ADDENDUM NO. 1

CONTRACT NO. 4116
FOR CONSTRUCTION OF

NATOMAS LEVEE IMPROVEMENT PROGRAM

SACRAMENTO RIVER EAST LEVEE PHASE 2D IMPROVEMENTS
AND
LOWER GIANT GARTER SNAKE/DRAINAGE CANAL
CONSTRUCTION PROJECT

SACRAMENTO COUNTY

April 26, 2012

APPROVED BY: SAFCA

Richard M. Johnson
Executive Director

Date

TO ALL PROSPECTIVE BIDDERS:

All prospective bidders are hereby advised that the attached addendum includes amendments to the Contract Documents that were issued by SAFCA on April 13, 2012. The bidders are to review all of the amendments listed herein, and acknowledge receipt of this addendum in the appropriate section of the Proposal Sheet.
AMENDMENTS TO CONTRACT DOCUMENTS

VOLUME 1, PROPOSAL

1. Proposal
   A. Replace the existing Proposal Form with the revised Proposal Form.

VOLUME 1, TECHNICAL SPECIFICATIONS

1. Section 02110, SITE CLEARING AND GRUBBING
   A. Paragraph 3.2.2 "Levee Embankment, Seepage Berm, and Levee Ramps," revise paragraph to read as follows:

   The entire area within the limits of the existing ground to receive seepage berms and ramps, together with strips 5 feet wide beyond and contiguous thereto (except in restricted habitat areas), shall be thoroughly grubbed with the exception of the seepage berm foundation between Stations 460+00 to 464+00 464+41 which shall be mowed and disced per Section 02222 SITE STRIPPING AND EXCAVATION. All tap roots, lateral roots, or other projections over 1-1/2 inches in diameter and 6 inches in length within the seepage berm foundation area shall be removed to a depth of at least 3 feet below the natural surface of the ground.

2. Section 02222, SITE STRIPPING AND EXCAVATION
   A. Paragraph 3.2.2 Description of Work, revise paragraph "b." to read as follows:

   Seepage berm areas (exclusive of mow and disc areas) levee and levee ramp embankment foundations, and ditch backfill areas (South Sutter Downstream Ditch, Reservoir Road Canal and Jacob's Slough terminations) shall be stripped to a depth of 1.0 feet. Areas of the Sacramento River East Levee Station 430+00 to 441+00 to receive fills shall be stripped to a depth of 0.5 feet.

   B. Paragraph 3.2.2 Description of Work, add paragraph "h." to read as follows:

   h. GGS Canal excavation areas shall be stripped to a depth of 0.1 feet.

   C. Paragraph 3.2.3 Relocation and Placement of Material, add text as follows:

   Strappings from the GGS Canal excavation area shall be placed in the Stockpile Reprocess area of the South Sutter site.
D. Paragraph 3.3.2.1 “Mowing,” revise paragraph to read as follows:

Contractor shall mow grasses to a maximum height of 2 inches above grade in areas beneath the proposed seepage berm from SREL Station 460+00 to Station 464+00 464+41. Mowing shall occur only in these areas and stripping activities shall not be performed.

3. Section 02226. EARTHWORK

A. Paragraph 1.4.2, “Levee Embankment (Soil Type 1 and Soil Type 2),” revise heading and paragraphs to delete "Soil Type 2".

B. Paragraph 1.4.12.2, South Sutter Grading “Payment,” revise "soil stockpile" to read "soil stockpiles".

C. Paragraph 2.2.1, “Soil Type 1 Fill (Levee and Canal Embankment Fill Material),” add the following text:

Materials from the GGS Canal excavations that directly meet the Soil Type 1 fill material classification shall be blended with other suitable materials from the GGS Canal excavations in order to generate the total quantity of Soil Type 1 fill materials needed for completion of the work.

D. Paragraph 2.2.2, “Soil Type 2 Fill,” delete existing text and revise to read "Not Used".

E. Paragraph 3.10, “SEEPAGE BERM STATIONS 460+00 TO 464+00,” revise paragraph to read as follows:

3.10 SEEPAGE BERM STATIONS 460+00 TO 464+00 464+41

4. Section 02510. IRRIGATION, PIPING, AND GATES

A. Paragraph 1.2.2.2 “Payment,” revise paragraph to read as follows:

PRECAST BOX CULVERT will be paid for at the contract unit price per linear foot for each respective size, which price shall include full compensation for the complete design and installation of the concrete box culvert, including but not limited to all equipment, labor, transportation, materials, excavation, subgrade preparation, dewatering, precast box culvert, gaskets, joint sealant, polypropylene sheeting, precast or cast-in-place headwalls or wingwalls, bedding, geogrid, drain rock, miscellaneous metals (including handrails), backfill and cover, and surface restoration necessary to complete the work specified.

B. Paragraph 1.2.3.2 “Payment,” revise paragraph to read as follows:

PRECAST BOX CULVERT (INSTALL ONLY) will be paid for at the contract unit price per linear foot for each respective size, which price shall include full compensation for the complete installation of the Agency-furnished concrete box culvert, including but not limited to all equipment, labor, transportation, materials, excavation, subgrade preparation, dewatering, precast or cast-in-place headwalls or wingwalls, repair of Agency-furnished box culverts (if required), bedding, geogrid, drain rock, gaskets, joint sealants, polypropylene sheeting, miscellaneous metals (including handrails), backfill and cover, and surface restoration necessary to complete the work specified.
C. Paragraph 1.2.5.2 “Payment,” revise paragraph to read as follows:

The accepted length of HDPE PIPE will be paid for at the contract unit price per linear foot, which price shall include full compensation for all equipment, labor, transportation, materials, pipe, excavation, subgrade preparation, dewatering, bedding, CLSM (as shown on the Plans), backfill and cover, surface restoration, fittings, flap gate (as shown on the Plans), connections to existing pipe or structures (as required), and testing necessary to complete the work specified.

D. Add section 1.2.12 “Check Structure at Station 98+90,” as follows:

1.2.12 Check Structure at Station 98+90

1.2.12.1 Measurement

Check Structure at GGS Station 98+90 will be measured on a lump sum basis.

1.2.12.2 Payment

Check Structure at Station 98+90 will be paid for at the contract unit price for “CHECK STRUCTURE AT GGS STATION 98+90,” which price shall include full compensation for all equipment, labor, transportation, materials, and incidentals necessary to complete the work, as shown on the Plans, including but not limited to precast concrete weir box, precast concrete twin track weir, mounting bolts and anchors, canal gates, canal gate stem guides, HDPE pipes, connection to existing pipe, pipe penetrations, waterstops, grout, fasteners, plank grating and supports, excavation, subgrade preparation, dewatering (if required), bedding, miscellaneous metals (including handrails and safety chains), flashboards, compacted embankment, CLSM backfill (as required), backfill and cover, rock slope protection, grading, structural steel, cast-in-place concrete and concrete finishing, modifications to the welded steel pipe and pipe supports at GGS Station 99+60, removal and disposal of wasted material, and surface restoration necessary to complete the work specified.

1.2.12.3 Unit of Measure

Unit of Measure: Lump Sum.

