

**American River Flood Control District  
North Sacramento Streams (NSS) Project Turnover  
Staff Report**

**Discussion:**

The Sacramento Area Flood Control Agency (SAFCA) developed and constructed flood improvements along both sides of Arcade Creek and completed the work in 2021. As part of their effort, the American River Flood Control District was asked to give assurances that the completed project works would be Operated and Maintained to all State and Federal Standards. The District Board of Trustees accepted O&M responsibilities and gave the required assurances by signing the NSS Operations, Maintenance, Repair, Rehabilitation and Replacement (OMRR&R) Agreement in September 2019.

After completion of the project, SAFCA developed an updated O&M Manual to be submitted to and approved by the U.S. Army Corps of Engineers (USACE). The USACE reviewed the updated O&M Manual and approved it in January 2023. At that time the USACE turned the project over to the State of California Central Valley Flood Protection Board (CVFPB). The CVFPB will be the owner of the project works and plans to formally turnover O&M responsibility of the project to the District at their March 2023 meeting.

Attached for the Board's information is a presentation from CVFPB staff given to the CVFPB at their meeting in February 2023 that details the project timeline and turnover process.

**Recommendation:**

The General Manager recommends that the Board of Trustees receive and file this report.



**Agenda Item 10.C**  
**CVFPB MEETING ON FEBRUARY 24, 2023**

**Transfer of Operation and Maintenance  
Responsibilities  
North Area Streams Levee Improvement Project**

**INFORMATIONAL BRIEFING**

**SELVA SELVAMOHAN, SACRAMENTO LEVEES SECTION CHIEF  
FLOOD SYSTEM IMPROVEMENT BRANCH**

# Presentation Outline

- ◎ Overview
- ◎ Project Location
- ◎ Project Background
- ◎ Project Features and Permits
- ◎ Construction Photos
- ◎ USACE Transfer of OMRR&R
- ◎ Next Steps

