

APPLICATION NO. 18905

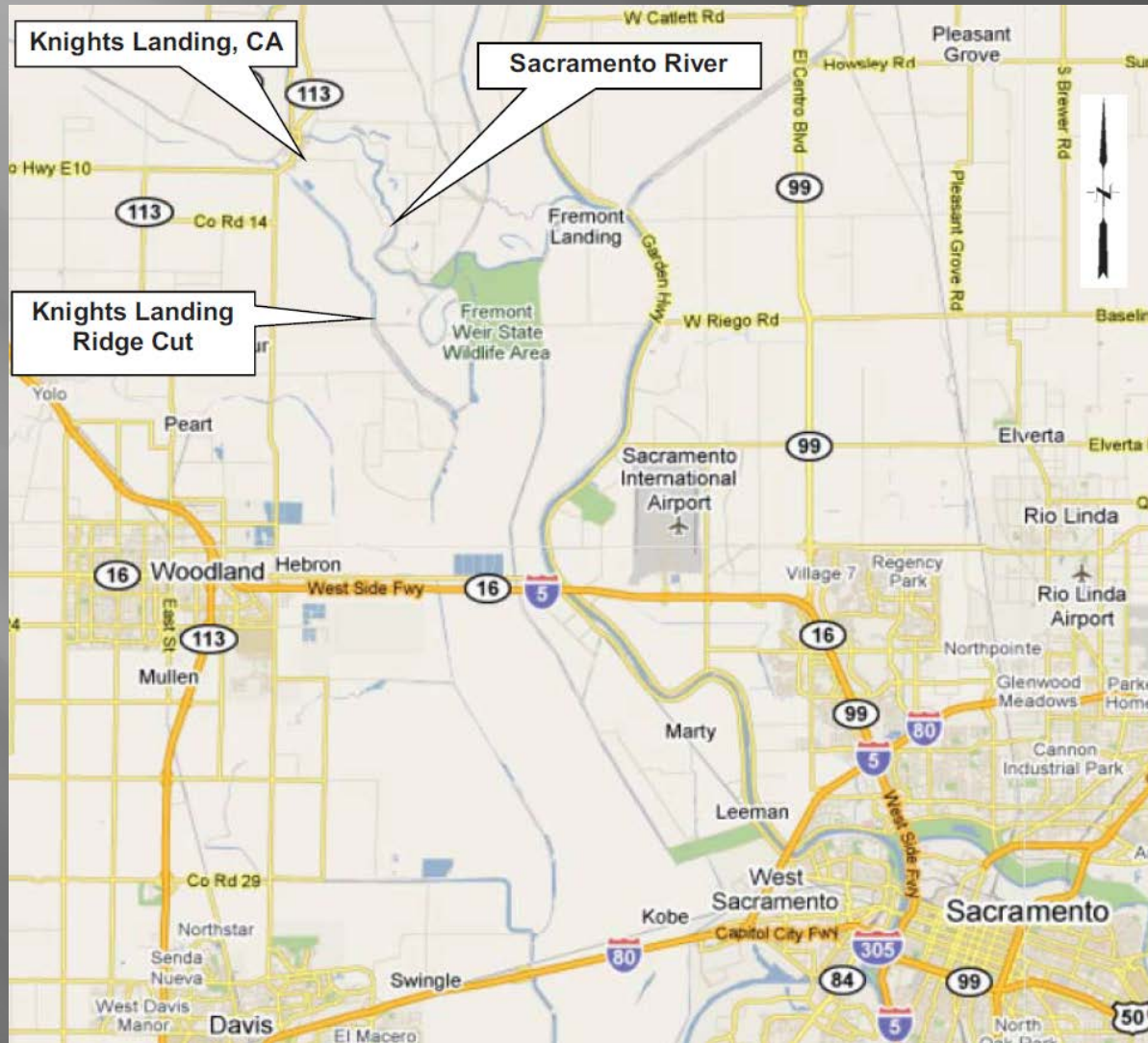


KNIGHTS LANDING