E. Add section 1.2.13 “South Sutter Irrigation Turnout Structures,” as follows:

1.2.13 South Sutter Irrigation Turnout Structures

1.2.13.1 Measurement

South Sutter Irrigation Turnout Structures will be measured per each.

1.2.13.2 Payment

South Sutter Irrigation Turnout Structures will be paid for at the contract unit price for “SOUTH SUTTER IRRIGATION TURNOUT STRUCTURES,” which price shall include full compensation for all equipment, labor, transportation, materials, and incidentals necessary to complete the work, as shown on the Plans, including but not limited to HDPE pipes, precast concrete manhole and manhole cover, manhole connections, fasteners, excavation, subgrade preparation, dewatering (if required), bedding, backfill and cover, grading, removal and disposal of wasted material (as required), and surface restoration necessary to complete the work specified.
1.2.13.3 **Unit of Measure**

**Unit of Measure:** Each.

F. Add section 2.1.7 "Precast Concrete Manhole" as follows:

**2.1.7 Precast Concrete Manhole**

Conform to detail on Plans.


**Top Section:** Eccentric core type, unless flat slab top indicated (Flat slab shall be designed to withstand HS-20 loading).

**Joint Sealant:** ASTM C 443, Rubber Gasket Joints.

**Frame and Grate:** Neenah Foundry R-1575, or equal.

Pipe connections to the precast concrete manholes shall be made with resilient connectors conforming to ASTM C 923.

G. Add section 2.2.4 "Drain Rock" as follows:

**2.2.4 Drain Rock**

Drain rock for box culvert foundation shall be composed of tough, durable particles, adequately free from thin, flat and elongated pieces, and shall contain no organic matter nor soft, friable particles in quantities considered objectionable by the Agency. The aggregate shall meet the quality requirements of ASTM C33/C33M. Gradation shall conform to the following requirements:

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<td>1-inch</td>
<td>15-25</td>
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<tr>
<td>1/2-inch</td>
<td>0-3</td>
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5. **Section 02825. FENCES AND GATES**

A. Paragraph 2.1.1.2 "Seismic," revise paragraph to read as follows:

Zone 3 seismic force applied at center of gravity of the above-ground portion of the gate.

**VOLUME 1, REFERENCES**

1. **Section REFERENCES**

A. The California Regional Water Quality Control Board Water Quality Certification has been modified for this project. The amendment modifies the original permit and has been added to the reference.
B. The Department of the Army Permit has been modified for this project. The amendment modifies the original permit and has been added to the reference.

C. A Notice of Intent for NPDES Waste Discharge Permit, Order Number R5-2008-0081, NPDES number CAG995001, for Dewatering and Other Low Threat Discharges to Surface Waters has been added to the Reference section. Note that the extraction wells shown on the figures attached to the NOI are identified for permitting purposes only. The Contractor shall be required to install as many wells as are required to meet the requirements of the specifications.

VOLUME 2, PLANS

1. Replace the following sheets in Volume 2:
   - GC-001
   - GC-013
   - GP-002
   - GP-003
   - GP-005
   - GP-007
   - CD-001
   - CD-005
   - CD-006
   - CD-007
   - CD-008
   - CD-009
   - CD-011
   - CD-012
   - SD-002
   - GX-001
   - GX-002

2. Add the following sheets in Volume 2:
   - CD-017
   - CD-018
   - CD-019
   - CD-020
   - SD-002A
   - SX-001
   - SX-002

3. Drawing GC-003, Sheet 11
   A. Note 3 on Drawing GC-003 Sheet 11 shall apply to all existing stockpiles within the GGS Canal excavation areas shown on Drawing GC-004 Sheet 12 through Drawing GC-013 Sheet 21.

4. Drawing GP-008, Sheet 31
   A. Revise the Culvert #8 plan and profile view details as follows:
   Add a note to REMOVE AND WASTE EXISTING 15" HDPE PIPE from Station 4+05 +/- to 4+65 +/-
Add a note to REMOVE AND WASTE EXISTING 15" HDPE PIPE from Station 7+56 +/- to 7+87 +/-.

Add a note to BACKFILL THE EXISTING DITCH AND RESTORE GROUND TO THE FINISH GRADES AS SHOWN from Station 4+65 +/- to 7-56 +/-.

5. **Drawing GP-009, Sheet 32**

   A. Add call-out to REMOVE, SALVAGE AND REINSTALL EXISTING CANAL, SAFETY LADDER AND BAR SCREEN ON NEW TWIN TRACK WEIR.
   
   B. Revise call-out on new twin track weir to read: 4' WIDE TWIN TRACK WEIR 6' HIGH WITH PLANK GRATING WALKWAY.
   
   C. Revise call-out to read: EXISTING RAMP TO FIELD ROAD TO BE REGRADED TO REFLECT NEW CANAL GRADING.
   
   D. Add call-out to PROTECT EXISTING IRRIGATION PIPE AND CONDUCTOR SLEEVE IN-PLACE.

6. **Drawing CD-009, Sheet 44, Plan View A**

   A. Clarification: The Contractor shall be aware of the existing pipe from the Schoolhouse Road Pipeline (approximate Schoolhouse Road Pipeline Station 26+75) to the Sandy Canal. The centerline of this pipe is shown in Plan View. The Contractor shall protect this pipe in place during construction.

**VOLUME 3. PLANS**

1. **Replace the following sheets in Volume 3:**
   
   C-302

2. **Drawing G-201, Sheet 8**

   A. Revise "Note 1" to read as follows:
   
   CONTRACTOR SHALL REMOVE AND REUSE EXISTING AB IN LOWER LIFT OF ACCESS ROAD, TOE ROAD ACCESS, AND SEEPAGE BERM ROAD.
   
   B. Revise call-out as follows:
   
   Modify "EXISTING BERM (TO REMAIN) to read "EXITING LEVEE (TO REMAIN)"

3. **Drawing G-202, Sheet 9**

   A. Revise "Note 1" to read as follows:
   
   CONTRACTOR SHALL REMOVE AND REUSE EXISTING AB IN LOWER LIFT OF ACCESS ROAD, TOE ROAD ACCESS, AND SEEPAGE BERM ROAD.
4. **Drawing C-203, Sheet 14**
   A. Revise “Note 1” to read as follows:
      
      REFER TO DRAWING C-501 FOR RAMP STA 458+75 STA 458+73 LAYOUT

5. **Drawing C-502, Sheet 19**
   A. Revise the dimension in the “TOE ROAD PIPE GATE PLAN VIEW” as follows:
      Replace 54” with 4.5’

**CONTRACTOR'S QUESTIONS**

1. **Contractor's Questions**
   A. Attached please find Mead & Hunt’s responses to Contractor Questions received up to April 25, 2012.
SACRAMENTO AREA FLOOD CONTROL AGENCY
CONTRACT NO. 4116

NATOMAS LEVEE IMPROVEMENT PROGRAM
LOWER GIANT GARTER SNAKE / DRAINAGE CANAL CONSTRUCTION PROJECT

SUBMIT BID TO:
Office, Clerk of the Board
County Administration Center
700 H Street, Suite 2450
Sacramento, California 95814

BID OPENING:
County Administration Center
700 H Street, Suite 2450
Sacramento, California 95814

NO LATER THAN: 2:00 P.M.
DAY OF BID

TO: Honorable Board of Directors
Sacramento Area Flood Control Agency

I. BID

Pursuant to your published Notice to Contractors for the above-referenced project, and in accordance with the approved Plans and Specifications for that project, the following bid for said entire project is submitted by the firm indicated on Sheet 4 of this Bid Form.

