Dr. Michael Panzer, Chairman Drew Meyers, Trustee Brett Tholborn, Trustee

#### RECLAMATION DISTRICT NO. 1608 LINCOLN VILLAGE WEST

Daniel J. Schroeder, Attorney Jean L. Knight, Secretary Christopher H. Neudeck, Engineer Joe Bryson, Superintendent

#### BOARD OF TRUSTEES MEETING WEDNESDAY, FEBRUARY 3, 2016 8:00 A.M. ENGINEER'S REPORT

#### I. PLANREVIEW

#### A. Current permit requests from homeowners:

a. 3502 Fourteen Mile Dr.
Gregory R. & Julie A. Ebenhack
(209) 969-7391 ofc, (209) 952-9791 (home)
Index No. 419 Lot 46
Assessor's Parcel No. 098-393-19

Review replacement of 1973 permitted walkway from the deck to the levee

KSN Inc. recommends approval of this application with no special conditions.

EXHIBIT A: Ebenhack's Application for Approval of Plans and/or Encroachment Permit.

B. Review the status of the Annual levee encroachments survey along all reaches of the District's levee.

#### II. FEMA MAPPING STATUS

**A.** Review with the Board of Trustees on the estimated costs to prepare the Letter of Map Revision (LOMR) application for District's response to FEMA regarding the mapping status of the District's levee system.

EXHIBIT B: KSN Inc. estimate of engineering services to prepare LOMR application to FEMA.

### III. DWR EMERGENCY RESPONSE GRANT AWARDED TO SAN JOAQUIN COUNTY

A. Review the status of revisions to the Flood Safety Plan including and Emergency Operations Plan (EOP) and Flood Contingency Map (FCM).

## A

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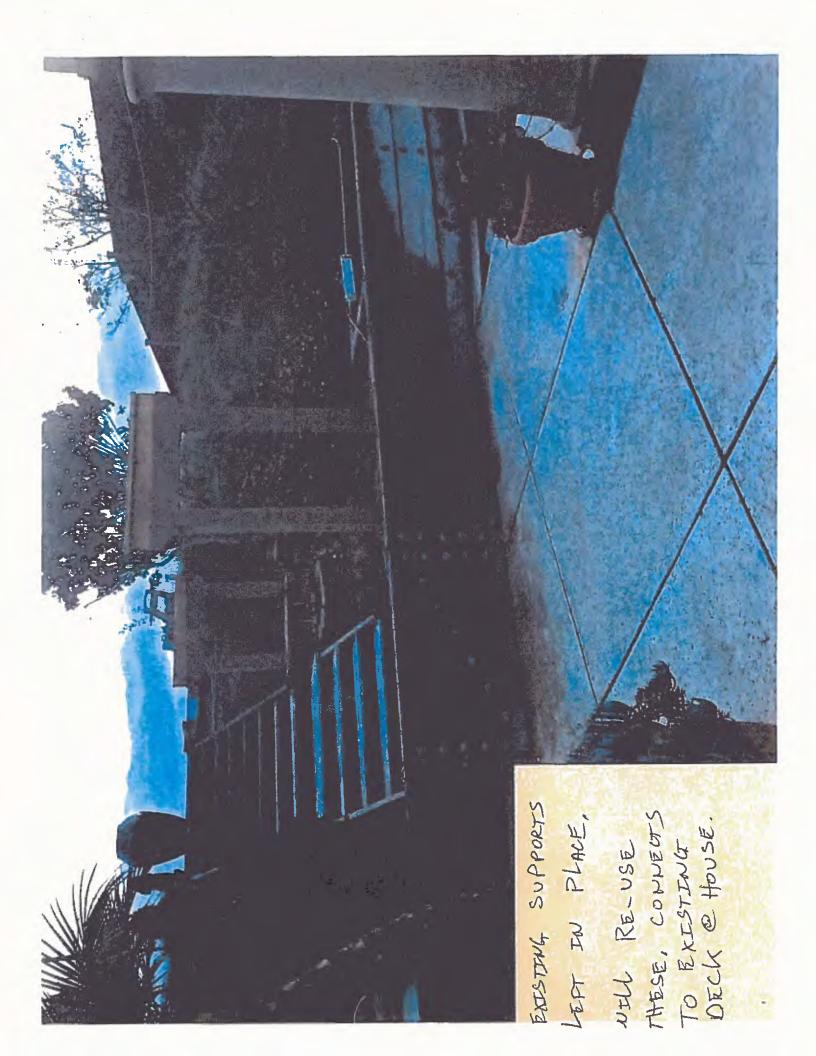
	Ind. x No. 46 Lot No. 419
APPLICAT	ION FOR APPROVAL OF PLANS AND/OR ENCROACHMENT PERMIT
I. Applie	cation to the Reclamation District 1608 for approval to REPLACE WALKUMY
FROM	EXPSTENG DECK ATTACHED TO HOUSE TO SAME
SPOT 6	D LEVER CROWN WHERE THE OREGINAL WAS.
NO CH	NOTES OF SUPPORT ON GROUND. ALL THE SAME.
2. Please	check exhibits accompanying application.
a.	Location or vicinity map showing location of proposed work within the RD1608 area of responsibility, to permit visitation and inspection of work. Provide a marked-up copy of the RD1608 Boundary Map contained within the RD1608 Levee Encroachment Standards (Appendix E-1) to convey the appropriate location information (follow directions cited in Appendix E-1).
b.	A complete plan view and cross section of the proposed work, to scale, showing: dimensions; materials of construction and/or vegetative plantings; irrigation system; location of levee crown, too and side slopes; relationship of the proposed work to the levee, adjacent home, RD1608 easement lines, and property lines; and any other notable feature within the lot.
c.	A cross section of the levee, berm, and stream area with dimensions and elevations of the levee crown, levee toes, floodplain, low water levee, etc., with reference to the U.S. Geological Survey, U.S. Corps of Engineers, or other datum generally used within the locale.
d	Profiles of existing or proposed levees, fills, or other obstructions in the stream or overflow area with reference to the U.S. Geological Survey, U.S. Corps of Engineers, or other datum generally used within the locale.  PLOTURES
3. Please	Print or Type:
Name of Applica	Address-Zin Code Telephone Number
CIREL	EBENHALK STKN CA Office 969-739 Home 209-952-979
	VII II II
Signature	Date 1-13-16
4. Endorsement	
We, the Trustees 20, hereby	s of Reclamation District 1608 at its meeting held on the day of,
APPRO	OVE and give consent to the execution of the encroachment permit subject to the following
	Conditions listed on the back of this form  Additional attached conditions.
	No conditions
Rev: 3-1-13 F.\03950\069\DistStd	. A second data
751856-1	so4.doc Appendix A-1

