

**Meeting of the Central Valley Flood Protection Board
December 16, 2016
Permit Staff Report
Roland Candee
New Metal Garage at 10411 Garden Highway, Sutter County**

1.0 – ITEM

Consider approval of Permit No. 10818-1 (Attachment B)

2.0 – APPLICANT

Roland Candee

3.0 – PROJECT LOCATION

The project is located on the property at 10411 Garden Highway in Sacramento. (Sacramento River, Sutter County, see Attachment A)

4.0 – PROJECT DESCRIPTION

Applicant proposes to construct a 20-foot x 30-foot metal garage on a concrete pad and to pave the existing dirt driveway with asphalt.

5.0 – AUTHORITY OF THE BOARD

California Water Code § 8534, 8590 – 8610.5, and 8700 – 8710

California Code of Regulations Title 23 (Title 23):

- § 6, Need for a Permit
- § 13, Evidentiary Hearings
- § 112, Streams Regulated and Nonpermissible Work Periods

- § 113, Dwelling and Structures Within an Adopted Plan of Flood Control
- § 133, Supplemental Standards for Control of Residential Encroachments in Reclamation District 1000

6.0 – PROJECT ANALYSIS

The proposed project is located at 10411 Garden Highway in Sacramento. The new garage will be approximately 90-feet water ward from the centerline of Garden Highway. The dwelling and the various encroachments are authorized under Permit No. 10818 and 17781 (Attachment C). The proposed project includes installing a 20-foot x 30-foot metal garage on a concrete slab and paving an existing dirt driveway with new asphalt. Currently, there is a carport on site that will be replaced with the new proposed metal garage. The proposed work conforms to all applicable Title 23 standards.

6.1 – Hydraulic Analysis

A hydraulic blockage calculation was performed that resulted in an estimated floodway blockage of 0.73%. Hydraulic impacts that result in less than 1% blockage are considered negligible per U.S. Army Corps of Engineers (USACE) hydraulic analysis criteria. Therefore, further hydraulic analysis was not required.

6.2 – Geotechnical Analysis

The project consists of constructing a metal garage on top of a concrete slab approximately 90 feet water ward of the Garden Highway (project levee) and paving an existing dirt driveway with new asphalt. Therefore, a geotechnical analysis was not required.

7.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- The local maintaining agency, Reclamation District 1000, endorsed the project on February 3, 2015 with conditions that have been incorporated into the conditions of the attached draft Permit No. 10818-1.

- The USACE 33 U.S.C. 408 approval letter has been received for this application. The USACE Sacramento District Engineer approves the request to alter the Federal flood risk reduction project, subject to conditions. The letter is incorporated into the permit as Exhibit A.

8.0 – CEQA ANALYSIS

Board staff has determined that the project is categorically exempt from CEQA under a Class 3 Categorical Exemption (CEQA Guidelines Section 15303) covering new construction of small structures.

9.0 – CALIFORNIA WATER CODE SECTION 8610.5 CONSIDERATIONS

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

3. Effects of the decision on facilities of the State Plan of Flood Control, and consistency of the proposed project with the Central Valley Flood Protection Plan as adopted by Board Resolution 2012-25 on June 29, 2012:

The blockage calculation for the proposed project resulted in 0.73% blockage of the floodway and the garage will be located just upstream of the authorized existing fill for the dwelling; therefore the proposed project is expected to result in no adverse effect on any SPFC facilities and is consistent with the CVFPP.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

The proposed project will be properly anchored to prevent flotation into the floodway during periods of high water. Therefore, there are no expected adverse effects to the proposed project from reasonable projected future events.

10.0 – STAFF RECOMMENDATION

Staff Recommends that the Board:

Adopt:

- The CEQA findings:

Approve:

- Encroachment Permit No. 10818-1 in substantially the form provided; and

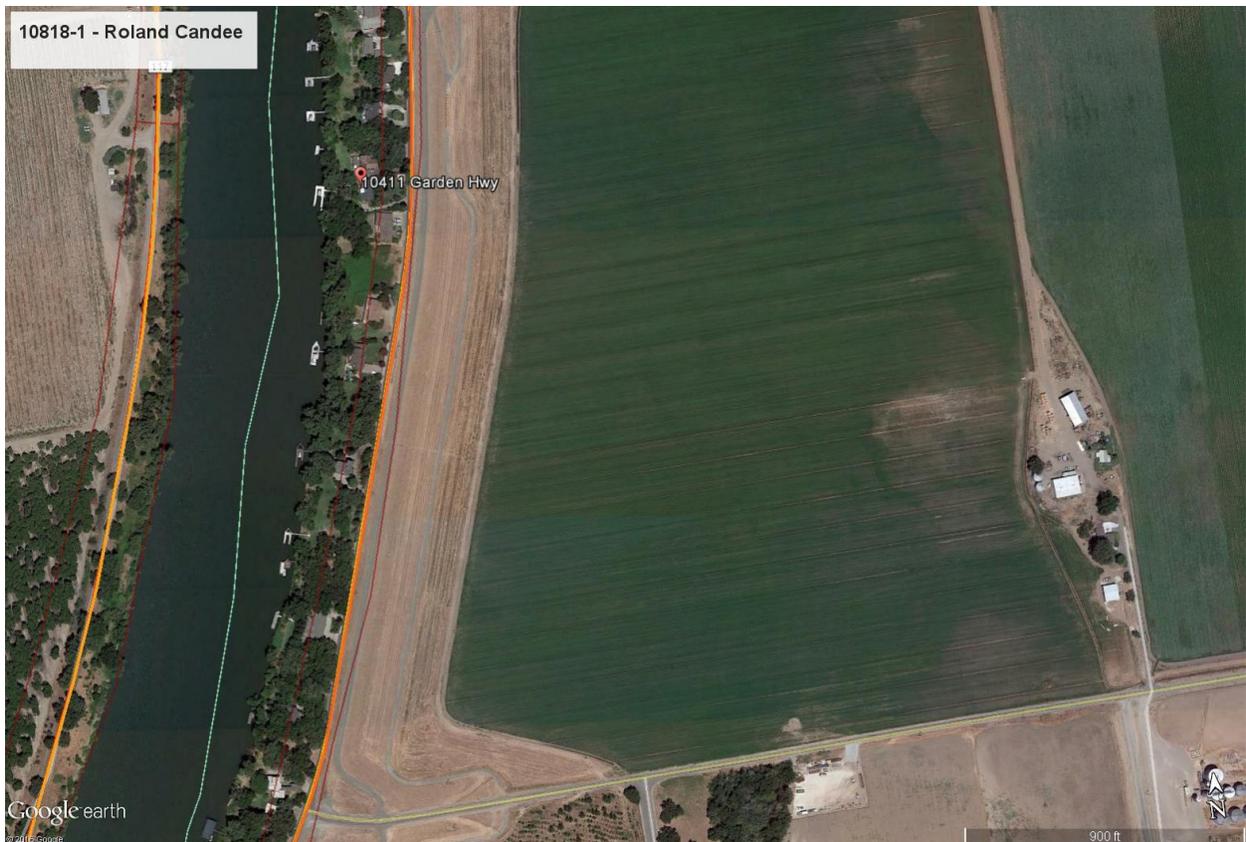
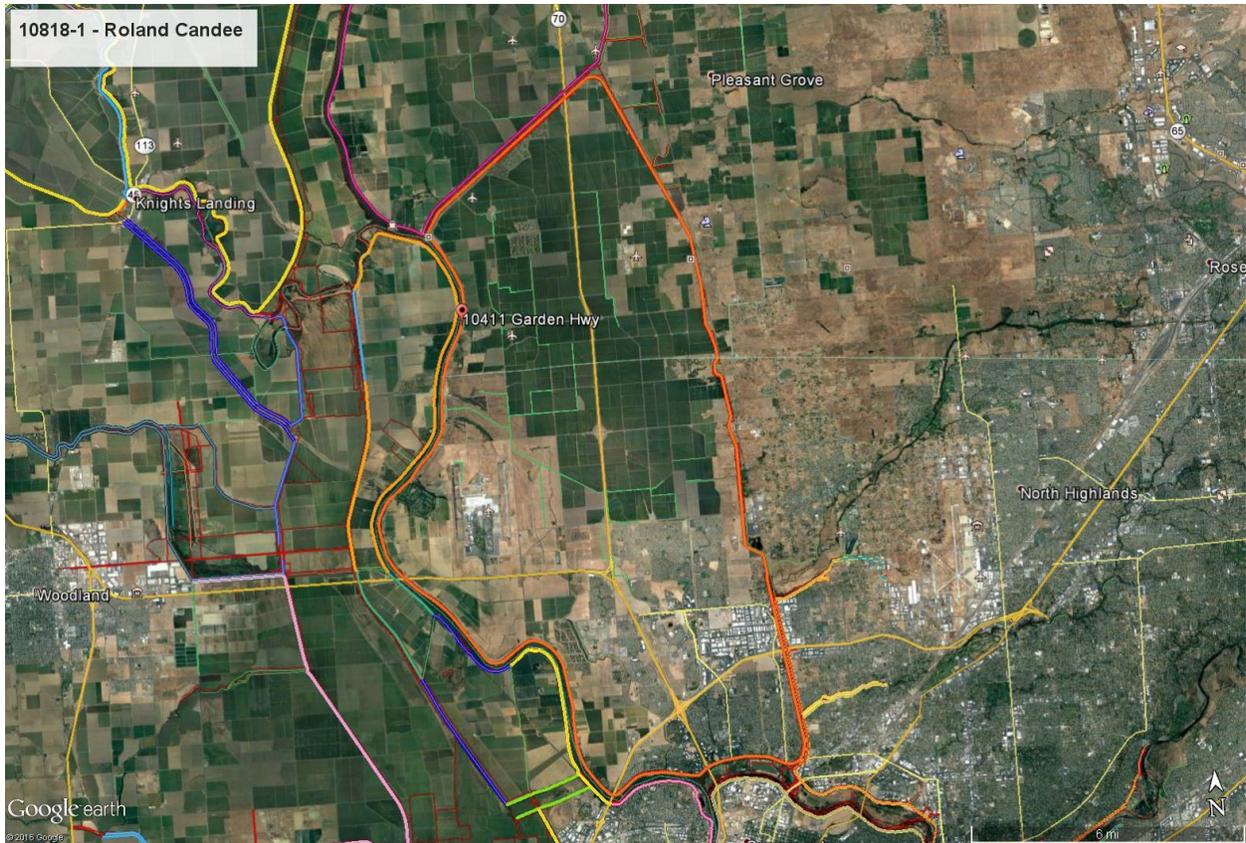
Direct:

- The Executive Officer to take the necessary actions to execute the permit and file a Notice of Exemption pursuant to CEQA with the State Clearinghouse.

11.0 – LIST OF ATTACHMENTS

- A. Location Maps and Photos
- B. Draft Permit No. 10818-1
- C. Permit No's. 10818 and 17781
- D. Site Plan and Specifications
- E. Hydraulic Blockage Calculations

Design Review:	Minh Chieng, PE
Environmental Review:	Andrea Buckley, Environmental Services and Land Management Chief
Document Review:	Gary W. Lemon, PE Permitting Section Chief Michael Wright, PE Acting Operations Branch Chief Mitra Emami, PE, Acting Chief Engineer
Legal Review:	Kanwarjit Dua, Board Counsel



Attachment A



View of project site from existing asphalt driveway (looking north).

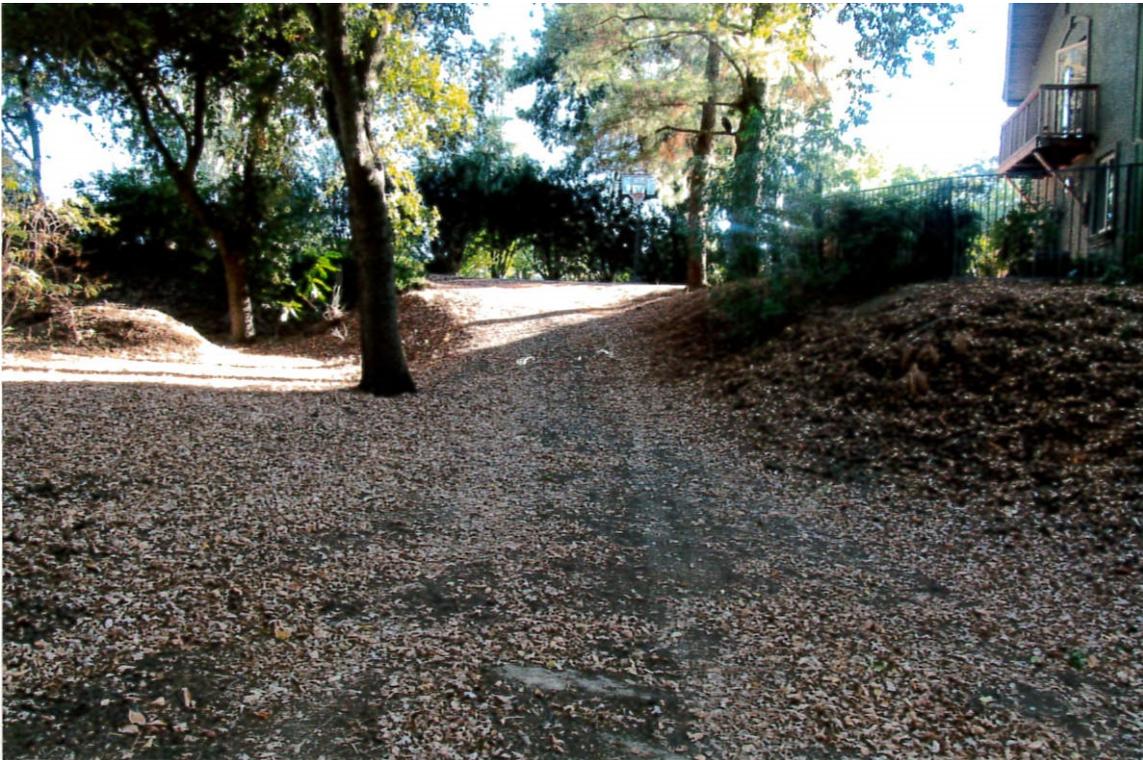


Project site view with Garden Highway visible on right (looking northeast).