Total Bid Price to be the total of the Lump Sum Cost and Unit Prices as described in the following bid table:

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<th>Estimated Quantity</th>
<th>Unit</th>
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**TOTAL SCHEDULE A BID PRICE (Items A1-A41):**
BID SCHEDULE B – SACRAMENTO RIVER EAST LEVEE PHASE 2D IMPROVEMENTS (PLAN VOLUME 3)

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<td>Pipe Gate</td>
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<td>EA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL SCHEDULE B BID PRICE (Items B1-B12):

BID SCHEDULE C – BUILDER’S RISK INSURANCE

<table>
<thead>
<tr>
<th>Line Item</th>
<th>Item Description</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Builder’s Risk Insurance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL SCHEDULE C BID PRICE (Item C1):

SUBTOTAL SCHEDULE A:
SUBTOTAL SCHEDULE B:
SUBTOTAL SCHEDULE C:
TOTAL BID SCHEDULE (A+B+C):

Notes:
1. All quantities are in-place quantities.
2. Prices must be submitted on all individual items for the Bid Schedules. Failure to do so will result in rejection of the bid.
3. See Specification Section 8-1 regarding payment for mobilization and demobilization.
4. In the event that the product of a unit price and an estimated quantity does not equal the extended total price stated, the unit price will govern and the correct product of the unit price and the estimated quantity shall be deemed the bid amount.

II. ADDENDA

Acknowledgement is hereby made of receipt and incorporation of all addenda, up to and including addendum number __________, into this bid.

III. BID GUARANTY

Bid Security must be a bidders bond, a certified check or cashier’s check payable to Sacramento
Area Flood Control Agency. Bid secured by personal checks or personal guarantees will be rejected.

IV. DEBARMENT

The bidder certifies, by submission of this proposal or acceptance of this contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in a federally-funded contract by any federal department or agency. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts.

V. BID ATTACHMENTS

A. Subcontractor Listing

In accordance with the California Public Contract Code, Division 2, Part 1, Chapter 4, Section 4100 and following, the subcontractors listed on Attachment A to this Bid Form will perform the indicated work on improvement on this project. Attachment A is hereby incorporated into and made a part of this bid.

VI. TYPE OF BUSINESS (CHECK ONE)

☐ CORPORATION
STATE OF INCORPORATION: __________________________

☐ PARTNERSHIP

☐ JOINT VENTURE

☐ PRIVATE INDIVIDUAL

☐ INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

VII. FIRM

Firm Name: ___________________________________________

Mailing Address: ________________________________________

__________________________________________________________________

Physical Address: ____________________________________________

__________________________________________________________________
Telephone: ( )
Fax: ( )
Contractor’s License Classification:
Contractor’s License Number:
Contractor’s License Expiration Date:

I hereby certify under penalty of perjury that the above statements are true.

Bid and certification submitted by:

Signature: __________________________
(Authorized Representative)

Print: __________________________

Title: __________________________

THE AGENCY RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND, TO VERIFY ALL OF THE ABOVE INFORMATION, AND TO REQUIRE ADDITIONAL INFORMATION AND DOCUMENTATION FROM BIDDERS. FAILURE TO COMPLY MAY RENDER THE BID NON-RESPONSIVE AND MAY RESULT IN ITS REJECTION.
VIII. NONCOLLUSION DECLARATION (MUST BE EXECUTED BY BIDDER AND SUBMITTED WITH BID)

The undersigned declares:

I am the ____________________________________________ (title) of ____________________________________________ (name of entity), the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on ___________________________ (date), at ____________________________________________ (city), __________ (state).

__________________________________________
(signature)
ATTACHMENT A

DESIGNATION OF SUBCONTRACTORS

The following are the types or work, name and business location of all subcontractors who will perform work or labor or render service to the Bidder in, or about, the work in accordance with the approved Plans and Specifications, in an amount in excess of one-half percent (0.5 %) of the General Contractor's Total Bid. Attach additional sheets as necessary.

The Bidder shall list by percentage the portion of the work for the identified Bid Item to be performed by the listed subcontractor. The percentage shown in the Percent of Bid Item column below shall be the percentage of the Bid Item work that the listed subcontractor is performing. Do NOT list the percentage of the Total Bid amount or Total Work amount in that column.

The three low Bidders, or apparent low Bidders, shall submit a listing of license numbers by subcontractor within three (3) calendar days of bid opening. The Contractor is directed to General Specification Section 2-8 regarding the listing of subcontractors.

<table>
<thead>
<tr>
<th>Type of Work</th>
<th>Percent of Bid Item</th>
<th>Bid Item No(s.)</th>
<th>Subcontractor</th>
<th>Place of Business</th>
</tr>
</thead>
<tbody>
<tr>
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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
WATER QUALITY CERTIFICATION
Central Valley Regional Water Quality Control Board

16 April 2012

John Bassett  
Sacramento Area Flood Control Agency (SAFCA)  
1007 7th Street, 7th Floor  
Sacramento, CA 95814

CERTIFIED MAIL  
7010 2970 0003 8939 5062

NOTICE OF APPLICABILITY OF THE CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION, NATOMAS LEVEE IMPROVEMENT PROGRAM LANDSLIDE IMPROVEMENTS PHASE 3B PROJECT (WDID#5A34CR00467A3), SACRAMENTO COUNTY

On 24 May 2011, SAFCA filed a notification requesting coverage under the Clean Water Act § 401 Technically Conditioned Water Quality Certification (Certification) for the Natomas Levee Improvement Program Landslide Improvements Phase 3B Project (WDID#5A34CR00467) in concordance with the provisions of the 25 May 2010 Programmatic Amendment (WDID#5A34CR00482).

After review of the notification and supplemental material submitted by the SAFCA, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has determined that the project qualifies for coverage under the Phase 3B Certification based on the provisions of the 25 May 2010 Programmatic Amendment. This Notice of Applicability (NOA) has been assigned a Central Valley Water Board tracking number of WDID#5A34CR00467A3

PROJECT DESCRIPTION: The Walnut Road West Ditch (Ditch) will be modified to accommodate additional flow capacity. Approximately 960-feet of the Ditch will be re-graded; temporarily impacting 0.19 acre of waters of the United States. The Ditch modifications are considered temporary since the function of the Ditch will be restored in one construction season.

EXCAVATION AREA: Approximately 304 cubic yards of native soil will be removed from 0.19 acre of waters of the United States.

PROJECT LOCATION: Section 25, Township 10 North, Range 3 East, MDB&M.  
Latitude: 38°77’32” N and Longitude: 121°59’81” W

APPLICATION FEE PROVIDED: A check in the amount of $1,163.00 have been submitted to the Central Valley Water Board as required by § 3833(b)(3)(A) and § 2200(a)(3) of the California Code of Regulations.

