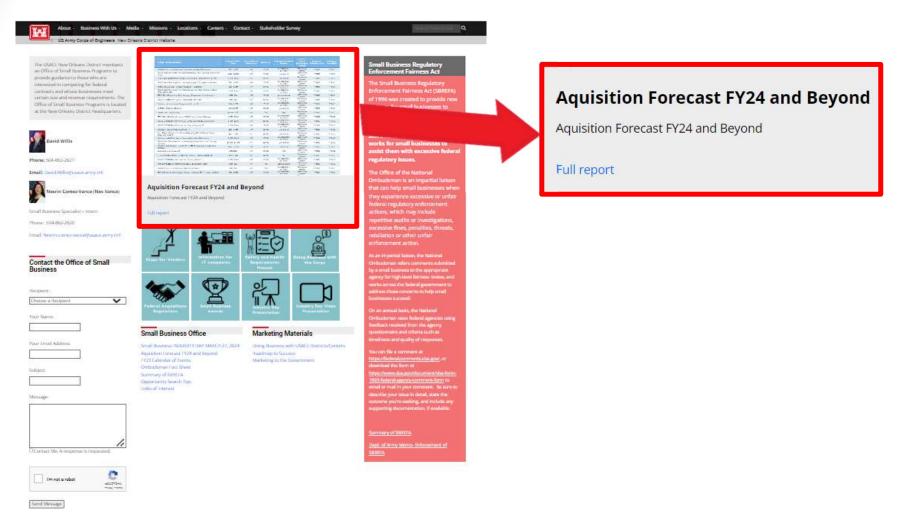






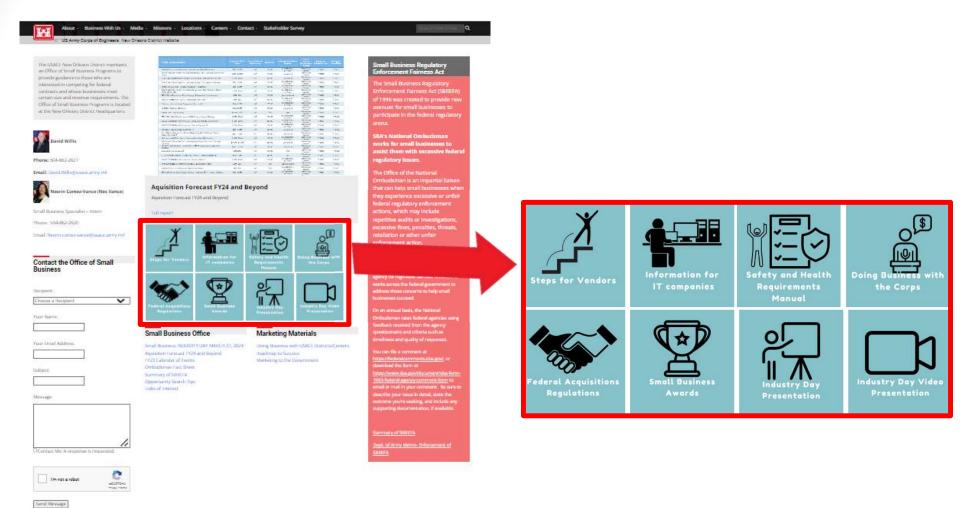
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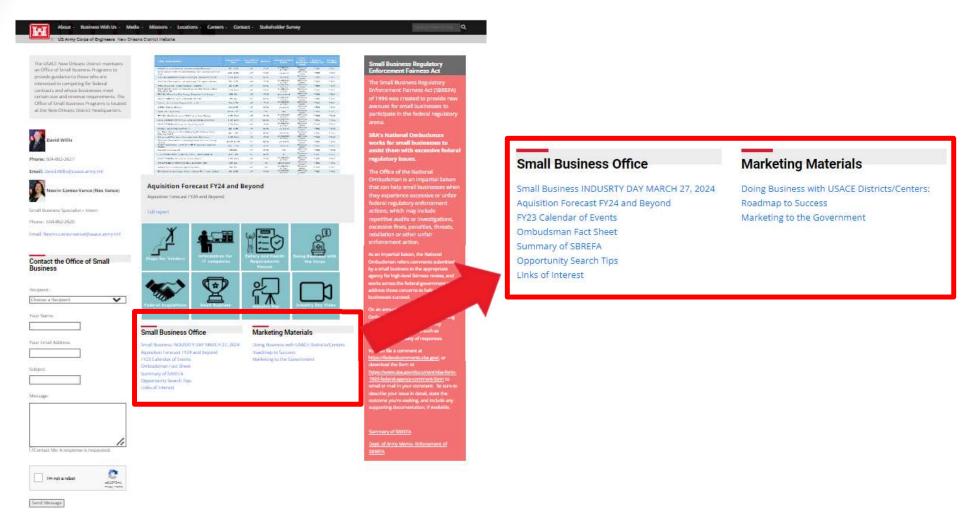
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David Wills

Phone: 504-863-262

Email: Devid Willight and army rel

Struft tharness Specialist - Interv Phone: 504-862-2620

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Office of Small Business Programs is located of the New Orldan's District Headquarters.

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### **SMALL BUSINESS WEB PAGE**

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#### **Small Business Regulatory Enforcement Fairness Act**

The Small Business Regulatory Enforcement Fairness Act (SBREFA) of 1996 was created to provide new avenues for small businesses to arena.

SBA's National Ombudsman works for small businesses to assist them with excessive federal regulatory issues.

#### Summary of SBREFA

Dept. of Army Memo- Enforcement of



### HOW CAN SMALL BUSINESSES HELP THE NEW ORLEANS DISTRICT

- Look for Prime and Subcontracting Opportunities
  - > SAM.gov
  - District's Acquisition Forecast
- Prepare to bid:
  - Set-asides
  - Unrestricted
- Reply to Sources Sought via SAM.gov
- Review entire solicitation several times
   Clearly understand the project's requirements

# **«ALWAYS perform great work**



### HOW CAN SMALL BUSINESSES HELP THE NEW ORLEANS DISTRICT ?

- Work with your bonding company—highest \$\$ level possible
- Investigate a Joint Ventures "two become one"
- Investigate SBA's Mentor-Protégé program
  - Helps eligible small businesses. (protégés) gain capacity increase through partnerships with more experienced companies.

### THANK YOU FOR JOINING US



David Willis

Phone: 504-862-2627

Email: David.Willis@usace.army.mil



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U.S. ARMY

US Army Corps of Engineers®

Nesrin Comez-Vance (Nes Vance)

Small Business Specialist – Intern

Phone: 504-862-2620

Email: Nesrin.comez-vance@usace.army.mil



# WEST SHORE LAKE PONTCHARTRAIN PROJECT

Mr. L. Jeff Williams Sr. Project Manager Programs & Project Mgmt. Division USACE – New Orleans District 24 April 2024









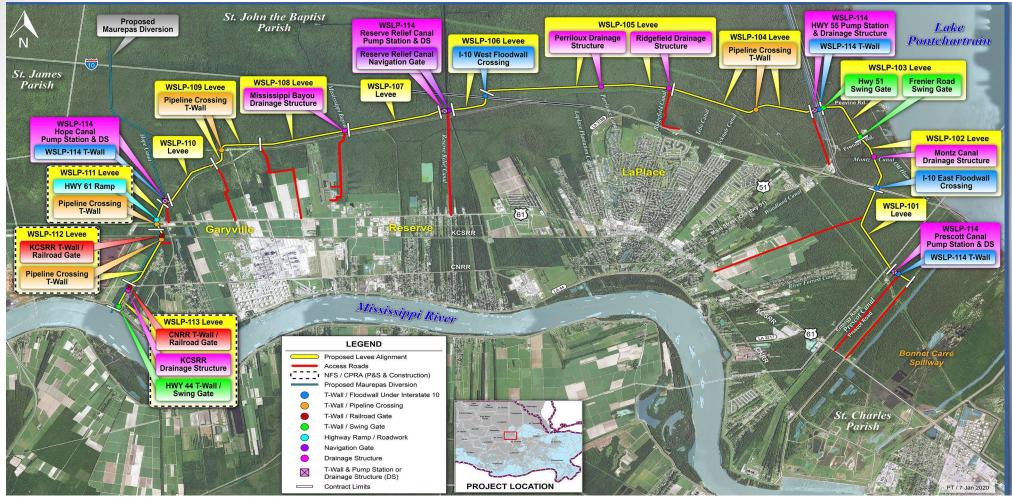
## WEST SHORE LAKE PONTCHARTRAIN PROJECT OVERVIEW

#### **Project Description / Scope**

- Alignment is approximately 23 miles in length, consisting of 22.0 miles of levee and 1 mile of T-wall:
  - St. Charles Parish = 0.5 miles
  - St. John Parish = 18.0 miles
  - St. James Parish = 4.5 miles
- The project includes pump stations, navigation gate/gated road crossings, drainage structures, railroad gates, multiple utility relocations, culvert valves/gates, and raising/flood-risk-reduction of a limited number of structures.
- 4 million CY of embankment material needed for levee construction.



## WEST SHORE LAKE PONTCHARTRAIN PROJECT OVERVIEW





### WEST SHORE LAKE PONTCHARTRAIN PROJECT OVERVIEW





#### WEST SHORE LAKE PONTCHARTRAIN TENTATIVE DELIVERY PLAN FOR THE PROJECT

Contract ID	Description	Award
WSLP 103	Levee (approx. 1.0 mi.), Floodwall (approx. 500 ft)	2Q 2024
WSLP 109	Levee (approx. 1.0 mi), (approx. 500 ft), Utility Crossings	3Q 2024
WSLP 111**	Levee (approx. 0.5 mi), Highway Ramp, Utility Crossings	2Q 2025
WSLP 112**	Levee (approx. 1.0 mi), Rail Road Gate, Floodwall (approx. 500 ft), Utility Crossings	3Q 2025
WSLP 113**	Levee (approx. 0.5 mi), Floodwall (approx. 500 ft), Rail Road Gate	2Q 2026
WSLP 114	Pump Stations (2 – 2,000 cfs)	4Q 2024
WSLP 114a	Hope and Prescott Drainage Structures	3Q 2024

Note: Project requirements and completion dates may be subject to change as designs are refined and impacts quantified. Award dates highlighted in green have been actualized. \*\*\*Designed and constructed by CPRA

#### COMITE RIVER DIVERSION PROJECT

Mr. Bobby Duplantier Senior Project Manager Programs & Projects Mgmt. Division USACE-New Orleans District 24 April 2024