Attachment A



View of project site (looking east).



View from project site looking south up toward existing asphalt driveway.

Attachment A



View of project site (looking northwest), neighbor's storage shed visible above current carport.



View of project site (looking northeast), Garden Highway is the background skyline.

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

PERMIT NO. 10818-1 BD

This Permit is issued to:

Roland Candee
10411 Garden Highway
Sacramento, California 95837

To construct a 20' x 30' metal garage on a concrete pad and pave an existing dirt driveway with asphalt.

The project is located on the property at 10411 Garden Highway in Sacramento, at 38.75500°N 121.59222°W, Reclamation District 1000, Sacramento River, Sutter 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: _____

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

Attachment B

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 10818-1 BD

LIABILITY AND INDEMNIFICATION

THIRTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board (Board), Reclamation District No. 1000, and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FOURTEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Board, Reclamation District No. 1000, and the State, safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FIFTEEN: The Board, Department of Water Resources, and Reclamation District No. 1000 shall not be held liable for any damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

AGENCY CONDITIONS

SIXTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications dated July 9, 2014 except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the

Board.

SEVENTEEN: The Board reserves the right to add additional, or modify existing, conditions when there is a change in ownership and/or maintenance responsibility of the work authorized under this permit.

EIGHTEEN: The permittee shall be responsible for the repair of any damages to the project levee, channel, banks, floodway, or other flood control facilities due to construction, operation, or maintenance of the proposed project.

NINETEEN: The permittee shall comply with all conditions set forth in the letter from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated November 9, 2016 which is attached to this permit as Exhibit A and is incorporated by reference.

TWENTY: If damage to the structure exceeds 50 percent of its market value within a 10-year period, the structure cannot be rebuilt or replaced without approval of the Board. If the structure is not repaired or replaced, the remaining portion must be completely removed from the floodway prior to the next flood season.

TWENTY-ONE: The proposed structure shall not be used for human habitation.

TWENTY-TWO: Permittee shall pay to the Board, an inspection fee(s) to cover inspection cost(s), including staff and/or consultant time and expenses, for any inspections before, during, post-construction, and regularly thereafter as deemed necessary by the Board.

PRE-CONSTRUCTION

TWENTY-THREE: The permittee shall notify Reclamation District 1000 one week in advance of the start of construction.

TWENTY-FOUR: Upon receipt of a signed copy of the issued permit the permittee shall contact the Board by telephone at (916) 574-0609, and submit the enclosed postcard, to schedule a preconstruction conference with the inspector that is assigned to your project. Failure to do so at least 10 working days prior to start of work may result in a delay of the project.

CONSTRUCTION

TWENTY-FIVE: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Board. Failure to submit a Time Variance Request to the Board at least 10 working days prior to November 1 may result in a delay of the project.

TWENTY-SIX: Cleared trees and brush shall be properly removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

TWENTY-SEVEN: The proposed structure shall be properly anchored to prevent floatation into the

floodway in the event of high water.

POST-CONSTRUCTION

TWENTY-EIGHT: All debris generated by this project shall be properly disposed of outside the floodway.

OPERATIONS AND MAINTENANCE

TWENTY-NINE: After each period of high water, debris that accumulates at the site shall be completely removed from the floodway.

THIRTY: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Board, Department of Water Resources, Reclamation District No. 1000, or any other agency responsible for maintenance and shall, at all times, allow officials from these agencies to access the levee, levee slope, and any adjacent areas as necessary for flood control including by providing access to any gates for inspections and levee patrols.

THIRTY-ONE: The permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Board or Department of Water Resources. If the permittee does not comply, the Board may modify or remove the encroachment(s) at the permittee's expense.

PROJECT ABANDONMENT / CHANGE IN PLAN OF FLOOD CONTROL

THIRTY-TWO: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if in the discretion of the Board the removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if the project is not maintained or is damaged by any cause. If the permittee does not comply, or in the event of an emergency, the Board may remove the encroachment(s) at the permittee's expense.

THIRTY-THREE: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Board at the permittee's or successor's cost and expense.