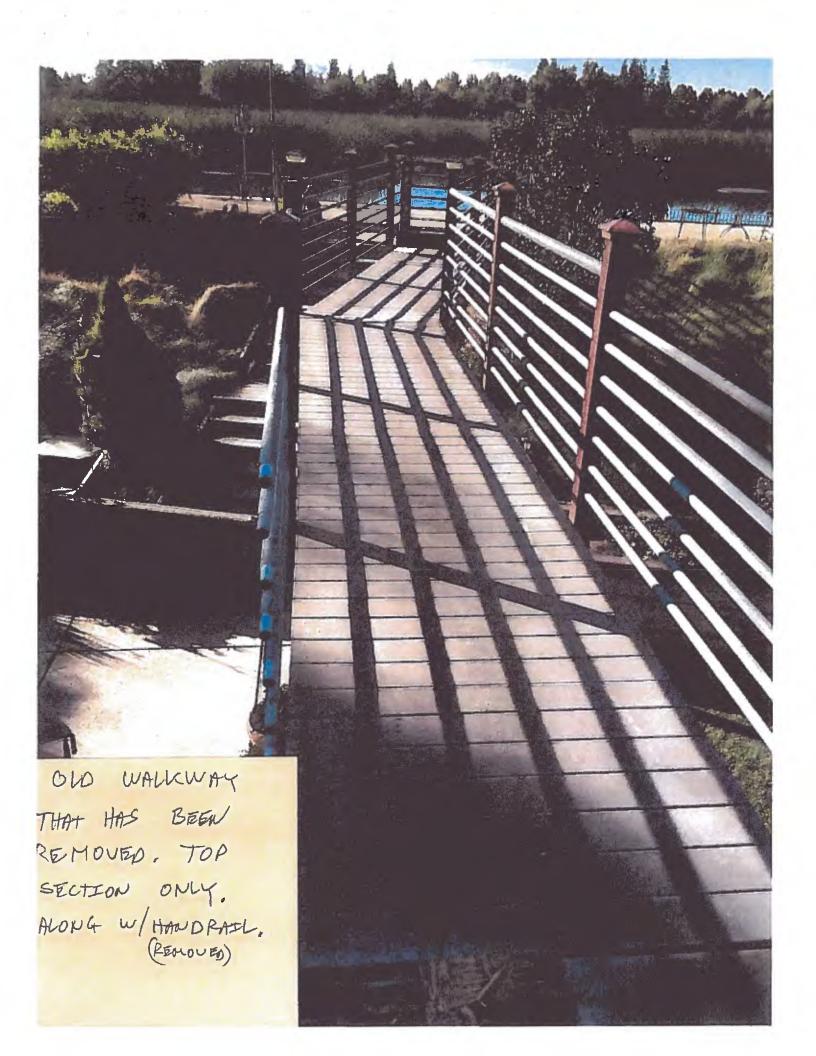
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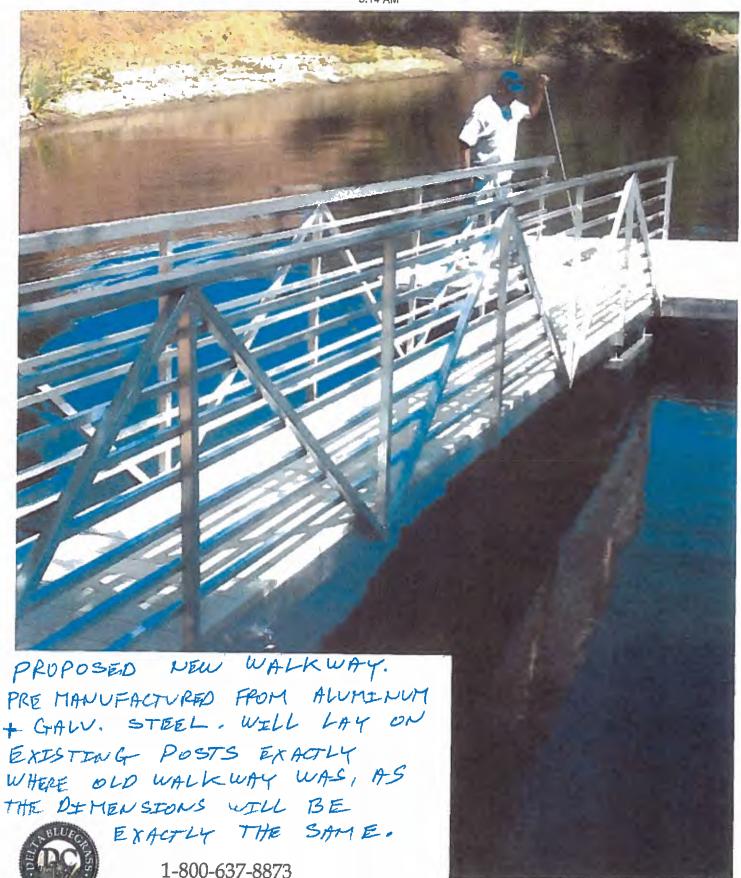