CONDITIONS OF APPROVAL:  
The SAFCA must comply with the requirements specified in the Phase 3B Certification and 25 May 2010 Programmatic Amendment. Failure to comply with the requirements and conditions may result in an enforcement action taken by the Central Valley Water Board. The Applicant must also comply with all other state and federal laws that apply to this project. Please attach this NOA to the Phase 3B Certification.
In addition, the SAFCA must implement the mitigation and minimization measures that were proposed in the SAFCA's 24 May 2011 notification for coverage under the Phase 3B Certification. If state or federal sensitive species are found within any of the project sites, the SAFCA must immediately contact the Central Valley Water Board.

If you have any questions regarding this NOA, please contact me at (916) 464-4849 or email sanderson@waterboards.ca.gov

Skyler Anderson
Environmental Scientist

cc: Distribution List, page 3
DISTRIBUTION LIST

Kathleen Dadey
United States Army Corps of Engineers
Sacramento District Office
Regulatory Division
1325 J Street, Suite 1350
Sacramento, CA  95814-2922

United States Fish & Wildlife Service
Sacramento Fish & Wildlife Office
2800 Cottage Way
Sacramento, CA  95825

Sandi Jacks
Department of Fish and Game
1701 Nimbus Road, Suite A
Rancho Cordova, CA  95670

Bill Jennings
CA Sportfishing Protection Alliance
3536 Rainier Avenue
Stockton, CA  95204

(Electronic copy only) Bill Orme
State Water Resources Control Board
401 Certification and Wetlands Unit Chief

(Electronic copy only) Jason A. Brush
Wetlands Office Supervisor (WTR-8)
United States Environmental Protection Agency

Eric Htain
AECOM, Inc.
2022 J Street
Sacramento, CA  95811
DEPARTMENT OF THE ARMY PERMIT
April 18, 2012

Regulatory Division SPK-2008-01039

Richard M. Johnson
Sacramento Area Flood Control Agency
1007 7th Street, 7th Floor
Sacramento, California 95814

Dear Mr. Johnson:

We are responding to your consultant’s request to modify your Department of the Army permit number SPK-2008-01039. The permit was issued on April 14, 2010 for the Natomas Levee Improvement Program Landside Improvements Project, Phase 3b. The project is located on the Sacramento River, Section 16, Township 10 North, Range 4 east, Mount Diablo Meridian, Sacramento County, California. The modification request involves grading (widening) of a portion of the Walnut Road West Ditch. These activities would result in temporary impacts into 0.19 acre of waters.

Permit number SPK-2008-01039 is hereby modified as follows: By this letter we are authorizing additional temporary impacts of 0.19 acre to waters of the U.S. (Walnut Road West Ditch).

You must comply with the terms and conditions of the U.S. Fish and Wildlife Service’s modified Biological Opinion (81420-2009-F-0890-R005) dated September 14, 2011 (enclosed).

All other terms and conditions of the permit remain in full force and effect. Failure to comply with the terms and conditions of this authorization may result in the suspension or revocation of your permit.

Please refer to identification number SPK-2008-01039 in any correspondence concerning this project. If you have any questions, please contact Kathleen Daday, email
Kathleen.A.Dadey@usace.army.mil, or telephone 916-557-7253. For more information regarding our program, please visit our website at www.spk.usace.army.mil/regulatory.html.

Sincerely,

[Signature]

Michael S. Jewell
Chief, Regulatory Division

Enclosure

Copy Furnished without enclosure:

Mr. Jason Brush, USEPA, WTR-8, 75 Hawthorne St., San Francisco, California 94105
Mr. Skyler Anderson, Central Valley Regional Water Quality Control Board, 11020 Sun Center Drive, #200, Rancho Cordova, California 95670-6114
Mr. Eric Htain, AECOM, Inc., 2020 L Street, Sacramento, California 95814
STATE WATER RESOURCES CONTROL BOARD NOTICE OF INTENT FOR COVERAGE UNDER GENERAL CONSTRUCTION STORM WATER PERMIT
April 25, 2012

Mr. Mike Negrete
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive
Rancho Cordova, CA 95670

Subject: Permit Submittal for NLIP Phase 3 Landslide Improvements Project – GGS / Drainage Canal

Dear Mr. Negrete:

Please find attached the hard copy NPDES Waste Discharge Permit, Order Number R5-2008-0081, NPDES number CAG995001, for Dewatering and Other Low Threat Discharges to Surface Waters, for the Natomas Levee Improvement Program (NLIP) Phase 3 Landside Improvements Project – GGS / Drainage Canal. Also enclosed with the permit application is the Notice of Intent, a supplementary letter and the application filing fee. SAFCA has read the NPDES Waste Discharge Permit, Order Number R5-2008-0081, and will comply with all conditions.

We trust that the construction, monitoring, and treatment measures to be implemented as part of this project will ensure the protection of the beneficial uses of the GGS / Drainage Canal receiving waters. Please do not hesitate to contact me at (916) 704-8731 or bassettj@saccounty.net or Eric Htain of AECOM at (916) 414-5800 or eric htain@aecom.com if you have any questions or comments regarding this permit application. Thank you.

Sincerely,

John A. Bassett
Director of Engineering

Attachments

cc: Eric Htain, AECOM
# NOTICE OF INTENT

TO COMPLY WITH THE TERMS OF  
GENERAL ORDER NO. R5-2008-0081  
FOR  
DEWATERING AND OTHER LOW  
THREAT DISCHARGES TO SURFACE WATER

## A. CONTRACTOR/OPERATOR

| Name: Sacramento Area Flood Control Agency - See NOI Supplementary Letter |
| Mailing Address: 1007 7th Street, Floor 7 |
| City: Sacramento | State: CA | ZIP: 95814 | Phone: (916) 874-7606 |
| Contact Person: John A. Bassett, Director of Engineering |

- Contractor [ ]  
- Operator [ ]  
- Contractor / Operator [ ]

Signature: [Signature]

Date: [Date]

## B. PROPERTY OWNER

| Name: Sacramento Area Flood Control Agency |
| Mailing Address: 1007 7th Street, Floor 7 |
| City: Sacramento | State: CA | ZIP: 95814 | Phone: (916) 874-7606 |
| Contact Person: John A. Bassett, Director of Engineering |

Signature: [Signature]

Date: [Date]

## C. WATER SUPPLIERS (IF APPLICABLE)

| Name: Not Applicable |
| Mailing Address: |
| City: | State: | ZIP: | Phone: |
| Contact Person: |

Signature: [Signature]

Date: [Date]

## D. BILLING ADDRESS

| Name: Same as Box “B” |
| Mailing Address: |
| City: | State: | ZIP: | Phone: |
| Contact Person: |

1. If additional owners/operators are involved, provided the information in a supplementary letter.
2. If property owners are involved, provided the information in a supplementary letter.
3. I hereby certify under penalty of perjury that the information provided in this application and in any attachments is true and accurate to the best of my knowledge. By signing this NOI, I agree to closely monitor and stop the discharge if there is any violation of the General Permit. The Regional Board will be immediately notified of any violation, of the General Permit.

Attachment G – Notice of Intent  
FORM AMENDED: 22 August 2008  
G-1
E. PROFESSIONAL ENGINEER

If a professional engineer has evaluated the existing or proposed discharge for compliance with this General Order, identify.