RIDGE CUT (KLRC) PROJECT

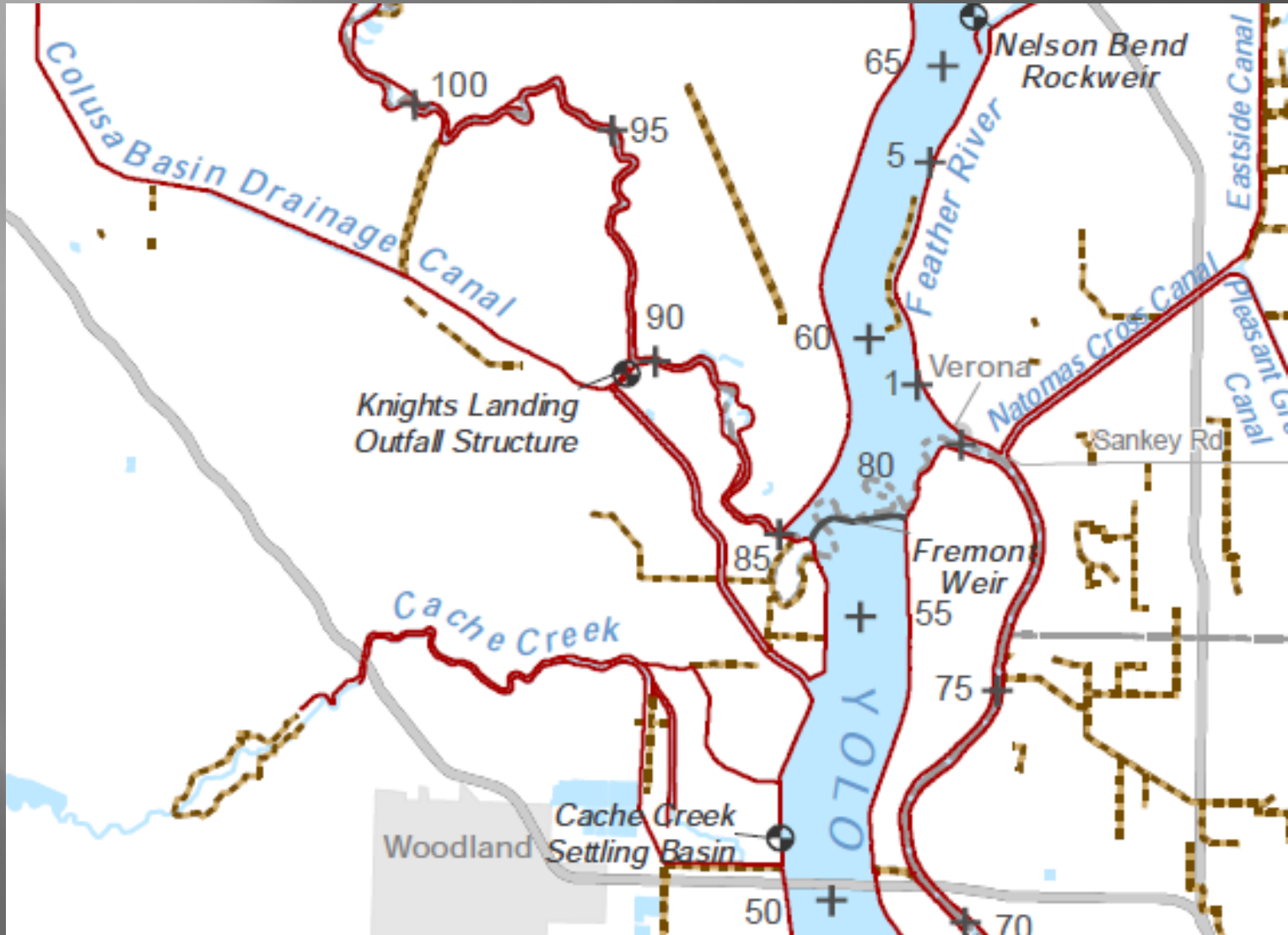
(Agenda Item No. 11B)