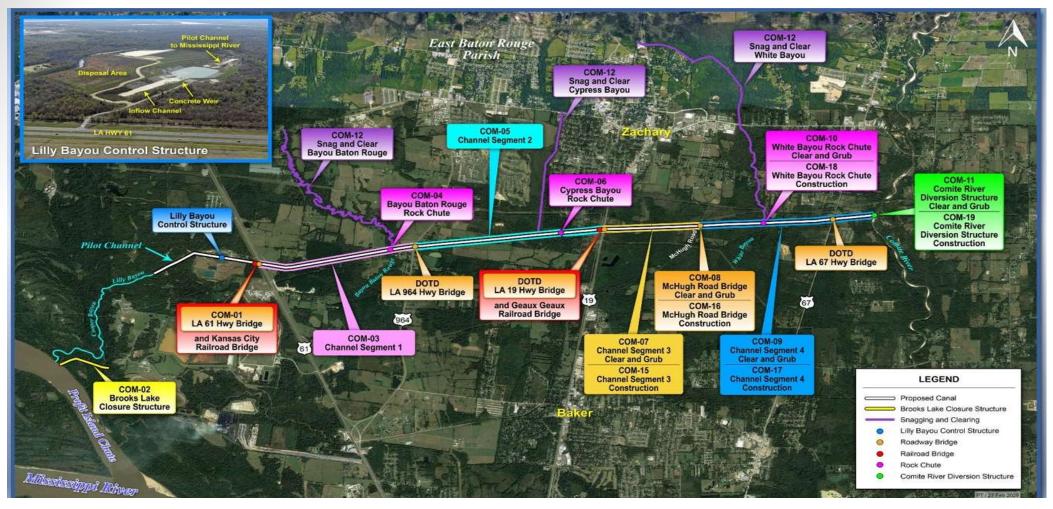
## COMITE RIVER DIVERSION PROJECT OVERVIEW

#### **Project Description / Scope**

- Located in East Baton Rouge Parish, LA in the southern portion of the Comite River Basin.
- Project will provide urban flood damage risk reduction to reduce risks from rainfall events/headwater flooding for residents in the area.
- The primary project features include a 12-mile Diversion Channel, a control structure at the Comite River, a control structure at Lilly Bayou, three rock chutes at the intersections of the diversion channel with White, Cypress and Baton Rouge Bayous, two railroad bridges, four highway bridges and one parish road bridge.



#### COMITE RIVER DIVERSION PROJECT OVERVIEW





## COMITE RIVER DIVERSION CONSTRUCTION CONTRACTS ONGOING

CONTRACT ID	DESCRIPTION	
COM-01 Hwy 61 Bridge	Construction includes two vehicular bridges and one Kansas City Southern railroad bridge spanning approximately 300 feet	
COM-05 Channel Segment 2A	Construction includes approximately 1 mile of diversion channel between Hwy 964 on the west and Cypress Bayou on the east.	
COM-06 Cypress Bayou Rock Chute	Construction includes approximately 1200 ft long rock chute and approximately 1900 ft of the diversion channel connecting channel segment 2A on the west and channel segment 2B on the east	
COM-16 McHugh Phase 2	Construction includes a two-lane bridge that will cross the diversion channel.	
COM-17 Channel Segment 4	Construction includes 1.5 miles of channel segment between McHugh Rd on west and LA Hwy 67 on the east	
COM-18 White Bayou Rock Chute	Construction includes 1300 foot long rock chute and approximately 1400 ft of the diversion channel	
COM-03 Channel Segment 1	Construction includes approximately 1.33 miles in length between Hwy 61 to the east and Bayou BR to the west	



### COMITE RIVER DIVERSION REMAINING CONTRACTS

CONTRACT ID	DESCRIPTION	
COM-19 Diversion Structure	Construction includes a concrete structure that will allow flood waters to enter the diversion channel	
COM-20 Channel Seg. 2B	Construction includes approximately 1,300 feet of diversion channel	
COM-15 Channel Seg. 3	Construction includes approximately 1 mile of diversion channel between Hwy 19 on west and McHugh Rd on the east.	
COM-04 Bayou Baton Rouge	Construction includes approximately 1,500 feet long rock chute and approximately 3500 feet of diversion channel connecting with channel segment one on the west and channel segment 2A on the west	
COM-12 Clearing & Snagging	Clearing and snagging approximately 1 mile upstream at each of the three bayous(White Bayou, Cypress Bayou and Bayou Baton Rouge) flowing into the Diversion Structure.	



## COMITE RIVER DIVERSION TENTATIVE SCHEDULE

CONTRACT ID	SOLICITATION	
COM-04 Bayou Baton Rouge	4th Qtr 2024	
COM-20 Channel Segment 2B	TBD *awaiting utility relocations	
COM-15 Channel Segment 3	TBD *awaiting utility relocations	
COM-19 Diversion Structure	TBD	
COM-12 Clearing and Snagging	TBD	

## EAST BATON ROUGE FLOOD RISK REDUCTION PROJECT

Mr. David Bradley Project Manager Programs & Projects Mgmt. Division USACE – New Orleans District 24 April 2024





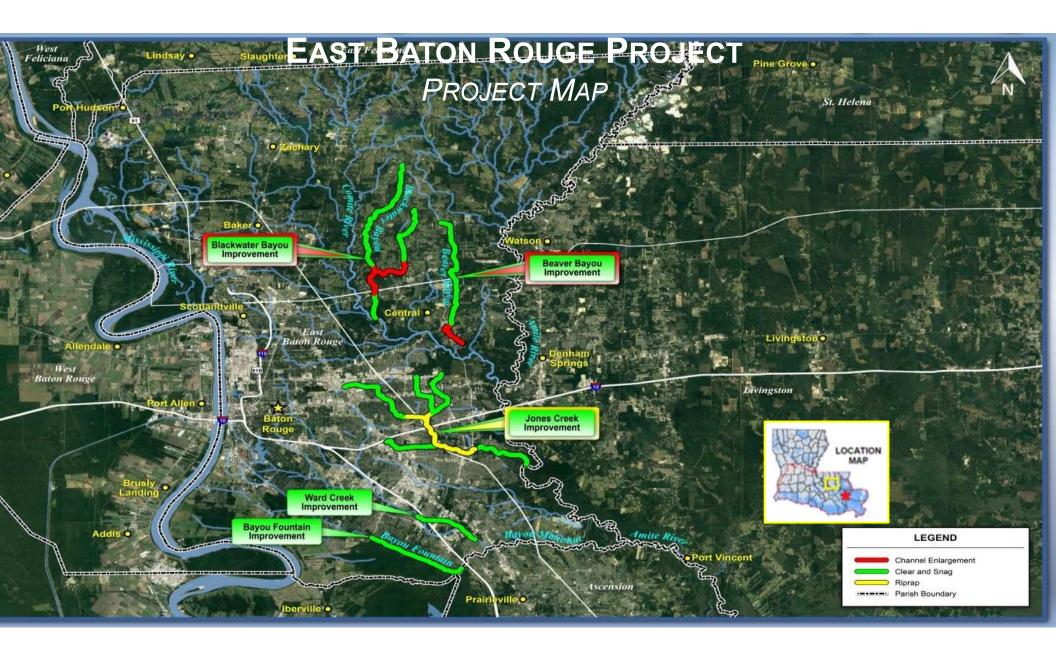




EAST BATON ROUGE PROJECT OVERVIEW

#### **Project Description / Scope**

- Location: Baton Rouge and the city of Central, LA
- East Baton Rouge Flood Risk Reduction project entails improvements to 50 miles of channels throughout the parish:
  - Jones Creek and tributaries (19.5 miles)
  - Ward Creek (3.3 miles)
  - Bayou Fountain (4.6 miles)
  - Blackwater Bayou and its main tributary (14.6 miles)
  - Beaver Bayou (8 miles)
- The proposed work includes approximately 40.1 miles of channel clearing and snagging, 5.6 miles of earthen channel enlargement, and 4.3 miles of concrete rip rap.





### **TENTATIVE** DELIVERY PLAN FOR THE PROJECT

CONTRACT ID	DESCRIPTION	
Middle Jones Creek	Clear and Snag of 4.3 miles	
Upper Jones	Clear and Snag of 4.4 miles	
Weiner Creek	Clear and Snag of 2 miles	
Lively Bayou and Trib.	Clear and Snag of 5.5 miles	

Note: Project requirements and completion dates may be subject to change as designs are refined and impacts quantified.



## **TENTATIVE** DELIVERY PLAN FOR THE PROJECT

CONTRACT ID	DESCRIPTION
Beaver Bayou	Clear and Snag of 6.4 miles
Lower Blackwater Bayou and Trib.	Clear and Snag of 1.5 mile
Upper Blackwater Bayou	Clear and Snag of 6.5 miles
Upper Blackwater Bayou Trib.	Clear and Snag of 2.5 miles

Note: Project requirements and completion dates may be subject to change as designs are refined and impacts quantified.



### **TENTATIVE** DELIVERY PLAN FOR THE PROJECT

CONTRACT ID	DESCRIPTION
Middle Jones Creek	Concrete Rip Rap of 4.3 miles
Lower Blackwater Bayou and Trib.	Enlargement of 4.1 miles
Beaver Bayou	Enlargement of 1.6 miles

Note: Project requirements and completion dates may be subject to change as designs are refined and impacts quantified.



CONTRACT	Type of work	SOLICITATION*
Middle Jones Creek	Clear/Snag	3Q 2025
Upper Jones Creek	Clear/Snag	3Q 2025
Weiner Creek	Clear/Snag	3Q 2025
Lively Bayou	Clear/Snag	3Q 2025

\*Calendar year

Note: Project requirements and schedules may be subject to change as designs are refined and impacts quantified.



CONTRACT	Type of work	SOLICITATION*
Beaver Bayou	Clear/Snag	3Q 2025
Lower Blackwater Bayou & Tributary	Clear/Snag	3Q 2025
Upper Blackwater Bayou	Clear/Snag	3Q 2025
Upper Blackwater Bayou Trib.	Clear/Snag	3Q 2025

\*Calendar year

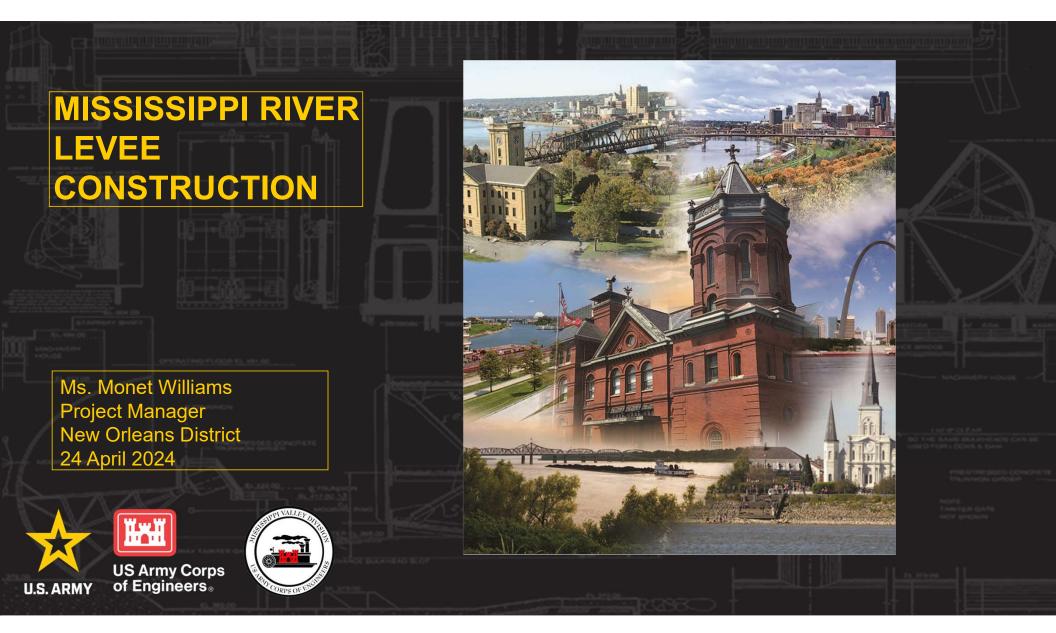
Note: Project requirements and schedules may be subject to change as designs are refined and impacts quantified.



