

**Meeting of the Central Valley Flood Protection Board
August 25, 2017**

Permit Staff Report

**David Linda Martin Partners
Aliso Ranch On-Farm Capture and Recharge Project, Madera County**

1.0 – ITEM

Consider approval of Permit No. 19109. (Attachment B)

2.0 – APPLICANT

David Linda Martin Partners (DLM Partners).

3.0 – PROJECT LOCATION

The project is located on the east (right) bank levee of the Chowchilla Canal Bypass near Firebaugh Boulevard approximately 7.7 miles east of the City of Firebaugh. (Chowchilla Canal Bypass, Madera County, see Attachment A)

4.0 – PROJECT DESCRIPTION

DLM Partners proposes to install a combination gate (slide and flap type) on an existing 4-ft x 5-ft box culvert structure (listed in the Lower San Joaquin River O&M Manual Pg. 55 - Irrigation and Drainage Structures Unit No. 17 LM 8.38), place 6-inch deep rip rap on the waterside levee slope, and install an elevated horizontal walkway to access the combination gate that will allow the diverting of flood flows from the eastern bank of the Chowchilla Canal Bypass.

5.0 – AUTHORITY OF THE BOARD

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

California Code of Regulations, Title 23, Division 1 (Title 23):

- § 6, Need for a Permit
- § 13.3, Consent Calendar
- § 19, District Lands
- § 112, Streams Regulated and Nonpermissible Work Periods
- § 123, Pipelines, Conduits, and Utility Lines
- § 137, Miscellaneous Encroachments

6.0 – PROJECT ANALYSIS

The proposed project is located just south of the Firebaugh Boulevard Bridge on the east (right) bank of the Chowchilla Canal Bypass. The existing 4-ft by 5-ft box culvert structure is listed under the Irrigation and Drainage Structures in the Lower San Joaquin River Flood Control Project's Operations and Maintenance Manual. The existing box culvert was constructed in 1964 along with the Chowchilla Canal Bypass by the Department of Water Resources for drainage purposes to allow passage of water from the protected lands to the Chowchilla Canal Bypass (Chowchilla Canal Bypass As-Built, see Attachment C).

The applicant has proposed to install a combination gate (slide and flap type) on the existing 4-ft by 5-ft box culvert, 6-inch deep riprap on the waterside levee slope, and an elevated horizontal walkway to access the proposed combination gate from the levee crown (Construction Plans, see Attachment D). The combination gate will allow the diversion of flood waters from the Chowchilla Canal Bypass into the parallel landside ditch (located more than 80-feet from the chowchilla landside levee toe) for irrigation and pre-irrigation purposes. Two removable irrigation pumps and associated appurtenances will be located just east of the landside ditch to siphon the flood waters from the landside ditch to the applicant's property (Removable Pumps Layout, see Attachment E). Some minor grading work is involved to allow the temporary pumps and associated appurtenances to access the landside ditch. The proposed combination gate will be opened to allow approximately 10 cubic feet per second of flow to match the siphon rate of the two removable pumps. The proposed project will allow the use of flood waters from the Chowchilla Canal Bypass for irrigation purposes reducing the need for groundwater pumping in an effort to comply with the Sustainable Groundwater Management Act (SGMA). ~~The Lower San Joaquin Levee District will have primary control of the gate during flood events.~~ The Lower San Joaquin Levee District (LSJLD)

will have primary control of the gate during periods of high water to assure there is no threat to public safety or detriment to the flood facility. The applicant will operate the proposed combination gate for their diversion purposes. The proposed work conforms to all applicable Title 23 standards.

6.1 – Hydraulic Analysis

A cross sectional area hydraulic blockage calculation was performed that resulted in an estimated floodway blockage of 0.16% (Hydraulic Blockage Calculations, see Attachment F). 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 installing concrete footings for the proposed elevated walkway that penetrates the levee slope by 15-inches and installing 6-inch thick rip-rap on the levee slope for erosion protection. The proposed work will have minimal impact to the levee; therefore a geotechnical analysis was not required.

6.3 – Sacramento and San Joaquin Drainage District Lands

The proposed project, including the two (2) removable pumps and associated appurtenances, is located on land owned in fee by the Sacramento and San Joaquin Drainage District, acting by and through the Central Valley Flood Protection Board. A draft revocable license agreement has been prepared pursuant to Title 23, §19, District Lands (Draft License Agreement, see Attachment G).

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, Lower San Joaquin Levee District, endorsed the project on April 12, 2016 with conditions that have been incorporated into the conditions of the attached draft Permit No. 19109. On April 12, 2016, LSJLD signified by Resolution No. 6523-16 that LSJLD does not object to the proposed project subject to conditions, which have been incorporated into draft Permit No. 19109.~~

- A letter from the USACE has been received for this application. The USACE Sacramento District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project. The letter is attached to the permit as Exhibit A and is incorporated by reference.

8.0 – CEQA ANALYSIS

The Board, acting as the CEQA lead agency has determined the project is categorically exempt from CEQA under a Class 1 Categorical Exemption (CEQA Guidelines Section 15301) covering minor alterations to an existing structure.

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 relate to the scientific issues presented by the executive officer, legal counsel, the Department of Water Resources 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 (SPFC), and consistency of the proposed project with the Central Valley Flood Protection Plan (CVFPP) as adopted by Board Resolution 2012-25 on June 29, 2012:

The proposed project resulted in less than 1% floodway blockage and the combination gate allows the existing culvert to continue functioning as intended; therefore, the proposed project is expected to have no adverse effect on any SPFC facilities and is consistent with the supporting goal of the CVFPP to promote multi-benefit projects.

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

The proposed walkway will be properly anchored to prevent floatation into the floodway and the proposed riprap will prevent erosion on the levee slope 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. 19109 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. 19109
- C. Chowchilla Canal Bypass As-Builts
- D. Construction Plans
- E. Removable Pumps Layout
- F. Hydraulic Blockage Calculations
- G. Draft License Agreement

Design Review:	Minh Chieng, P.E., Permitting Section Staff
Environmental Review:	James Herota, Senior Environmental Scientist
Document Review:	Gary W. Lemon, P.E., Permitting Section Chief
	Mitra Emami, P.E., Operations Branch Chief
Legal Review:	Kanwarjit Dua, Board Counsel



Figure 1. Location Map



Figure 2. Vicinity Map



Figure 3. View of existing box culvert, flap gate, and wing wall on waterside levee toe



Figure 4. View of existing box culvert, flap gate, and wing wall on waterside levee toe



Figure 5. View of landside levee slope and drainage path from protected lands to the Chowchilla Bypass



Figure 6. View of existing box culvert and wing wall on the landside levee toe



Figure 7. View of waterside levee slope and the existing Firebaugh Blvd bridge



Figure 8. View of the existing culvert under Firebaugh Blvd. Bridge



Figure 9. View of existing parallel landside ditch located more than 80-feet from the landside levee toe



Figure 10. View of the property fence separating SSJDD and applicant's property



Figure 11. View of the existing parallel ditch located more than 80-ft from landside levee toe and the property fence separating SSJDD and applicant's property

DRAFT

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

PERMIT NO. 19109 ~~EO~~ BD

This Permit is issued to:

DLM Partners
PO Box 9050
Fresno, California 93790

To install a combination gate on an existing 4-ft x 5-ft box culvert structure (listed in the Lower San Joaquin River O&M Manual Pg. 55 - Irrigation and Drainage Structures Unit No. 17 LM 8.38), 6-inch deep rip rap on the waterside levee slope, and elevated horizontal walkway to allow diverting of flood flows from the eastern bank of the Chowchilla Canal Bypass.

The project is located on the east (right) bank levee of the Chowchilla Canal Bypass near Firebaugh Blvd approximately 7.7 miles east of the City of Firebaugh, at 36.87232°N 120.31729°W, Lower San Joaquin Levee District, Chowchilla Canal Bypass, Madera 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.

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. 19109 EO

THIRTEEN: The permittee shall secure an agreement from the Sacramento and San Joaquin Drainage District, acting by and through the Central Valley Flood Protection Board (Board), prior to start of work.

FOURTEEN: This permit shall expire five (5) years from the date of approval. This permit may be extended by the permittee in periods not to exceed five (5) years by submitting a written request to the Board at least 90 days prior to the expiration of the permit. The approval of the extension will require concurrence from Lower San Joaquin Levee District and may result in revisions to the special conditions of the permit.

FIFTEEN: The permittee shall notify and receive approval from Lower San Joaquin Levee District and the Board prior to operating the permitted encroachment(s). ~~Furthermore, the permittee may need to provide proof of authorization to withdraw water from the Chowchilla Canal Bypass.~~ Furthermore, the permittee shall provide to the Board a copy of any statements of water diversions submitted to the State Water Resources Control Board and any subsequent authorization to withdraw water from the Chowchilla Canal Bypass. Issuance of this permit does not grant any water rights.

SIXTEEN: This permit is not transferrable unless the successor secures a new agreement from the Board. 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.

LIABILITY AND INDEMNIFICATION

SEVENTEEN: The permittee shall defend, indemnify, and hold the Board 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.

EIGHTEEN: 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 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.

NINETEEN: The Board, Department of Water Resources, and Lower San Joaquin Levee District 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

TWENTY: All work approved by this permit shall be in accordance with the submitted drawings and specifications dated June 29, 2017 except for items 3, 6, and 8 of the General Notes on Sheet 1 of 11 of the plan set and 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.

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

TWENTY-TWO: No construction work of any kind shall be done during the flood season from November 1 to July 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-THREE: A letter received from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated October 26, 2016 is attached to this permit as Exhibit A in reference to this project.

TWENTY-FOUR: If erosion occurs adjacent to the permitted encroachment(s), the permittee shall repair the eroded areas and place adequate revetment on the affected areas to prevent further erosion.

TWENTY-FIVE: If the permitted encroachment(s) result(s) in an adverse hydraulic impact, the permittee shall provide appropriate mitigation measures, to be approved by the Board, prior to implementation of mitigation measures.

TWENTY-SIX: 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-SEVEN: 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-EIGHT: The proposed elevated horizontal walkway constructed on the waterward levee slope shall be properly anchored to prevent movement during high water.

TWENTY-NINE: The bottom of the stringers of the elevated horizontal walkway above the waterward levee slope shall be a minimum of 171.0 feet, NAVD 88 Datum, as shown on the submitted drawings.

THIRTY: Handrails on the elevated horizontal walkway shall not extend onto the levee crown.

THIRTY-ONE: A suitable locking mechanism shall be installed on the gate wheel to prevent unauthorized operation of the combination gate. Access of the gate wheel shall be provided to the authorized representative of the Board, Department of Water Resources, Lower San Joaquin Levee District, or any other agency responsible for operations and maintenance as requested.

POST-CONSTRUCTION

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

OPERATIONS AND MAINTENANCE

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

THIRTY-FOUR: 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, Lower San Joaquin Levee District, 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.

THIRTY-FIVE: 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-SIX: 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-SEVEN: 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



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

Flood Protection and Navigation Section (19109)

OCT 26 2016

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

Dear Ms. Gallagher:

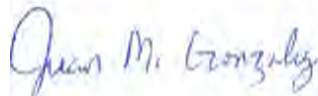
We have reviewed permit application number 19109 submitted by DLM Partners. This project includes installing a combination gate (slide gate and flap gate) and elevated horizontal walkway on an existing box culvert structure in the right bank levee of the Chowchilla Canal Bypass. The project is located near Firebaugh Boulevard, approximately 7.7 miles east of the City of Firebaugh, at 36.872325°N 120.317294°W NAD83, Madera County, CA.

The District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.

A file (2016-207) has been opened because a Section 10 and/or Section 404 permit may be required. Please advise the applicant to contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Division, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250.

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.