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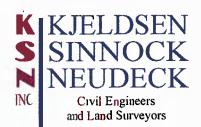


www.deltabluegrass.com



# B

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Stephen K. Sinnock, P.E. Christopher H. Neudeck, P.E. Neal T. Colwell, P.E. Barry O'Regan, P.E.

2153-0080

January 29, 2016

Board of Trustees c/o Michael Panzer RD 1608 – Lincoln Village West 6329 Embarcadero Drive Stockton, CA 95219

Re: Proposal for Preparation and Submittal of LOMR Request Package

Dear Board of Trustees,

Thank you for considering Kjeldsen, Sinnock & Neudeck, Inc. (KSN) for the preparation of the Letter of Map Revision (LOMR) request submittal package to be submitted to the Federal Emergency Management Agency (FEMA).

The proposed services KSN will provide are as follows:

#### KSN TASK No. 1 – SURVEYING AND MAPPING (44 CFR 65.10 (b)(1-2))

KSN will prepare base mapping for the project to include aerial topography surveys of the levee system; refer to Exhibit A (attached). Mapping will be prepared at 1"=40' with 1' contour intervals and color orthophotos. Where the aerial mapping is obstructed by vegetation, ground surveys will be performed to confirm profiles and/or crosses sections as required for the LOMR submittal. Ground surveys will also be provided to assist with interior drainage analysis and the location of levee penetrations. Bathymetric cross-sections will be surveyed at 1000' intervals for waterside slope geometry confirmation.

