

## Yuba IRWMP – RD784-17

### Project Short Form

Please fill out the following information to the best of your ability/knowledge. Once the project has been received, and a preliminary review completed, the project team will work with you to develop additional information.

#### PROJECT SPONSOR INFORMATION

Lead Agency/Organization	Reclamation District 784
Name of Primary Contact(s)	Patrick Meagher, General Manager
Mailing Address	1594 Broadway, Arboga, CA 95961
Email Address	Patrick@rd784.org
Phone (530) 308-4152	
Project Partners/Collaborators	N/A
YWA Liaison	

#### GENERAL PROJECT INFORMATION

<b>Project Title</b>	Unit 5 Levee Mile 0.12 Storm Drain Pipe Replacement
<b>Project Total Budget</b> (Attach detailed budget, if available)	\$650,000.00
<b>Budget Breakdown</b>	Planning/Design Budget: \$30,000.00 Implementation Budget:
<b>Project Funding Match, if any</b>	0
<b>Total Project Funding Request</b>	\$650,000.00
<b>Project Location</b> (Attach map if available)	See attached Map
<b>City/Community</b>	Olivehurst
<b>Watershed/subwatershed</b>	
<b>Groundwater Basin</b>	
<b>Funding Area</b>	SRFA or MC
<b>Project Priority</b> (Select one)	High/Medium/Low High Priority
<b>Project Type</b> (highlight in gray <i>all</i> that apply)	Conceptual Feasibility Study Study/Assessment Planning Engineering/Design Permitting CEQA/NEPA Facility Construction Restoration Monitoring Best Management Practices Acquisition Demonstration/Pilot Project

**Please select the *status* of the CEQA/NEPA/Permitting for this project:**

<b>CEQA</b> (Select one)	Exempt - Not Started - Initial Study - EIR – Determination - <b><u>Unknown if Required</u></b>
<b>NEPA</b> (Select one)	Exempt - Not Started - Environmental Assessment - EIS – Record of Decision - <b><u>Unknown if Required</u></b>
<b>Permitting</b> (Select one)	Not Required - Not started – Identified – Consultations Complete – Application Submitted – Complete – <b><u>Unknown if Required</u></b>

**PROJECT DESCRIPTION**

Write a narrative briefly describing the project components and/or characteristics (maximum of 300 words).

Storm drain pipes are a critical part of RD 784’s system. Properly functioning storm drains are necessary to help reduce the chances of flooding. For this straightforward and time-sensitive project, RD 784 will remove an aged, existing pipe that runs through the base of a levee and install a new 18-inch pipe. Key project components include:

- Final planning and engineering designs
- Administrative and inspection tasks
- Site mobilization
- Remove existing 80 – 100 - year-old pipe
- Install new 18-inch storm drainpipe through the base of the levee
- Construction of a concrete structure with steel positive closure device (which helps prevent water from backflowing onto the land in the case of flap gate failure or high-water events)
- Installation of landside trash rack and waterside flap gate
- Soil import, backfill, and compaction
- Construction of a landside steel walkway over the trash rack
- Hydroseed the project area to prevent erosion
- Demobilization and final inspection

**PROJECT RATIONALE/ISSUES STATEMENT**

Briefly describe the need for the project and the desired outcomes/deliverables (maximum of 200 words).

In the fall of 2019, RD784 completed pipe video inspections at all Rural Levee pipe crossing locations. After the RD784 District Engineer completed their review, the results were forwarded to the DWR for final evaluation. On September 21, 2020, an evaluation of the pipes was received from DWR. Each pipe was graded on a scale of 1 to 6 for “Likelihood of Failure” with a 6 as a worst possible rating. The grading system recommends in the technical memorandum to spot repair, CIPP (cure in place pipe), or replace entirely for a Likelihood of Failure greater than 4.0. The pipe in Unit 5 at LM 0.12 was given a grade of 5.0 which falls in the category of full replacement.

In 2019, RD 784 went through a Proposition 218-driven process to update the District’s operating budget. This process eliminated the RD784 annual Rural Levee revenue source; in effect, removing the funding mechanism for RD 784 to pay for this critical project. Thus, the District is pursuing funds via other sources. RD784 has already secured funds to replace an additional pipe in the Rural Levee system in 2021 which will be funded through the DWR 2020/21 FMAP program.

The primary deliverable of this project is a new 18-inch storm drain pipe that meets state and federal

requirements.