Name: James Lorenzen, Parsons Brinckerhoff
Mailing Address: 2329 Gateway Oaks Drive, Suite 200
City: Sacramento, State: CA, ZIP: 95833, Phone: (916) 415-8202
Signature: Certificate No.: Date:

F. DISCHARGE LOCATION

Street (including address, if any): See Attached NOI Supplementary Letter
City / County:
Nearest Cross Street(s):
Township/Range/Section: T_____, R______, Section, ___, MDB&M
Attach a map of at least 1:24000 (1" = 2000') showing the discharge site (e.g., USGS .5' topographic map). The map should also show the treatment system, discharge point and surface waters. Wells and residences with 1,500 feet shall be identified.

G. DISCHARGE INFORMATION

Identify type of discharge: See Attached NOI Supplementary Letter
☐ Well Development Water
☐ Construction Dewatering
☐ Pump / Well Testing
☐ Water Supply System
☐ Pipeline / Tank Pressure Testing
☐ Pipeline / Tank Flushing or Dewatering
☐ Condensate
☐ Other
If other, please describe: Not Applicable
If additives are in the discharge, describe and quantify: Not Applicable
Start Date: July 1, 2012
Stop Date (estimate): October 31, 2012
Discharge Rate (MGD): 0.12
Continuous ☐ Intermittent ☐

H. EVALUATION OF RECLAMATION OPTIONS

Provide an evaluation of reclamation options and justification for selecting a surface water disposal alternative. If no alternative disposal options are viable, explain why (attach additional sheet as necessary). If alternative disposal options are feasible, contact the Regional Water Board. This Order does not apply if there is no discharge to surface waters. See Attached NOI Supplementary Letter

Is discharge to the local municipal wastewater treatment plant a viable option? ☐ YES ☐ NO
Is land disposal a viable option? ☐ YES ☐ NO
Is underground injection a viable option? ☐ YES ☐ NO

1 Water suppliers that have more than existing or proposed discharge point are not required to complete this section. Dischargers other than water suppliers with more than one existing or proposed discharge point should provide the information in a supplementary letter.

Attachment G – Notice of Intent

FORM AMENDED: 22 August 2008
G-2
## I. TREATMENT SYSTEM

Identify type of treatment system:  
- [ ] None  
- [ ] Pond  
- [x] Other

- Provide narrative and schematic descriptions of the existing or proposed treatment system and engineering blueprints signed by a Registered Engineer or Geologist. If there is no treatment system, describe why treatment is not necessary. See Attached NOI Supplementary Letter

## J. RECEIVING WATER INFORMATION

Name of receiving waterbody: Upper GG5 Canal, Walnut Road Ditch, Jacob Slough, Reservoir Road Ditch, School House Road Ditch, West Drainage Canal

Name of major downstream waterbody: Sacramento River

## K. CATEGORICAL EXCEPTION FOR PRIORITY POLLUTANT CRITERIA / OBJECTIVES

Is the discharge necessary to implement control measures regarding drinking water conducted to fulfill statutory requirements under the federal Safe Drinking Water Act or the California Health and Safety Code?  
- [ ] YES  
- [ ] NO

If yes, the discharger shall submit the following for the approval of the Executive Officer:

- [ ] A detailed description of the proposed action, including the proposed method of completing the action.
- [ ] A time schedule.
- [ ] A discharge and receiving water quality monitoring plan (before project initiation, during the project, and after project completion, with the appropriate quality and quality control procedures).
- [ ] CEQA documentation.
- [ ] Contingency plans.
- [ ] Identification of alternate water supply (if needed).
- [ ] Residual waste disposal plans.

## L. WASTEWATER SAMPLING

- Provide the results of analysis of the existing or proposed effluent for pollutants listed in Attachment B. Dischargers applying for a categorical exception for meeting the priority pollutant criteria / objectives as authorized by section 5.3 of the SIP are not required to perform wastewater sampling for the priority pollutants contained in Attachment B. Dischargers of low volume dischargers seeking an exception to the sampling requirements contained in Attachment B must submit justification that the existing or proposed discharge will have no significant adverse impact on water quality. See Attached NOI Supplementary Letter.

- [ ] Provide the results of analysis of the existing or proposed effluent for pollutants listed in Attachment C (if applicable).

- Provide the results of analysis of the existing or proposed effluent and the upstream receiving water for hardness.

- [ ] Provide the results of analysis of the existing or proposed effluent for pollutants causing impairment under the current CWA 303(d). List if discharging or proposing to discharge to impaired surface water. The list of impaired surface waters can be found under the CWA Section 303(d) list at the website: http://www.waterboards.ca.gov/tmdl/303d_lists2006approved.html

- [ ] Provide the analytical data from the laboratory.

---

Attachment G – Notice of Intent

FORM AMENDED: 22 August 2008

G-3
### M. POLLUTION PREVENTION AND MONITORING AND REPORTING PLAN

- Water suppliers with more than one discharge point shall submit a Pollution Prevention and Monitoring and Reporting Plan which contains all of the elements identified in Attachment H. See Attached NOI Supplementary Letter

### N. FEE REQUIREMENTS

- Provide the applicable fees. Information concerning the applicable fees can be found at [http://waterboards.ca/gov/fees](http://waterboards.ca/gov/fees). Checks must be made payable to the State Water Resources Control Board.
A. Contractor

SAPCA has been listed as the contractor for NOI submittal purposes. Once the contract for the work has been awarded, the NOI will be amended to identify the actual contractor who will assume all dewatering, water quality control, and reporting responsibilities.

F. Discharge Locations

SAPCA proposes seven discharge locations for the Natoma Levee Improvement Program Phase 3 Landside Improvements Project - GGS / Drainage Canal as listed in Table 1.

<table>
<thead>
<tr>
<th>Discharge Point</th>
<th>Street</th>
<th>Nearest Cross Street</th>
<th>City / County</th>
<th>Township / Range / Section*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper GGS Drainage Canal</td>
<td>Approximately 900 feet east of Garden Highway</td>
<td>Approximately 1,800 feet northeast of Reservoir Road</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 24</td>
</tr>
<tr>
<td>Walnut Road Ditch</td>
<td>Walnut Road</td>
<td>Approximately 500 feet northeast of Reservoir Road</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 24</td>
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<tr>
<td>Jacob Slough</td>
<td>Walnut Road</td>
<td>Approximately 300 feet northeast of Reservoir Road</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 24</td>
</tr>
<tr>
<td>Reservoir Road Ditch</td>
<td>Reservoir Road</td>
<td>Approximately 100 feet west of Schoolhouse Road</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 25</td>
</tr>
<tr>
<td>School House Road Ditch #1</td>
<td>School House Road</td>
<td>Approximately 2,200 feet north of West Elkhorn Boulevard</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 25</td>
</tr>
<tr>
<td>School House Road Ditch #2</td>
<td>School House Road</td>
<td>Approximately 200 feet south of West Elkhorn Boulevard</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 36</td>
</tr>
<tr>
<td>West Drainage Canal</td>
<td>Approximately 600 feet north of Bayou Road</td>
<td>Approximately 900 feet southeast of Schoolhouse Road</td>
<td>Unincorporated Sacramento County</td>
<td>T 10N, R 3E, Section 36</td>
</tr>
</tbody>
</table>

*USGS Taylor Monument Quadrangle 7.5 Minute Series (Topographical)