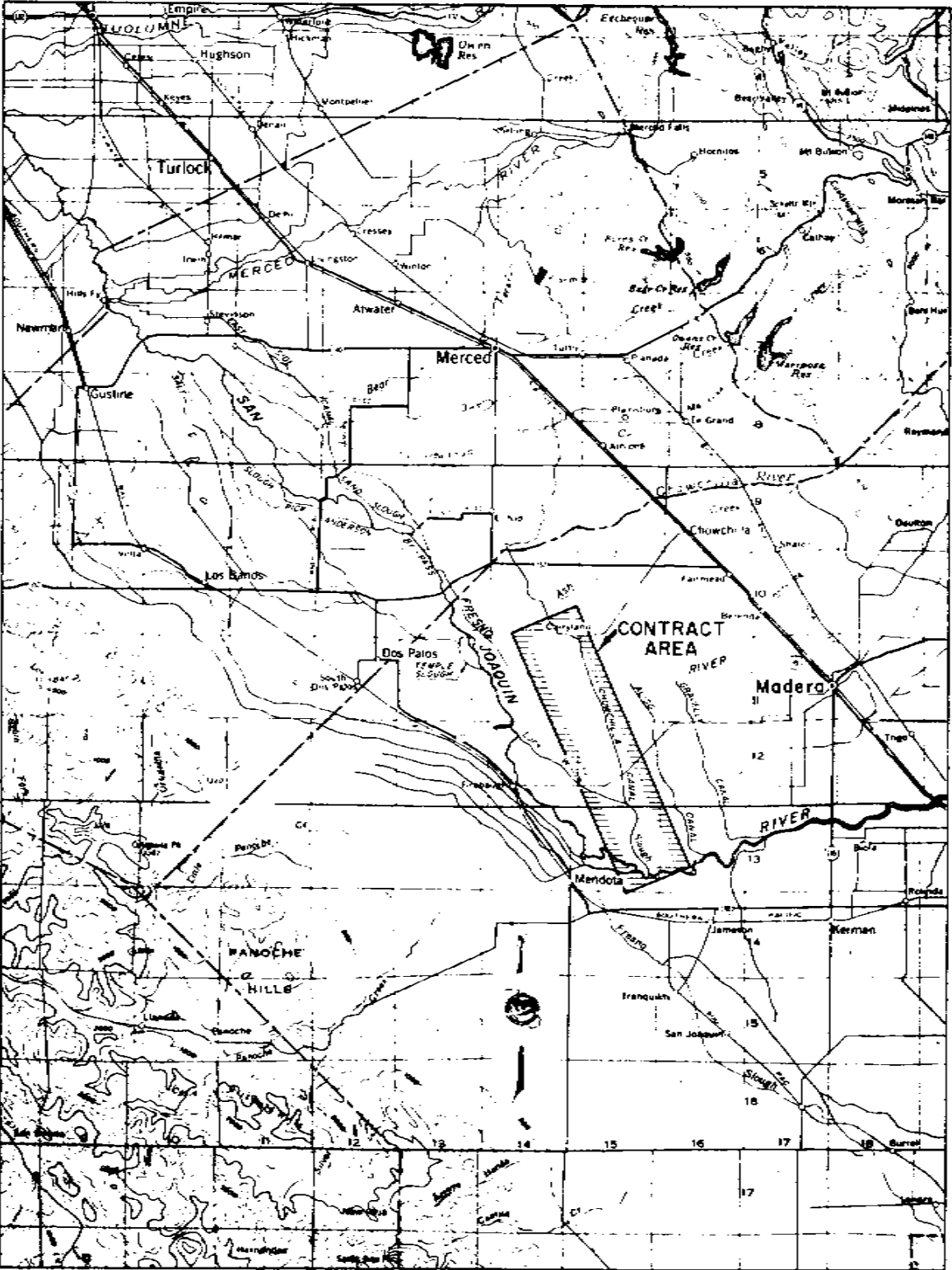
Sincerely,


Ryan M. Larson, P.E.

Chief, Flood Protection and Navigation Section

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DIVISION OF DESIGN AND CONSTRUCTION

LOWER SAN JOAQUIN RIVER
FLOOD CONTROL PROJECT
AVENUE 18 1/2 TO SAN JOAQUIN RIVER
SPECIFICATION NO. 64-42

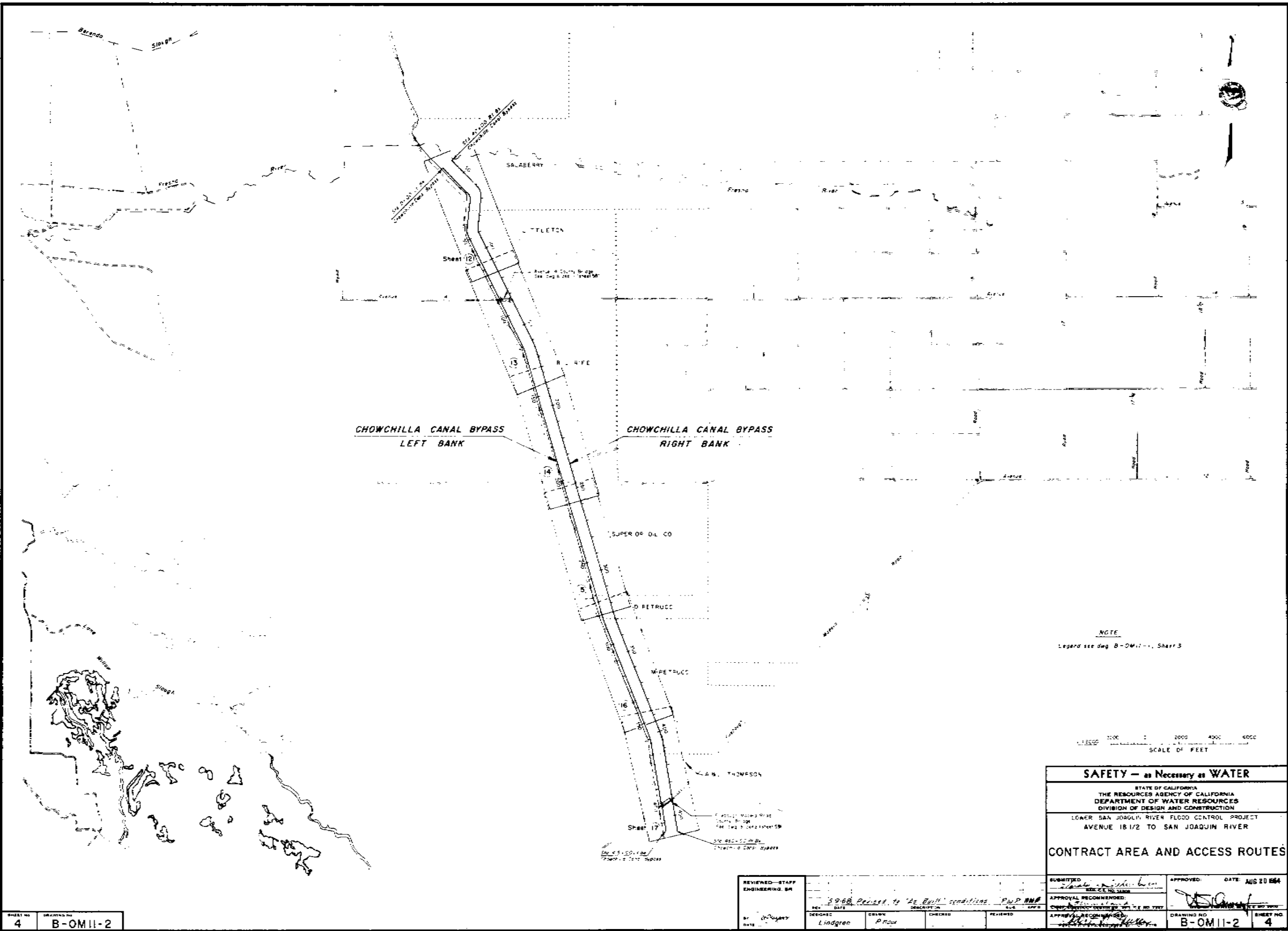


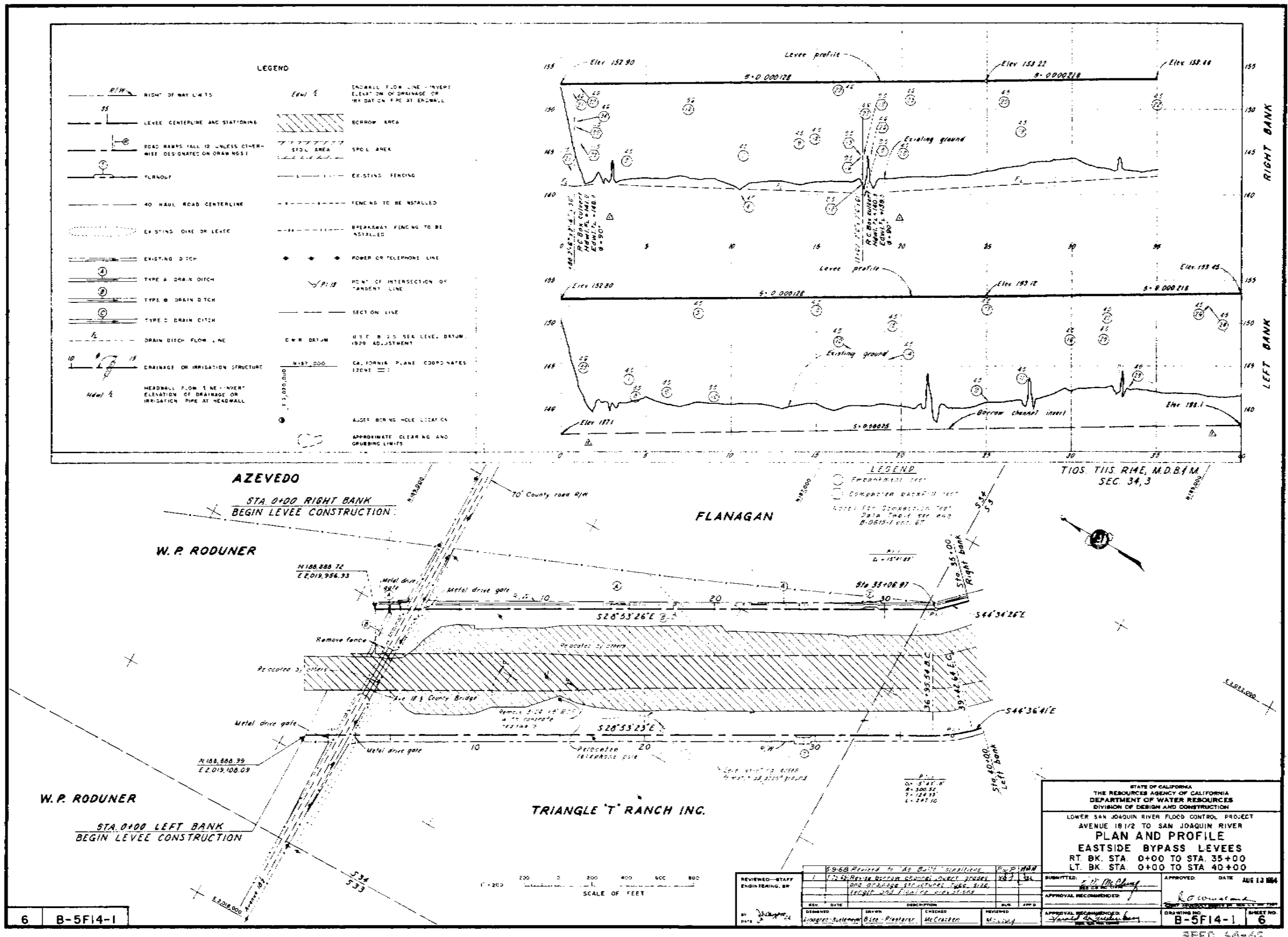
VICINITY MAP
SCALE OF MILES

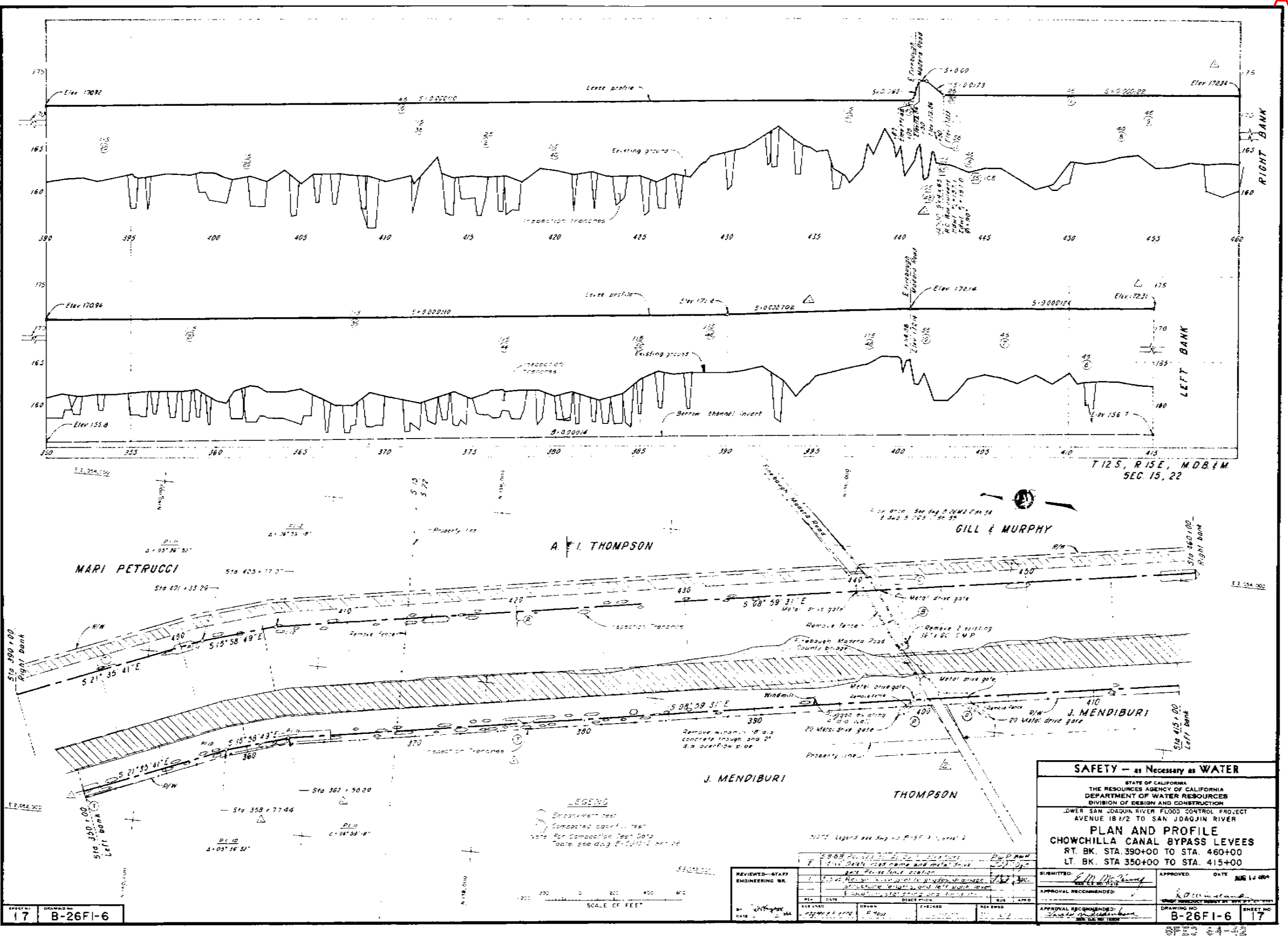
THE RECLAMATION BOARD
APPROVED DATE SEP 5 1964
Harold A. Hatteland
ASSISTANT CHIEF ENGINEER, REG. C.E. NO. 6707