END OF CONDITIONS



REPLY TO
ATTENTION OF

Executive Office (10818-1)

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

Attachment B

Exhibit A

NOV 09 2016

Ms. Leslie M. Gallagher
Executive Officer
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, CA 95821

Dear Ms. Gallagher:

We have reviewed permit application number 10818-1 submitted by Roland Candee to alter the Sacramento River Flood Control Project authorized by the Flood Control Act of 1917, as amended. These plans include constructing a 20 by 30 foot metal garage on a concrete pad and paving an existing dirt driveway with asphalt on the left bank of the Sacramento River at RM 77.37. The project is located at 10411 Garden Highway in Sacramento, at 38.7550°N 121.5922°W NAD83, Sacramento County, CA.

The Sacramento District has reviewed this application and determined that the alteration will not be injurious to the public interest and will not impair the usefulness of the project works. Pursuant to Section 14 of the Rivers and Harbors Act of 1899, 33 U.S.C. 408 (Section 408), the District Engineer approves the request to alter the Federal flood risk reduction project subject to the following conditions:

- a. That in the event trees and brush are cleared, they shall be properly disposed of by either complete burning or complete removal outside the limits of the project right-of-way.
- b. That the proposed metal garage shall be properly anchored to prevent flotation into the floodway during periods of high water.
- c. That if the structure is damaged to any cause, cumulatively to the extent of more than 50 percent of its market value, the structure may not be reconstructed or replaced without the approval of the Board.
- d. That the proposed work shall not interfere with the integrity of the flood risk reduction project; easement access; or maintenance, inspection, and flood fighting procedures.
- e. That materials or equipment stored within the floodway must be securely anchored or removed prior to the flood season.

-2-

f. That any debris generated by this project shall be disposed of outside the limits of the project right-of way.

g. That appropriate property rights shall be acquired prior to any construction. An approval under Section 408 does not grant property rights or exclusive privileges.

h. That if you discover any previously unknown historic properties while accomplishing the activity authorized by this 33 U.S.C. 408 permission, you shall immediately notify the Corps of what you have found. The Corps will initiate any necessary Federal and State coordination to ensure continued compliance with the National Historic Preservation Act.

Based upon the information provided, no Section 10 or Section 404 permit is needed.

A copy of this letter is being furnished to Mr. Don Rasmussen, Chief, Flood Project Integrity and Inspection Branch, 3310 El Camino Avenue, Suite 200, Sacramento, CA 95821.

Sincerely,

A handwritten signature in black ink, appearing to read 'David G. Ray', with a large, stylized flourish extending from the end of the signature.

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

ORDER OF THE RECLAMATION BOARD

3005.70.200

Application No. 10818

The Application of: David R. James, 2306 Morse Avenue, Sacramento, CA 95825

for approval of plans

To construct single family dwelling including carport, septic system and well on existing fill, all on the left bank berm of the Sacramento River, approximately 1/2 mile upstream from Riego Road. Section 36, T. 11 N., R. 3 E., M.D.B.&M., Sutter County. L. M. 1.95, Unit No. 1. (Reclamation District No. 1000)

having been set for hearing on the 15th day of August, 1975, and said

application having been heard on said day: NOW, THEREFORE, IT IS ORDERED, that Application No. 10818 and said plans contained therein are hereby approved and permission to proceed with the work in accordance therewith is hereby granted, subject to all the terms, conditions and restrictions attached hereto which are incorporated herein by reference and made a part hereof.

GENERAL CONDITIONS

ONE: This order is issued under the authority of Sections 8700 - 8723 of the State Water Code;

TWO: This order is to be strictly construed and no work, other than that specifically described herein, is authorized hereby;

THREE: This approval of plans does not carry with it permission to construct any works on lands owned by the Sacramento and San Joaquin Drainage District, nor on any other lands whatsoever;

FOUR: The work hereunder shall be accomplished under the direction and supervision of the State Department of Water Resources and applicant shall conform to all requirements of said Department and the State Reclamation Board, and applicant shall notify said Department of Water Resources, P. O. Box 388, Sacramento, telephone 445-8458, at least three days prior to commencement;

FIVE: This order shall be void unless the work herein contemplated shall have been commenced within 1 year after issuance;

SIX: This order shall remain in effect until revoked. This order is revokable on 15 days' notice in the event that any conditions contained herein are not complied with;

SEVEN: It is understood and agreed by applicant that the commencement of any work under this order shall constitute an acceptance of the provisions of this order and an agreement to perform in accordance therewith;

EIGHT: This order is granted with the understanding that this action is not to be considered as establishing any precedent with respect to any other application received by The Reclamation Board;

NINE: The applicant to whom this order is issued shall, whenever the same is required by law, secure the written order or consent to any work hereunder from any other public agency having jurisdiction;