#### KSN TASK No. 2 – GEOTECHNICAL SERVICES (44 CFR 65.10 (b)(4-5))

Kleinfelder will prepare the geotechnical analysis to achieve 100-year flood protection as outlined below. You will notice frequent reference to the 200-year flood protection analysis, but this proposal is for the 100-year flood protection accreditation only.

#### Recent Kleinfelder Geotechnical Investigation for Lincoln Village

As part of the Department of Water Resources (DWR) Urban Levee Evaluation (ULE), the "LincolnVillage Study Area" was studied to determine whether it met the Urban Levee Design Criteria for 200 year flood protection (ULDC). Senate Bill 5 (SB5) was signed into law in 2007 and as a result, ULDC and Urban Level of Protection (ULOP) requirements were developed. The criteria set forth by the ULDC and ULOP, among other things, requires that existing levee districts/levee maintenance agencies have a plan and financial structure in place to meet 200-year flood protection by 2016 and/or show progress of meeting the necessary level of protection and being completed by 2025 in order for building permits to be issued within the study area.

The results of Kleinfelder's Lincoln Village Study Area investigation for the DWR ULE Program are represented in two Volumes (referenced below). Volume 1 is the Geotechnical Evaluation Report (GER) which includes the analysis of existing levee conditions and identified levee reaches and subreaches that did not meet the ULDC requirements for 200 year flood protections. GER Volume 2, Remedial Alternatives, presents conceptual repair alternatives and rough order of magnitude estimated costs for the reaches or subreaches not meeting the ULDC requirements described above.

Other than freeboard, only two reaches for the Lincoln Village levee evaluation did not meet ULE criteria. As noted on Figure 2-2 (attached), both were in the southeast portion of the district adjacent Fourteen Mile Slough. Reach E1 is adjacent to Fritz Grupe Park and did not meet the underseepage or landside stability criteria. In spite of having worked with engineers for Reclamation District 1608 for the past 25 years and having completed two levee tours with District Engineers prior to the completion of our levee evaluation, the ULE program analyst were not aware that the Lincoln Village levees within Reach E1 have a toe drain extending from the eastern boundary of the park to where residential housing begins. This toe drain would have eliminated the underseepage issue where an exit gradient of .78 was calculated. This high exit gradient also caused a low slope stability factor of safety (1.21) for the landside slope. In accordance with DWR protocol, any revisions to the ULE analyses would have required Independent Consultant Board (ICB) review and there was insufficient time remaining in the program for this work to be done.

Within the limits of Reach E2, located immediately to the west of Reach E1, a seepage cutoff wall was constructed in 1998. However, information concerning the lateral limits of the cutoff wall is not consistent. Due to the uncertainty regarding the exact location of the cutoff wall, as well as the depth of the cutoff wall, this feature was not included as part of the ULE analysis. As a consequence, a factor safety on the landside slope of 1.44 was calculated. For frequently loaded, as part of the ULDC, levees the minimum required factor safety is 1.5. We anticipate that once additional records are researched and the actual location of the cutoff wall is confirmed that revised modeling will show that the landside stability meets ULE criteria.

DWR recognized that levee penetrations and/or discontinuities in levee protection, including pipelines, pump stations, roads, bridges, and animal burrow activity, may be critical or weak links in a levee system. However, investigation and evaluation of penetrations and discontinuities were not part of the ULE scope. For the Lincoln Village Study Area, several penetrations were documented and summarized in the referenced documents. It was noted that levee penetrations and/or discontinuities in levee protection, including pipelines, pump stations, roads, bridges, and animal burrow activities, should be evaluated in design-level studies.

#### Geotechnical Engineering Scope of Work

#### Data Collection and Review

Initially, Kleinfelder proposes to collect all available data relevant to the evaluation including the information in the referenced documents. Kleinfelder has assumed that data collected by others as part of the development design and construction will be made available prior to the evaluation. The review will generally include subsurface exploration logs,

laboratory test results, groundwater data, hydrograph data, available topographic data, and historical aerial photographs. At this time, Kleinfelder does not anticipate having to complete additional field and laboratory investigations as part of this scope of work.