DEPARTMENT OF WATER RESOURCES
APPROVED DATE OCT. 26 1964
James R. Galt
CHIEF ENGINEER, REG. C.E. NO. 12676

19-00	Revised to "As Built" conditions	REV	APP	1
19-00	Revised to "As Built" conditions	REV	APP	1

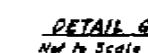
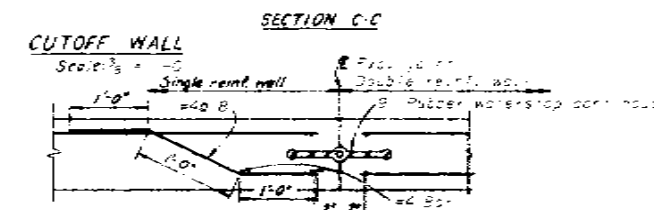
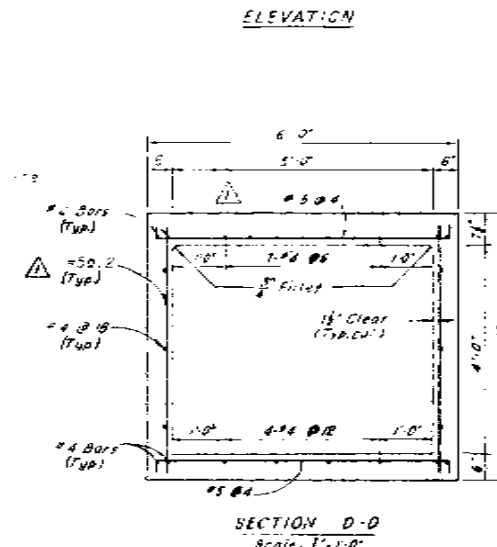
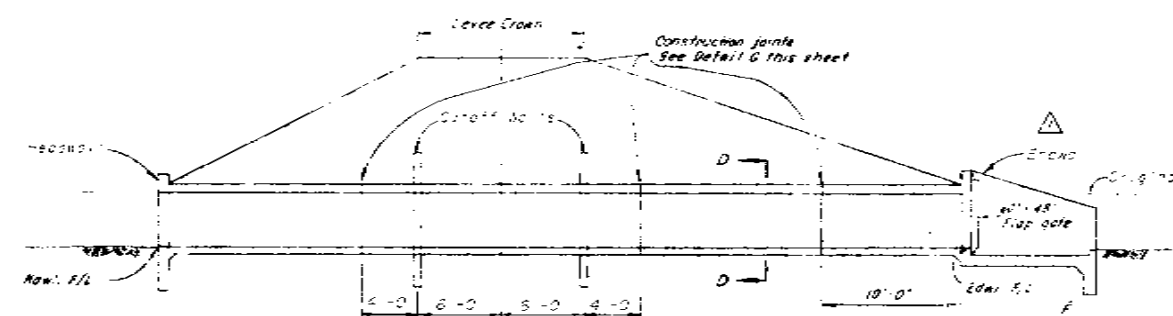
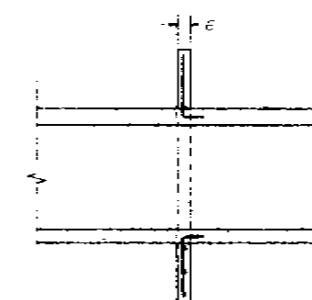
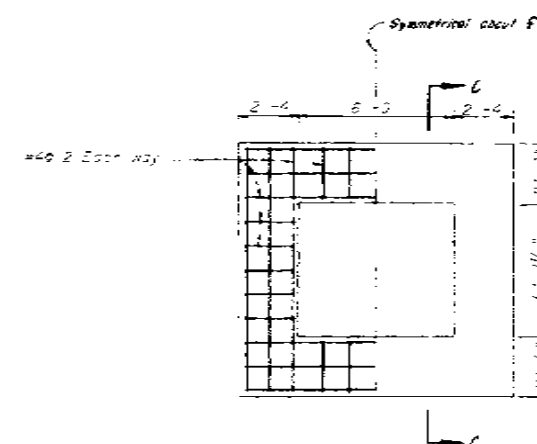
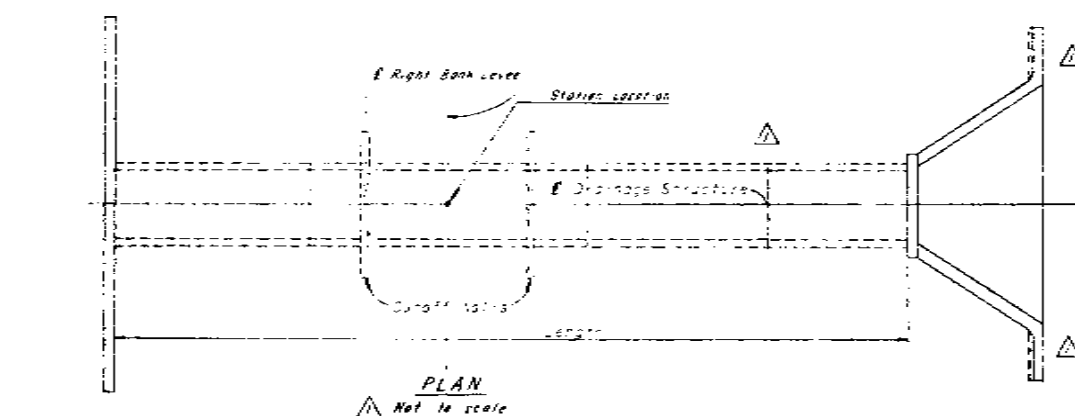




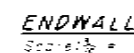
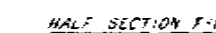
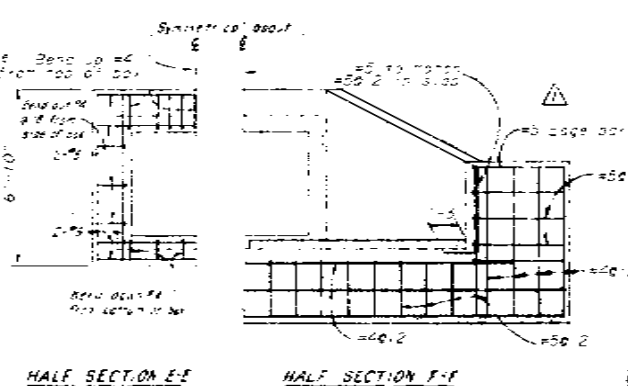
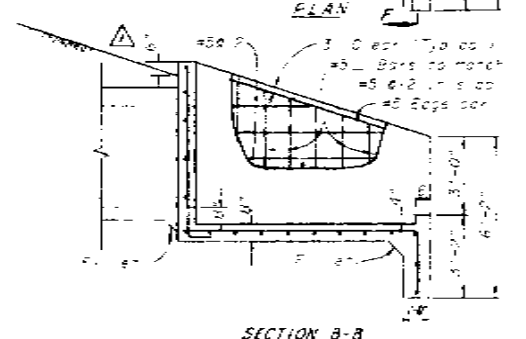
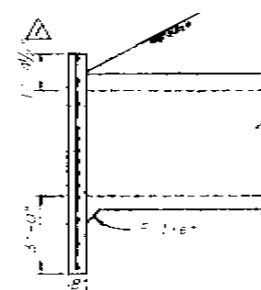
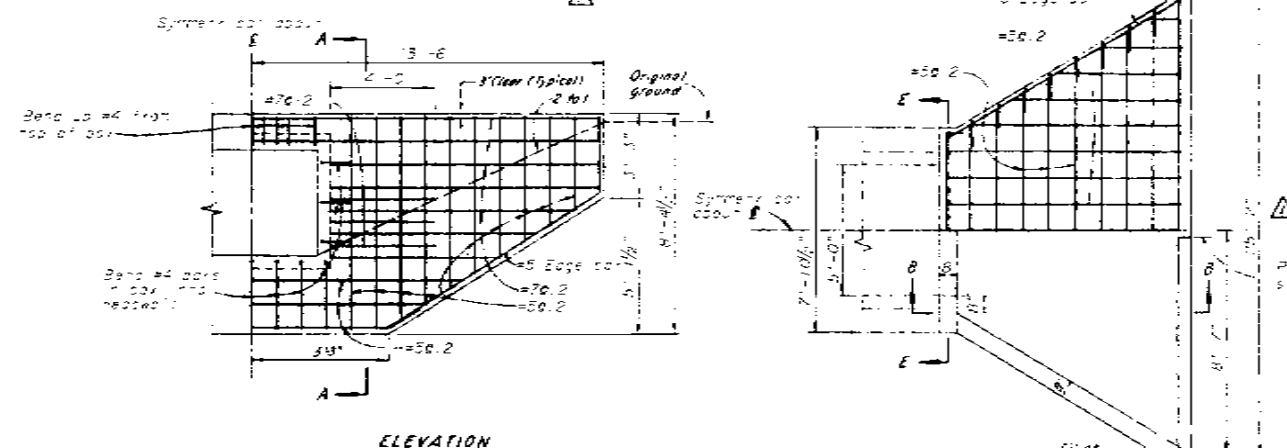


SAFETY - as Necessary as WATER	
STATE OF CALIFORNIA THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES DIVISION OF DESIGN AND CONSTRUCTION LOWER SAN JOAQUIN RIVER FLOOD CONTROL PROJECT AVENUE 18 1/2 TO SAN JOAQUIN RIVER	
PLAN AND PROFILE CHOWCHILLA CANAL BYPASS LEVEES RT. BK. STA. 390+00 TO STA. 460+00 LT. BK. STA. 350+00 TO STA. 415+00	
SUBMITTED: <i>[Signature]</i> DATE: <i>[Date]</i>	APPROVED: <i>[Signature]</i> DATE: <i>[Date]</i>
APPROVAL RECOMMENDED: <i>[Signature]</i>	APPROVAL RECOMMENDED: <i>[Signature]</i>
DRAWING NO. B-26FI-6	SHEET NO. 17

SPIC 64-42



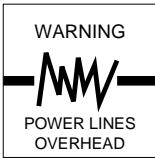
- CONCRETE NOTES**
(all structures except bridges)
1. Design stresses 4.0, 1.1, 1.5=3000 c.s.s., 1.2=2000 c.s.s., 1.3=350 c.s.s.
 2. Exposed surfaces of concrete shall be primed w/ 10% sodium silicate solution.
 3. All joints & openings in walls, openings, etc. noted
 4. Rebar to be covered and 50% to the face of the concrete for 100% unless otherwise noted
 5. All walls & other solid support walls
a. Formed surface 12 inches
b. Surface of open voids to be protected 3 inches.
6. Joints in a wall shall be cut to steel rods and be secured by the center of the rod. 1" of steel.
7. All joints & openings 12 inches
8. All openings in walls shall be 24 inches or the diameter of the opening unless otherwise noted.
9. Bars bent 90 and extend at least 20 inches beyond end of bend.