May 23, 2014

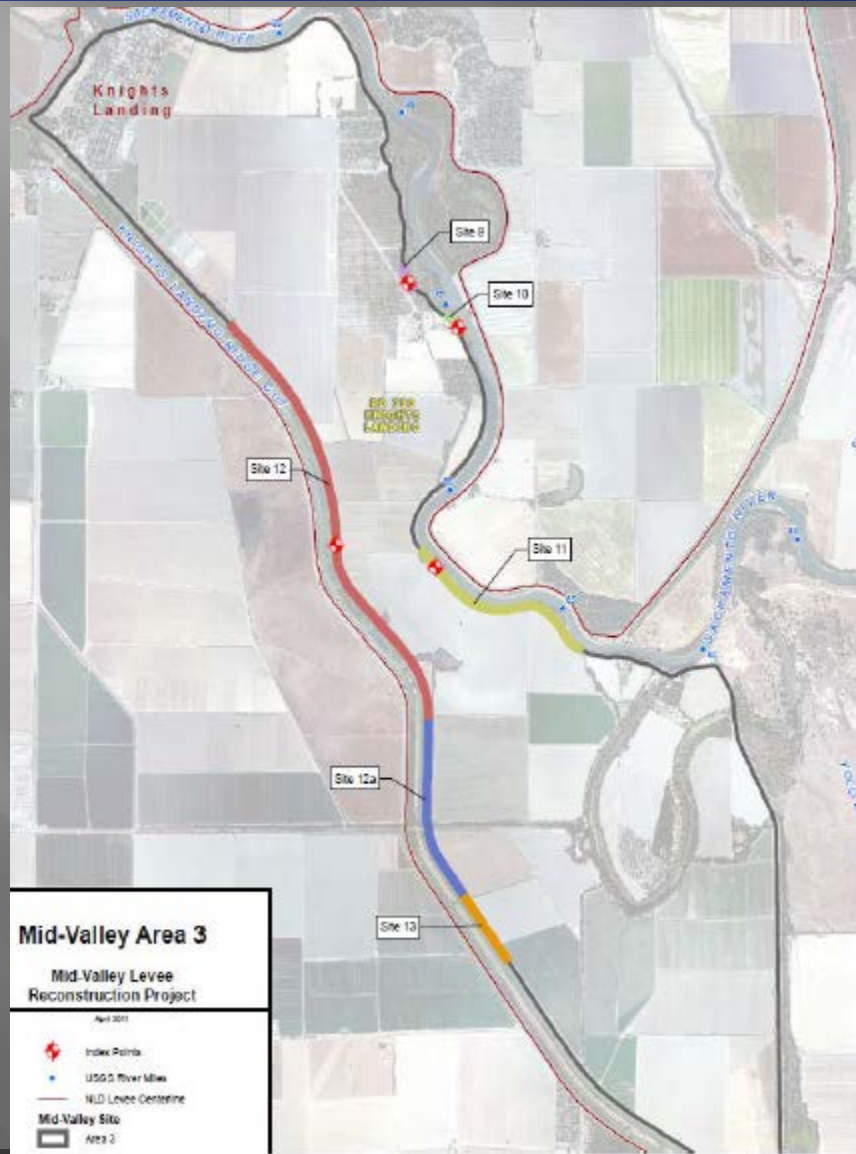
PROJECT LOCATION



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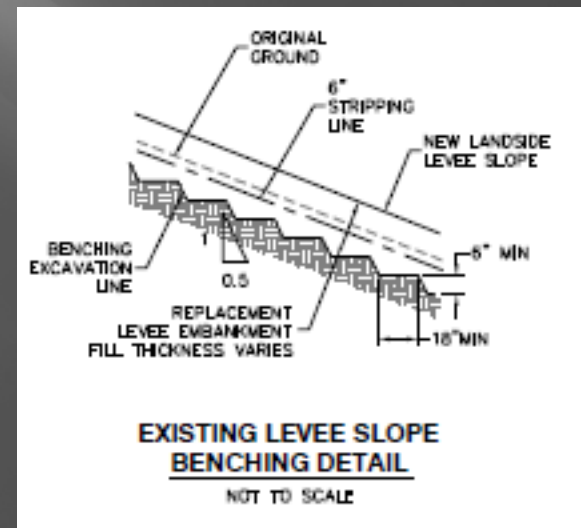
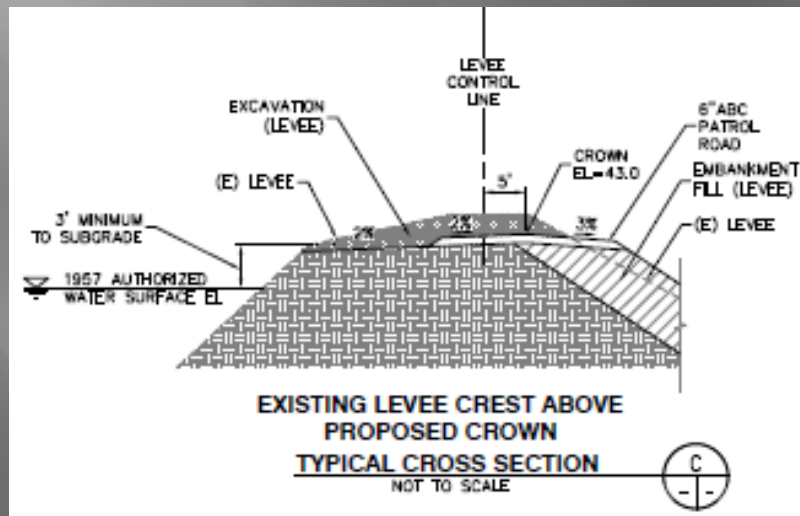
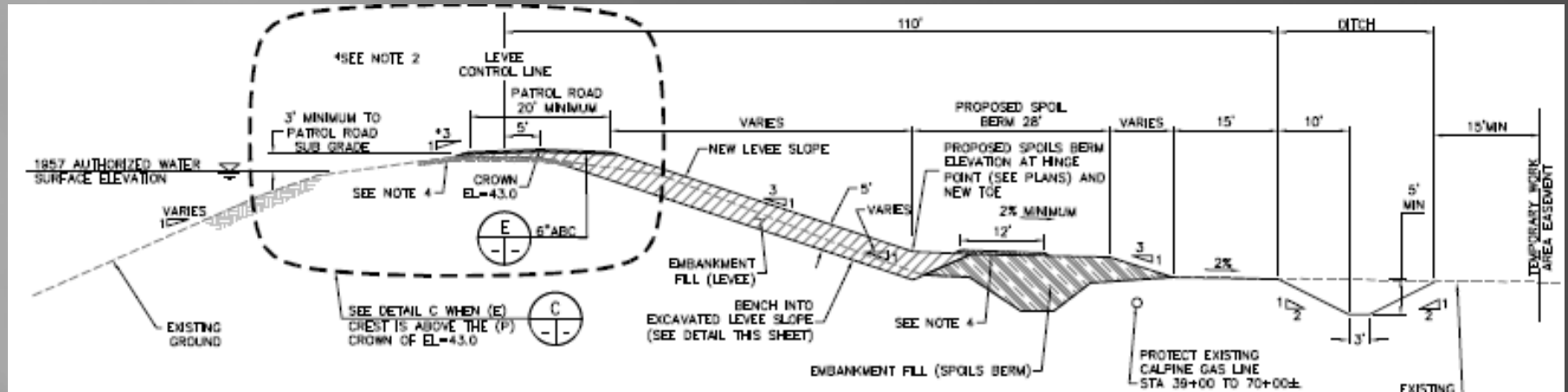
BOARD ACTION

Consider approval of Permit No. 18905 to:

Improve approximately 3.5 miles of levee along the left (east) bank of the KLRC including:

- 18,035 feet of **levee crown, landside slope remediation**, and levee crown **patrol road** (from Stations 0+00 to 182+00)
- Relocation of a **drainage ditch** parallel to the levee
- **Access ramps and ditch crossings** for private use to adjacent landowners
- **Demolition and replacement of three drainage discharge pipes** at Stations 18+26.00, 42+46.49, and 126+24.90.
- Construction of an **access road** on the landside spoil berm parallel to the levee.

Typical Cross Section



AUTHORITY OF THE BOARD



I. California Code of Regulations, Title 23, Division 1

- § 6, Need for a Permit
- § 106, Existing Encroachments within an Adopted Plan of Flood Control
- § 116, Borrow and Excavation Activities
- § 120, Levees
- § 121, Erosion Control
- § 123, Pipelines, Conduits and Utility Lines
- § 124, Abandonment of Pipelines
- § 130, Patrol roads and Access Ramps
- § 131, Vegetation
- § 108, Existing Encroachments

II. California Water Code, Division 5, Part 4, Chapters 3 and 4

III. Rivers and Harbors Act of 1899, Title 33, § 408 (Section 408)

COMMENTS & ENDORSEMENTS



- USACE Sacramento District **Letter of Permission (LOP)** – April 17, 2014 (Attachment C, Exhibit A)
- KLRDD LMA Letter of **Endorsement** April 24, 2014 (Attachment C, Exhibit B)