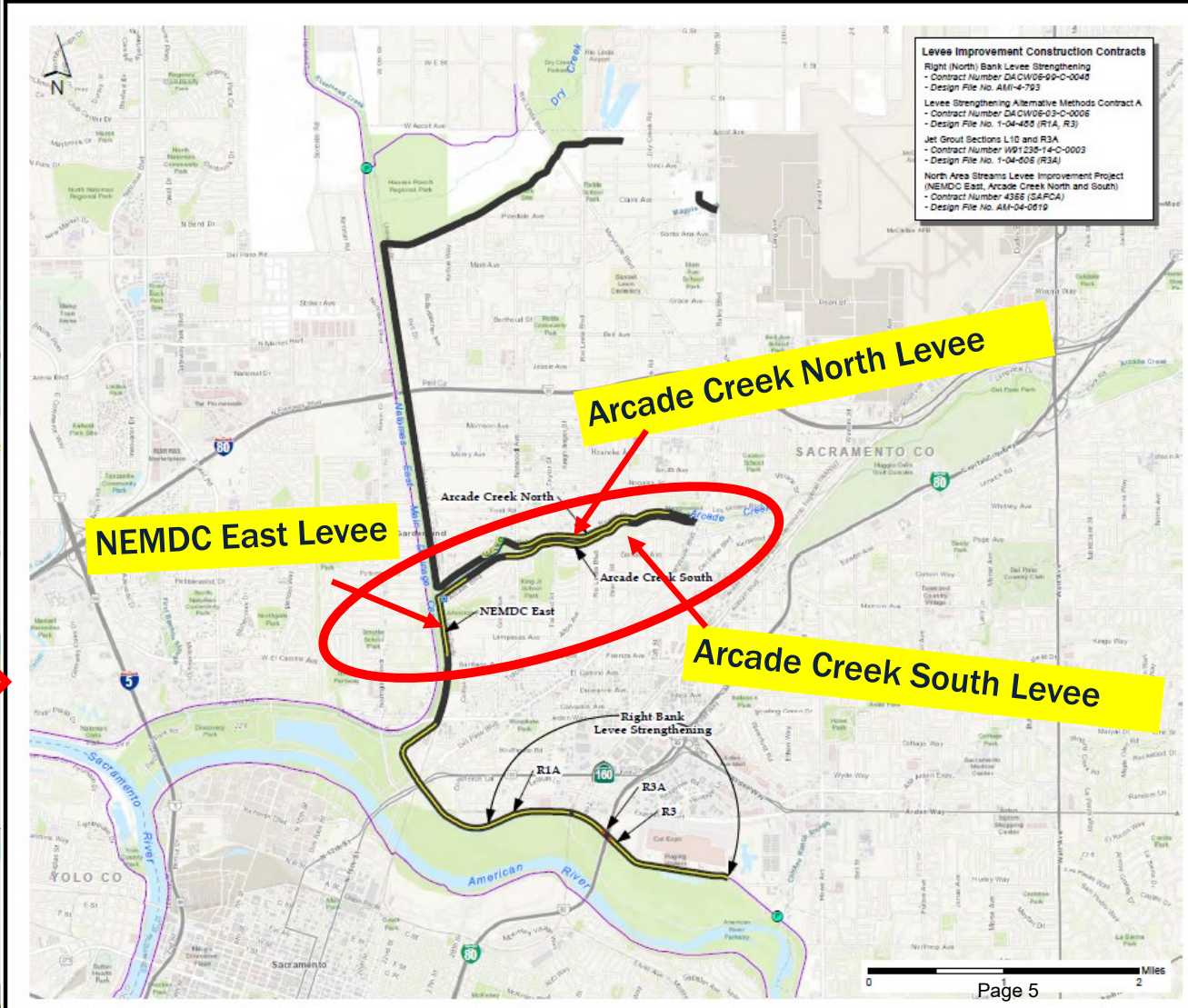
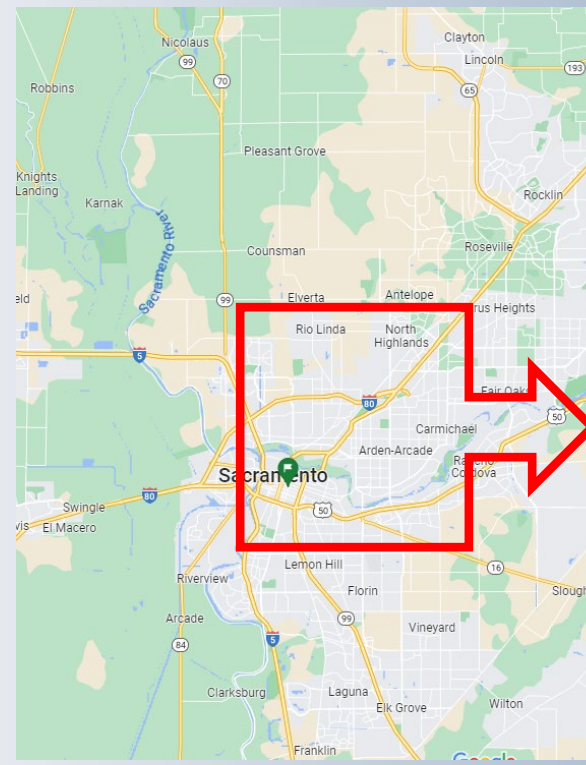


# Overview



- ◎ Sacramento Area Flood Control Agency (SAFCA) led the North Area Streams (NAS) Levee Improvement Project
- ◎ The construction was completed by SAFCA in 2021
- ◎ Supplement to Standard O&M Manual Unit 118, Part 2 was turned over to the Board by USACE in January 2023
- ◎ Assurance agreements allow the transfer the O&M responsibility to the local maintaining agency (LMA) – American River Flood Control District

# Project Location



# Project Background



- The NAS project was initiated and advanced by SAFCA ahead of the Federal Authorization of WRDA 2016.
- The NAS project includes approximately 3.7 miles of levee improvement along Arcade Creek and NEMDC East levees.
- The project was funded through the Urban Flood Risk Reduction Program and cost shared 70/30 between State and Local.
- The Board approved the encroachment permit (19055) in 2017.
- The construction took place between 2017 and 2021.
- Board staff received the OMRR&R update in January 2023.
- American River Flood Control District (ARFCD) Operates and Maintains the NAS levees