TEN: Upon completion of the work all waste material and debris shall be entirely removed from the site of the work and the site left in as presentable a condition as before the work started;

ELEVEN: The applicant is responsible for all liability for personal injury or property damage which may arise out of failure on the applicant's part to perform his obligations under this order. In the event any claim of liability is made against the State of California or any department thereof, the United States of America, a local district or other maintaining agency and the officers, agents or employees thereof, applicant shall defend, indemnify and hold them and each of them harmless from such claim;

TWELVE: The applicant agrees by the acceptance of this order to exercise reasonable care to operate and maintain properly any work authorized herein and agrees to conform to standards of operation and maintenance prescribed by the State of California;

THIRTEEN: Applicant shall at his sole cost and expense remove, alter, relocate or reconstruct all or any part of the work herein approved immediately upon the order of The Reclamation Board so to do and in the manner prescribed thereby should said work or any portion thereof not conform to the conditions of this order.

SPECIAL CONDITIONS

FOURTEEN: That the proposed domestic well shall be located at least 10 feet waterward of the waterward toe of the levee.

FIFTEEN: That the waterward toe of the existing fill shall extend no further than 150 feet waterward of the center line of the levee.

SIXTEEN: That the landward side of the proposed dwelling shall be no closer than 10 feet to the waterward toe of the levee.

SEVENTEEN: That the work shall conform with the State Reclamation Board Standards for Reclamation District No. 1000, which are made a part of this Board Order.

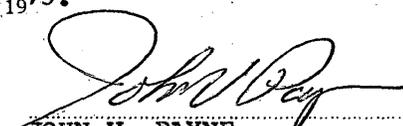
EIGHTEEN: That all existing trees and brush to be cleared shall be completely burned or otherwise removed from the overflow area.

STATE OF CALIFORNIA
COUNTY OF SACRAMENTO } ss.
Office of the Reclamation Board

I, JOHN V. PAYNE do hereby certify that the above and foregoing is a true and correct copy of an Order made by said Board at the above indicated meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Reclamation Board, this 22nd day of August, 1975.

(SEAL)


JOHN V. PAYNE
Assistant Secretary for
Administration
Reclamation Board



DEPARTMENT OF THE ARMY
SACRAMENTO DISTRICT, CORPS OF ENGINEERS
650 CAPITOL MALL
SACRAMENTO, CALIFORNIA 95814

REPLY TO SPKCO-0 (10818)
ATTENTION OF

7 August 1975

The Reclamation Board
State of California
1416 - 9th Street, Room 335
Sacramento, California 95814

Gentlemen:

Reference is made to your letter dated 4 August 1975, inclosing copy of application submitted by David R. James (Reclamation Board No. 10818), for approval of plans. These plans cover a fill, construction of a single family residence, well and septic tank within the Sacramento River left bank overflow area. The location of this proposed work is approximately 0.25 miles upstream from Riego Road, in Section 36, T. 11N., R. 3E., N.D.B.&M., County of Sutter, California.

The District Engineer has no objection to approval of this application by your Board from a flood control standpoint provided approval is subject to the following conditions:

- a. That the fill is constructed at least to elevation 41.5 CofE datum, and the toe of the fill is not more than 150 feet from the centerline of the levee nor less than 30 feet from the top of the riverbank.
- b. That the leach lines from the proposed septic tanks shall be installed at least 30 feet from the project levee toe.
- c. That the proposed well shall be located at least 10 feet waterward of the project waterside levee toe.

Sincerely yours,

G. W. PROBASCO
Chief, Construction-Operations
Division

Copy furnished:
DWR,ATTN: John Wright

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE RECLAMATION BOARD

PERMIT NO. 17781 GM

This Permit is issued to:

Roland Candee
10411 Garden Highway
Sacramento, California 95837

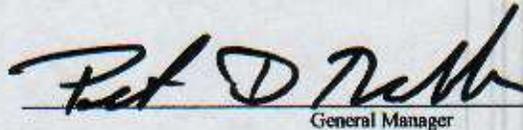
RECEIVED
AUG 12 2004
Department of Water Resources

To construct a 30- by 12-foot boat dock, a 52- by 4-foot gangway within the channel attached to a 3- by 6-foot concrete landing, and two cable anchors connected to two 2- by 4-foot concrete pads on the waterside slope of the left (east) bank of Sacramento River. The project is located north of Sacramento, north of Riego Road at 10411 Garden Highway (Section 36, T11N, R3E, MDB&M, Reclamation District 1000, Sacramento River, Sutter County).

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

(SEAL)

Dated: AUG 12 2004


General Manager

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Reclamation Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Reclamation Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Reclamation Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Reclamation Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 17781 GM

THIRTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of The Reclamation Board.