**ATTACHMENTS:**

- Task based budget
- Map of project location

**RECLAMATION DISTRICT NO. 784**  
**HORSESHOE LEVEE PIPE MAINTENANCE PROJECT - UNIT 145, LMA UNIT 3B LM 4.66**  
**DETAILED COST ESTIMATE - MAY 20, 2020**

<b>Project</b>	<b>CO.</b>	<b>RCVD. BY</b>	<b>DATE</b>
RD 784 - Horseshoe Levee Pipe Maintenance Project	Sutter	S.M. Minard	20-May-20
<b>MHM PROJECT NO.</b>	<b>QTY. BY</b>	<b>IN</b>	<b>CONST. INDEX</b>
2020-143	J. Mallen	15-Apr-20	10315.44
<b>ESTIMATE NO.</b>	<b>QTY. CHK.</b>	<b>OUT</b>	<b>BLDG. INDEX</b>
1	S. Minard	20-May-20	5637.09

Item No.	Item Description	Estimated Quantity	Unit	Unit Price (\$/Unit)	Amount (\$)
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**Bid Schedule A - RD 784 - Horseshoe Levee Pipe Maintenance Project - Preconstruction Submittals and Activities)**

A1	Mobilization and Demobilization Plan	1	Job	\$500.00	\$ 500.00
A2	Injury and Illness Prevention Plan	1	Job	1,000.00	1,000.00
A3	Project Schedule	1	Job	1,500.00	1,500.00
A4	Flood Contingency Plan	1	Job	500.00	500.00
A5	Contractor Quality Control Plan	1	Job	35,000.00	35,000.00

**Total Bid Schedule A = \$38,500.00**

**Bid Schedule B - RD 784 - Horseshoe Levee Pipe Maintenance Project - 2020 FMAP - Interceptor Canal - Unit 145, LMA Unit 3B Levee Mile 4.66 - Culvert Remove and Dispose**

B1	Mobilization and Demobilization	1	Job	\$2,700.25	\$ 2,700.25
B2	Clearing and Grubbing	1	AC	3,000.00	3,000.00
B3	Demolition of Existing Pipe 18 Inch	1	Job	3,000.00	3,000.00
B4	Levee Excavation	2,490	CY	10.50	26,145.00
B5	Coffer Dam	1	Job	7,000.00	7,000.00
B6	Temporary Bypass System	1	Job	7,000.00	7,000.00
B7	Haul and Dispose of Unsuitable Debris	20	CY	278.00	5,560.00
B8	SWPPP - Temporary Silt Fence	100	LF	5.00	500.00
B9	SWPPP - Temporary Stabilized Construction Site Access	1	EA	1,500.00	1,500.00
B10	SWPPP - Construction Waste Management	1.0	Job	300.00	300.00

**Total Bid Schedule B = \$56,705.25**

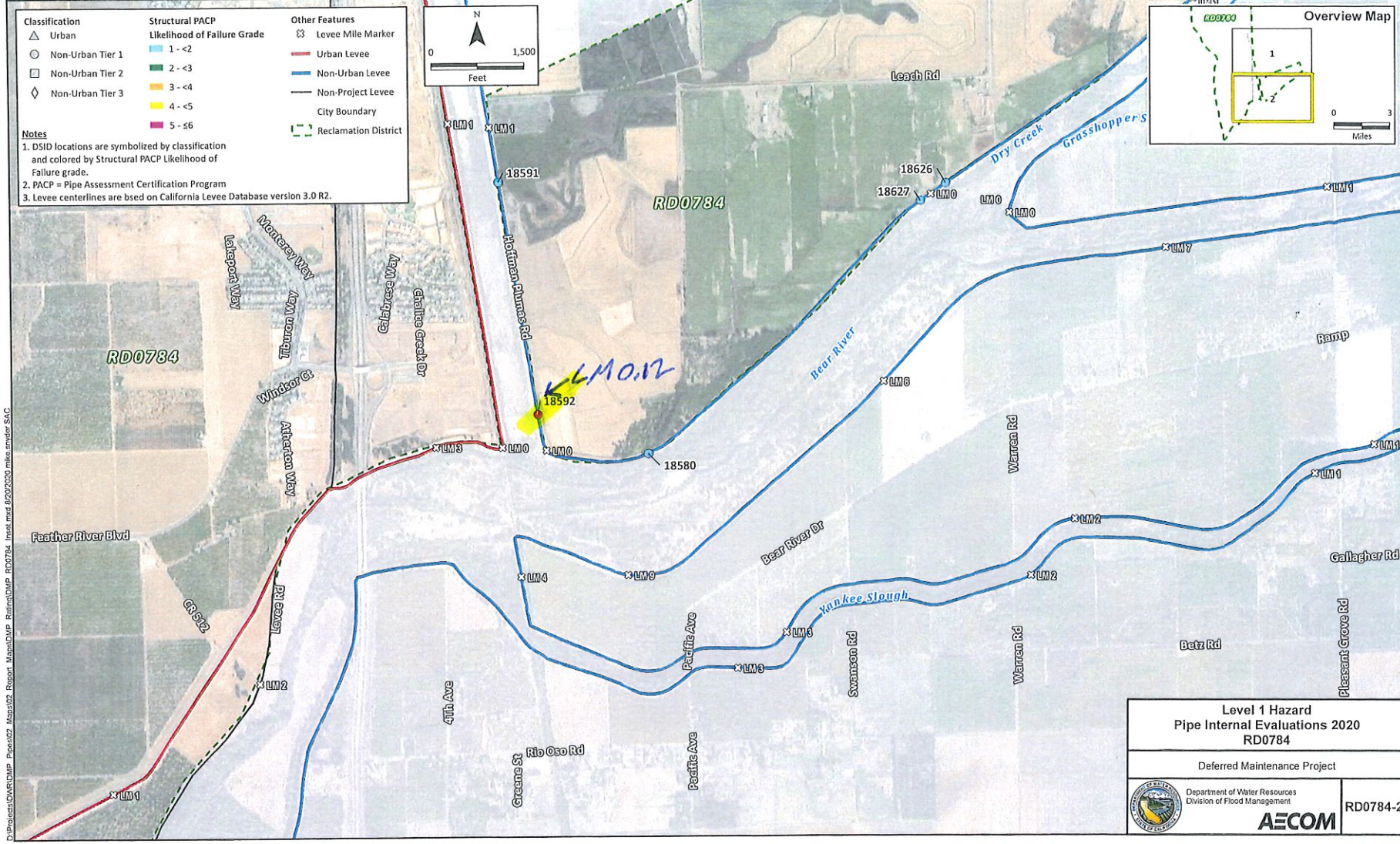
**RECLAMATION DISTRICT NO. 784**  
**HORSESHOE LEVEE PIPE MAINTENANCE PROJECT - UNIT 145, LMA UNIT 3B LM 4.66**  
**DETAILED COST ESTIMATE - MAY 20, 2020**