<u>CONTRACT</u>	Type of work	SOLICITATION*
Middle Jones Creek	Rip rap	3Q 2027
Lower Blackwater Bayou & Tributary	Enlargement	3Q 2027
Beaver Bayou	Enlargement	3Q 2027

\*Calendar year

Note: Project requirements and schedules may be subject to change as designs are refined and impacts quantified.





## AGENDA

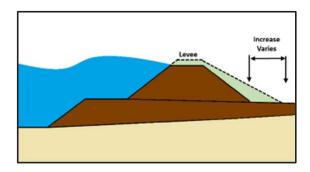
#### **Mississippi River Levee - Construction**

- Annual Program
- Supplemental Program
  - BBA18 Long Term Supplemental Phase II
  - Disaster Relief Supplemental Appropriations Act 2022

#### **Tentative Delivery Plan and Schedules**

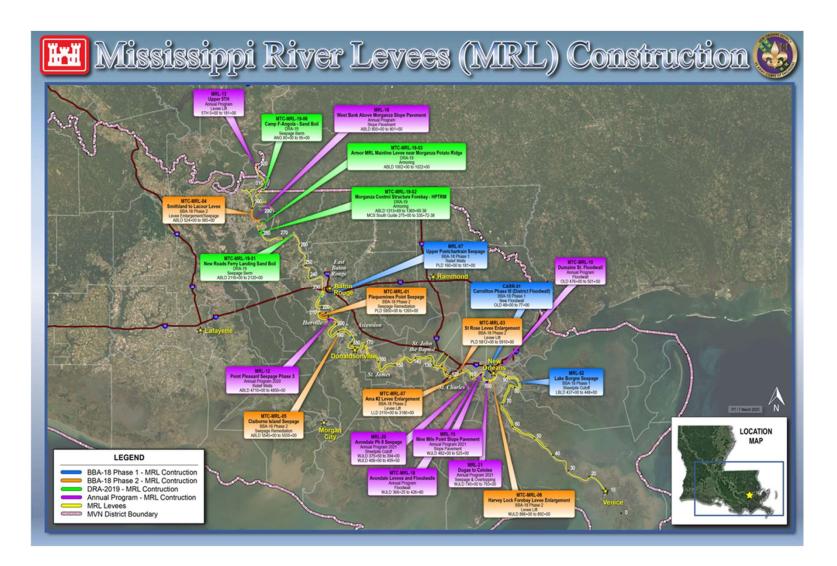
#### **Questions – Breakout Sessions**





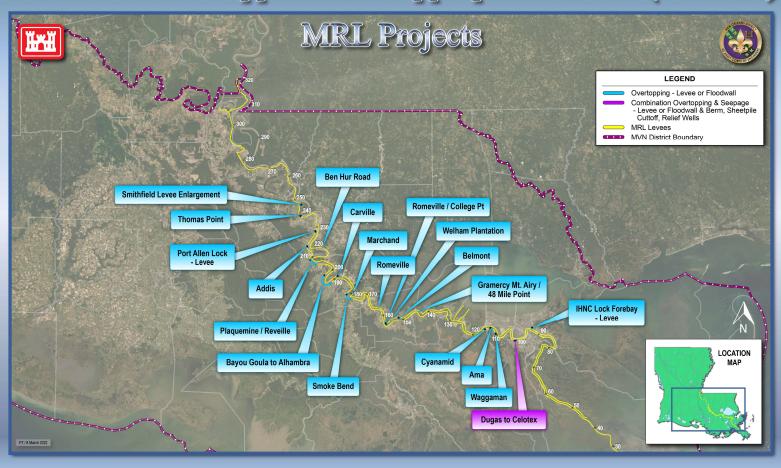








### Disaster Relief Supplemental Appropriations Act (DRSAA





# ANNUAL PROGRAM

#### **Dumaine St Floodwall**

- Fiscal Year 2023 PBUD authorized funding for design and construction
- The proposed work includes floodwall demolition and replacement

#### **Dugas to Celotex**

- Fiscal Year 2021 Work Plan authorized funding for design and Disaster Relief Appropriations Act (DRSAA) 2022 authorized funding for construction
- The proposed work includes sheetpile cutoff for seepage remediation

#### **Avondale Levee and Floodwall**

- Fiscal Year 2023 PBUD authorized funding for design for flood risk management
- Proposed work includes floodwall and/or levee enlargement



#### SUPPLEMENTAL PROGRAM **PROJECT OVERVIEW**

#### **Project Description / Scope**

- BBA18 LTS Phase II authorized funding for design and construction to address flood risk management concerns:
  - Harvey Lock Forebay Levee
- Proposed work includes levee enlargements and seepage remediation

#### **Project Description / Scope**

- DRSAA 2022 authorized funding for design and construction of 15 work items to address flood risk management concerns:
  - IHNC Lock Forebay Levee •
  - Carville •
  - Ben Hur Road
  - Marchand •
  - Welham Plantation •
  - Smithfield •
  - Smoke Bend
  - Plaquemine/Reveille

- Bayou Goula to Alhambra
- Thomas Point
- Port Allen Lock Levee
- Romeville/College Point
- Belmont
- Romeville
- Waggaman ٠
- Proposed work includes levee enlargements



#### **MRL-CONSTRUCTION TENTATIVE** PROJECT DELIVERY SCHEDULE

Contract ID	Project Name	Type of Work	Solicitation* (Quarter/Fiscal Year)
MTC-MRL-17	Dumaine St Floodwall	Floodwall	Q1 FY2028
MRL-16	Dugas to Celotex	Seepage	Q4 FY2024
MTC-MRL-18	Avondale Levee and Floodwall	Levee and/or Floodwall	Q4 FY2026
MTC-MRL-06	Harvey Lock Forebay – Levee	Floodwall	Q4 FY2024

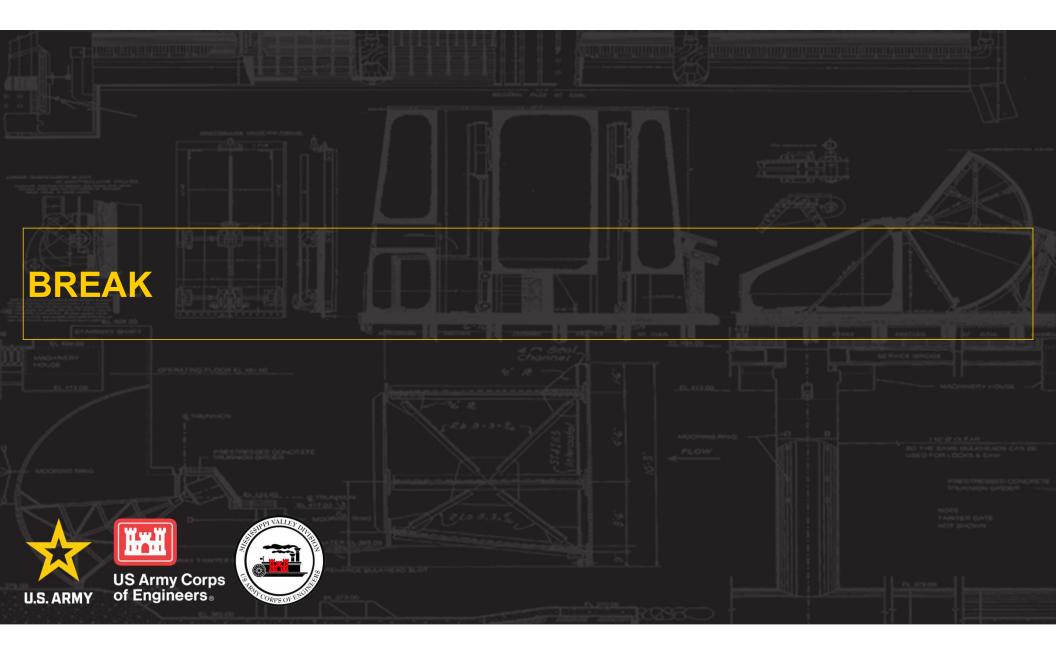
\*NOTE: Solicitation dates are based on Quarter and Fiscal Year Calendar, and are subject to change as designs are refined

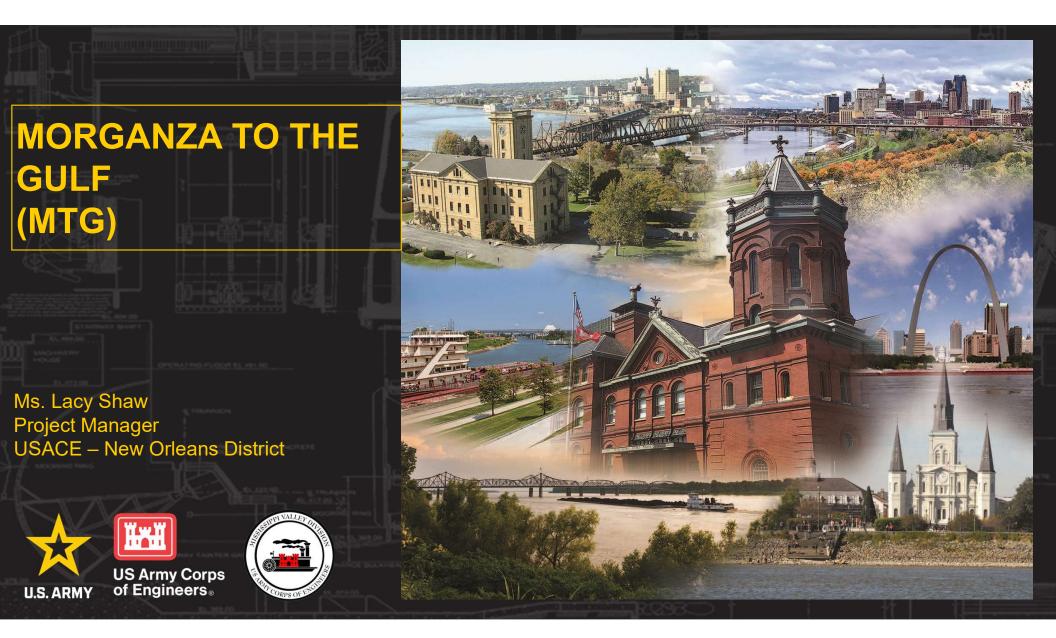


#### **MRL-CONSTRUCTION TENTATIVE** PROJECT DELIVERY SCHEDULE

Contract ID	Project Name	Type of Work	Solicitation* (Quarter/Fiscal Year)
TBD	IHNC Lock Forebay - Levee	Levee Enlargement	Q3 FY2027
TBD	Carville	Levee Enlargement	Q2 FY2027
TBD	Ben Hur Road	Levee Enlargement	Q2 FY2027
TBD	Marchand	Levee Enlargement	Q2 FY2027
TBD	Welham Plantation	Levee Enlargement	Q1 FY2026
TBD	Smithfield	Levee Enlargement	Q2 FY2025
TBD	Smoke Bend	Levee Enlargement	Q3 FY2025
TBD	Plaquemine/Reveille	Levee Enlargement	Q4 FY2025
TBD	Bayou Goula to Alhambra	Levee Enlargement	Q2 FY2025
TBD	Thomas Point	Levee Enlargement	Q3 FY2025
TBD	Port Allen Lock - Levee	Levee Enlargement	Q3 FY2026
TBD	Romeville/College Point	Levee Enlargement	Q1 FY2026
TBD	Belmont	Levee Enlargement	Q1 FY2026
TBD	Romeville	Levee Enlargement	Q1 FY2026
TBD	Waggaman	Levee Enlargement	Q1 FY2025