#### Geotechnical Analysis

The data and information noted above will be repackaged in a format consistent with that for a FEMA LOMR submittal. As part of that submittal, Kleinfelder will revise the existing underseepage, through seepage, and stability models utilized for Reach E1 as part of the ULE program to account for the existing toe drain; and revise the existing underseepage, through seepage, and stability models for Reach E2 to account for the existing cut-off wall. Kleinfelder anticipates the revised models will show that the Lincoln Village Study Area meets USACE and FEMA criteria for underseepage, through seepage and stability.

Reporting

The information and format provided in the report will be generally consistent with that presented in the referenced GERs prepared for DWR as part of the ULE program. The report will reflect relevant differences between FEMA/USACE design and construction criteria for a LOMR submittal as compared to those required for SB5 findings (ULE/ULOP design and construction criteria).

Levee modeling for seepage and slope stability will be done using GeoStudio software which includes the SeepW and SlopeW programs. The SeepW program will be used to determine through seepage and underseepage exit gradients. The SlopeW program will be used to determine slope factors of safety under various conditions. Kleinfelder does not anticipate performing any deformation analysis of the proposed levees. Additionally, recommendations for levee design and construction will be made, however, the scope and fee presented in this proposal is not adequate to perform iterations of design analysis, prepare bid documents, plan checks, of specification reviews.

Meetings

Kleinfelder anticipates taking part in various meetings and conference calls as part of this project. In the event any specific presentations will be needed, advanced notice to our office will be necessary in order for adequate preparations to be made.

#### References

"Geotechnical Evaluation Report, Volume 1, Existing Conditions, Lincoln Village Study Area, Urban Levee Evaluations Project Contract 4600008102, March 2015", Prepared by Kleinfelder for the Department of Water Resources

"Geotechnical Evaluation Report, Volume 2, Remedial Alternatives, Lincoln Village Study Area, Urban Levee Evaluations Project Contract 4600008102, March 2015", Prepared by Kleinfelder for the Department of Water Resources

#### KSN TASK No. 3 – INTERIOR DRAINAGE ANALYSIS (44 CFR 65.10 (b)(6))

KSN will prepare an interior drainage analysis for the study area within the LOMR request limits. Background documents will be reviewed to establish the characteristics of the study area including confirming the limits of the study area, soil types, topography and land use.

2007 DWR LiDAR data will be used to determine horizontal and vertical positions of the study area limits. KSN will perform topographic surveying for any additional horizontal or vertical positions needed.

KSN will perform a hydrologic analysis of each drainage shed within the project limits. Calculation of storm runoff flows will be based on a 100-year return frequency storm, the existing drainage pump station capacity will be reviewed and analyzed, and the detention capacity of the two lakes within the study area will be determined.

An Interior Drainage Analysis Memorandum will be prepared to summarize the findings of the hydrologic analysis of the study area, and the resulting recommendations to reduce flooding within the study area will be made.

#### KSN TASK NO. 4 – LOMR PACKAGE PREPARATION (44 CFR 65.10 (b)(1-3), (c), (d), (e))

KSN will prepare a total of six (6) Letter of Map Revision (LOMR) request binders to include the applicable MT-2 Application Forms and the appropriate supporting information according to the FEMA submittal requirements.

The package will include, but is not limited to, a geotechnical analysis, interior drainage analysis, existing topography mapping, operation and maintenance manual, applicable supporting calculations, and the appropriate application forms. An electronic CD containing the information listed above will be included in each binder.

Recipients of the LOMR binder package include FEMA, Reclamation District No. 1608, San Joaquin Area Flood Control Agency (SJAFCA), and the San Joaquin County Community Official.

#### **Assumptions and Exclusions**

#### Assumptions

- All deliverables will be transmitted in hard copy or PDF electronic format.
- Client will coordinate and obtain all necessary signatures on FEMA MT-2 Forms.
- All meetings take place locally, within the Stockton metropolitan area.

#### **Exclusions**

- Scope does not include design, plans, specifications, or construction cost estimates relating to recommended improvements.
- Scope does not include fees for federal, state, county, city, local district, other agency or third-party for applications, reviews, permits, sub-consulting, reproductions, recordings, etc.
- Scope does not include acquisition of permits of any sort.
- Scope does not include legal or title documentation, e.g. title searches, easement descriptions, boundary analysis, leasing agreements, etc.

- Scope does not include supplemental surveying as may be necessary for design purposes.
- Scope does not include boundary study, surveys or mapping.
- Scope does <u>not</u> include the <u>DHS-FEMA fee, estimated at approximately \$9,250 plus</u> <u>\$60/hour</u>, associated with reviewing and processing the LOMR request.