FOURTEEN: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources, Reclamation District No. 1000 or any other agency responsible for maintenance.

FIFTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-1213, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

SIXTEEN: The Reclamation Board, Department of Water Resources, and Reclamation District No. 1000 shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

SEVENTEEN: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, The Reclamation Board may remove the encroachment(s) at the permittee's expense.

EIGHTEEN: The permittee shall be responsible for repair of any damages to the project levee and other flood control facilities due to construction, operation, or maintenance of the proposed project.

NINETEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend and hold harmless the State of California, or any departments thereof, from any liability or claims of liability associated therewith.

TWENTY: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of The Reclamation Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-ONE: No construction work of any kind shall be done during the flood season from November 1 to April 15.

TWENTY-TWO: Cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

TWENTY-THREE: The top of steel guide pipes shall be a minimum distance of 2 feet above the design flood plane elevation of 38.2 feet, NGV Datum.

TWENTY-FOUR: The upstream and downstream ends of the boat dock shall each be anchored in place by a steel cable attached to a concrete deadman. The anchoring system shall be designed by a civil engineer registered in the State of California.

TWENTY-FIVE: Each concrete deadman must be of sufficient size to restrain the floating facility and be a minimum of 1 cubic yard of concrete. A larger concrete deadman may be required for site-specific conditions.

TWENTY-SIX: The proposed floating facilities shall be properly anchored to prevent detachment from the anchoring system during periods of high water.

TWENTY-SEVEN: Debris that may accumulate on the permitted encroachment(s) and related facilities shall be cleared off and disposed of outside the floodway after each period of high water.

TWENTY-EIGHT: Any additional encroachment(s) on the levee section or waterward berm, require an approved permit from The Reclamation Board and shall be in compliance with The Reclamation Board's regulations (Title 23 California Code of Regulations).

TWENTY-NINE: All debris generated by this project shall be disposed of outside the floodway.

THIRTY: The project site shall be restored to at least the condition that existed prior to commencement of work.

THIRTY-ONE: In the event that bank erosion injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by The Reclamation Board, to prevent further erosion.

SACRAMENTO RIVER

DOCK

@ 137'



SEPTIC TANK
LEACH LINES

@ 225'

WELL

DECK

RESIDENCE

CARPORT

SWIM SPA

@ 230'

ASPHALT DRIVEWAY

new 20' x 30' metal garage on slab
new Asphalt on existing dirt driveway

30' EASEMENT

@ 139'

GARDEN HIGHWAY

owners:
Roland & Ellen Candee

Scale
1" = 30'
Sutter County
APN 35-361-005
10411 Garden Highway, Sac., CA

PROJECT: REPLACE EXISTING CAR PORT WITH 20' x 30' metal garage on concrete slab (no electricity), asphalt existing dirt driveway (20' x 75')

877-833-3237

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YOUR ABSOLUTE STEEL STRUCTURE DETAILS:

<p>1. Snowfall Total & Structure Type Snowfall Accumulation: 0 Structure Type: Metal Building Edit this selection</p>	<p>2. Structure Model Structure Model: Teton Edit this selection</p>	<p>3. Structure Size W20 x L30 x H10.5 Edit this selection</p>	<p>4. Details and Customizations Panel Color: Light Stone Trim Color: Patina Green Eave side openings: 0 Gable end door openings: 1 Pedestrian door openings: 1 Window openings: 0 Edit this selection</p>
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If you would like to change your design use the links "Edit this section" to go back to any section.

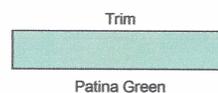
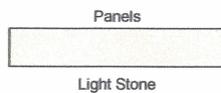
CONGRATULATIONS!
You have completed designing your building!

Selection: Teton Building



The Teton Series has a distinctive residential profile with its 12 inch eaveside overhangs and exterior panels that look like wood ship lap siding. Exterior panels are 26 gauge structural steel for rugged durability and come with the manufacturer 25 year warranty on the finish against fading, chalking or peeling. This assures you of years of maintenance free enjoyment. The horizontal application of the panels allows for a smooth and easy installation.

Selected Colors



Summary of Selected Unit

Frame System	5' on Center	Snowfall	0 inches
Dimensions (W x L x H)	20' x 30' x 10.5'	Add - Eave Side Openings	0
Main Frame Tube Size	2x3	Total - Building Openings	1
Peak Height	13'	Total - Pedestrian Openings	1
Roof Pitch	3/12	Add - Window Openings	0

Building Merchandise Total

The standard building package includes the above described frame system with openings for the pedestrian door(s) and the roll-up/sectional frameout (s) selected. Additionally, it includes all exterior panels and the complete trim package. The price below does not include installation, engineered plans or permits.