\*NOTE: Solicitation dates are based on Quarter and Fiscal Year Calendar, and are subject to change as designs are refined







# FORMAT

98 Mile Levee System providing flood risk reduction for over 200,000 people in Terrebonne and Lafourche Parishes

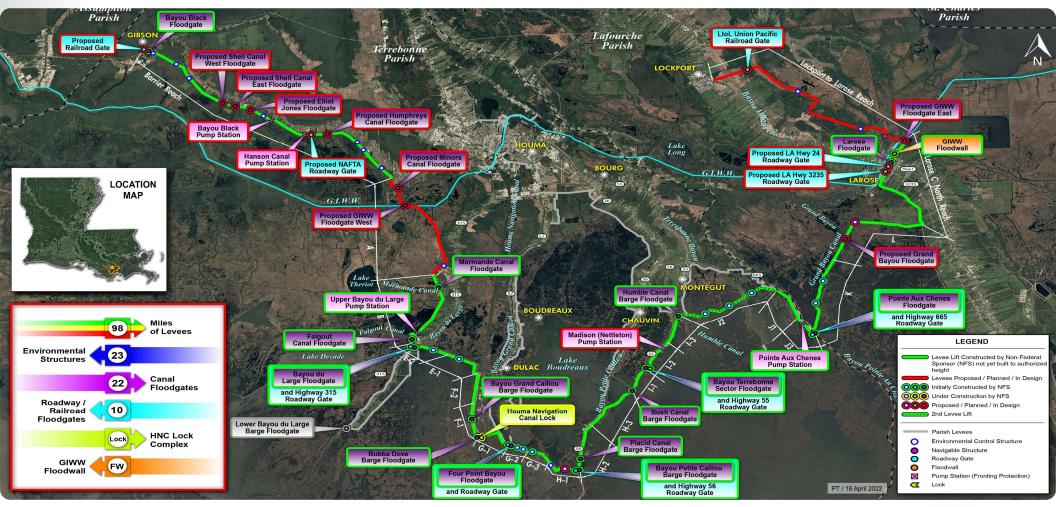
Features funded for construction

- Reach A Levee—Advertisement in 2024
- Lockport to Larose Reach Levee
- GIWW West Sector Gate
- GIWW East Sector Gate
- Humble Canal Sector Gate
- Minors Canal Floodgate

Features under design (construction pending appropriation)

- Reaches F, J-2, K, and L Levee Lifts
- Shell Canal and Bayou Terrebonne Floodgates

#### MORGANZA TO THE GULF LEVEE SYSTEM TERREBONNE AND LAFOURCHE PARISHES



# SOUTHEAST LOUISIANA URBAN FLOOD CONTROL PROJECT (SELA)

Mr. Herbert "Joey" Wagner Senior Project Manager SELA Project 24 April 2024

U.S. ARMY

US Army Corps of Engineers





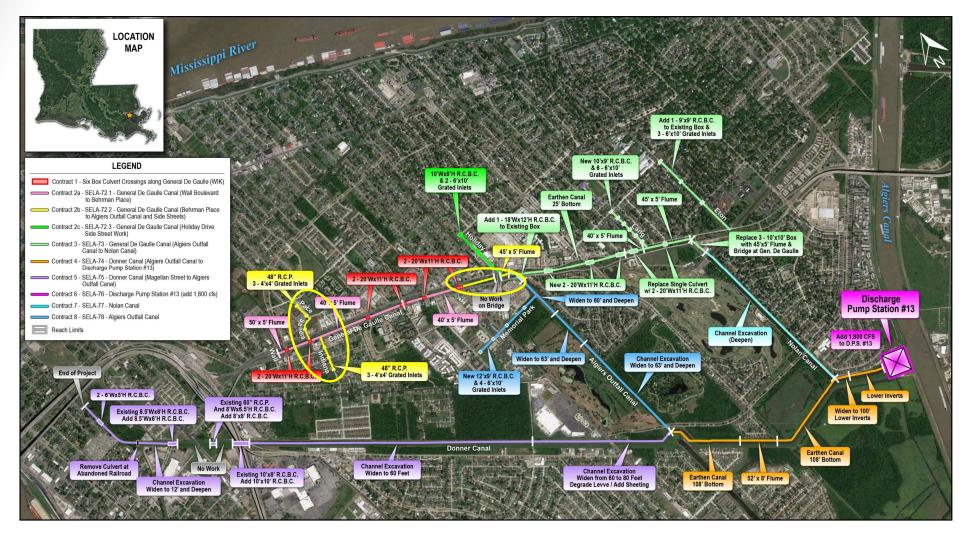
# SELA ALGIERS SUBBASIN NEXT CONSTRUCTION CONTRACT AWARD







## **SELA – ALGIERS SUBBASIN**





#### 72 **SELA 72.2 – GENERAL DE GAULLE** BEHRMAN PL TO ALGIERS OUTFALL CANAL AND SIDE STREET WORK



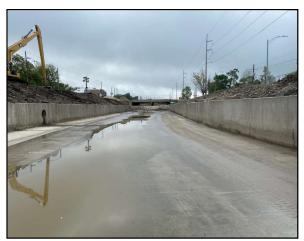


### **SELA 72.2– GENERAL DE GAULLE** BEHRMAN PL TO ALGIERS OUTFALL CANAL AND SIDE STREET WORK

### Scheduled Award: June 2024

- Main Drainage Canal Construction: •
  - Behrman Place to Algiers Outfall Canal
    - □ 45' x 5' for 1300 LF U-Flume
      - Concrete pile founded
      - Steel reinforced concrete U-flume •
    - Relocations
      - Sewer Lines •
      - Water Lines
      - Coordination with Utility Companies
- Side Streets Construction:
  - Sandra, Pace, and Indiana Streets
    - □ 36"x 58" for ~2000 LF subsurface concrete arch pipe
- Status: Design 100% completed
- Challenges: Extensive coordination with • SWBNO, DPW, Entergy, and LADOTD.

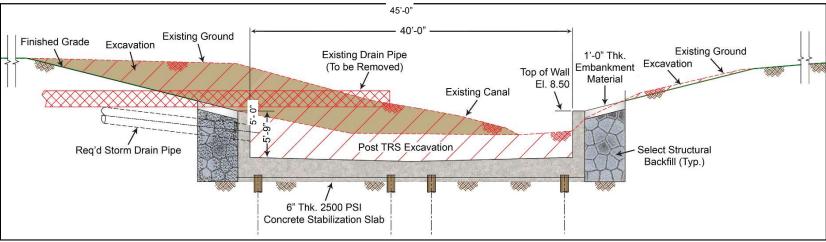








### **GENERAL DE GAULLE** U-FLUME TYPICAL SECTION FOR









## **SELA 72.1 – GENERAL DE GAULLE**

## WALL BOULEVARD TO BEHRMAN PLACE







### SELA 72.1– GENERAL DE GAULLE WALL BOULEVARD TO BEHRMAN PLACE GREENSPACE RESTORATION

### • Scheduled Award: Fall 2024 (optimal planting window November 1 to March 15)

- Environmental Compliance: EA #384
  - > Harmoniously blend concrete canal with the surrounding environment
  - Vegetation inventory: May 2020
    - □ Total of 271 trees removed or impacted by construction
  - Coordination with local sponsors/stakeholders to develop a Planting Plan
    - Conceptual 'Naturalistic' Planting Plan
    - □ Replanting approximately **245** replacement trees.
    - Parameters include, but are not limited to, DOTD Vegetation Management Setbacks, underground and overhead utilities, existing lamp poles, and access to slopes for maintenance.
- Status: Currently in design (35% complete).
- Challenges: Extensive coordination with SWBNO, Parks and Parkways, and LADOTD.



### SELA 72.1– GENERAL DE GAULLE WALL BOULEVARD TO BEHRMAN PLACE

### GREENSPACE RESTORATION PROPOSED PLAN – "NATURALISTIC"



Typical existing conditions at SELA 72.1 site with maintenance access.



Proposed SELA 72.1 Greenspace Restoration with Naturalistic Planting and continued maintenance access.

## SELA PEOPLES SUBBASIN NEXT CONSTRUCTION CONTRACT AWARD





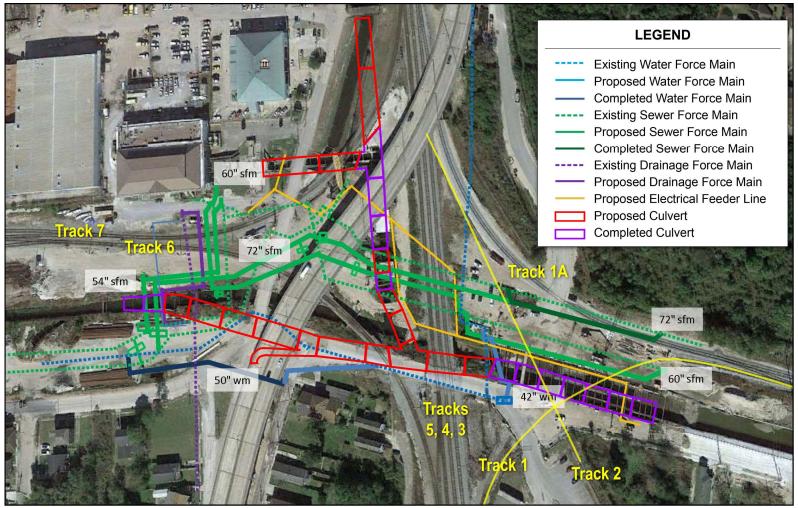


## **SELA 26.1 – FLORIDA AVENUE PHASE IV**





### SELA 26.1A – FLORIDA AVENUE PHASE IV UTILITY RELOCATIONS





### SELA 26.1B – FLORIDA AVENUE PHASE IV BOX CULVERT AND FLUME

81



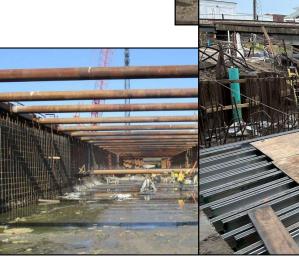
Scheduled Award: Oct 2024

#### Relocations:

- 7 Railroad Tracks
- Main Electrical Feeder Lines
- ➤ 48" to 60" Water Lines
- ➢ 60" to 72" Sewer Lines
- Main Channel:
  - Florida Avenue Canal:
    - □ Timber pile founded, steel reinforced concrete U-Flume on.
    - □ Increase from 25' x 10' to 42' x 15' for 400 LF
  - Peoples Avenue Canal:
    - □ Increase from 20' x 10' to 25' x 15' for 210 LF
- Status: Currently in design (95% complete).
- Challenges:
  - Extensive coordination with NSRR and SWBNO
  - High Crime Area