REVIEWED - STAFF ENGINEERING, INC.	5960 Revised to "As Built" conditions 5963 Revise endwall, culvert reinforcement and relocate construction joint				PAID 444 DEC 1963	FORWARDED <i>Wm. Miching</i> DEC 1963	APPROVED DATE DEC 1963
	REV.	DATE	APPROVED	LOC	EXP.	APPROVAL, RECOMMENDATION	
BY <i>Wm. Miching</i> DATE DEC 1963	REVISIONS <i>Kaggle</i>	DESIGN <i>Leong</i>	DRAWINGS <i>Epstein</i>	REVISIONS <i>Mc Clung</i>	APPROVAL, RECOMMENDATION <i>Wm. Miching</i>		STANDARD B-28C-1 44

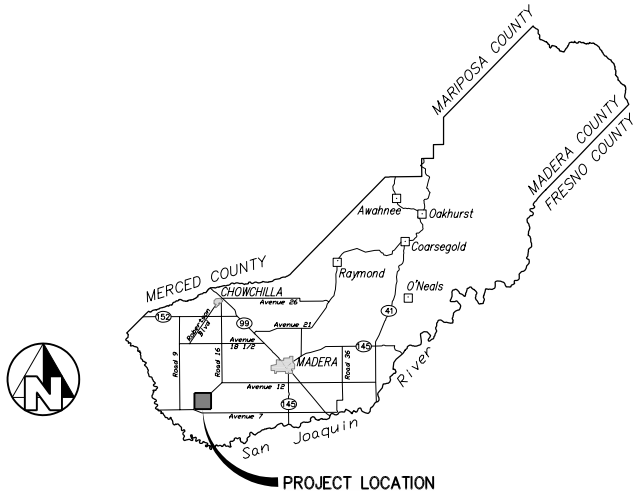


Know what's below.
Call before you dig.

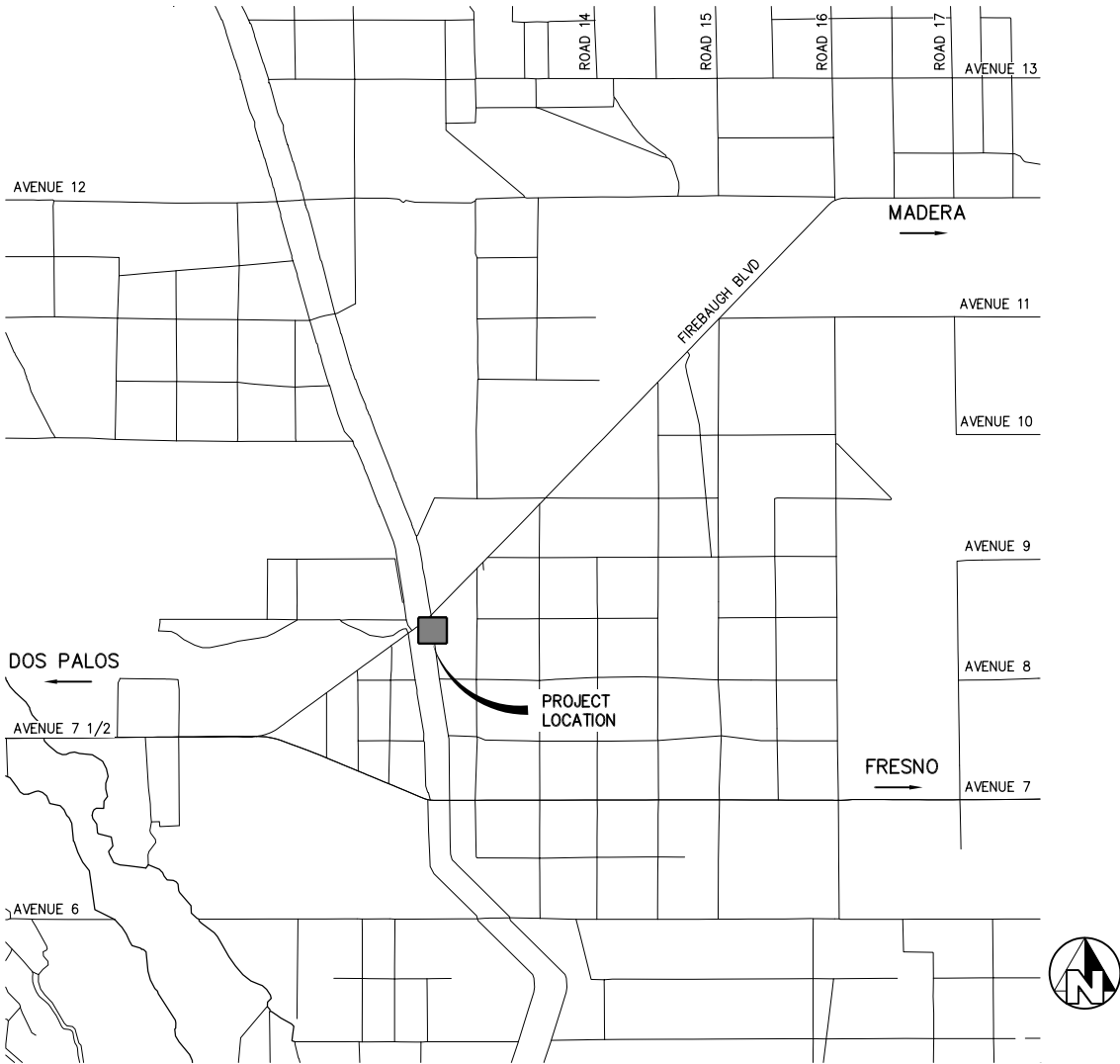


BRITZ, INC. MADERA COUNTY, CA

ALISO RANCH ON-FARM CAPTURE AND RECHARGE PROJECT



VICINITY MAP
NOT TO SCALE



SITE MAP

SPECIAL NOTE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

SITE SAFETY AND PROTECTION NOTES

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

TOPOGRAPHY NOTE

TOPOGRAPHY SHOWN HEREON WAS COLLECTED BY PROVOST AND PRITCHARD CONSULTING DURING A FIELD SURVEY CONDUCTED IN NOVEMBER OF 2015.

BOUNDARY NOTE

THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON RECORD INFORMATION TIED TO PHYSICAL MONUMENTS, AND WAS PREPARED UNDER THE DIRECTION OF MARTIN D. HARTWIG, PLS 6612.

SURVEYOR

SURVEYOR NAME: F. WILLIAMSON
DATE OF SURVEY: 2015-11-24

BENCHMARKS

PROJECT BENCHMARK

#1 A FOUND 3/4" IRON PIPE WITH PLASTIC CAP MARKED "LS 4546" DOWN .1' IN LEVEE TOP TURN OUT
ELEVATION = 168.39' NAVD88 DATUM

APPROVALS

LOWER SAN JOAQUIN LEVEE DISTRICT
(209)387-4545

--APPROVAL 2--

SHEET INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
1	COVER
2	NOTES AND LEGEND
3	ALIGNMENT CONTROL
PLAN	
4	PLAN
PROFILE	
5	BOX CULVERT
6	EXISTING LEVEE
PLAN AND PROFILE	
7	TEMPORARY DIVERSION GRADING WORK
DETAILS	
8	DETAILS
9	DETAILS
10	DETAILS

- LOWER SAN JOAQUIN LEVEE DISTRICT (209-387-4545) SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR EXISTING DISTRICT FACILITIES.
- USED MATERIAL, REJECTS, MISFITS, OR SECONDS, ETC. ARE NOT ACCEPTABLE FOR USE ON LOWER SAN JOAQUIN LEVEE DISTRICT FACILITIES.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS AND LOWER SAN JOAQUIN LEVEE DISTRICT SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
- ALL CAST-IN-PLACE CONCRETE STRUCTURES SHALL BE FORMED INSIDE AND OUT AND CONCRETE VIBRATED SUFFICIENTLY TO PROVIDE FOR SMOOTH SURFACED WALLS/FLOORS WITHOUT VOIDS AND HONEYCOMBS.
- LOWER SAN JOAQUIN LEVEE DISTRICT SHALL INSPECT ALL WORK PHASES ON CONCRETE FACILITIES FOR CONFORMANCE TO LOWER SAN JOAQUIN LEVEE DISTRICT SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR LOWER SAN JOAQUIN LEVEE DISTRICT INSPECTIONS. LIKEWISE, CONCRETE SHALL NOT BE COVERED WITH EARTH PRIOR TO LOWER SAN JOAQUIN LEVEE DISTRICT INSPECTION.
- CONCRETE DESIGN MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. ALL CONCRETE SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI UNLESS OTHERWISE SPECIFIED.
- ALL STEEL PIPE AND FITTINGS SHALL BE FURNISHED WITH A SHOP APPLIED HIGH SOLIDS EPOXY COATING ON THE INTERIOR AND EXTERIOR, UNLESS OTHERWISE INDICATED. ALL OTHER EXPOSED STEEL SHALL BE PAINTED WITH A PRE-TREATMENT PRIMER, AN UNDERCOAT AND A FINAL COAT OF PAINT IN ACCORDANCE WITH LOWER SAN JOAQUIN LEVEE DISTRICT SPECIFICATIONS.
- ALL NUTS, BOLTS, AND WASHERS USED TO SECURE UNDERGROUND FITTINGS SHALL BE STAINLESS STEEL. AFTER INSTALLATION, ALL STEEL HARDWARE SHALL BE COATED WITH A RUST PREVENTATIVE, WRAPPED WITH 4 MIL POLYETHYLENE SHEETING, AND SECURE WITH PVC TAPE.
- THRUST RESTRAINTS TO BE PROVIDED AT ALL PIPELINE BENDS, WHETHER OR NOT SHOWN ON THE PLANS.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS.
- BACKFILL EMBANKMENTS SHALL BE COMPACTED TO 90% RELATIVE COMPACTION PLACED IN 8" LIFTS PER ASTM D1557-91.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ALL PIPELINE CRACKS, WHICH DEVELOP DURING CONSTRUCTION OF IMPROVEMENTS AFFECTING EXISTING FACILITIES.
- ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES.

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6-29-2017

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ALISO RANCH ON-FARM CAPTURE AND RECHARGE PROJECT
BRITZ, INC.
MADERA COUNTY, CA
GENERAL
COVER

EST-1988 PROVOST & PRITCHARD CONSULTING GROUP An Employee Owned Company 286 WEST CROMWELL AVENUE FRESNO, CALIFORNIA 93711-6162 559/449-2700 FAX 559/449-2715 www.peng.com	DESIGN ENGINEER: CM LICENSE NO: 65453
	DRAFTED BY: PAD CHECKED BY: LMG DATE: 6-29-2017 JOB NO: 165715001
	PROJECT NO: ---- PHASE: ----
	0" = 1" ONE INCH, ADJUST SCALE FOR REDUCED OR ENLARGED PLANS
SHEET 1 OF 11	