<b>Project</b> RD 784 - Horseshoe Levee Pipe Maintenance Project	<b>CO.</b> Sutter	<b>RCVD. BY</b> S.M. Minard	<b>DATE</b> 20-May-20
<b>MHM PROJECT NO.</b> 2020-143	<b>QTY. BY</b> J. Mallen	<b>IN</b> 15-Apr-20	<b>CONST. INDEX</b> 10315.44
<b>ESTIMATE NO.</b> 1	<b>QTY. CHK.</b> S. Minard	<b>OUT</b> 20-May-20	<b>BLDG. INDEX</b> 5637.09

Item No.	Item Description	Estimated Quantity	Unit	Unit Price (\$/Unit)	Amount (\$)
<b>Bid Schedule C - RD 784 - Horseshoe Levee Pipe Maintenance Project - 2020 FMAP - Interceptor Canal - Unit 145, LMA Unit 3B Levee Mile 4.66 - 18 Inch culvert Installation</b>					
C1	Mobilization and Demobilization	1	Job	\$17,777.50	\$ 17,777.50
C2	Clearing and Grubbing	1	AC	\$3,000.00	3,000.00
C3	Construction Area Signs	1	Job	\$300.00	300.00
C4	Levee Embankment Fill (Soil Type 1)	1,430	CCY	\$35.00	50,050.00
C5	Import Borrow	400	BCY	\$57.00	22,800.00
C6	18 Inch Corrosion Proofed Steel Discharge Pipe	150	LF	\$323.00	48,450.00
C7	18 Inch Automatic Drainage Gate	1	EA	\$6,000.00	6,000.00
C8	Gate Riser Structure Complete	1	Job	\$123,000.00	123,000.00
C9	18 Inch Sluice Gate Assembly	1	EA	\$11,500.00	11,500.00
C10	Outlet Structure with Access Control Gate	1	Job	\$13,000.00	13,000.00
C11	Inlet Structure with Trash Rack	1	Job	\$16,000.00	16,000.00
C12	CLSM Trench Backfill	100	CY	\$335.00	33,500.00
C13	ASTM C33 Filter Drain Backfill	50	CY	\$110.00	5,500.00
C14	Rock Slope Protection (200 LB)	50	TON	\$125.00	6,250.00
C15	Class 2 Aggregate Base	120	TON	\$65.00	7,800.00
C16	Warning Sign at Water Hinge and Levee Toes	3	EA	\$200.00	600.00
C17	SWPPP - Temporary Silt Fence	200	LF	\$5.00	1,000.00
C18	SWPPP - Temporary Stabilized Construction Site Access	1	EA	\$1,500.00	1,500.00
C19	SWPPP - Construction Waste Management	1	Job	\$300.00	300.00
C20	SWPPP - Erosion Control Seeding	1.0	AC	\$5,000.00	5,000.00

**Total Bid Schedule C = \$373,327.50**

<b>Subtotal Construction Cost (A through C) =</b>	<b>\$468,532.75</b>
<i>Environmental Document and Environmental Permitting =</i>	<i>15,000.00</i>
<i>CVFPB Encroachment Permit - Processing =</i>	<i>3,500.00</i>
<b>Subtotal (A through C plus Miscellaneous Items) =</b>	<b>\$498,532.75</b>
<i>Contingency @ 10.0% =</i>	<i>49,853.28</i>
<i>RD 784 Inspection and Construction Management @ 7.5% =</i>	<i>37,389.96</i>
<i>RD 784 Management and Administration @ 1.0% =</i>	<i>4,985.33</i>
<i>Topographic Surveying @ 1.0% =</i>	<i>4,985.33</i>
<i>Preliminary Engineering @ 0.4% =</i>	<i>1,994.13</i>
<i>Design Engineering and Surveying @ 3.5% =</i>	<i>17,448.65</i>
<b>Grand Total =</b>	<b>\$615,189.41</b>
<b>For Budget Purposes =</b>	<b>\$615,000.00</b>



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