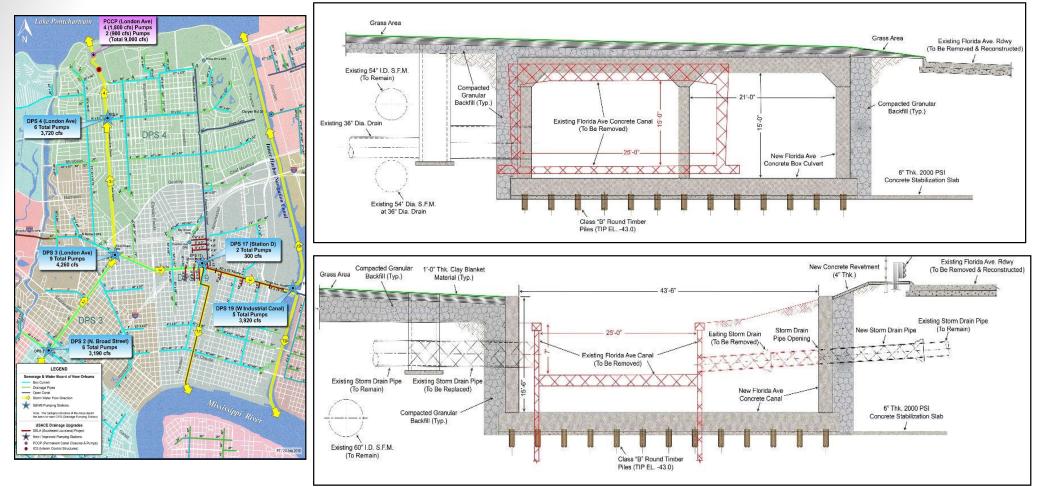




82



### SELA 26.1 - FLORIDA AVENUE PHASE IV TYPICAL SECTION



83

# WHAT'S COMING DOWN THE PIPE :

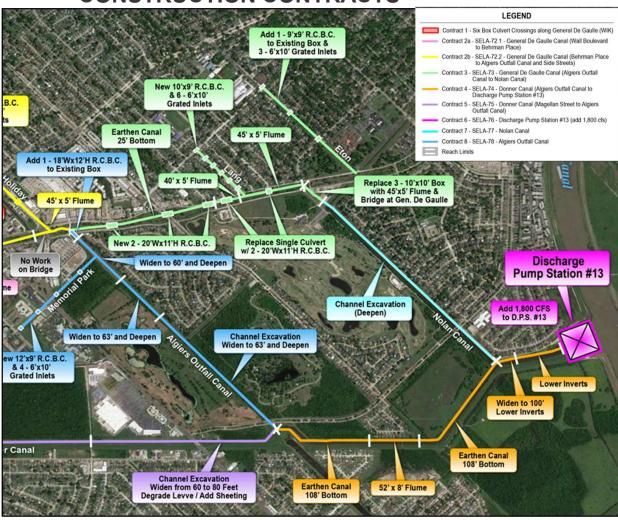
## SELA ALGIERS SUBBASIN CONTRACTS TO BE AWARDED IN THE NEXT TWO TO FIVE YEARS

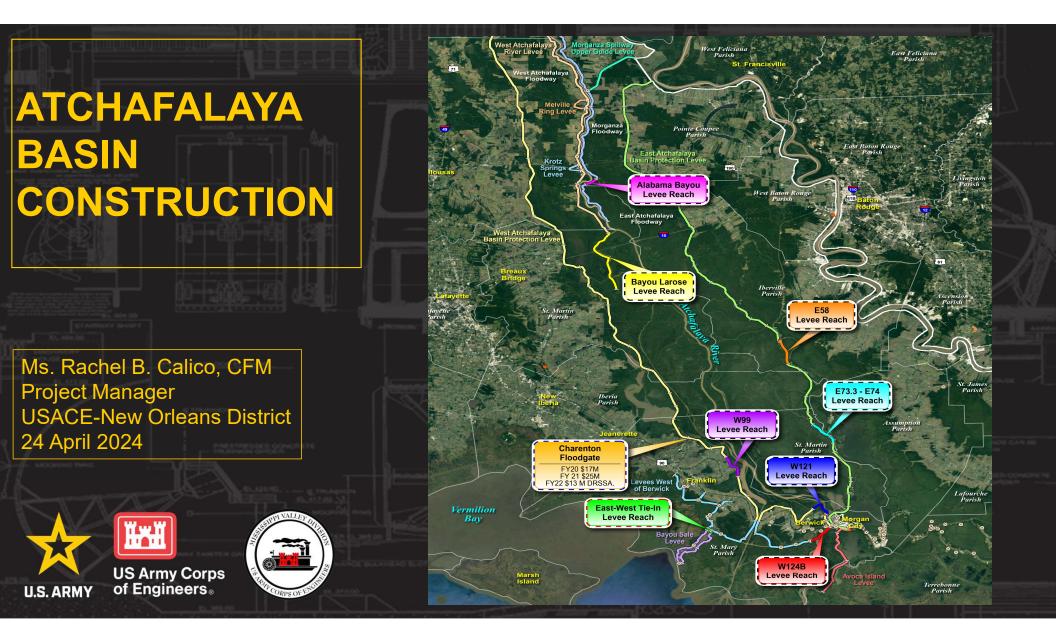




- Contracts advertised in the next 2-5 years:
- SELA 76: Increased capacity at Drainage Pump Station #13 (Magenta)
   Fall 2025
- SELA 73: General De Gaulle from Algiers Outfall Canal to Nolan Canal (Light Green)
   Fall 2026
- SELA 78: Algiers Outfall Canal (Blue)
   Spring 2027

### SELA ALGIERS SUBBASIN CONSTRUCTION CONTRACTS







## AGENDA

#### **Atchafalaya Basin Construction**

- Disaster Relief Supplemental Appropriations Act (DRSAA) 2022
- Infrastructure Investment and Jobs Act(IIJA)/ Bipartisan Infrastructure Law (BIL)

### **Tentative Delivery Plan and Schedules**

Questions



## **ATCHAFALAYA BASIN OVERVIEW**

- The Atchafalaya Basin is the largest existing wetland in the United States encompassing 1.4 mil acres of land.
- The Atchafalaya Basin System consists of 450 total miles of levees and floodwalls.
- The System is designed to carry one half of the 3,000,000 CFS project flood at the latitude of Old River, Louisiana.
- This presentation will discuss eight projects, which consists of approximately 18 miles of levee in various stages of design.





#### DISASTER RELIEF SUPPLEMENTAL APPROPRIATIONS ACT (DRSAA) 2022 PROJECT OVERVIEW

#### **Project Description / Scope**

- DRSAA 2022 authorized funding for design and construction of 6 work items to address flood risk management concerns:
  - W-124B
  - W99
  - W-121
  - E73.3 through E74
  - Alabama Bayou
  - Bayou LaRose
  - Proposed work includes levee lifts, floodwalls, and floodgates



#### INFRASTRUCTURE INVESTMENT AND JOBS ACT(IIJA)/ BIPARTISAN INFRASTRUCTURE LAW (BIL) PROJECT OVERVIEW

#### **Project Description / Scope**

- IIJA/BIL authorized funding for partial construction of 1 work items to address flood risk management concerns:
  - Bayou Sale East West Tie-In
  - Proposed work includes construction of a new levee and floodwall



### ATCHAFALAYA BASIN CONSTRUCTION TENTATIVE PROJECT DELIVERY SCHEDULE

Contract ID	Project Name	Type of Work	Solicitation* (Quarter/Fiscal Year)
ATCH-CON-DRSAA-01	W-124B	Levee Lift and/or Floodwall	Q3 2025
ATCH-CON-DRSAA-03	W-99	Levee Lift	Q2 2025
ATCH-CON-DRSAA-08	W-121	Levee Lift	Q2 2026
ATCH-CON-DRSAA-04	E73.3 through E74	Levee Lift	Q1 2028
ATCH-CON-DRSAA-05	Alabama Bayou	Levee Lift	Q1 2027
ATCH-CON-DRSAA-07	Bayou LaRose	Levee Lift	Q1 2027
MTC-ATCH-04	Bayou Sale, East West Tie-In	Levee Lift and/or Floodwall	Q1 2026

\*NOTE: Solicitation dates are based on Quarter and Fiscal Year Calendar, and are subject to change as designs are refined

SOUTHWEST COASTAL, LOUISIANA PROJECT NON-STRUCTURAL RESIDENTIAL HOME ELEVATIONS

MS. DAWN REED PROJECT MANAGER USACE, NEW ORLEANS DISTRICT 24 APRIL 2024





## SECTION 1401 WINN ACT 2016 AUTHORIZED

#### NER

- 9 Marsh Restoration Features
- 5 Shoreline Protection/Stabilization Features
- 35 Chenier Reforestation Features
- Total Cost of \$2,485,025,000

\*Calcasieu Ship Channel Salinity Control Measure and Cameron-Creole Spillway Structure recommended for additional study

#### NED

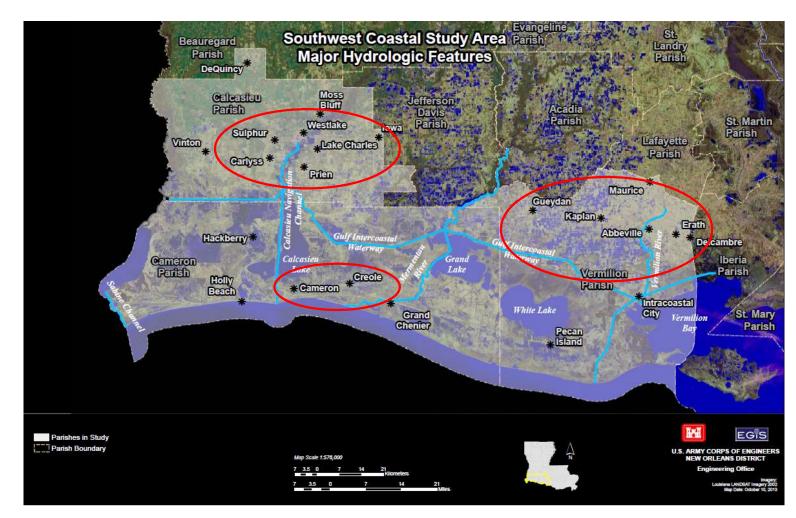
- Nonstructural, 100 %Voluntary!
  - Elevation of residential structures to 2075 100-year BFE
  - Dry Flood-proofing of non-residential structures
  - Risk reduction features (berms) for warehouses
- Includes 3,961 total structures
  - 3,462 residential
  - 342 non-residential
  - 157 warehouses
- Total Cost of \$1.6Billion (FY22 price levels)