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ABBREVIATIONS

AB	AGGREGATE BASE	HP	HINGE POINT, HIGH POINT, HORSEPOWER
AC	ASPHALT CONCRETE	HP GAS	HIGH PRESSURE GAS
ACP	ASBESTOS-CEMENT PIPE	HPS	HIGH PRESSURE SWITCH
AD	ALUMINUM DISK	HR	HANDRAIL
AGG	AGGREGATE	HRS	HOLLOW STRUCTURAL SECTIONS
AH	AHEAD	H/T	HUB & TACK
ALT	ALTERNATE	HWL	HIGH WATER LEVEL
AP	ANGLE POINT	HYDRO	HYDROPAUEMATIC
APPROX	APPROXIMATE	ID	INSIDE DIAMETER
APN	ASSESSOR'S PARCEL NUMBER	IN	INCH
ARV	AIR RELIEF VALVE	INV	INVERT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IP	IRON PIPE
AV	AIR VENT	IRR	IRRIGATION
AVE	AVENUE	JP	JUNCTION POLE
AWWA	AMERICAN WATER WORKS ASSOCIATION	LBS	POUNDS
BAR	BARRIER	LC	LENGTH OF CURVE
BC	BEGIN CURVE	LCW	LONG CRESTED WEIR
BD	BRASS DISK	LF	LINEAR FEET
BFP	BACKFLOW PREVENTER	LG	LONG
BK	BACK	LT	LEFT
BLDG	BUILDING	LPG	LIQUEFIED PETROLEUM GAS
BM	BENCHMARK	MAX	MAXIMUM
BO	BOLLARD	MB	MAILBOX
BTM	BOTTOM	MCC	MOTOR CONTROL CENTER
BVC	BEGIN VERTICAL CURVATURE	MFR	MANUFACTURER
BW	BACK OF WALK	MH	MANHOLE
BWL	BACK OF WALL	MIN	MINIMUM
BWR	BARB WIRE	MISC	MISCELLANEOUS
C, CONC	CONCRETE	MJ	MECHANICAL JOINT
CA	CALIFORNIA	MN	MAG NAIL
CAB	CABINET	MP	MEDIUM PRESSURE GAS LINE
CBL	CABLE	MPT	MALE PIPE THREAD
CFS	CUBIC FEET PER SECOND	MRKR	MARKER
CHK	CHECK	MS	MILD STEEL
CHLK	CHAIN LINK	(N)	NORTH
CI	CAST IRON	NAVD	NORTH AMERICAN VERTICAL DATUM
CIP	CAST IRON PIPE	NC	NORMALLY CONSOLIDATED
CIPCP	CAST-IN-PLACE CONCRETE PIPE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CL	CLASS	NIC	NOT IN CONTRACT
CLVT	CULVERT	NPT	NATIONAL PIPE THREAD
CL	CENTERLINE	NTS	NOT TO SCALE
CLF	CHAIN LINK FENCE	OC	ON CENTER
CLR	CLEAR, CLEARANCE	OCEW	ON CENTER EACH WAY
CMLC	CEMENT MORTAR LINED & COATED	OD	OUTSIDE DIAMETER
CMP	CORRUGATED METAL PIPE	OH	OVERHEAD
CN	CONCRETE NAIL	OP	OPERATING
CNS	COMPACTED NATIVE SOIL	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
CO	SEWER CLEAN OUT	O&M	OPERATIONS & MAINTENANCE
CONT	CONTINUOUS	(P)	PROPOSED
CONST	CONSTRUCT/CONSTRUCTION	PB	PULL BOX
COR	CORNER	PC	POINT OF CURVATURE
CORP	CORPORATION	PCC	POINT OF COMPOUND CURVATURE
COL	COLUMN	PCC	PORTLAND CEMENT CONCRETE
COUP	COUPLING	PE	PERMANENT EASEMENT
CP	CONTROL POINT	PER	PERMETER
CR	CROWN	PI	POINT OF INTERSECTION
CJ	CUBIC	PIP	PLASTIC IRRIGATION PIPE
CY	CUBIC YARDS	PLC	PROGRAMMABLE LOGIC CONTROLLER
DA	DRIVE APPROACH	P	PROPERTY LINE
DEC	DECIDUOUS	PNL	PANEL
DEMO	DEMOLISH/DEMOLITION	POC	POINT ON CURVE
DI	DROP INLET	POL	POINT ON LINE
DIA, Ø	DIAMETER	POT	POINT ON TANGENT
DIM	DIMENSION	PP	POWER POLE
DIP	DUCTILE IRON PIPE	PRC	POINT OF REVERSE CURVATURE
D/S	DOWNSTREAM	PRV	PRESSURE REDUCING VALVE
DW	DRIVEWAY	PSF	POUNDS PER SQUARE FOOT
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING, EAST	PT	POINT OF TANGENCY
EA	EACH	PVC	POLYVINYL CHLORIDE
EC	END CURVE	PVCC	POINT OF VERTICAL COMPOUND CURVATURE
ECC	ECCENTRIC	PVMT	PAVEMENT
EF	EACH FACE	PVRC	POINT OF VERTICAL REVERSE CURVATURE
EG	EXISTING GRADE	PVI	POINT OF VERTICAL INTERSECTION
EL, ELEV	ELEVATION	R	RADIUS
ELC	EPOXY LINED & COATED	RBR	REBAR
ELEC	ELECTRIC	RC	RADIUS OF CURVE
ELL	ELBOW	RCP	REINFORCED CONCRETE PIPE
EM	ELECTRIC METER	RD	RELATIVE DENSITY
EOL	END OF LINE	RE	ROAD
EP	EDGE OF PAVEMENT	REQD	REQUIRED
EQUIV	EQUIVALENT	RET	RETURN
ESMT	EASEMENT	REV	REVISION
EUC	EUCALYPTUS	RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE
EVC	END VERTICAL CURVE	RGS	RIGID GALVANIZED STEEL
EW	EACH WAY	RP	RADIUS POINT
EXP	EXPOSED	RR	RAILROAD
(F)	FUTURE	RT	RIGHT
F&I	FURNISH & INSTALL	RTU	REMOTE TERMINAL UNIT
FD	FOUND	R/W	RIGHT OF WAY
FDC	FIRE DEPARTMENT CONNECTION	(S)	SOUTH, SOLVENT WELD
FF	FINISHED FLOOR	S	SLIP
FG	FINISHED GRADE	S=	SLOPE
FH	FIRE HYDRANT	SCH	SCHEDULE
FL, FL	FLOW LINE	SCP	STANDARD CONCRETE PIPE
FLG	FLANGE	SD	STORM DRAIN
FLGD	FLANGED	SDMH	STORM DRAIN MANHOLE
FM	FORCE MAIN	SEC	SECTION
FNC	FENCE	SERV	SERVICE
FRP	FIBER REINFORCED POLYESTER PIPE	SF	SQUARE FEET
FT	FOOT/FEET	SP	SERVICE POLE
FW	FRONT OF WALK	SPEC	SPECIFICATION
FWL	FACE OF WALL	SPNDL	SPINDLE
GA	GAUGE	SQ	SQUARE
GAL	GALLON	SS	SANITARY SEWER
GALV	GALVANIZED	SS OR STS	STAINLESS STEEL
GB	GRADE BREAK	SSMH	SANITARY SEWER MANHOLE
GM	GAS METER	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD
GRVL	GRAVEL	STL	STEEL
GS	GAS	STP	STAND PIPE
GSV	GAS VALVE	STRC	STRUCTURE
GUY	GUY WIRE	STRP	STRIPING
GV	GATE VALVE	SWL	SWALE
HD	HEAD	STWL	STILLING WELL
HDPE	HIGH DENSITY POLYETHYLENE	(T)	THREADED
HDR	HEADER	T	THREAD
HDW	HEADWALL	T&B	TOP & BOTTOM
HGL	HYDRAULIC GRADE LINE	TB	TOP OF BANK
HORIZ	HORIZONTAL		

LINETYPES

EXISTING	NEW	DESCRIPTION
		TEMPORARY BENCHMARK
		TOP OF CURB
		TEMPORARY CONSTRUCTION EASEMENT
		TENSILE DUCTILE IRON
		TELEPHONE
		TOP OF FOOTING
		TOP FACE OF CURB
		TOP OF GRATE
		THREAD
		TOP OF LINING
		TOE OF SLOPE
		TOP OF SLOPE
		TELEPHONE POLE
		TELEPHONE RISER
		TRANSFORMER
		TRAFFIC
		TOP OF STRUCTURE
		TELEPHONE SPLICE BOX
		TYPICAL
		TOP OF WALL
		UNDERGROUND
		UTILITY POLE
		UTILITY
		UPSTREAM
		VERIFIED CLAY PIPE
		VERTICAL
		VALLEY GUTTER
		VAULT
		VALVE
		WEST
		WATER
		WATER LINE
		WATER METER
		WATER SERVICE
		WATER VALVE
		WASTE WATER
		WITH
		WITHOUT

HATCHES

EXISTING	HATCH TYPE	NEW	DESCRIPTION
			AGGREGATE
			CONCRETE
			CONCRETE LINING (PLAN VIEW)
			EARTH
			RIP RAP
			SAND
			GRATING
			EXPANDED METAL

SYMBOLS

EXISTING	SYMBOL	NEW	DESCRIPTION
			ELECTRIC METER
			PAD MOUNTED TRANSFORMER
			ELECTRIC VAULT
			UTILITY POLE
			UTILITY POLE ANCHOR
			ELECTRIC MANHOLE
			GAS METER
			GAS VALVE
			SANITARY SEWER CLEAN OUT
			SANITARY SEWER MANHOLE
			SSMH (ECCENTRIC CONE)
			STORM DRAIN CATCH BASIN
			STORM DRAIN INLET
			STORM DRAIN CULVERT
			STORM DRAIN MANHOLE
			MAIL BOX
			SIGN
			YARD LIGHT
			GUARD POST
			CONTROL POINT
			BENCH MARK
			IRON PIPE
			MONUMENT
			MONUMENT (OPTIONAL)
			OWNERSHIP TIE
			LOT NUMBER
			TELEPHONE RISER
			TELEPHONE VAULT
			2-NOZZLE HYDRANT
			3-NOZZLE HYDRANT
			FIRE DEPT. CONNECTION
			FIRE VAULT
			WATER METER
			WELL
			WATER VALVE
			BLOW-OFF
			AIR RELIEF VALVE
			BACK FLOW PREVENTOR
			GATE VALVE HANDLE
			STILLING WELL
			FENCE POST
			FENCE GATE
			REVISION
			CONSTRUCTION CALLOUT
			DETAIL CALLOUT
			LINE BREAK
			PIPE END (SCHEMATIC)
			PIPE END
			EMBANKMENT ARROW
			HIGH WATER LINE
			SPOT ELEVATION
			SECTION VIEW

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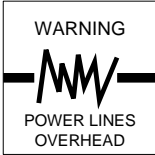
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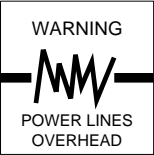
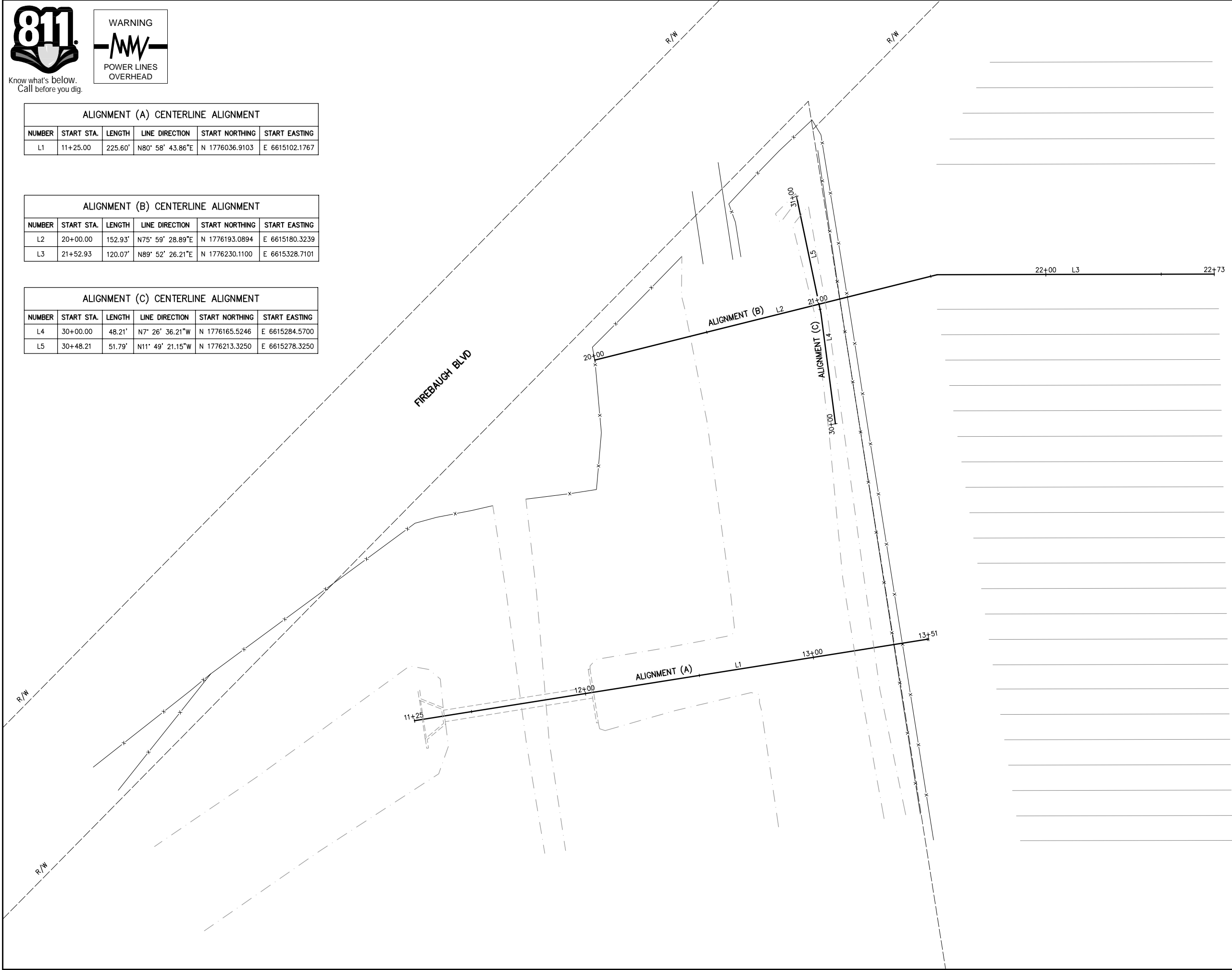
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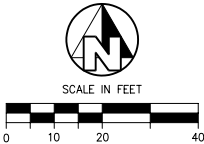
ALIGNMENT (A) CENTERLINE ALIGNMENT					
NUMBER	START STA.	LENGTH	LINE DIRECTION	START NORTHING	START EASTING
L1	11+25.00	225.60'	N80° 58' 43.86"E	N 1776036.9103	E 6615102.1767

ALIGNMENT (B) CENTERLINE ALIGNMENT					
NUMBER	START STA.	LENGTH	LINE DIRECTION	START NORTHING	START EASTING
L2	20+00.00	152.93'	N75° 59' 28.89"E	N 1776193.0894	E 6615180.3239
L3	21+52.93	120.07'	N89° 52' 26.21"E	N 1776230.1100	E 6615328.7101