# Major Project Features



- Approximately 2,350 feet of cutoff wall along NEMDC East Levee
- Approximately 6,485 feet of cutoff wall along South side of Arcade Creek
- Approximately 6,100 feet of cutoff wall along North side of Arcade Creek
- Installation of 14 relief wells
- Installation of drainage trench at a pump station

# Permits - 2017



## Board Permit

## 408 Authorization

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
**THE CENTRAL VALLEY FLOOD PROTECTION BOARD**

PERMIT NO. 19055 BD

This Permit is issued to:

Sacramento Area Flood Control Agency  
1007 7th Street, 7th Floor  
Sacramento, California 95814

The North Sacramento Streams (NSS) Levee Improvement Project consists of installing approximately 2,350 feet of cutoff wall along Natomas East Main Drainage Canal (NEMDC) East Levee downstream of Arcade Creek; approximately 6,485 feet of cutoff wall along Arcade Creek South Levee between NEMDC East Levee and Marysville Blvd; approximately 6,100 feet of cutoff wall along Arcade Creek North Levee between Norwood Ave and Marysville Blvd along with 14 relief wells downstream of Norwood Ave.

The project is located along Arcade Creek between Norwood Avenue and Marysville Blvd., at 38.62616°N 121.44624°W, American River Flood Control District, Dry Creek, Sacramento County, CA.

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: JUN 21 2017

  
Executive Officer

Exhibit A



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT  
1325 J STREET  
SACRAMENTO, CALIFORNIA 95814-2922

Executive Office

JUN 07 2017

Ms. Leslie M. Gallagher  
Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 170  
Sacramento, CA 95821


Dear Ms. Gallagher:

Pursuant to U.S.C. Title 33, Chapter 9, Subchapter 1, Section 108, the Director of Civil Works for the U.S. Army Corps of Engineers has approved your request to alter the Federal flood risk reduction project, Sacramento River Flood Control Project, by constructing the *North Sacramento Streams Levee Improvement Project, Sacramento County, California, included in encroachment permit number 19055*. It has been determined that such alteration will not be injurious to the public interest and will not impair the usefulness of the project works as described in the Final Environmental Assessment. Permission has been granted for you to alter the Natomas East Main Drainage Canal and Arcade Creek levees as shown in the 100% design and specifications, *Sacramento Area Flood Control Agency, North Area Streams Levee Improvement Project, NEMDC East Levee - STA 3028+00 to STA 3053+00, Arcade Creek South Levee - STA 4000+00 to STA 4084+00, and Arcade Creek North Levee - STA 5023+00 to STA 5101+00 (August 2016)*.

The North Sacramento Streams project consists of 3.3 miles of slurry cutoff walls, relief wells and waterside slope replacement along the Natomas East Main Drainage Canal east levee, Arcade Creek north levee, and the Arcade Creek south levee. As a condition of this permission, the Central Valley Flood Protection Board is required to comply with the special conditions provided in the attached enclosures. This letter of permission does not authorize you to take any threatened or endangered species or designated critical habitat, except to the extent allowed under Special Condition A.

My point of contact for this action is Mr. Ryan Larson, Chief, Flood Protection and Navigation Section. He may be reached at 916-557-7568 or by emailing Ryan.T.Larson2@usace.army.mil.

Sincerely,

  
David O. Ray, P.E.  
Colonel, U.S. Army  
District Commander



# Project Solicitation - 2017



## SACRAMENTO AREA FLOOD CONTROL AGENCY

### PROJECT PLANS FOR CONSTRUCTION OF NORTH AREA STREAMS LEVEE IMPROVEMENT PROJECT

NEMDC EAST LEVEE - STA 3028+00 TO STA 3053+00  
 ARCADE CREEK SOUTH LEVEE - STA 4000+00 TO STA 4084+00  
 ARCADE CREEK NORTH LEVEE - STA 5023+00 TO STA 5101+00

VOLUME 2 OF 3



LOCATION MAP  
NOT TO SCALE

LIST OF CONTRACT VOLUMES:

- VOLUME 1 GENERAL CONDITIONS, SPECIAL PROVISIONS, TECHNICAL SPECIFICATIONS, STANDARD FORMS, REFERENCES, PROPOSAL
- VOLUME 2 LEVEE IMPROVEMENT PLANS
- VOLUME 3 GEOTECHNICAL DATA REPORT AND BORROW SITE DATA REPORT