PROJECT BACKGROUND

- August 16, 1996 – USACE approved the SRFCP, California, **Mid-Valley Area**, Phase III Design Memorandum/EA-IS, June 1996 (DM/EA-IS 1996)
- April 18, 2013 – the USACE completed the Final **Environmental** Assessment/Initial Study and a NEPA **Finding of No Significant Impact** (FONSI) was signed by the USACE Sacramento District Commander
- July 26, 2013 – Board adopted **Resolution 2013-11**, certified the Mitigated Negative Declaration, and made findings pursuant to CEQA
- September 24, 2013 – CVFPB received KLRDD **408 application**
- November 22, 2013 – Board approved Section 408 Request to USACE
- November 24, 2013 – USACE received the Section 408 Request
- December 20, 2013 – The **LOI** to develop and implement **SWIF** was approved by the Board. LOI is currently under review by USACE.
- April 1, 2014 – KLRDD submitted a **permit application** and supporting documentation to the Board to construct Project Sites 12, 12A and 13
- April 17, 2014 – **LOP** issued by USACE Sacramento District for 408 request , as attached to the Permit
- April 24, 2014 – KLRDD LMA letter of **endorsement** , as attached to the Permit

PROJECT BENEFITS



The proposed project is consistent with the adopted 2012 CVFPP. The benefits of levee repairs are to:

- Address existing geotechnical performance concerns associated with slope stability
- Reduce the risk of flooding and its impacts to human health, safety, and welfare
- Improve existing facilities of the SPFC
- Protect farmland, agricultural commodities, and agricultural infrastructure for this crucial agricultural region
- Restore the original design level of flood protection as authorized by the USACE

TECHNICAL REVIEW SUMMARY



Hydraulic Summary :

- The proposed repairs will occur on the landside of the levee and will have no impact on the existing KLRC channel hydraulics.
- The levee crown will be restored to 1957 SRFCP WSE profile published by the USACE plus a minimum of 3 feet of freeboard by filling low spots and removing excess material .

Geotechnical Summary :

- The landside slope will be reconstructed with a slope inclined at 3 horizontal to 1 vertical (3H:1V) and covered with a minimum five-foot thickness perpendicular to the landside face.
- Borrow material: A stockpile of clean sediments located in the Yolo Bypass adjacent to Fremont Weir (commonly referred to as Mount Meixner) was identified as the borrow source for the project.
- Based on KLRDD documents staff expects no adverse impacts

Borrow Site



CEQA / WATER CODE 8610.5



- The **CEQA Analysis** is included in **Staff Report Section 8.0**
 - A NEPA Finding of No Significant Impact (FONSI) was signed on April 18, 2013, by the USACE Sacramento District Commander
 - The Board adopted Resolution 2013-11, certified the Mitigated Negative Declaration, and made findings pursuant to CEQA at the July 26, 2013 Board public hearing for Sacramento River Flood Control System Evaluation Phase III, Mid-Valley, Contract Area 3 Project, and filed a Notice of Determination with the State Clearinghouse on August 2, 2013
- The **Water Code § 8610.5** Considerations are included in **Resolution 2014-12**

STAFF RECOMMENDATION (1/2)



Board Staff is Recommending that the Board:

Adopt (in substantially the form provided):

- **Resolution 2014-12** (including CEQA findings and Water Code 8610.5 Considerations)

Approve:

- Draft Flood System Improvement **Permit No. 18905**, pursuant to permission granted by the USACE Sacramento District through its Section 408 Letter of Permission dated April 17, 2014; and

Delegate:

- Authority to the Executive Officer to make **minor changes** to the permit after issuance, in consultation with the legal counsel, to incorporate future non-substantive design changes proposed by KLRDD. But if substantive changes to the permit are proposed the Board staff will bring those changes to the Board at a future meeting to seek approval; and