ALIGNMENT (C) CENTERLINE ALIGNMENT					
NUMBER	START STA.	LENGTH	LINE DIRECTION	START NORTHING	START EASTING
L4	30+00.00	48.21'	N7° 26' 36.21"W	N 1776165.5246	E 6615284.5700
L5	30+48.21	51.79'	N11° 49' 21.15"W	N 1776213.3250	E 6615278.3250



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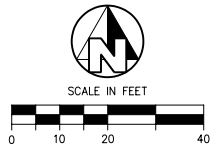
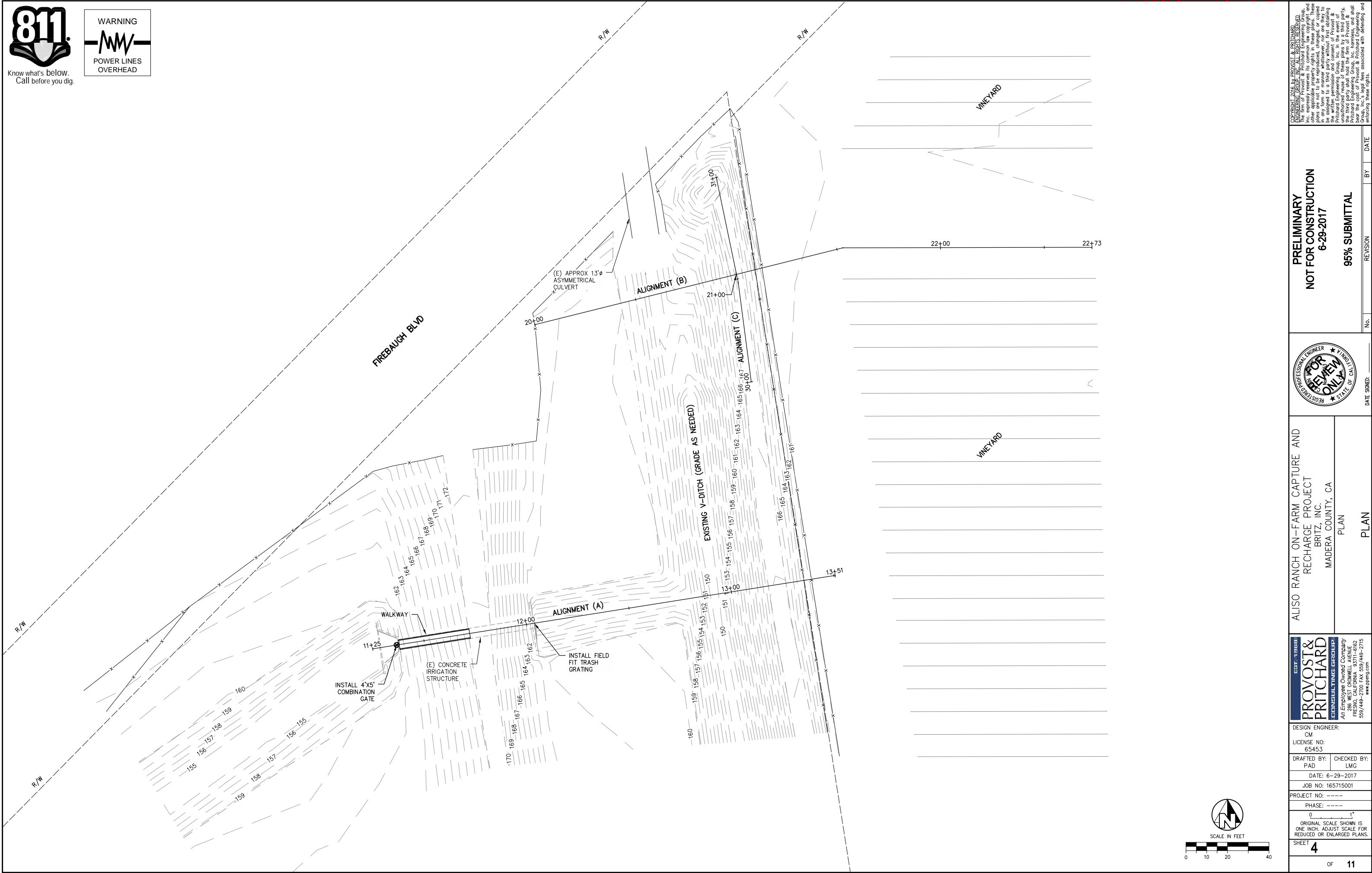
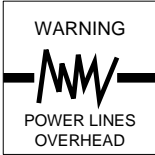
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SHEET
4

OF
11

ALISO RANCH ON-FARM CAPTURE AND
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MADERA COUNTY, CA
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PLAN

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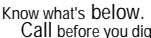
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The written permission and consent of Provost &
Pritchard Engineering Group, Inc. is required for
the third party shall hold the firm of Provost &
Pritchard Engineering Group, Inc. harmless and will
bear the cost of Provost & Pritchard Engineering
Group, Inc.'s legal fees associated with defending and
enforcing these rights.

7/7/2017 1:43 PM g:\britz inc-1657\165715001-also ranch on-farm capture and recharge DWG\SHEET\4 PLAN.dwg -Justin Chavez



POWER LINES
OVERHEAD

11+50

11+60

11+25	11+30	11+40	11+50	11+60	11+70	11+80	11+85
-------	-------	-------	-------	-------	-------	-------	-------

NOTE

SEE SHEET 10 FOR WALKWAY DETAILS.

[illegible][illegible]

▽ HWL = 167.6

[illegible][illegible][illegible]

Q LEVEE

180

160

150

140

36" GATE WHEEL —

RAILING -

(E) TOP OF EAST LEVEE

(E) BOX CULVERT -
ENTRANCE STRUCTURE

(E) TOE -

COMBINATION GATE (SLIDE GATE AND FLAP GATE)

**PRELIMINARY
NOT FOR CONSTRUCTION**

95% SUBMITTAL

NO	REVISION	BY	DATE
----	----------	----	------



DATE SIGNED:

VALISO RANCH ON-FARM CAPTURE AND RECHARGE PROJECT

BRILZ, INC.
MADERA COUNTY, CA

PROFILE

PROFILE

BOX CUI VERT

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An Employee Owned Company
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FRESNO, CALIFORNIA 93711-6162
559/449-2700 FAX 559/449-2715
www.cbeng.com

DESIGN ENGINEER
CM
LICENSE NO:
65453

DRAFTED BY:
PAD

DATE: 6-

JOB NO: 16

PHASE: —

0

ORIGINAL SCALE
ONE INCH ADJ

REDUCED OR EN

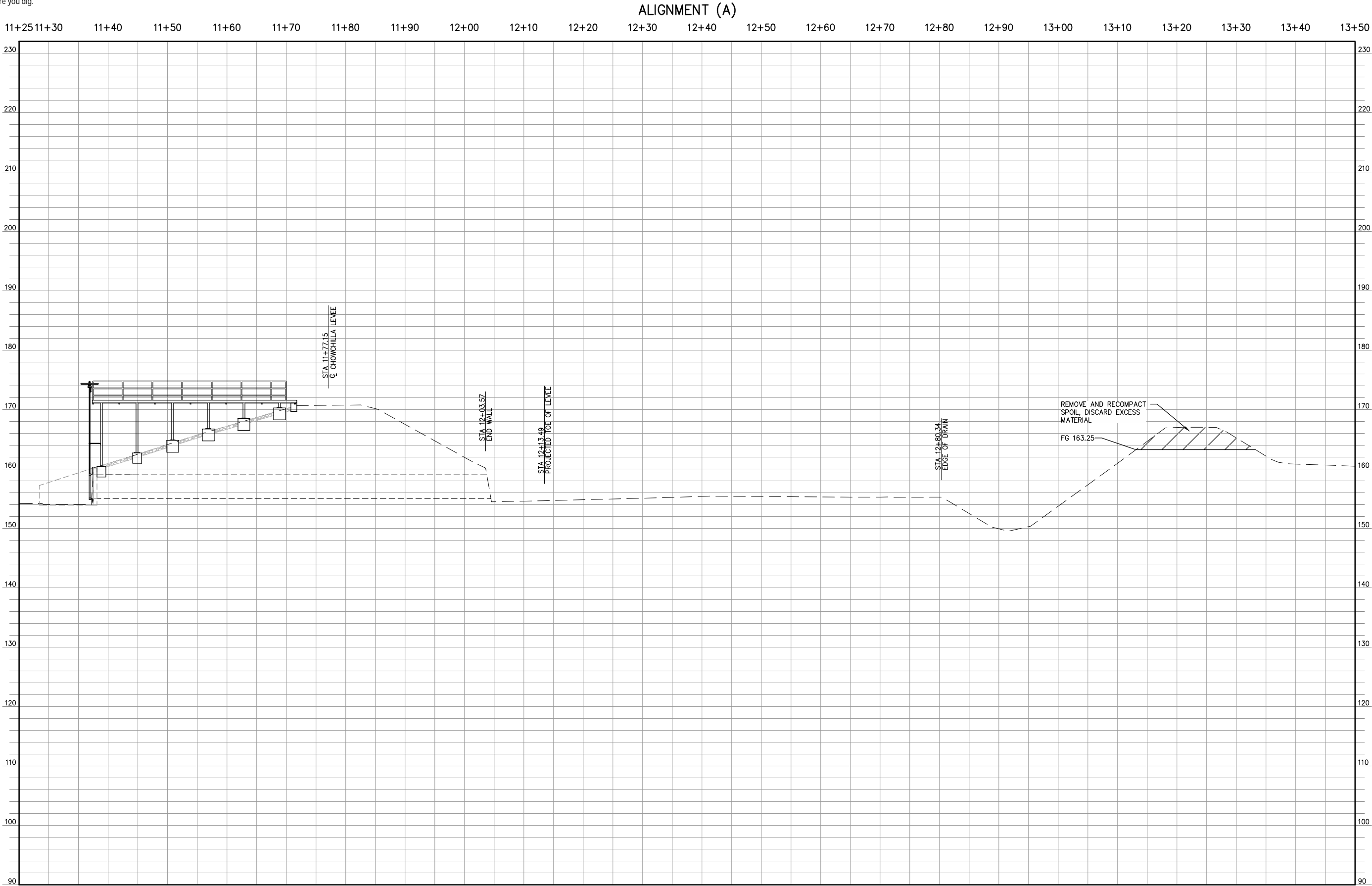
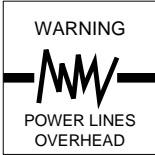
SHEET 5

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F 11

11

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DATE: 6-29-2017

JOB NO: 165715001

PROJECT NO: ----

PHASE: ----

0 1"

ORIGINAL SCALE SHOWN IS
ONE INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
6