## SOUTHWEST COASTAL - OVERVIEW

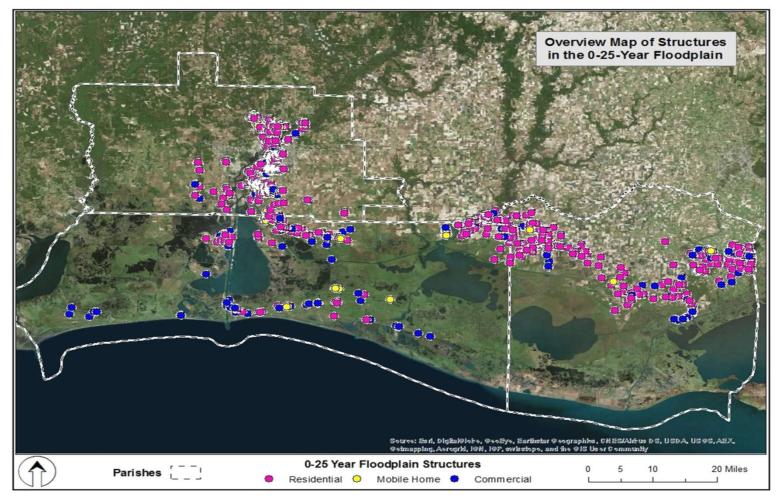
- FY22 Construction Funding!
- Infrastructure Investment and Jobs Act (IIJA)
  - \$296M
- Community Projects Funding
  - \$10M
- <u>Total Federal Funds Allocated \$296 Million specifically for CSRM features</u>
- We are estimating raising 800 1,000 structures
- Implementation Guidance
  - All funding has been designated for structure raising in the 3 Parishes.
  - Execution is 3-5 years
  - Initial Construction will be managed out of our Rock Island District with New Orleans
     District Support.
  - <u>State of Louisiana acting through the Coastal Protection and Restoration</u> <u>Authority will serve as the Non-Federal Sponsor; homeowner has little to no</u> <u>cost</u>

## **SOUTHWEST COASTAL POPULATED AREAS**





# SOUTHWEST COASTAL STRUCTURE DISTRIBUTION



Project Overview Contract 1

## **Project Description / Scope**

- Award a design-build contract to elevate approximately 20 structures in the current 25-year flood plain in Calcasieu, and Vermillion Parishes in southwest Louisiana.
- Proposed work includes develop plans and specs per individual structure and elevating the structure to the projected year 2075 100 year base flood elevation.



Project Overview Contract 2

- Award A/E Services Contracts
  - 1<sup>st</sup> floor elevation
  - Structural integrity assessment
  - Determine proof of Ownership
  - Cultural assessment IAW feasibility study
  - HTRW Phase I assessment
  - Verify structure has not received other federal funds for the purpose of elevating the structure.

Project Overview Contract 3

## **Project Description / Scope**

- Award a design-build contract to elevate approximately 800 to 1,000 structures in the current 25-year flood plain in Cameron, Calcasieu, and Vermillion Parishes in southwest Louisiana.
- Proposed work includes develop plans and specs per individual structure and elevating the structure to the projected year 2075 100 year base flood elevation.



Project Overview

## Key take-a-way

- Project has received \$296 Million in Federal funds to award a design/build Contract for the purpose of elevating structures
- 3-5 year implementation
- Contracts to be managed out of our Rock Island District
- New Orleans District to remain engaged with Project
   Management, Real Estate, and Construction Management

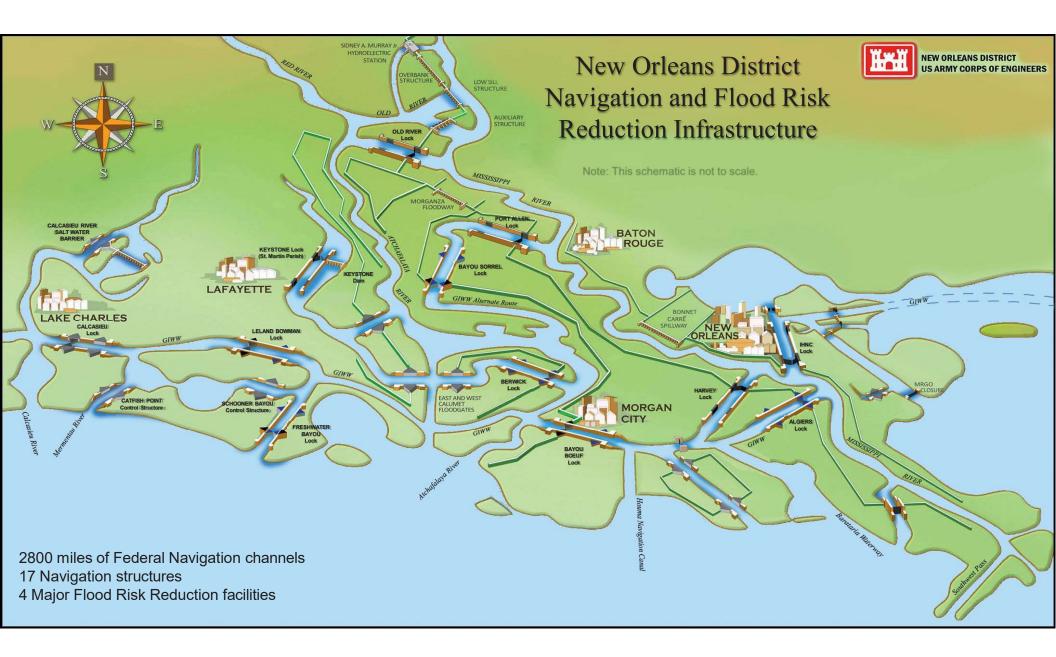
## OPERATIONS DIVISION CONTRACT OPPORTUNITIES

Mr. Joaquin Mujica Deputy Chief, Operations Division USACE - New Orleans District 24 April 2024











## OPERATIONS DIVISION FY24 MAJOR MAINTENANCE OPPORTUNITIES

Project	Contract Name	Contract Type	Procurement Method	Estimated Bid Opening	Estimated Duration
Freshwater Bayou Lock	Elevated Warehouse	Construction	SB	4/1/2024	12 months
Schooner Bayou Control Structure	Dewatering Support Services (Hydraulic/Electrical)	Service	8(a)/SB RFP	6/1/2024	3 months
Schooner Bayou Control Structure	Dewatering Supply and Equipment Contract	Supply	8(a)/ISB	6/1/2024	3 months
Bonnet Carre' Spillway	Rail Anchor Structure Materials	Supply	8A	6/5/2024	120 days
Calcasieu River & Pass	Channelside Stone Foreshore Protection - CDF 7, 10, 11	Construction	Unrestricted IFB	7/1/2024	9 months
Schooner Bayou Control Structure	Replacement of Timber Guide Walls	Construction	Unrestricted IFB	8/1/2024	375 days
Schooner Bayou Control Structure	Elevated Warehouse	Construction	SB	10/1/2024	12 months
Bonnet Carre' Spillway	Concrete Pad & Pavilion at Trailhead	Construction	8(a)	10/1/2024	2 months
Bayou Sorrel Lock	Trash Collection and Recycling	Service	8(a)	12/1/2024	12 months
Atchafalaya Basin	Levee Resurfacing Materials	Supply	8(a)/SB IFB	TBD	1-2 Years



## OPERATIONS DIVISION FY25 MAJOR MAINTENANCE OPPORTUNITIES

Project	Contract Name	Contract Type	Procurement Method	Estimated Bid Opening	Estimated Duration
Bonnet Carre Spillway	Trash Collection and Recycling	Service	8(a)	1/1/2025	12 months
Calcasieu River & Pass	DMMP CDF H Degrading	Construction	Unrestricted IFB	1/30/2025	9 months
Bonnet Carre Spillway	Janitorial Service	Service	8(a)	2/1/2025	12 months
Old River Lock	Fabricate Shear Blocks for Floating Guide Walls	Supply	8(a)	3/26/2025	TBD
IHNC Lock	Grounds Maintenance	Supply	8(a)	4/1/2025	12 months
Calcasieu Lock	Grounds Maintenance	Service	8(a)	5/1/2025	12 months
Calcasieu River Saltwater Barrier	Fabrication of Replacement Sector Gates	Construction	Unrestricted IFB	5/1/2025	24 months
Calcasieu River & Pass	DMMP CDF D Phase 2 Degrading	Construction	Unrestricted IFB	5/1/2025	9 months
Freshwater Bayou Lock	Approach Walls & Dolphins	Construction	SB	6/1/2025	18 months
Calcasieu River Saltwater Barrier	Fabrication of Replacement Tainter Gates	Construction	Unrestricted IFB	8/1/2025	24 months
Calcasieu River Saltwater Barrier	Fabrication of Replacement Tainter Gate Anchorages	Construction	Unrestricted IFB	8/1/2025	12 months

## **A-E OUTLOOK**

Ms. Lori B. Wingate Chief, Business Operations Section Engineering Division USACE-New Orleans District 24 April 2024









## **CURRENT A-E CONTRACTS**

#### **Unrestricted General Design Services**

5 Active IDIQ Contracts
\$85M capacity
2 Awarded Dec 2019/Jan 2020
2 Expire Jun 2025/Jul 2025
3 Awarded May 2023/Aug 2023
3 Expire May 2028/Aug 2028

### **Geotechnical & Environmental Services**

1 Active IDIQ Contract \$20M capacity Awarded May 2021 Expire May 2026

#### **Restricted General Design Services**

5 Active IDIQ Contracts
\$85M capacity
2 Awarded Apr 2020
2 Expire Oct 2025
3 Awarded Dec 2023/Jan 2024
3 Expire Dec 2028/Jan 2029



## **CURRENT A-E CONTRACTS**

#### Surveying & Mapping Services

3 Active IDIQ Contracts \$18M capacity Awarded Jan/Mar 2020 Expire Jan/Mar 2025

### **Photo Mapping Services**

1 IDIQ Contract \$6M capacity Awarded Jul 2023 Expire Jul 2028

#### Construction Surveying Services 1 IDIQ Contract \$3M capacity Awarded Jul 2023 Expire Jul 2026



## **ONGOING A-E CONTRACT ACTIONS**

#### Surveying & Mapping Services

3 IDIQ Contracts \$24M capacity Synopsis Closed Anticipated Award December 2024

#### Environmental Infrastructure Design Services

1 IDIQ Contract \$5M capacity Synopsis Closed Anticipated Award February 2025

#### Geotechnical & Environmental Services 3 IDIQ Contracts \$30M capacity Pending Synopsis Apticipated Synopsis

Anticipated Synopsis May 2024 Anticipated Award July 2025

#### **Automated Revetment Surveys**

1 FFP Contract TBD \$5-10M capacity Pending Synopsis

Anticipated Synopsis June 2024 Anticipated Award August 2025 STUDIES & POSSIBLE FUTURE OPPORTUNITIES

Ms. Amanda Landry Project Manager Programs & Projects Mgmt. Division USACE-New Orleans District 24 April 2024









## STUDIES AND POTENTIAL FUTURE OPPORTUNITIES

#### What is a feasibility study?

- A feasibility study is the first phase of a project (i.e., planning phase) and is required before a project can move into Preconstruction Engineering and Design (PED) and Construction.
- The study investigates alternatives and associated costs, benefits, and impacts and ultimately recommends a plan for construction.
- The study culminates in a Chief's Report that can be sent to Congress.
- Moving from a study to construction requires congressional authorization and appropriations.