KSN proposes to provide engineering services on a time and materials basis per our current 2016 fee schedule (attached) for the total fee listed below. The fee proposal is broken down into the following tasks, as described above.

Task No. 1 – Surveying and Mapping	\$134,300
Task No. 2 – Geotechnical Services	\$22,600
Task No. 3 – Interior Drainage Analysis	\$40,300
Task No. 4 – LOMR Package Preparation	\$33.700
Subtotal	\$230,900
Reimbursable Expenses	<u>\$3,500</u>
Total Time and Materials Fee	\$234,400

KSN appreciates the opportunity to submit this proposal and we look forward to working with you and your staff on this project. If you should have any questions regarding this proposal, or if you should require additional information, please call us at (209) 946-0268.

Sincerely,

KJELDSEN, SINNOCK & NEUDECK, INC.



Civil Engineers and Land Surveyors

Stephen K. Sinnock, P.E. Christopher H. Neudeck, P.E. Neal T. Colwell, P E Barry O'Regan, P.E.

#### 2016 FEE SCHEDULE PREVAILING WAGE PROJECTS

Effective January 1, 2016

Position		Rate	
Principal Engineer	\$	235.00	
Associate Engineer	\$	205.00	
Senior Engineer	\$	175.00	
Engineer	\$	156.00	
Junior Engineer	\$	125.00	
Senior Surveyor	\$	185.00	
Surveyor	\$	155.00	
Assistant Surveyor	\$	135.00	
Field Crew-One Man & Vehicle	\$	175.00	
Field Crew-Two Man & Vehicle	\$	270.00	
Inspector	\$	135.00	
Inspector & Vehicle	\$	165.00	
Senior Project Manager	\$	205.00	
Project Manager	\$	175.00	
Assistant Project Manager	\$	150.00	
Grant Manager	\$	130.00	
Contract Manager	\$	130.00	
Technician/GIS/CAD Designer I	\$	130.00	
Technician/GIS/CAD Designer II	\$	110.00	
Technician/GIS/CAD Designer III	\$	90.00	
Administrative I	\$	95.00	
Administrative II	\$	80.00	
Administrative III	\$	65.00	
Equipment	Hourly Rate		
3D Print Cloud Work Station	\$	25.00	
GPS Receivers-Per Receiver Per Hour	\$	25.00	
Robotic Total Station	\$	35.00	
HDS Scanner	\$	150.00	
Boat	\$	55.00	
Expenses			
Auto Mileage per current Federal Rates			
Special Consultants		Cost Plus 10%	
Reimbursable Expenses	Cos	t Plus 10%	
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(Printing, Photos, Copies, Travel, Telephone, Fax, Survey

Materials, etc.)

Note: Fees are due and payable within 30 days from the date of billing. Fees past due may be subject to a finance charge computed on the basis of 1 1/2% of the unpaid balance per month.

Hourly rates are subject to review and adjustment January 1st of each year.

Corporate Office 711 N Pershing Avenue | Stockton, CA 95203 | 209-946-0268 | www.ksninc.com West Sacramento: 1355 Halyard Drive, Suite 100 | West Sacramento, CA 95691 | 916-403-5900