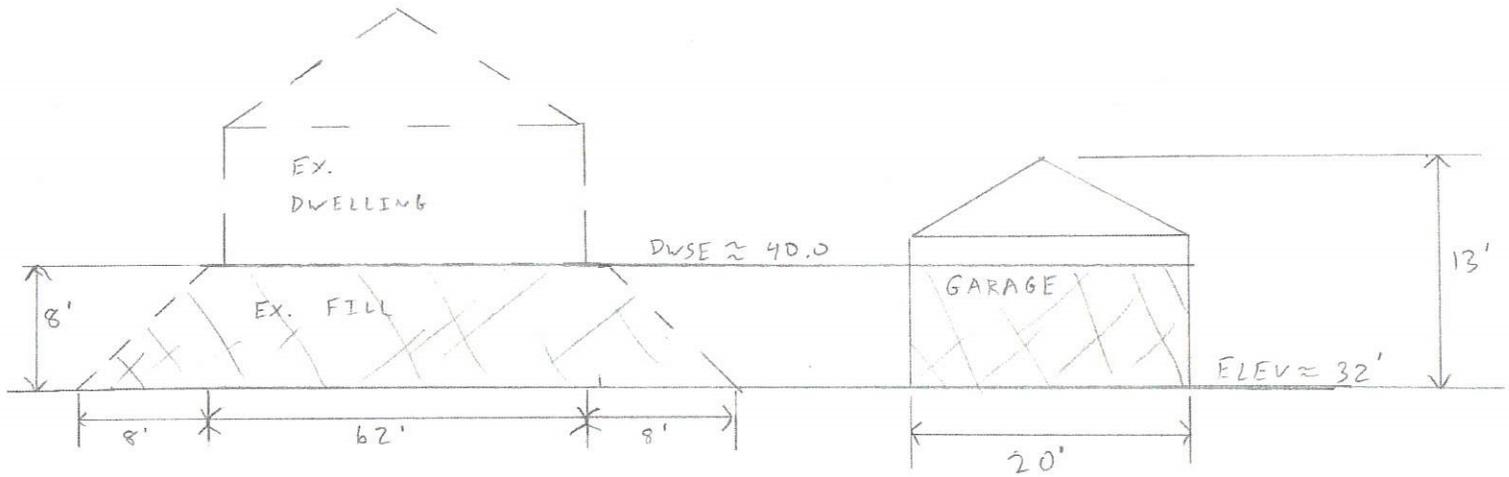
Quote Total: \$7,891.81
Includes Shipping!

[Click here to get a new quote.](#)

Hydraulic Blockage Calculations

Plan: 500LSR SAC NCC to NEMDC RS: 77.231 Profile: 18JAN1900 0900

E.G. Elev (ft)	40.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.29	Wt. n-Val.	0.045	0.033	0.045
W.S. Elev (ft)	40.01	Reach Len. (ft)	1027.19	983.17	920.09
Crit W.S. (ft)		Flow Area (sq ft)	1439.11	20396.14	589.80
E.G. Slope (ft/ft)	0.000071	Area (sq ft)	1439.11	20396.14	589.80
Q Total (cfs)	91484.53	Flow (cfs)	1448.58	89427.45	608.50
Top Width (ft)	771.16	Top Width (ft)	196.85	499.29	75.02
Vel Total (ft/s)	4.08	Avg. Vel. (ft/s)	1.01	4.38	1.03
Max Chl Dpth (ft)	44.12	Hydr. Depth (ft)	7.31	40.85	7.86
Conv. Total (cfs)	10888470.0	Conv. (cfs)	172409.1	10643630.0	72423.7
Length Wtd. (ft)	983.07	Wetted Per. (ft)	208.24	516.96	82.25
Min Ch EI (ft)	-4.11	Shear (lb/sq ft)	0.03	0.17	0.03
Alpha	1.13	Stream Power (lb/ft s)	1124.45	128.23	949.96
FrcIn Loss (ft)	0.07	Cum Volume (acre-ft)	3516.73	42110.41	3049.52
C & E Loss (ft)		Cum SA (acres)	368.99	1065.70	250.83



$$\text{EX. FILL AREA} = 2\left(\frac{1}{2}\right)(8)(8) + 62(8) = 560 \text{ SF}$$

$$\text{GARAGE AREA} = 20(8) = 160 \text{ SF}$$

$$\text{Total Flow Area} = 1,439 + 20,396 + 599 - 560 = 21,873 \text{ SF}$$

$$\text{Hydraulic Blockage} = \frac{160 \text{ SF}}{21,873 \text{ SF}} \times 100 \% = 0.73 \% < 1 \% \checkmark \text{ OK}$$