G. Discharge Information

As part of the Natoma Levee Improvement Program Phase 3 Landside Improvements Project, excavations are required for constructing the GGS / Drainage Canal. Because these excavations would extend below groundwater levels, they would require that the water table in the immediate area of the excavation be drawn down during construction to below project depth. The depth below ground to the water table varies from approximately five feet in the north to approximately 15 feet in the south. The dewatering wells would extend approximately ten feet below the water table. Thus, the depth of the dewatering wells would range from approximately 15 feet to 25 feet. Groundwater would be pumped from the excavated area continuously for up to 16 weeks utilizing approximately 100 wells with small submersible pumps. The pumps are anticipated to pump between 80-100 gallons per minute
with a steady flow estimate at 1.8 cubic feet per second (cfs). The electric submersible pumps would be powered by trailer-mounted generators. The wells would be screened and gravel packed to reduce intake of foundation soil materials. A temporary pipe would be installed as a conductor casing in each dewatering well at the excavation site. If necessary, water would be run through a tank for sediment removal prior to discharge. The discharge treatment system, described in Section I below, would be set up after all wells have been installed.

At this time, SAFCA has identified two alternative discharge methods for extracted groundwater along the GGS / Drainage Canal.

**Seven Discharge Points**

As shown in Exhibits 1 and 2, the contractor would construct segments along the GGS / Drainage Canal between check structures, which are permanent fixtures of the project. The contractor would also construct extraction wells, which would be located along the hinge point of the GGS / Drainage Canal channel slope and centered around the check structures. Contractors would pump extracted groundwater from the wells into a pipe which would then convey the water to either another pipe or hose that discharges directly to a single discharge point. SAFCA has identified seven potential discharge points, including the Upper GGS / Drainage Canal, Walnut Road Ditch, Jacob Slough, Reservoir Road Ditch, School House Road Ditch #1, School House Road Ditch #2, and West Drainage Canal. The discharge pipe or hose would be overland (i.e., not submerged into the receiving waters). Depending on the water table and site conditions during construction, the contractor may utilize all seven of the discharge points or a combination thereof. The contractor would construct twelve check structures; however, the exact number of extraction wells would also be determined by the contractor during construction. The contractor will report all discharges by location to the Central Valley Regional Water Quality Control Board according to the monitoring and report requirements.

**West Drainage Canal Discharge Point Method**

Unlike the previous method, the contractor would only utilize one discharge point which would be the West Drainage Canal. Although Exhibits 1 and 2 depict seven discharge points, only the West Drainage Canal would be utilized under this method. The remaining features identified in Exhibits 1 and 2 would apply to this method. Dewatering would occur in stages with segments of the canal being completed from south to north. As previously mentioned, extraction wells would be located along the hinge point of the GGS / Drainage Canal channel slope and centered around the permanent check structures. Thus, the contractor would initially construct two check structures and extraction wells between Meister Way and the West Drainage Canal. The contractor would pump groundwater extracted from the wells into a pipe which would then convey the water to either another pipe or hose that discharges directly into the West Drainage Canal. The discharge pipe or hose would be overland. Once this segment is completed, the contractor would continue this process by establishing segments to the north. Water from the northern extraction wells would be placed directly into the completed portions of the GGS / Drainage Canal where it would eventually flow into the West Drainage Canal. The contractor would construct twelve check structures but the number of extraction wells would be determined during construction. The contractor will report all discharges by location to the Central Valley Regional Water Quality Control Board according to the monitoring and report requirements.
H. Evaluation of Reclamation Options

Discharge to the local municipal wastewater treatment plant is not a viable option, due to large effluent volume and lack of connectivity to municipal wastewater treatment plant sewage lines. Land disposal is not a viable option because there are no available private or public lands with enough capacity in the vicinity. Underground injection is not a viable option because the purpose of the pumping is groundwater drawdown at the excavation site.

I. Treatment System

Prior to discharge, pumped groundwater would not come in contact with erodible soils. The contractor would monitor for total suspended solids (TSS) at each extraction well. If extracted water displays high TSS levels, the contractor would use a tank for sediment removal prior to discharge. The contractor would also visually monitor water quality on a daily basis at each well. If an individual well produced water that showed discoloration, then it would be taken off line until the water could meet effluent requirements. If a well is unable to produce water meeting the effluent requirements, a replacement well would be drilled, and the lower water quality well would be abandoned. If TSS exceeds permit limitations described below, the discharge shall stop until the source is found and corrected. Effluent would be in compliance with the final effluent limitations in Table 2.

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<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Effluent Limitations</th>
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<td>Average Monthly</td>
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<tr>
<td>Biochemical Oxygen Demand</td>
<td>mg/L</td>
<td>10</td>
</tr>
<tr>
<td>(5-day @ 20 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
<td>10</td>
</tr>
<tr>
<td>Settleable Solids</td>
<td>mL/L</td>
<td>--</td>
</tr>
<tr>
<td>Chlorine, Total Residual</td>
<td>mg/L</td>
<td>--</td>
</tr>
<tr>
<td>pH</td>
<td>Standard units</td>
<td>--</td>
</tr>
</tbody>
</table>

1 The pH of all dewatering and other low threat discharges within the Sacramento and San Joaquin River Basins (except Goose Creek) shall all times be within the range of 6.5 and 8.5.

Source: Tables F-4 and F-5, Order No. R5-2008-0081, NPDES No. CAG995001

Pursuant to "Section IV, Effluent Monitoring Requirements" (Order No. R5-2008-0081, Attachment B, section 2), two times per month one grab sample would be taken at each discharge point and one grab sample would be taken 50 feet downstream from each point of discharge, two times per week. Effluent samples would be tested for the water quality parameters shown on Table 3.
Table 3. Effluent Monitoring – Discharges Less than 4 Months in Duration

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Sample Type</th>
<th>Minimum Sampling Frequency</th>
<th>Required Analytical Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical Oxygen Demand (5-day @ 20 °C)</td>
<td>mg/L</td>
<td>Grab</td>
<td>2/Month</td>
<td></td>
</tr>
<tr>
<td>Chlorine, Total Residual</td>
<td>mg/L</td>
<td>Grab</td>
<td>1/Discharge Event</td>
<td>3,4,5</td>
</tr>
<tr>
<td>Electrical Conductivity @ 25° C</td>
<td>μhos/cm</td>
<td>Grab</td>
<td>2/Month</td>
<td>3</td>
</tr>
<tr>
<td>pH</td>
<td>standard units</td>
<td>Grab</td>
<td>2/Month</td>
<td></td>
</tr>
<tr>
<td>Settleable Solids</td>
<td>mL/L</td>
<td>Grab</td>
<td>2/Month</td>
<td>3</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
<td>Grab</td>
<td>2/Month</td>
<td>3</td>
</tr>
</tbody>
</table>

1. If the discharge is intermittent rather than continuous, then on the first day of each such intermittent discharge, the Discharger shall monitor and record data for all of the constituents listed above, after which the frequencies of analysis given in the schedule shall apply for the duration of each such intermittent discharge. In no event shall the Discharger be required to monitor and record data more often than twice the frequencies listed in the table.

2. The first sample shall be collected at the start of discharge.

3. Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.