#### **Potential Future Opportunities:**

- Based on the current status of studies at MVN, we anticipate beginning design work into the future, pending USACE approvals and funding.
- Construction efforts require authorization and appropriations from Congress.
- This information is draft and subject to change. We will continue to update you through future Industry Day Events.

## **STUDIES AND POTENTIAL FUTURE OPPORTUNITIES**

#### **Current Studies at MVN:**

- St. Tammany Parish
  - Structural and nonstructural Coastal Storm Risk Management and Flood Risk Management measures throughout St. Tammany Parish.
- Amite River and Tributaries
  - Nonstructural flood risk management measures in the Amite River Basin.
- Tangipahoa Parish
  - Flood risk management and coastal storm risk management study in Tangipahoa Parish.
- Lower Mississippi River Comprehensive Study
  - Multiple study purposes and large geographic scope.
- Lafitte Area
  - Investigation of flood and coastal storm risk management measures in Lafitte, LA and surrounding areas in lower Jefferson Parish.
- Inner Harbor Navigational Canal (IHNC)
  - An Integrated General Re-evaluation Report and Supplemental Environmental Impact Statement (GRR/SEIS) is being prepared to determine the feasibility of replacing the over 100 year old, undersized lock to improve efficiency and reliable passage of waterborne traffic locking through the IHNC.

## **STUDIES AND POTENTIAL FUTURE OPPORTUNITIES**

New Start Studies or Investment Decisions at MVN:

- Mississippi River Gulf Outlet (MRGO) Ecosystem Restoration Project, Louisiana
  - Plan to restore aquatic ecosystem structure and function in the vicinity of the MRGO
- Bayou Sorrel Lock Replacement
  - Determine the feasibility of modifying the Bayou Sorrel Lock to safely pass the project flood in the Atchafalaya Basin Floodway and to reduce delays to barge tows on the Gulf Intracoastal Waterway System

## **STUDIES AND POTENTIAL FUTURE OPPORTUNITIES**

#### **PED** efforts at MVN:

- Upper Barataria Basin
  - Structural measures, including levees, floodwalls, and floodgates from the Mississippi River near Luling to high ground near Raceland.

#### New Start PED Efforts at MVN:

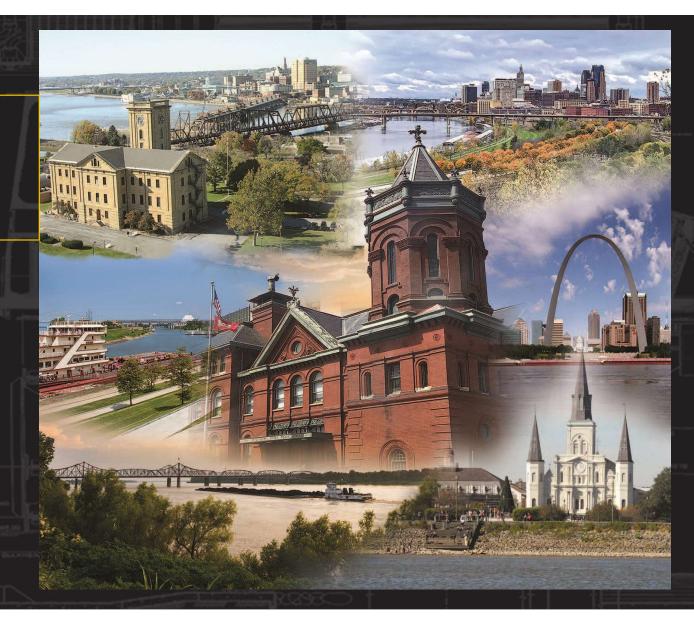
- West Bank and Vicinity; Lake Pontchartrain and Vicinity
  - Raising elevation of levees and floodwalls.
  - Initiation of PED pending funds.
- South Central Coast
  - Nonstructural measures, including elevating residential structures and floodproofing nonresidential structures in Iberia, St. Martin, and St. Mary Parishes.
  - Initiation of PED pending funds

SAFETY

Mr. Derek Brent Chief, Safety & Occupational Health USACE, New Orleans District 24 April 2024





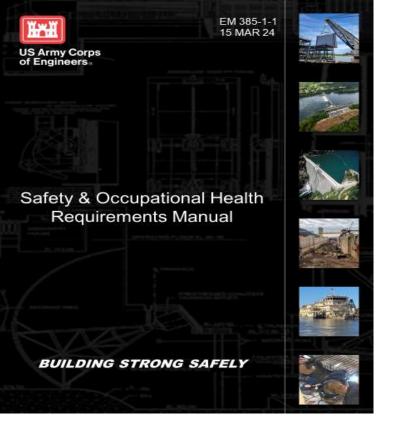


#### **EM 385-1-1** OVERVIEW OF THE UPDATED EM 385-1-1 (15 MARCH 2024)



#### SUMMARY OF SIGNIFICANT CHANGES





## AGENDA

- **1. Opening Remarks**
- 2. Preamble
- **3. Closing Remarks**



### HISTORICAL PERSPECTIVE





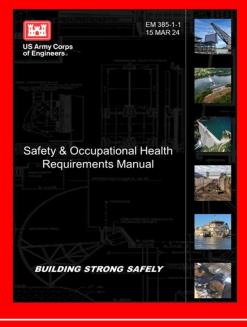
#### **EM 385-1-1 HIGHLIGHTS**

## 2014



930 pages

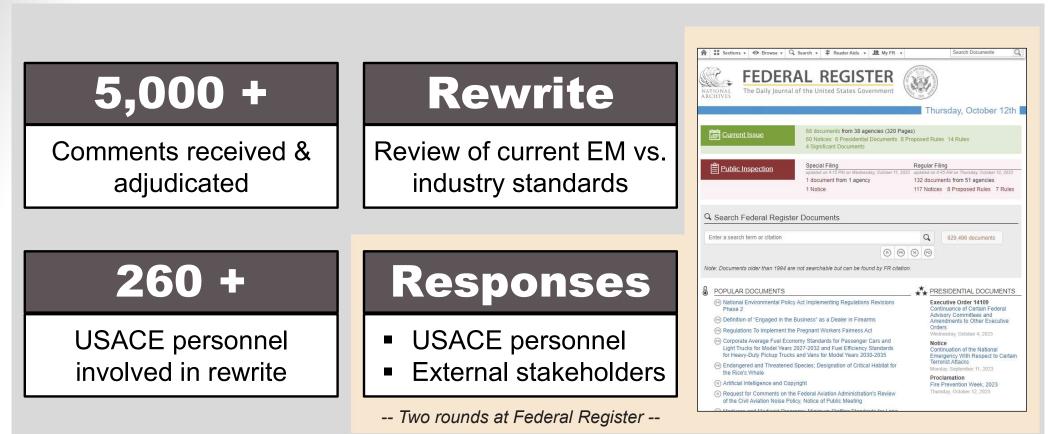
# **Better Alignment with: OSHA** Industry **Standard**







### **COMMENTS FOR EM 385-1-1 REWRITE**





#### **NEW TABLE OF CONTENTS**

Chapter 1:	Safety and Occupational Health Program Management for USACE Personnel						
Chapter 2:	Safety and Occupational Health Program Management for Contractors						
Chapter 3:	Medical and First Aid						
Chapter 4:	Temporary Facilities						
Chapter 5:	Personal Protective and Lifesaving Equipment						
Chapter 6:	Hazardous or Toxic Agents and Environments						
Chapter 7:	Lighting						
Chapter 8:	Accident Prevention Signs, Tags, Labels, Signals, and Traffic Control						
Chapter 9:	Fire Prevention and Protection						
Chapter 10:	Welding and Cutting						
Chapter 11:	Electrical						
Chapter 12:	Control of Hazardous Energy						
Chapter 13:	Hand and Power Tools						
Chapter 14:	Material Handling, Storage, Disposal, and Conveyors						
Chapter 15:	Rigging						
Chapter 16:	Load Handling Equipment						
Chapter 17:	Demolition, Renovation, and Re-Occupancy						
Chapter 18:	Vehicles, Machinery, and Mechanized Equipment						

Chapter 19:	Floating Plant and Marine Activities
Chapter 20:	Pressurized Equipment and Systems
Chapter 21:	Fall Protection
Chapter 22:	Working Platforms and Scaffolding
Chapter 23:	Rope Access   New Chapter
Chapter 24:	Safe Access
Chapter 25:	Excavation and Trenching
Chapter 26:	Underground Construction, Shafts, and Caissons
Chapter 27:	Concrete, Masonry, Roofing, and Wood Construction
Chapter 28:	Steel Erection
Chapter 29:	Blasting
Chapter 30:	Diving Operations
Chapter 31:	Tree Maintenance and Removal
Chapter 32:	Airfield and Aircraft Operations
Chapter 33:	Uncrewed Aircraft
Chapter 34:	Confined Space
Chapter 35:	Sanitation
Chapter 36:	Hazardous Waste Operations and Emergency Response
Chapter 37:	Emergency Operations    New Chapter

**NOTE**: Chapters in "BLUE" are new areas not previously included in the EM 385-1-1



#### **MAJOR HIGHLIGHTS**

#### UNIFORM SECTIONS PER CHAPTER

- XX-1. References
- XX-2. Definitions
- XX-3. Personnel Required Qualification / Training