OF
11

ALISO RANCH ON-FARM CAPTURE AND
RECHARGE PROJECT
BRITZ, INC.
MADERA COUNTY, CA

PROFILE
EXISTING LEVEE

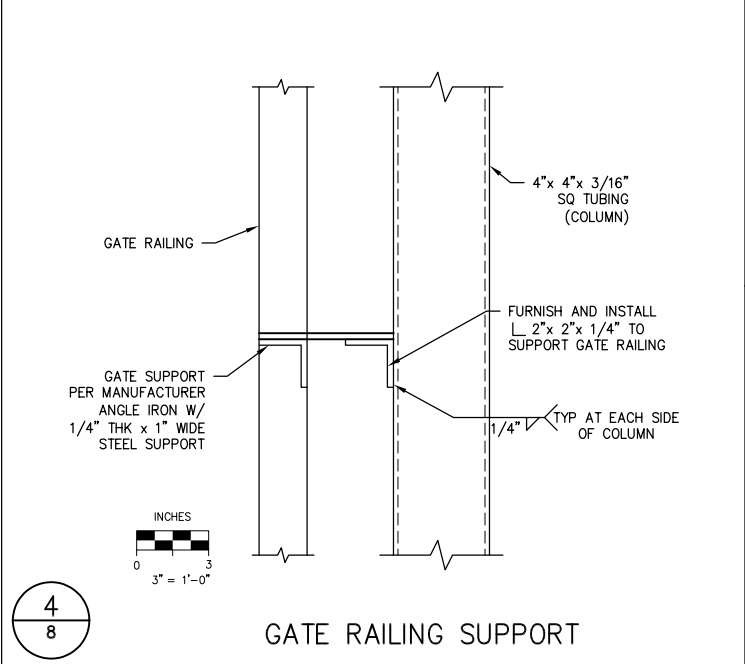
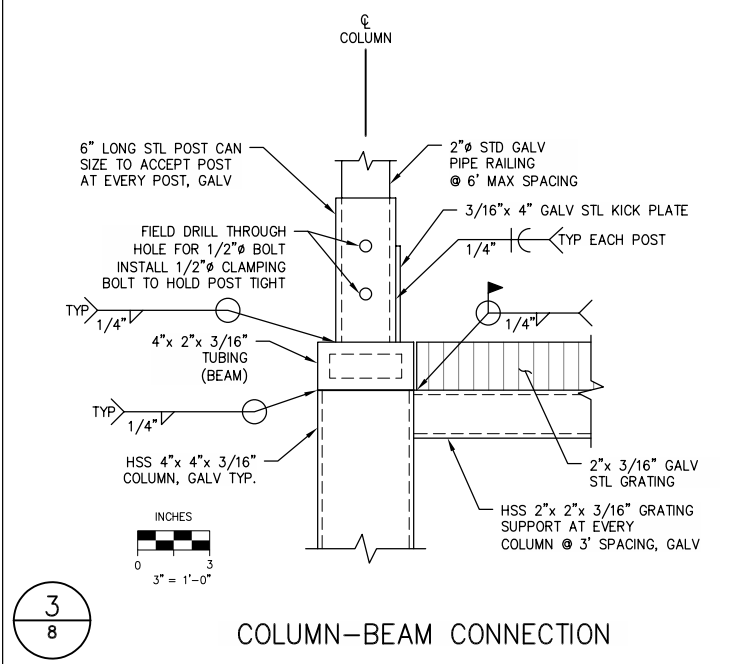
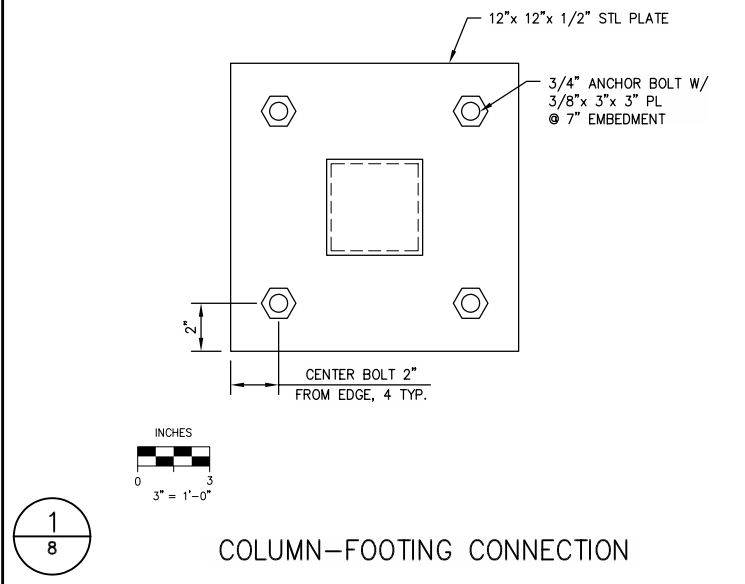
PROFESSIONAL ENGINEER
FOR
REVIEW
ONLY
REGISTERED
STATE OF CALIFORNIA

DATE SIGNED: _____
BY: _____
REVISION
No. _____

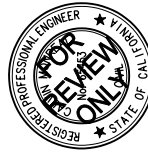
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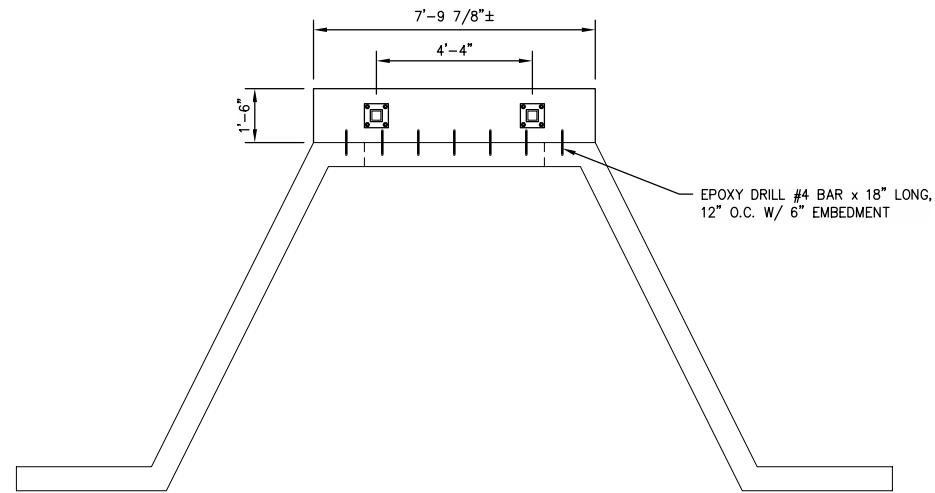


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RECHARGE PROJECT
BRITZ, INC.
MADERA COUNTY, CA

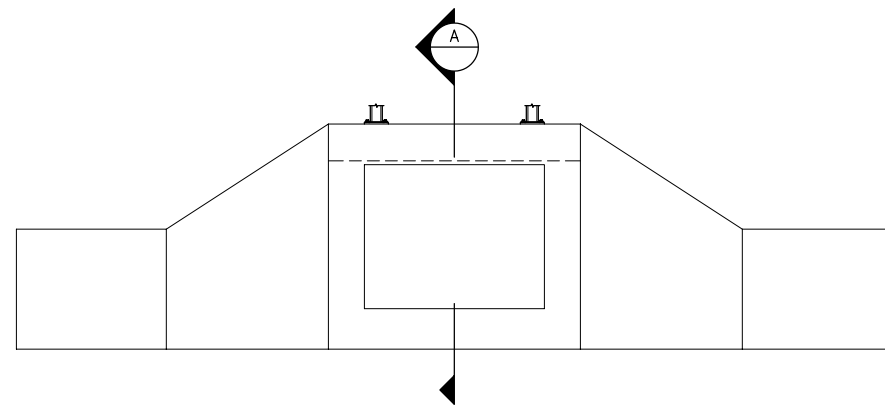
DETAILS

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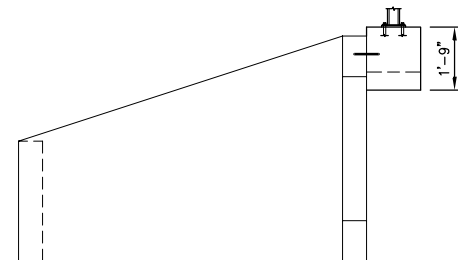
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LICENSE NO: 65453	
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DATE: 6-29-2017	
JOB NO: 165715001	
PROJECT NO: ----	
PHASE: ----	
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.	
SHEET 8	



TOP VIEW



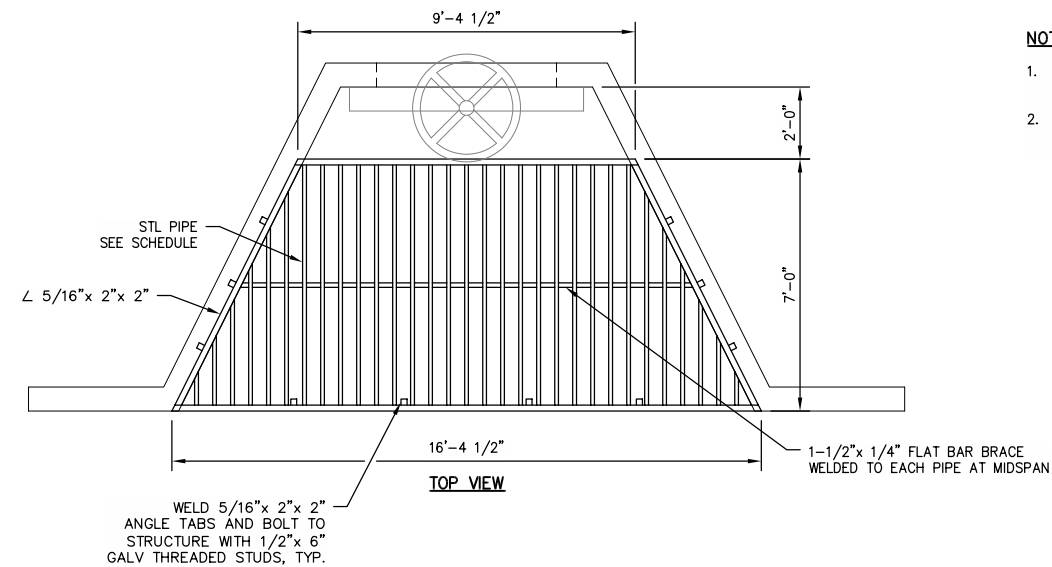
FRONT VIEW



SECTION A



FOOTING TO HEADWALL CONNECTION

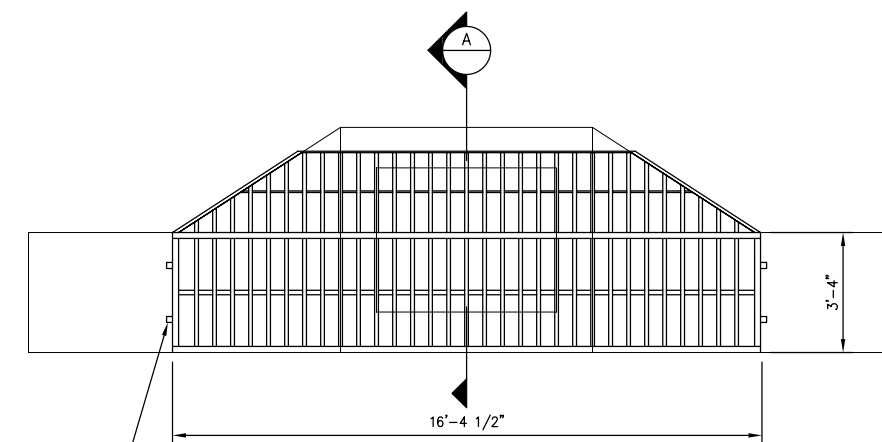


- ## NOTES

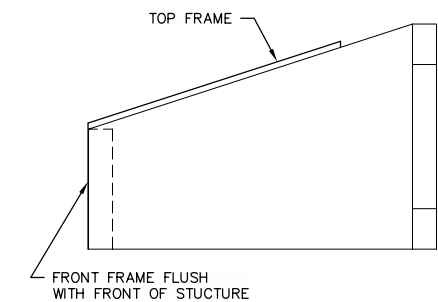
1. ENTIRE TRASH RACK SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
2. 1-1/2"x 1/4" FLAT BAR MAY BE SUBSTITUTED FOR 1-1/2" STD WEIGHT STEEL PIPE AT CONTRACTOR'S OPTION.

STD STEEL PIPE SCHEDULE	
HEIGHT	DIA. REQ'D.
UP TO 3.5'	3/4"
3.5' TO 8'	1"
6' TO 8'	1-1/4"
OVER 8'	1-1/2"

STD STEEL PIPE SPACING	
WIDTH	O.C. SPACING
UP TO 30"	4"
OVER 30"	6"
OUTLET END	8"



TRASH RACK



SECTION A


$$\frac{2}{9}$$

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DATE: 6-29-2017

JOB NO: 165715001

PROJECT NO: ----

PHASE: ----

0 1"

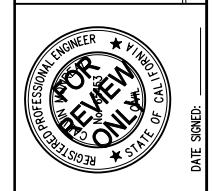
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SHEET 9

OF 11

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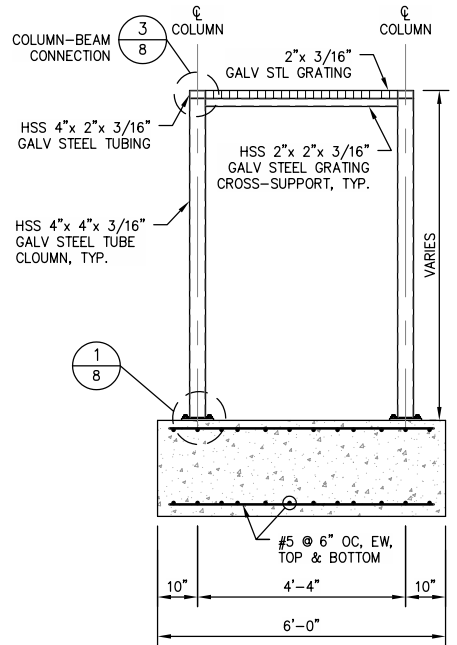


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BRITZ, INC.
MADERA COUNTY, CA
DETAILS