4. A handheld field meter may be used, provided the meter utilizes a USEPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer’s instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.

5. Total chlorine residual must be monitored with a method sensitive to and accurate at a reporting level of 0.08 mg/L, or any more stringent reporting level included in a final statewide policy or standard for total residual chlorine.

Source: Table E-3, Order No. R5-2008-0081, NPDES No. CAG995001

Receiving water samples would be tested for the water quality parameters shown on Table 4.

Table 4. Receiving Water Monitoring Requirements – Discharges Less than 4 Months

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Sample Type</th>
<th>Minimum Sampling Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Oxygen</td>
<td>mg/L</td>
<td>Grab</td>
<td>2/Week</td>
</tr>
<tr>
<td>Electrical Conductivity @ 25° C</td>
<td>μhos/cm</td>
<td>Grab</td>
<td>2/Week</td>
</tr>
<tr>
<td>pH</td>
<td>standard units</td>
<td>Grab</td>
<td>2/Week</td>
</tr>
<tr>
<td>Temperature</td>
<td>°F</td>
<td>Grab</td>
<td>2/Week</td>
</tr>
</tbody>
</table>

1. Pollutants shall be analyzed using analytical methods described in 40 CFR Part 136.

Source: Table E-3, Order No. R5-2008-0081, NPDES No. CAG995001
For the grab samples, the following standard protocols shall be used (US EPA 833-B-92-001):

- Label sample containers before sampling event
- Take a cooler with ice to the sampling point
- If sampling in the channel take the grab from the horizontal and vertical center of the channel
- Avoid resuspension of bottom sediments in the channel
- Hold the container so the opening faces upstream
- Avoid touching the inside of the container to prevent contamination
- Keep the sample free from uncharacteristic debris

Samples shall be handled and preserved in accordance with the DPH certified laboratory contracted for the project, pursuant to 40 CFR Part 136 “Analytical test guidelines”.

L. Wastewater Sampling

SAFCA’s Natomas Levee Improvement Program has received a Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP) exception from conducting sampling of priority pollutants. Therefore, sampling of priority pollutants is not provided in the NOI.

M. Pollution Prevention and Monitoring and Reporting Plan

See Sections G and I for details. The contractor would conduct samples at the discharge points and receiving water points as identified above.