Civil Engineers and Land Surveyors

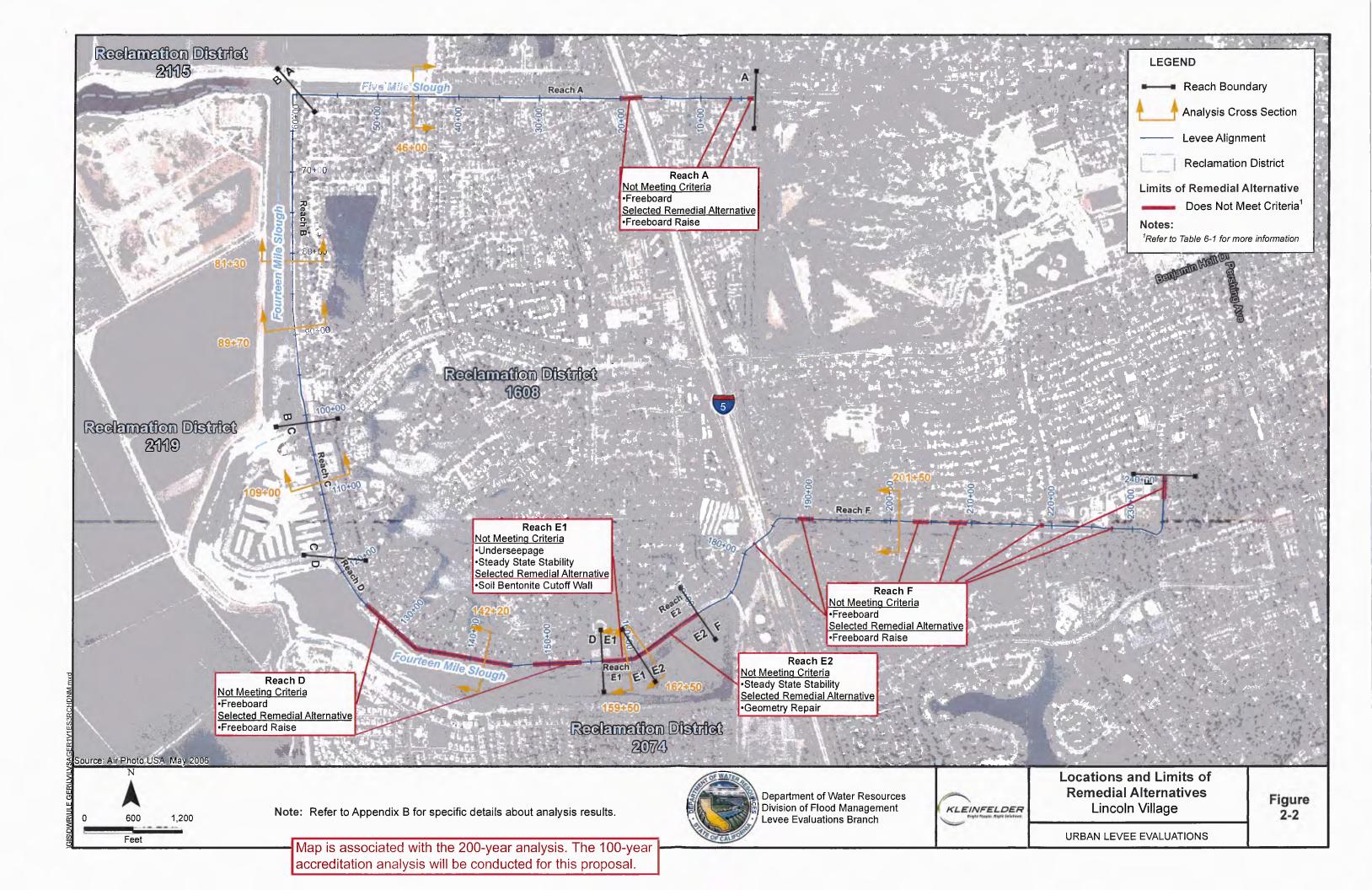
PROPOSED MAPPING LIMITS

PLANNING EXHIBIT

PAGE 1

Original Drawing Scale
O 1/2" 1"

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## RECLAMATION DISTRICT 1608 FINANCIAL REPORT FEBRUARY 3, 2016, MEETING % OF FISCAL YEAR ELAPSED THROUGH JANUARY 31, 2015 - 58.33%