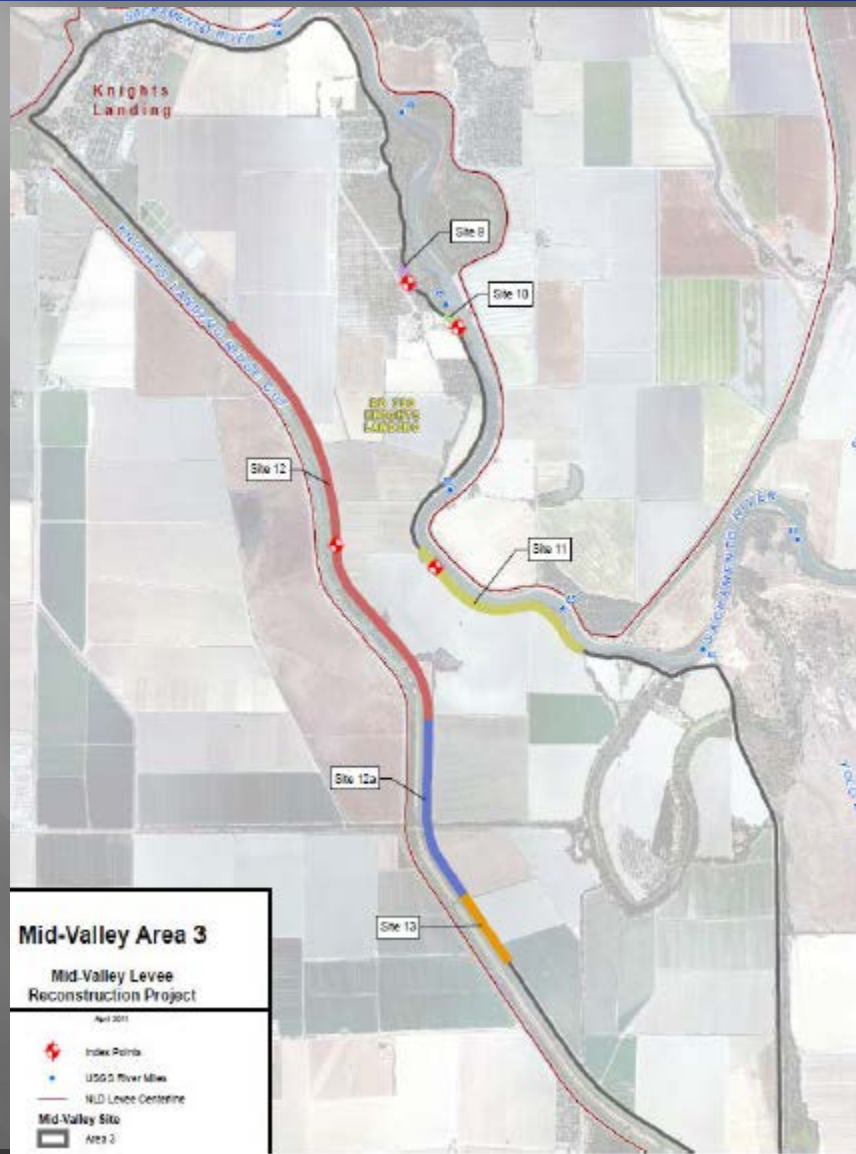
STAFF RECOMMENDATION (2/2)



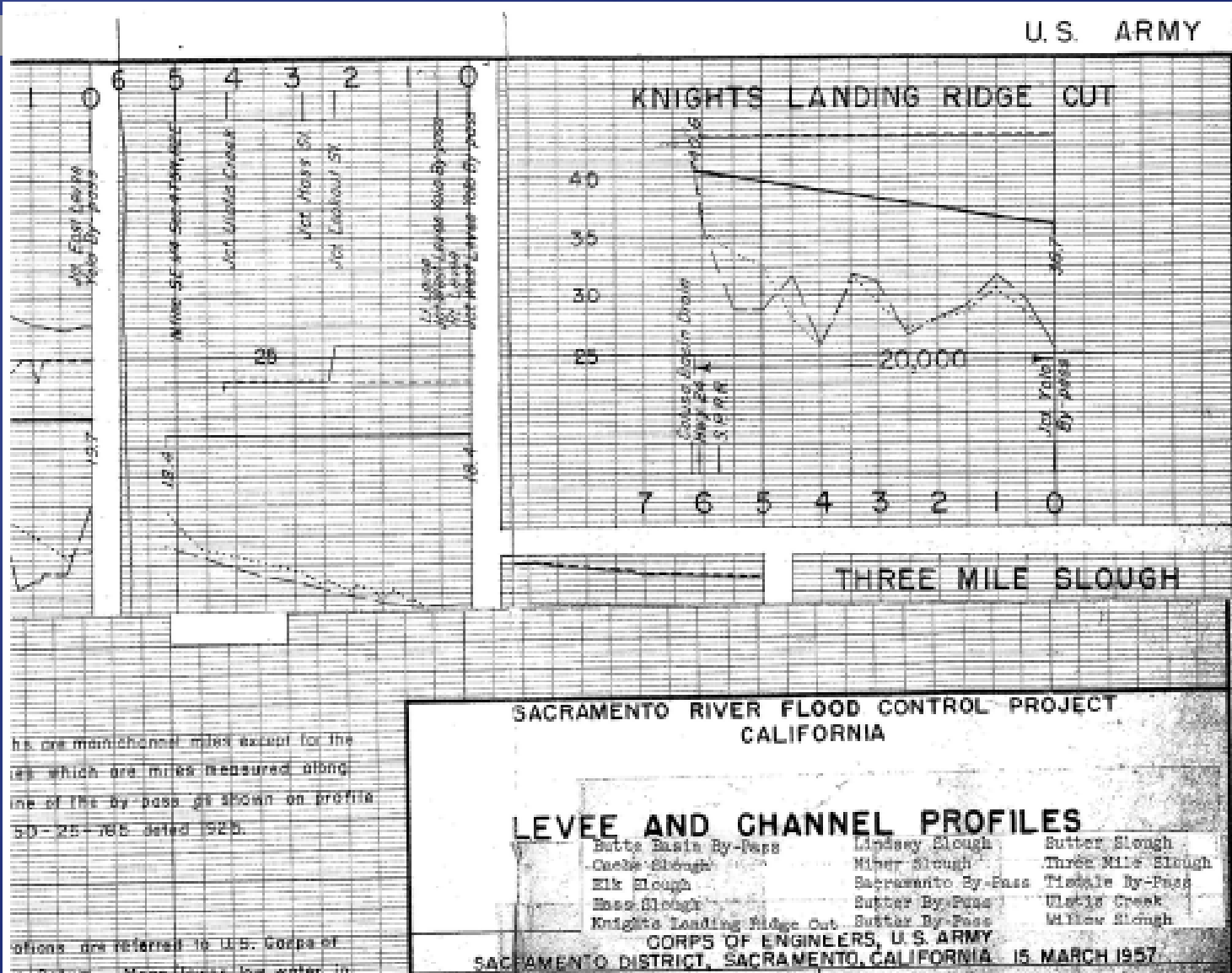
Direct the Executive Officer:

- To take the necessary actions to prepare and **execute Permit No. 18905** and all related documents, and to **prepare and file a Notice of Determination pursuant to CEQA with the State Clearinghouse.**

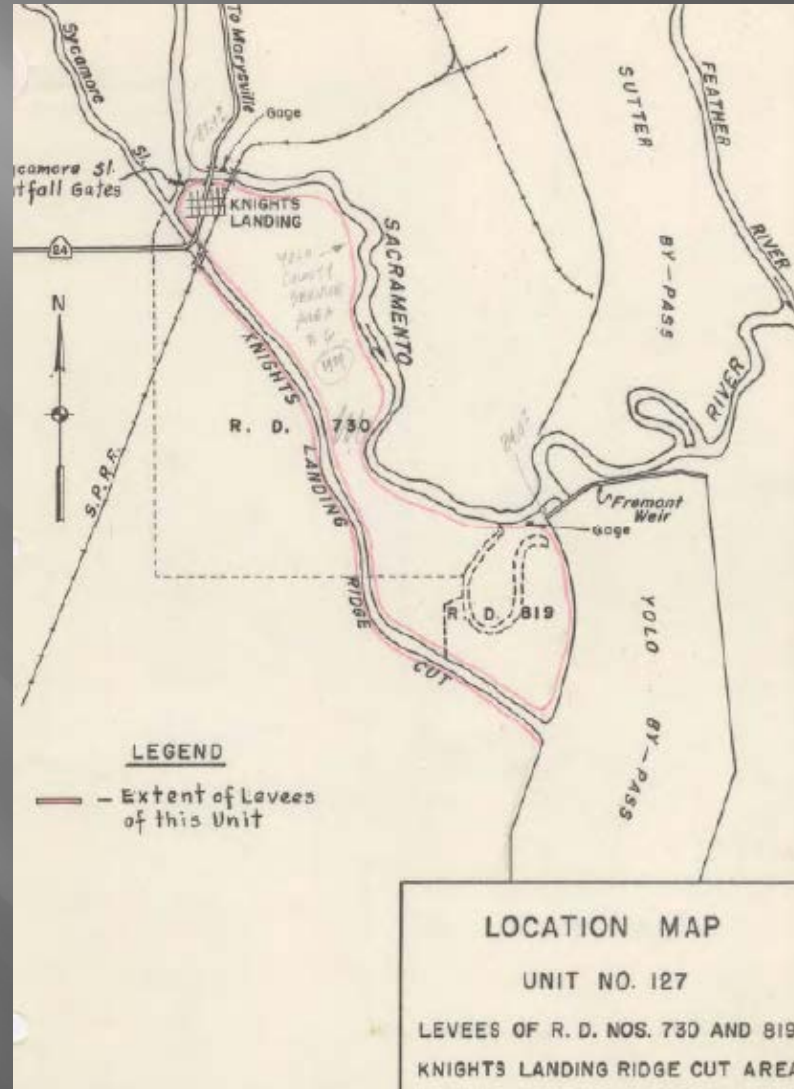
Thank You



1957 Water Surface Profile