**Numerous additions for clarity** 

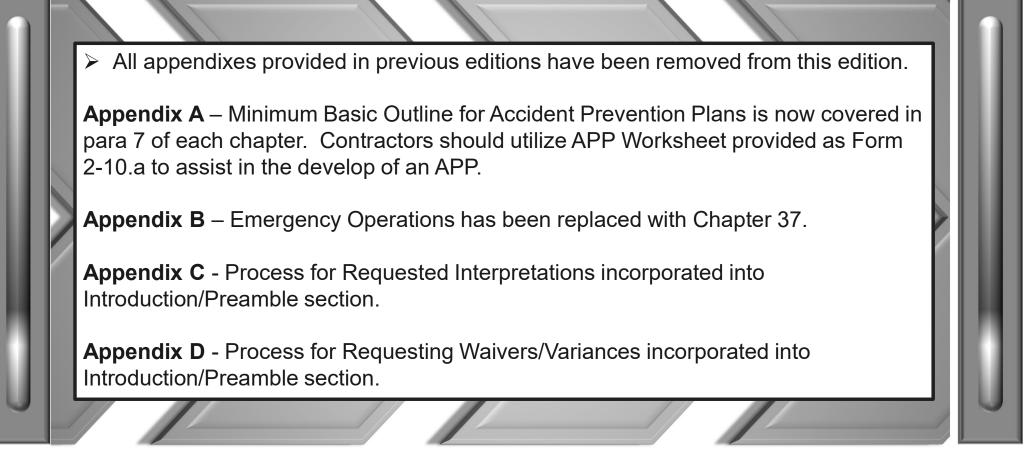
- XX-4. Roles and Responsibilities
- XX-5. Inspection Requirements
- XX-6. Activity Hazard Analysis (AHA) Requirements
- XX-7. Minimum Plan Requirements
- XX-8. General Requirements
- XX-9. Figures and Tables
- XX-10. Checklists and Forms

#### **2024 DESIGN FOR THE EM 385-1-1**



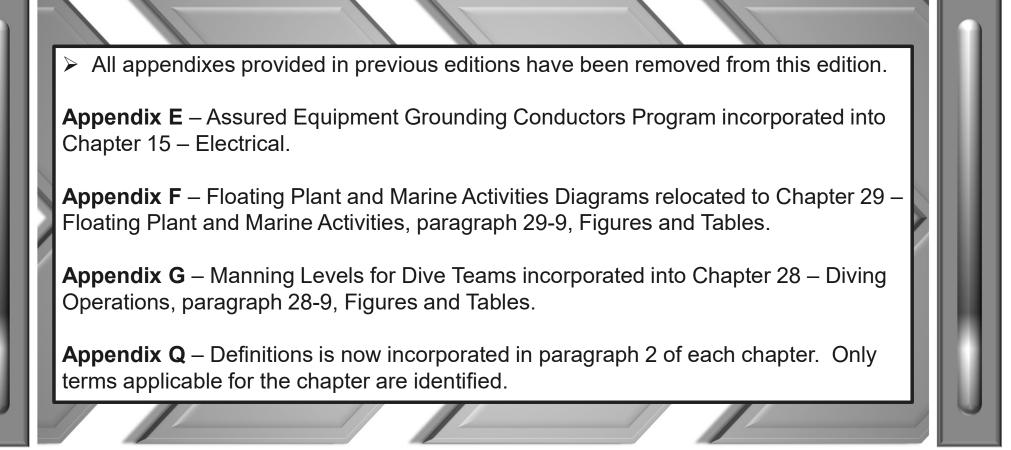


## **MAJOR HIGHLIGHTS**





## **MAJOR HIGHLIGHTS**





#### VARIANCES AND WAIVERS MOVED TO CH. 1 & 2

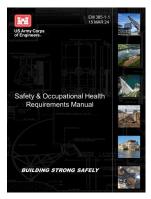
Requires the following actions:



Local SOH Office will review first, then MSC, then HQUSACE.



USACE Safety & Occupational Health Requirements Manual





#### PREAMBLE





#### **APPLICABILITY FOR EM 385-1-1**

#### **Construction contract work under the provisions of FAR Clause 52.236-13.**



Contractors must comply with the latest version of this manual (including interim changes) that is in effect on the date of solicitation. Prior to making an offer, bidders should check the HQUSACE Safety and Occupational Health website for the latest changes. No separate payment will be made for compliance with this paragraph or for compliance with other safety and health requirements of this contract.

*Note*. Existing contracts will continue to apply the provisions of the previous edition of this manual until contract completion.



#### Maintenance, service, research/development, and supply

Must comply with this manual. Compliance with this manual will be a contract requirement for all activities unless technical representatives (in coordination with local Safety and Occupational Health Office) advise that special precautions are not appropriate due to extremely limited scope of services or similar.



#### Hazardous, toxic, and radioactive waste site (HTRW) investigation, design, or remediation

Compliance with this manual will be a contract requirement.

#### **CITATION INSTRUCTIONS**

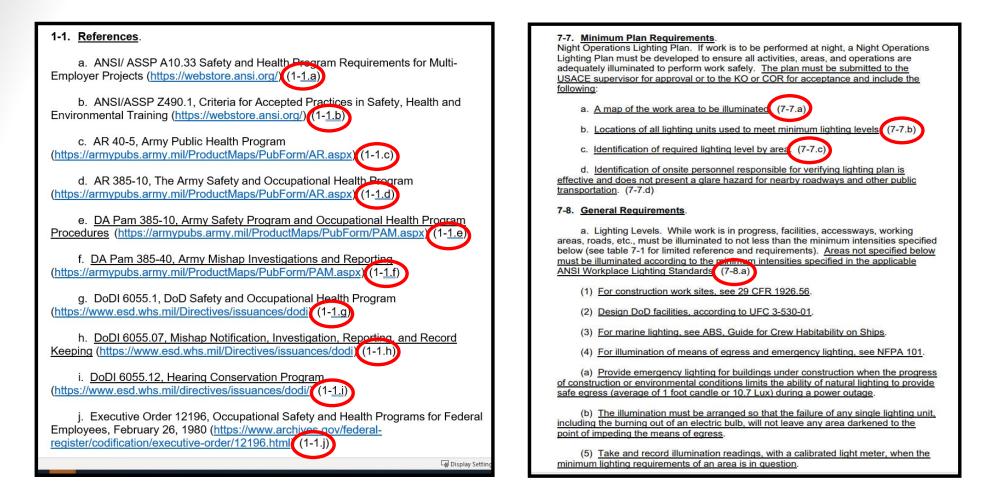
This manual uses citations to allow the user to quickly navigate each chapter and paragraphs. The citations start with the chapter number, then paragraph number, followed by a letter corresponding to the sub-paragraph.

For example, 10-3.b means chapter 10, paragraph 3, first subparagraph b.

https://www.publications.usace.army.mil/



#### **CITATIONS**



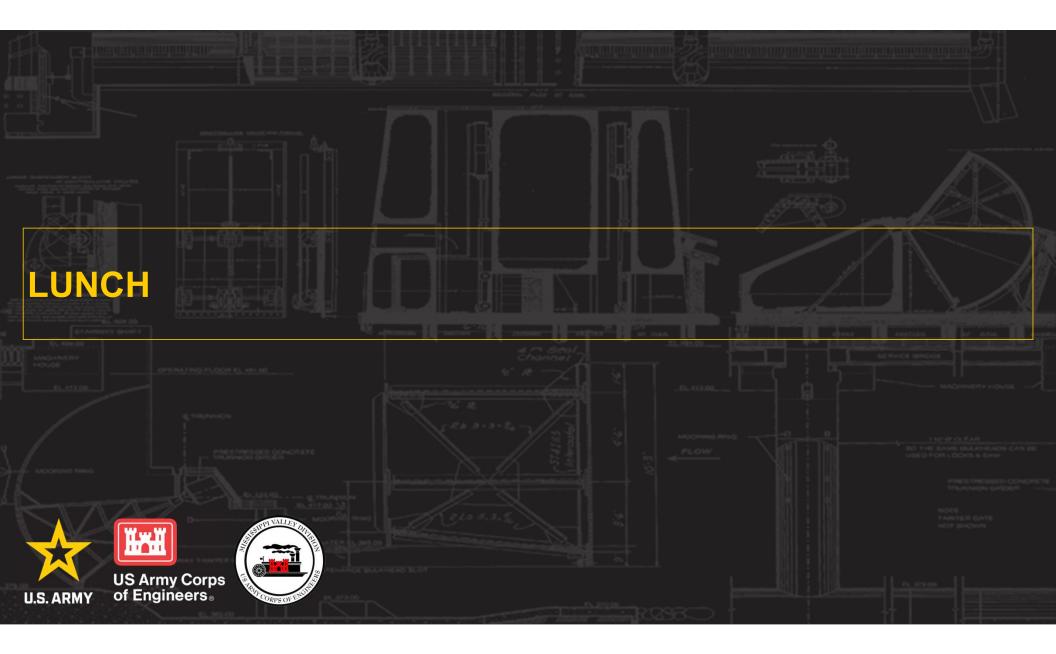


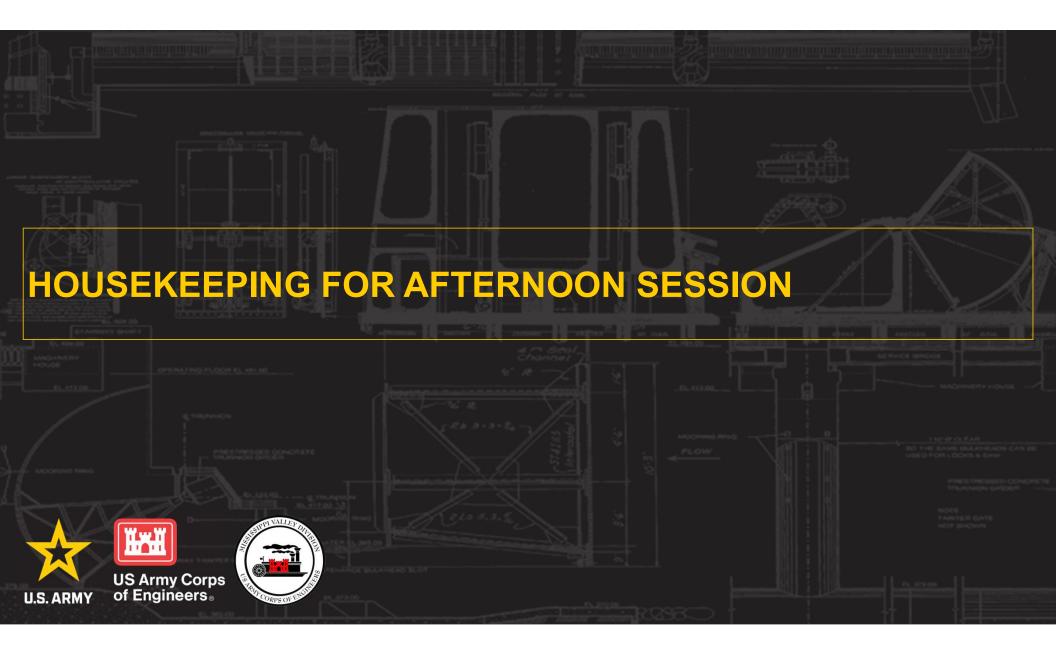
#### ACCESSING EM 385-1-1

Updated content will be accessible to all stakeholders that includes the following formats:



**FUTURE COMMENTS:** Website for providing feedback for continuous improvement(s)





# SOCIETY OF AMERICAN MILITARY ENGINEERS (SAME) PRESENTATIONS

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## CLOSING REMARKS

COL Cullen Jones District Engineer & Commander



US Army Corps of Engineers

### THANK YOU FOR JOINING US