Budget Item	Budget Amount	Expended MTD	Expended YTD	% YTD
Operations & Maintenance Expenses				
Levee Superintendent (includes payroll taxes, auditor expenses)	\$60,000.00	\$3,789.95	\$33,593.42	55.99%
Fences & Gates	25,000.00	0.00	0.00	0.00%
Locks & Signs	2,000.00	425.10	1,471.77	73.59%
Weed and Rodent Control & Clean up	15,000.00	8,800.00	9,250.00	61.67%
Levee Repair Fund	125,000.00	2,226.00	66,796.47	53.44%
Pump System Maintenance	500.00	10.79	146.90	29.38%
Cellular Telephone (includes wireless computer services)	1,400.00	150.00	913.05	65.22%
Emergency Equipment & Supplies	1,000.00	0.00	120.00	12.00%
District Vehicle (Fuel, Maintenance and Repairs)	5,328.00	0.00	4,052.58	76.06%
Totals	\$235,228.00	\$15,401.84	\$116,344.19	49.46%
General Expenses				
Trustee Fees	\$6,000.00	\$300.00	\$2,700.00	45.00%
Secretary Fees	8,000.00	635.00	4,695.00	58.69%
Office Expenses (incudes storage facility and pdf file conversion)	1,750.00	0.00	332.66	19.01%
Legal	55,000.00	2.563.05	24,636.73	44.79%
Auditing	3,000.00	0.00	0.00	0.00%
County Administration Costs	6,000.00	4,704.96	4,704,96	78.42%
Liability Insurance	8,200.00	0.00	6,738.00	82.17%
Workers Comp Insurance	8,000.00	0.00	3,477.43	43.47%
Automobile Insurance	2,000.00	610.17	1,997.17	99.86%
Election Costs	3,000.00	0.00	171.57	5.72%
Newsletters & Public Communications	9,000.00	0.00	2,623.71	<u>29.15%</u>
Totals	\$109,950.00	\$8,813.18	\$52,077.23	47.36%
Engineering Expenses				
General Engineering	\$80,000.00	\$19,089.30	\$69,672.21	87.09%
Miscellaneous Expenses (e.g. travel)	1,000.00	0.00	0.00	0.00%
Assessment Engineering	5,500.00	0.00	5,000.00	90.91%
Sediment Removal Project	0.00	0.00	0.00	<u>0.00%</u>
Totals	\$86,500.00	\$19,089.30	\$74,672.21	86.33%
Shared District Expenses				
RD 2119 Elmwood Tract	\$30,000.00	\$0.00	\$0.00	<u>0.00%</u>
Totals	\$30,000.00	\$0.00	\$0.00	0.00%
Total Expense Budget	\$461,678.00	\$43,304.32	\$243,093.63	52.65%

Sediment Removal Project Amount Expended to Date: \$237,950.45

Part-Time Temporary Employees: \$2,176.54

Budget Item	Anticipated Income	Income MTD	Income YTD	%YTD
Income				
Property Taxes	\$200,000.00	\$107,330.56	\$107,156.23	53.58%
Interest Income	5,000.00	0.00	2,120.00	42.40%
Assessments	298,000.00	152.206.41	13,711.00	4.60%
Levee Subventions	70,428.00	0.00	0.00	0.00%
Totals	\$573,428.00	\$107,330.56	\$122,987.23	21.45%
Cash On Hand Fund Balance as of July 1, 2015 Revenues (YTD), as of December 31, 2015 Expenses (YTD), as of December 31, 2015 TOTAL CASH			\$1,865,932.82 259,536.97 235,629.25 \$1,889,840.54	
Cash On Hand (Exclusive of Reserves)			\$489,840.54	
Reserves				
Capital Improvement Reserve			\$500,000.00	
Board-designated reserve			\$900,000.00	

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#### FEBRUARY 2016 LEVEE SUPERENTENDENT JOE BRYSON 1608

- 1. Levee patrol, started pump four times. Cleaned well and surrounding area.
- 2. Finish installing gravel on shoulder of ground side North West-North East levee.
- 3. Dr. Malik, 3821 Falmouth Court, started removing vegetation from back levee with blow torch.
- 4. Mr. and Mrs. Emmanuel Taylan, 3831 Fort Donaldson, will prune the hedges in February. Gardner is in Mexico.
- 5. Mr. and Mrs. Barnzini new home owners 3517 Stone River Circle. Home phone 209-242-2684; Gary cell 925-998-4768; Marlane 925-899-6022.
- 6. Called KSN engineer Rick Toy out to levee to check cracks on black top road.
- 7. Received call, fishermen on levee fire pit.
- 8. Stockton Record calls on Flood Insurance.
- 9. Attempted break in, pump station. We repaired.
- 10. We have two new employees, Gabe and Johnathon. Saving \$.75 out of each dollar. More
- 11. Many fences along back yards of Seagull are falling over.
- 12. Trash at Plymouth gates.
- 13. Sprinkler on North East levee were leaking, homeowner could not turn off. I capped all of them.
- 14. Removed 150 bags of leaves and vegetation from North West-North East Levee.
- 15. The Harbor Master would like to have a meeting regarding installing restroom and shower on levee. Need Chris to intervene.
- 16. Repaired three cut fences.
- 17. Ran off two homeless people from under I-5, having problems on the other side of Fourteen Mile. I told them the manager of the apartments will call the police.
- 18. A lot of standing water South East levee, Seagull.
- 19. Many of the contractors all calling for work. With the new employees we can do the tree trimming, stump removal, rock work, etc. They wear hats and safety vests. Homeowners are getting to know them.