---

1 Pers. comm. between Michael Negrete, CVRWQCB, and Nick Tomera, AECOM, via email on March 19, 2012.
<table>
<thead>
<tr>
<th>COMMENT</th>
<th>DRAWN REVIEW</th>
<th>COMMENT</th>
<th>RESPONSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before ordering a set of plans and specs for the Sacramento River East Levee Phase 2D Project, I was wondering if this project has any post-earthing in it?</td>
<td></td>
<td>No, this project does not require any post-earthing for the concrete structures.</td>
<td></td>
</tr>
<tr>
<td>Titelands Construction Company would like to receive Electronic Plans and Specs at $900 as specified on Edboard. If you could provide us the information on whom and how to obtain the plans and specs for Contract No. 4116 – Sacramento River East Levee Phase 2D Levee Improvements and Lower Giant Gantry Dike/Drainage Canal Construction Project, Sacramento County CA, we would truly appreciate it.</td>
<td></td>
<td>An e-mail was sent to Titelands informing them that they can purchase Plans and Specs from the County - SAFCA does not use Edboard</td>
<td></td>
</tr>
<tr>
<td>We received the notice for the upcoming East Levee Phase 2D improvements Bid from your office. Is the 4,060 linear feet of cutoff trench mentioned in the notice a self-boring slip slip trench?</td>
<td></td>
<td>No, all of the cutoff trenches included in this project are backfilled with excavated soil material. This project does not require soil borons slip trench.</td>
<td></td>
</tr>
<tr>
<td>Can you please tell me whether or not there is any Well Development or Well Abandonment involved on this project? We have worked on a few prior USFPA projects and would be interesting in obtaining plans should there be our scope of work involved.</td>
<td></td>
<td>No, this project does not require any well development or well abandonment. However, there will likely be dewatering activities (methods determined by the Contractor), which may require the use of dewatering wells.</td>
<td></td>
</tr>
<tr>
<td>The Volume 2 plan set cross sections are cutting out the proposed design and topo information along the left edge. Cut/Fill quantities will be impacted by missing topography. Can you please provide revised cross sections that show all of the proposed design as well as the topo information?</td>
<td></td>
<td>Revised cross sections are included in the Addendum 1.</td>
<td></td>
</tr>
<tr>
<td>Along the O&amp;M road that contains the AB road some of the cross sections do not daylight into the existing top. The O&amp;M road terminates below the topo data. For example cross section 103+00 shows the O&amp;M road terminating well below the existing slope with no data to daylight into the existing ground. Can you please provide revised cross sections that provide the design daylight information?</td>
<td></td>
<td>The cross sections will not be revised to show the grading adjacent to the GGS/Drainage Canal excavation. As listed in Specification 02222 1.6.3.3, &quot;no separate payment will be made for grading of areas adjacent to GGS/Drainage Canal Excavation to drain, all costs for such work shall be included in the unit price for excavation.&quot;</td>
<td></td>
</tr>
<tr>
<td>Can you please provide additional information that will show the AB limits at each crossing? Do the crossings all use AB along each ramp? There is a note specifying the need for a dust free driveway but the other crossings do not have any information.</td>
<td></td>
<td>The plan sheets showing the details of the crossings have been revised to show the extents of the aggregate base and are included in the Addendum 1.</td>
<td></td>
</tr>
<tr>
<td>Some of the Hibernacula locations have an overlap onto the 12' AB road (Two examples are located at station 203+00 and 225+00). Note 3 on CD-003 states that Hibernacula locations shall not be driven on. Should the Hibernacula area be decreased or will the AB road be reconfigured to go around the Hibernacwla locations?</td>
<td></td>
<td>Please refer to the Hibernacula detail on CD-003 for grading of the access road at the hibernacula.</td>
<td></td>
</tr>
<tr>
<td>On the GC plans there is on a provided flow line along the bottom of the canal. Can you provide finish grade elevations along the bench areas and or O&amp;M road locations? Currently on the civil detail plans of the crossings have elevations for the bench areas and or O&amp;M road locations.</td>
<td></td>
<td>The elevation of the bench shown on the GC-drawings can be estimated using the provided elevations. As shown on drawing X-001, the bench elevation can be estimated by adding 8' to the canal flowline from station 100+00 to 121+00, adding 6.5' to the canal flowline from station 167+68 to 191+25, and subtracting 0.8' from the existing grade from station 192+25 to 230+05.</td>
<td></td>
</tr>
<tr>
<td>Will the dust free driveway on sheet CD-013 be placed at all locations that show the proposed AB roads intersecting with the existing public roads?</td>
<td></td>
<td>The dust free driveway shown on drawing CD-013 is required on both sides of the GGS/Drainage Canal at West Elkhorn Blvd to the north and south of the roadway (4 locations, see GP-006), and at the South Sutter Devertiment Ditch access road connection to West-Elkhorn Blvd (see GP-006).</td>
<td></td>
</tr>
<tr>
<td>What is the Elkhorn road pavement section that will be put back after grading work is completed? CD-011 shows some minor grading within the West Elkhorn roadway.</td>
<td></td>
<td>The grading at West Elkhorn Boulevard should not require disturbance of the existing roadway pavement.</td>
<td></td>
</tr>
<tr>
<td>Will there be any dust free driveways located at the Sandy Canal Crossing, Moisant Way Crossing, Viaahl Road Crossing, and Elkhorn Road Crossing?</td>
<td></td>
<td>The dust free driveways shown on drawing CD-013 are only required at West Elkhorn Blvd. See above response for locations (6 total).</td>
<td></td>
</tr>
<tr>
<td>With the plans being issued on April 15th can the bid date be pushed back at least 1 week? This would greatly assist in getting information out to and back from the subcontractors.</td>
<td></td>
<td>The May 3, 2012 bid date cannot be changed.</td>
<td></td>
</tr>
<tr>
<td>On sheet GP-005 through GP-008 there is a proposed easement with a ditch. Can you provide cross sections for all of this grading work? No cross sections currently exist in the provided plans.</td>
<td></td>
<td>Cross sections are included in the Addendum 1.</td>
<td></td>
</tr>
<tr>
<td><strong>CONTRACTOR QUESTIONS</strong></td>
<td><strong>CONTRACT NUMBER</strong></td>
<td><strong>RESPONSE</strong></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>Sheet CD-010 specifies that grading needs to take place in order to furnish an access road as well as a new ditch. Can you please provide cross sections for all of this grading work? For both of the areas of grading the current plans do not provide enough information to determine exact existing grades. The plans also do not provide finish grade elevations.</td>
<td></td>
<td>Cross sections are included in the Addendum 1.</td>
<td></td>
</tr>
<tr>
<td>On sheet AB-021 the borrow sites 1 and borrow sites 2 have proposed grade elevations. The topo lines do not have enough information so as to complete a quantity takeoff. The only provided topo grades are located along the east portion of borrow site 1. Can you please provide additional topo information for the borrow sites so as to allow for a complete quantity takeoff?</td>
<td></td>
<td>The contours shown are representative of the existing grades of the two sites. However, it should also be noted that no grading work is required in Borrow Site 1 or 2. The work at Borrow Site 1 and 2 is limited to the cutoff trench construction at the boundary of the sites as shown, and the grading adjacent to the existing Lateral 2A canal shown on drawing AB-021.</td>
<td></td>
</tr>
<tr>
<td>What are the finish grade elevations of the Stockpile Reservoir area as shown on Sheet GP-002 and GP-003? If the material for this area is to come from the stockpile as shown on GC-003 and GC-004, is there enough material in the existing stockpiles to fill the new stockpile area as shown on sheets GP-002 and GP-003? Can you please provide cross sections for the South Sutter Downstream Ditch as shown on sheets GP-004 and GP-005. If not, can you please provide original ground elevations and finish grade elevations of the ditch if order for us to perform a take-off of this area?</td>
<td></td>
<td>There are no proposed finish grade elevations for the stockpile reservoir area. The material is to be respread uniformly over the site to maintain the existing slopes and drainage pattern. Cross sections are included in the Addendum 1.</td>
<td></td>
</tr>
<tr>
<td>Does the GGS area have to be stripped prior to excavation?</td>
<td></td>
<td>Stripping along the GGS/Drainage Canal excavation shall be as specified in Technical Specification Section 02222 paragraph 3.2.2h.</td>
<td></td>
</tr>
<tr>
<td>Please provide finish grades for the existing stockpile area as shown on sheets GC-003 and GC-004. What is the finish grade elevation of this area? Please provide existing topographic information for the borrow sites as shown on AB-021? Are the bidding contractors to regrade the borrow sites to the elevations shown on sheets AB-021?</td>
<td></td>
<td>The existing stockpile area is to be degraded to match the surrounding ground and graded to drain as shown on GC-003 and GC-004. The contours shown are representative of the existing grades of the two sites. However, it should also be noted that no grading work is required in Borrow Site 1 or 2. The work at Borrow Site 1 and 2 is limited to the cutoff trench construction at the boundary of the sites as shown, and the grading adjacent to the existing Lateral 2A canal shown on drawing AB-021.</td>
<td></td>
</tr>
<tr>
<td>Is the cut off trench backfill to come from onsite areas? Please clarify if the borrow site area material will meet this specification. Please clarify if the excavation from the cut off wall at the borrow pit can be placed in the borrow pits. Please clarify where the excavation from the cut off wall trench as shown on Sheet GP-004 can be placed. Can this be placed in the random fill area?</td>
<td></td>
<td>The material excavated from the cutoff trenches is expected to meet the material requirements for trench backfill. The material excavated from the cutoff trenches will be used for cutoff trench backfill. The material excavated from the cutoff trenches will be used for cutoff trench backfill.</td>
<td></td>
</tr>
<tr>
<td>When will the MU Gutters be relocated as shown on sheet GP-002?</td>
<td></td>
<td>The MU Gutters shown on GC-002 have been relocated outside of the canal grading.</td>
<td></td>
</tr>
<tr>
<td>If there is excess material from the GGS canal excavation after the seepage berm areas are filled and all embankments are made at stockpiles or other locations, where are the bidding Contractors to stockpile this excess material? Can excess material be placed in the seepage berm areas? If there is excess material at the end of the project, is it to be stockpiled onsite? If so, where?</td>
<td></td>
<td>The project soil material is expected to balance assuming a shrinkage and loss factor of approximately 15%. However, if there is excess material, it shall be placed in the Stockpile Reservoir area of the South Sutter site. The project soil material is expected to balance assuming a shrinkage and loss factor of approximately 15%. However, if there is excess material, it shall be placed in the Stockpile Reservoir area of the South Sutter site.</td>
<td></td>
</tr>
<tr>
<td>Please clarify what is the bid item removing the existing stockpile as shown on sheets GC-003 and GC-004 and placing this material to the new stockpile area as shown on sheets GP-002 and GP-003?</td>
<td></td>
<td>The bid item for removing the existing stockpile shown on GC-003 and GC-004 and spreading the material as shown on GP-002 and GP-004 is &quot;SOUTH SUTTER GRADING&quot; as specified in Section 02226.</td>
<td></td>
</tr>
<tr>
<td>On sheet CD-014 of the Phase 2D improvement plans the Reservoir Road Canal needs to have the existing PCC lining removed and replaced. Between station 2485 and 3410 the shaded area shows PCC lining but the canal does not run through this area. The area between 2485 and 3410 consists of a crossing. Is the intent of the work to excavate a new portion of the canal or are we to only provide new PCC canal lining?</td>
<td></td>
<td>The area between 2485 and 3410 consists of a temporary culvert and material backfill placed as part of a previous construction contract for haulage material through this location. This haul crossing shall be removed for the finish work of the canal in accordance with Specification 02226, Section 1.6.4 Haul Roads.</td>
<td></td>
</tr>
<tr>
<td>We have purchased a set of plans &amp; specifications for the project. Copies we make of the plans are degraded...especially at existing ground features/contours. Could Mead &amp; Hunt provide Acrobat PDF files of the plans for better print quality?</td>
<td></td>
<td>A pdf copy of the plans are available upon request.</td>
<td></td>
</tr>
</tbody>
</table>