SAFCA Contract No. 4355

SUBMITTED FOR APPROVAL BY: [Signature] DATE: 11/30/16  
JASON D. CAMPBELL  
 DISTRICT EXECUTIVE DIRECTOR  
 SACRAMENTO AREA FLOOD CONTROL AGENCY

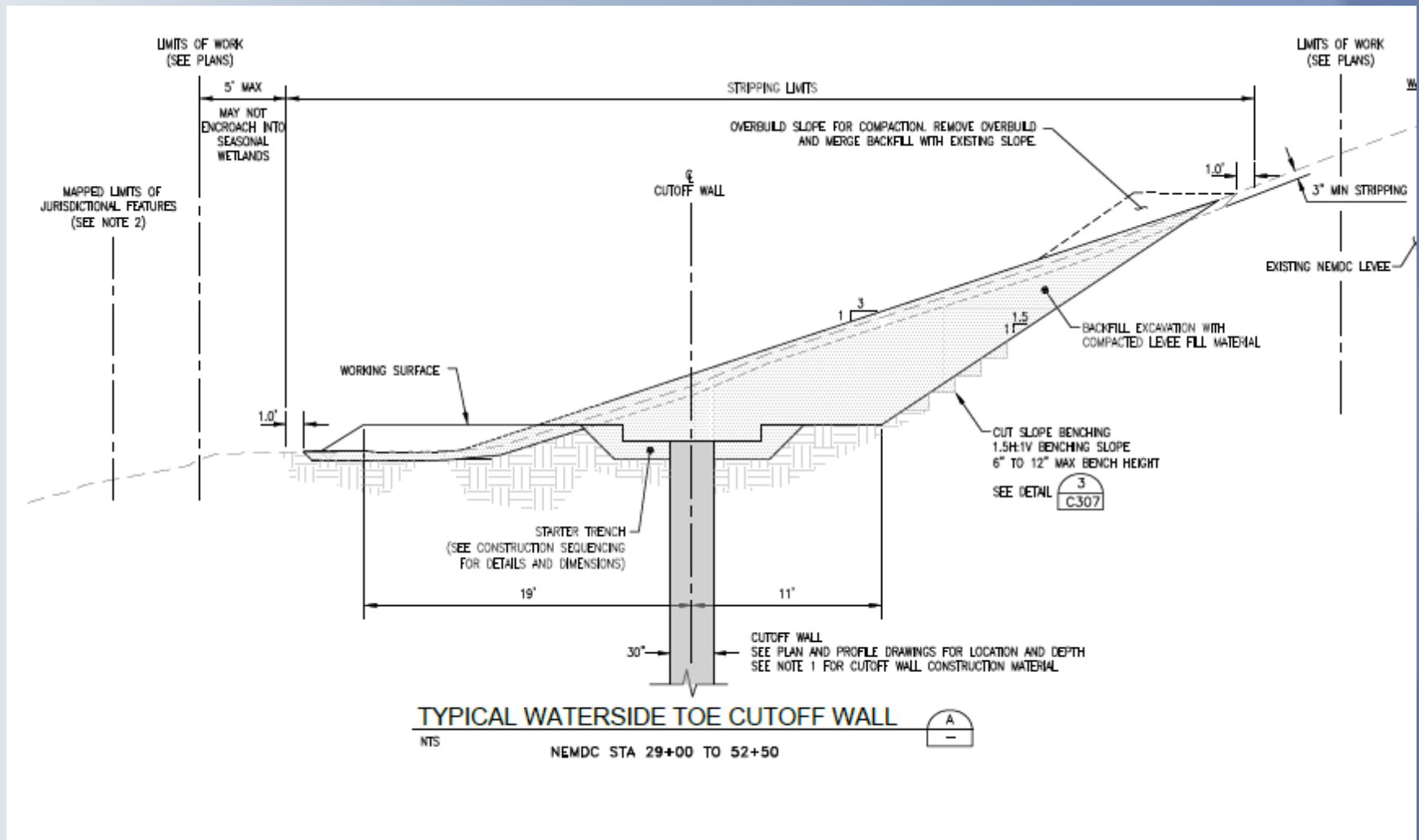
APPROVAL BY: [Signature] DATE: 11/30/16  
PETE GHELFI  
 DIRECTOR OF ENGINEERING  
 FEDERAL AND STATE PROGRAMS  
 SACRAMENTO AREA FLOOD CONTROL AGENCY