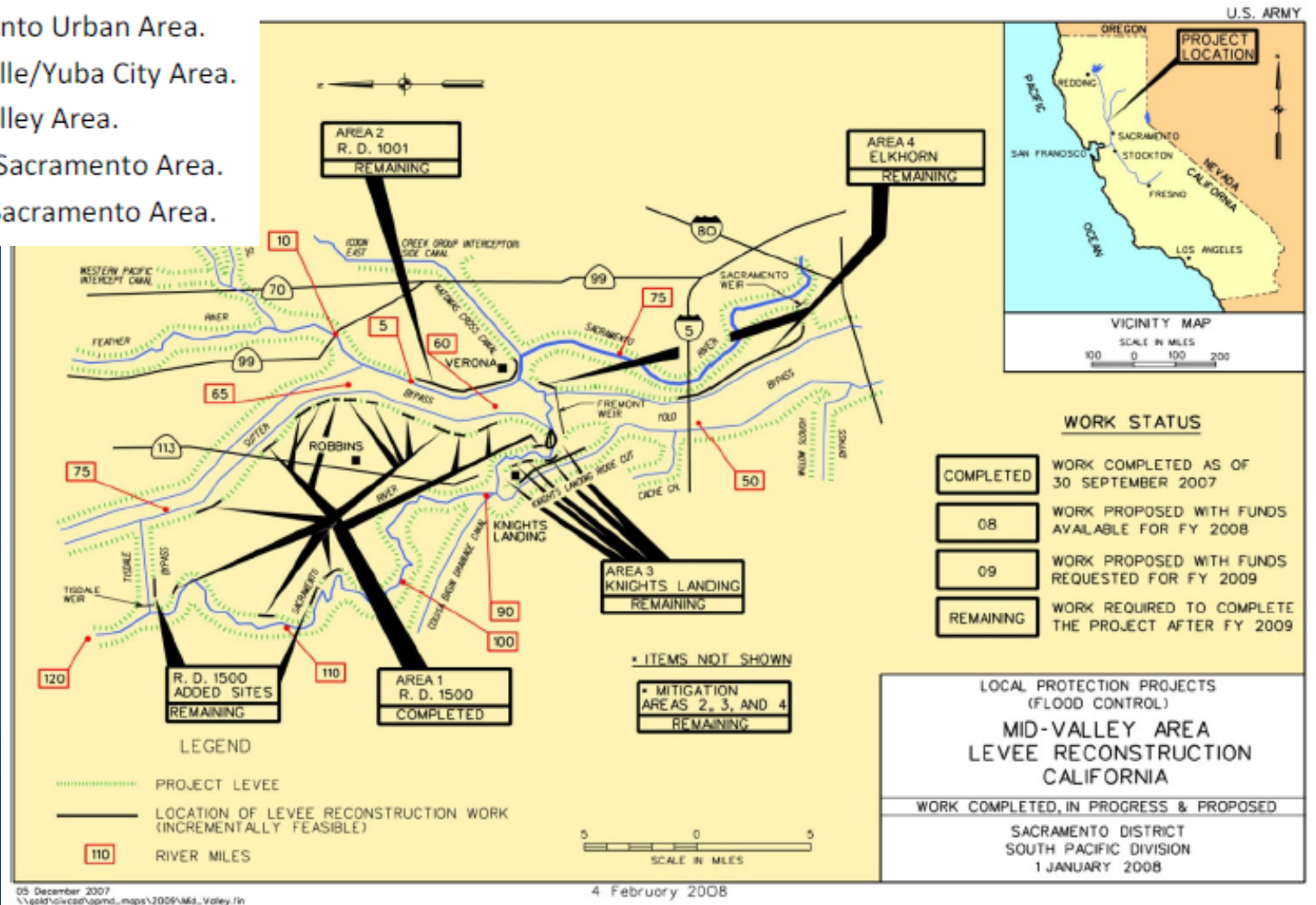


O&M Manual, Unit No. 127



Mid-Valley Area

- Phase I – Sacramento Urban Area.
- Phase II – Marysville/Yuba City Area.
- Phase III – Mid-Valley Area.
- Phase IV – Lower Sacramento Area.
- Phase V – Upper Sacramento Area.



KLRC Profile