APPROVAL BY: [Signature] DATE: 11/30/16  
TIM KERR, PE  
 GENERAL MANAGER  
 AMERICAN RIVER FLOOD CONTROL DISTRICT

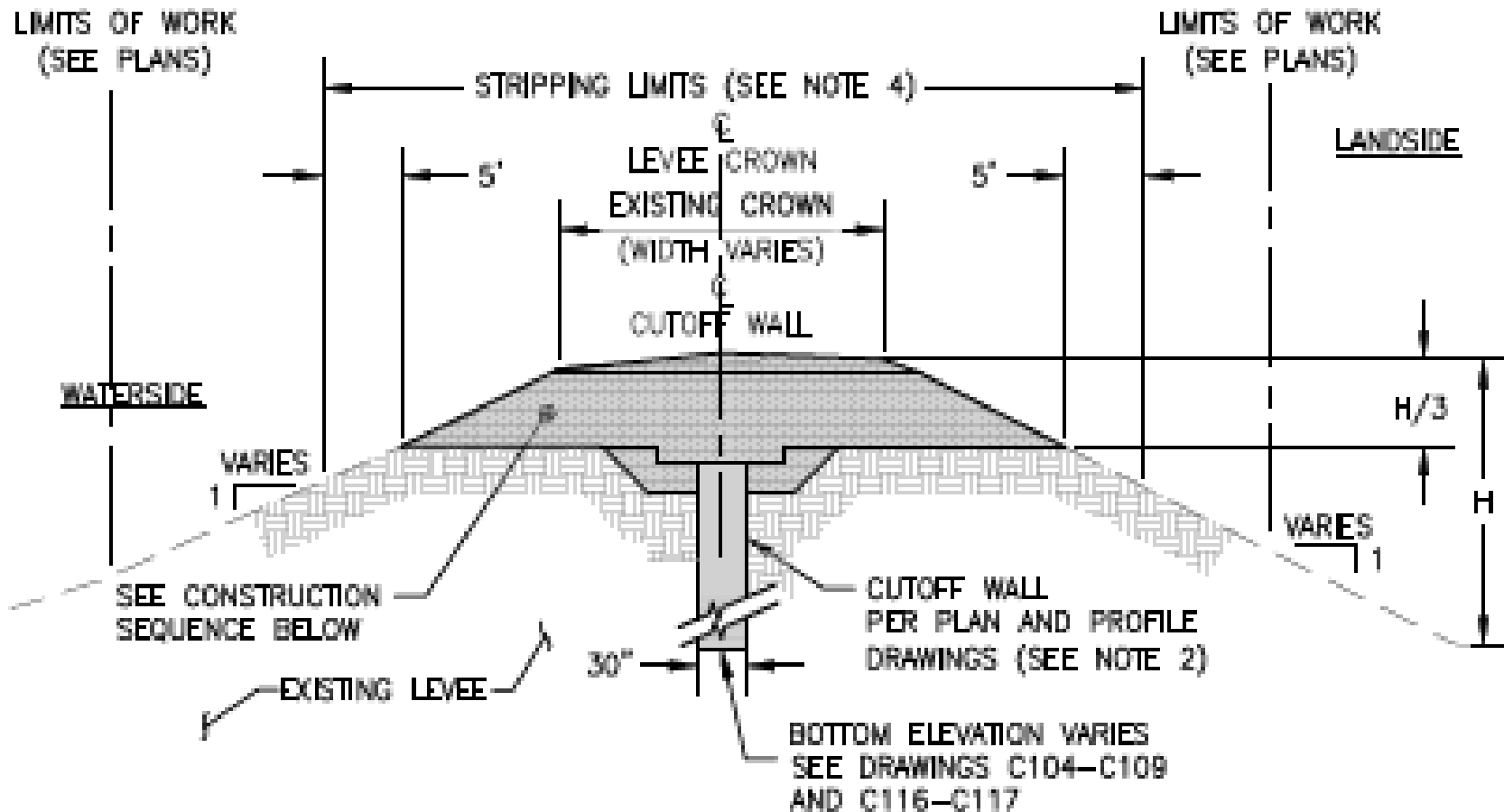
APPROVAL BY: [Signature] DATE: 11/30/2016  
PAUL DEVEREUX  
 DISTRICT ENGINEER/GENERAL MANAGER  
 RECLAMATION DISTRICT 1000

ISSUED FOR BID

# Project Features



# Project Features



## OPEN TRENCH CONSTRUCTION METHOD

NTS



# Construction Activities



**NEMDC Haul road, looking south toward Main St. Bridge**

# Construction Activities



**Contractor Preparing Working Pad for Slurry Wall Construction**

# Construction Activities



**Degrade near Rio Linda Blvd.**

# Construction Activities



**Excavation of Starter Trench**

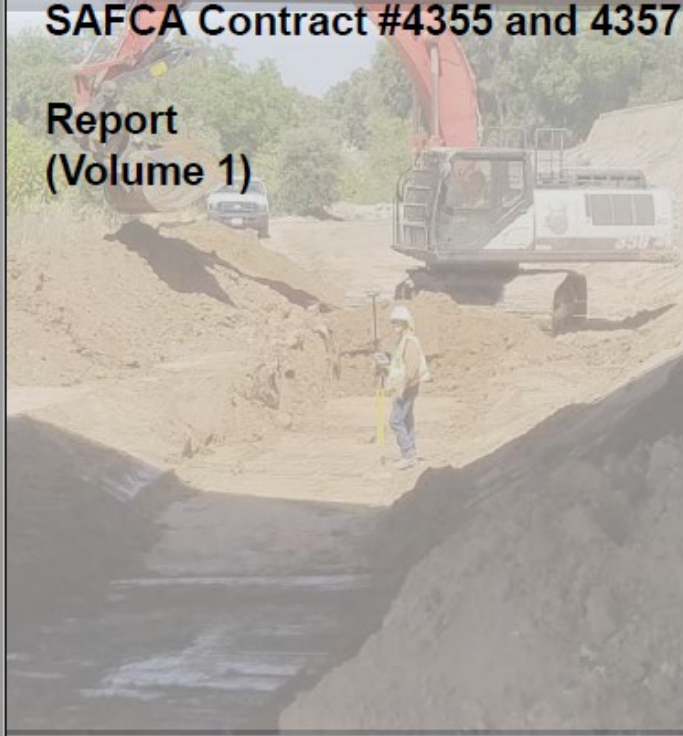
# North Area Streams Levee Improvement Project Sacramento County, CA

## Construction Completion Report February 2021



### SAFCA Contract #4355 and 4357

### Report (Volume 1)



# SAFCA Project Completion Report - Feb. 2021





# USACE Transfer of OMRR&R to Board – Jan. 2023



**US Army Corps of Engineers®**




118-118  
 Revised 28 Jan 2023  
 Gene Snow  
 Office Copy  
 # 77

RETURN TO  
 Flood Project  
 Inspection Section

SUPPLEMENT TO STANDARD  
 OPERATION AND MAINTENANCE  
 MANUAL  
 SACRAMENTO RIVER  
 FLOOD CONTROL PROJECT

UNIT NO. 118 - PART NO. 2  
 NORTH LEVEE OF AMERICAN RIVER  
 EAST LEVEE OF NATOMAS CANAL  
 BOTH LEVES OF ARCADE CREEK  
 SOUTH LEVEE OF LINDA CREEK AND  
 MAGPIE CREEK DIVERSION CHANNEL — SEE  
 APP. #370



U. S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 SACRAMENTO, CALIFORNIA

# Next Steps



- ◎ Board staff will bring an approval package for the Board to consider at a future Board meeting which:
  - Accepts the completed work and O&M responsibility.
  - Transfers the O&M responsibility to ARFCD.
  - Delegates the Executive Officer to execute the transfer letter.



Item

**Thank you!**