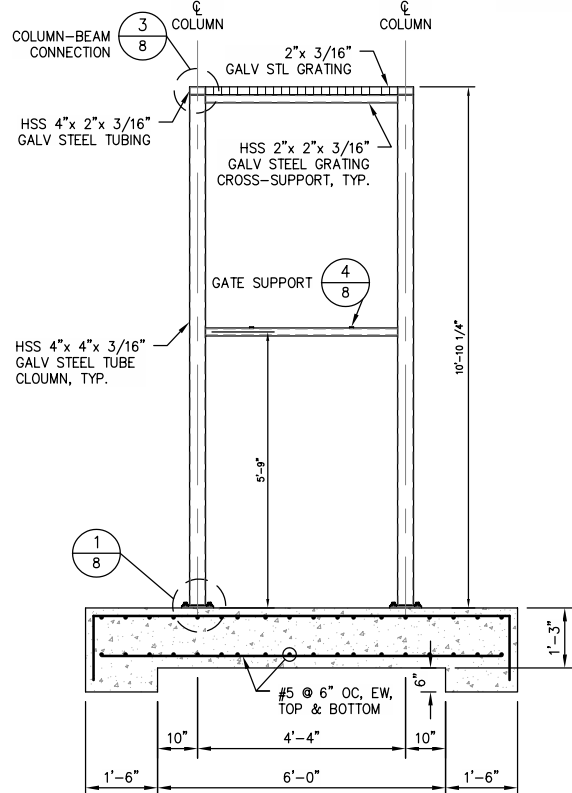
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DATE: 6-29-2017
JOB NO: 165715001
PROJECT NO: ----
PHASE: ----
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SHEET
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OF
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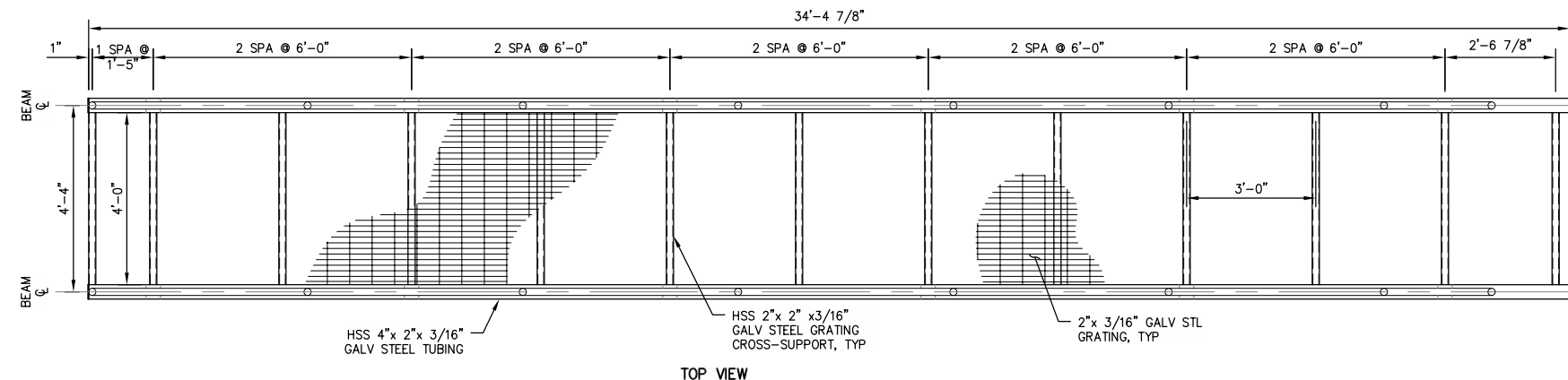
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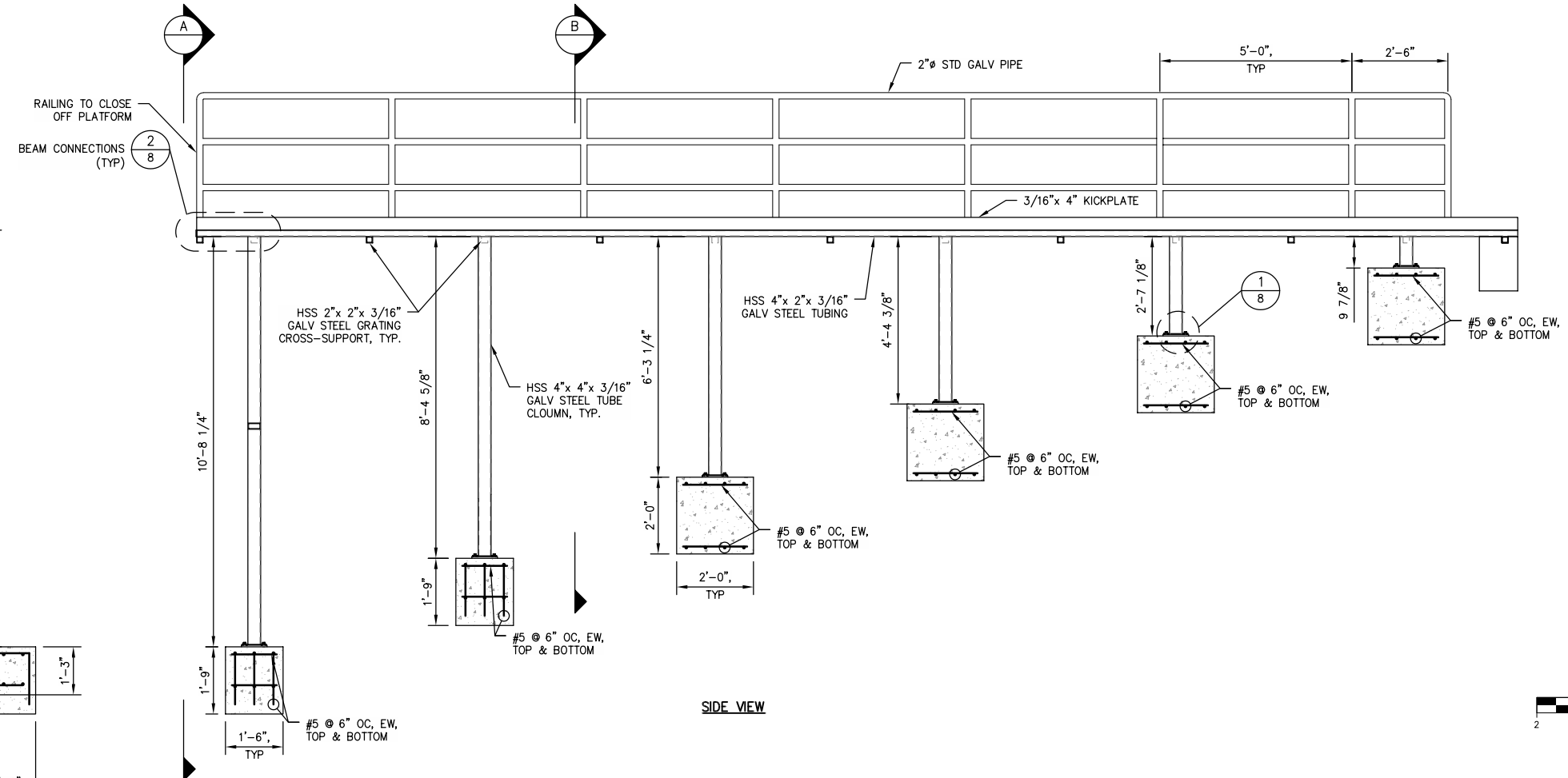
SECTION B



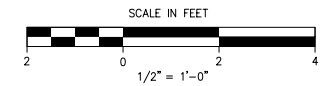
SECTION A



TOP VIEW



SIDE VIEW



DATE SIGNED: _____

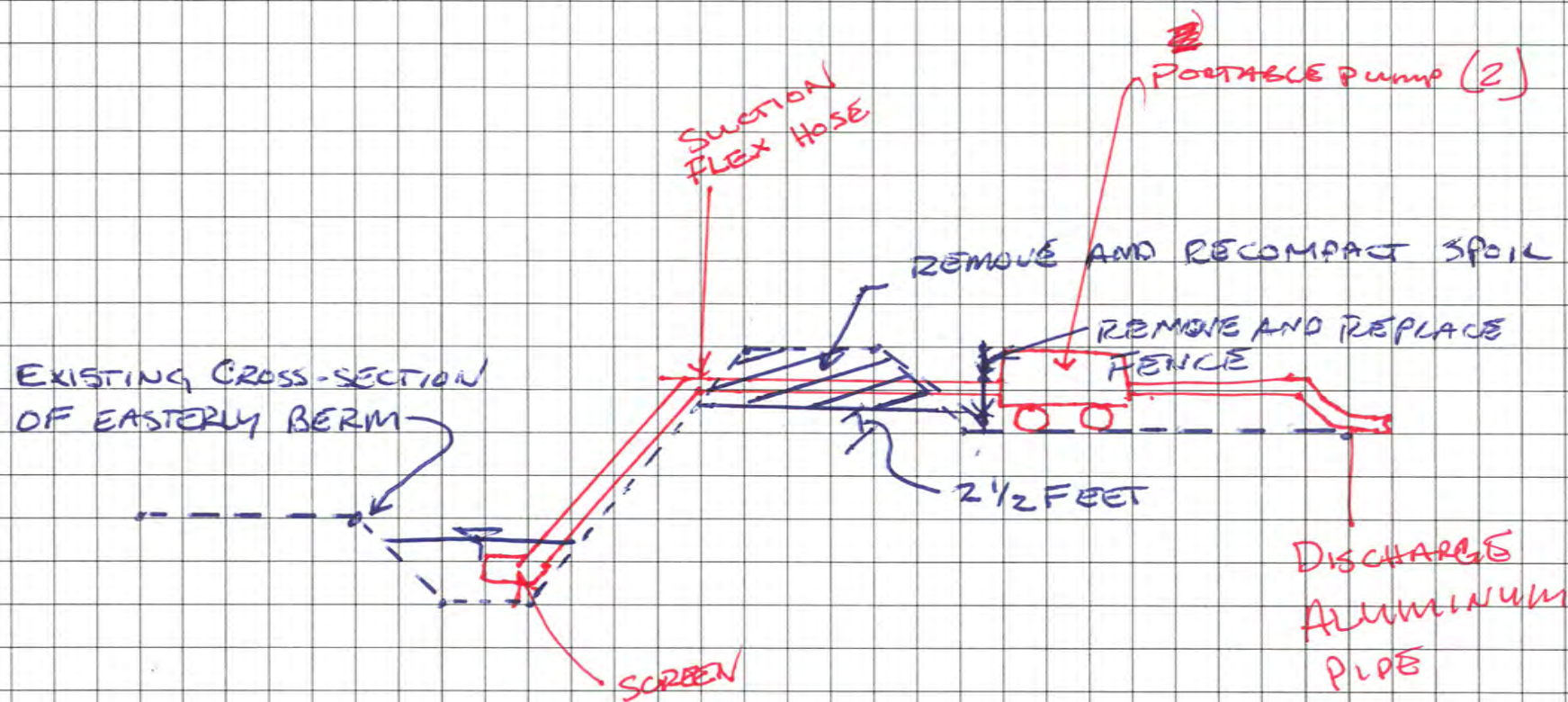
STEEL FRAME AND GRATING CROSS-SUPPORT

PROJECT

BOLTZ PROJECT

DATE: 2/22/17
 JOB NO.:
 COMP. BY: DM
 CHKD. BY:
 SHEET OF

NOTE:





PROJECT Application No. T2016061
 HYDRAULIC BLOCKAGE CALC.

DATE: 6/6/2016
 JOB NO: 1057-15-001
 COMP. BY: CM
 CHKD. BY:
 SHEET 1 OF 2

- GIVEN:**
- CROSS-SECTION (SHEET 5/11 PLANS) COLUMNS
 - HYDRAULIC BLOCKAGE = AREA BLOCKING FLOW PATH.
 - CROSS-SECTION OF CHOWCHILLA BY-PASS.
 ≈ 580 ft WIDE. INVERT EL = 154'.
 - DETAIL SHEET 11/11 PLANS.
 - WATER ELEVATION: 168.0'

REQ'D: CALCULATE HYDRAULIC BLOCKAGE IN CHOWCHILLA BY-PASS DUE TO THE INSTALLATION OF THE WALKWAY.

SOLN:

① GATE: $L = \begin{array}{r} 168 \\ -159 \\ \hline 9 \end{array}$ $W = 4'$ WIDE
 $W = 0.33'$ WIDE

AREA = $9' \times 0.33' = \underline{\underline{3 \text{ ft}^2}}$

② 1ST COLUMN: $L = 8'$ $W = 4'$ WIDE
 $W = 0.33'$ WIDE

AREA = $8' \times 0.33' = \underline{\underline{2.64 \text{ ft}^2}}$

③ 2ND COLUMN: $L = \begin{array}{r} 168 \\ -162 \\ \hline 6 \end{array}$ $W = 4'$ WIDE
 $W = 0.33'$ WIDE

AREA = $6' \times 0.33' = \underline{\underline{1.98 \text{ ft}^2}}$

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ENGINEERING GROUP

PROJECT

APPLICATION NO. T2016061
HYDRAULIC BLOCKAGE CALC.DATE: 6/6/2016
JOB NO: 1657-15-001
COMP. BY: CM
CHKD. BY:
SHEET 2 OF 2

$$\textcircled{4} \quad L = \frac{168' - 164'}{4'} \quad W = 0.33'$$

$$\text{Area} = 4' \times 0.33' = \underline{1.32 \text{ ft}^2}$$

$$\textcircled{5} \quad L = \frac{168' - 166'}{2'} \quad W = 0.33'$$

$$\text{Area} = 2' \times 0.33' = \underline{0.66 \text{ ft}^2}$$

$$\text{TOTAL } \textcircled{1-5} = 9.6 \text{ ft}^2$$

$$\textcircled{6} \quad \textcircled{A} \quad \frac{(6" \times 18")}{144 \frac{\text{in}^2}{\text{ft}^2}} = 0.75 \text{ ft}^2$$

$$\textcircled{B} \quad \frac{9" \times 18"}{144 \frac{\text{in}^2}{\text{ft}^2}} = 1.125 \text{ ft}^2$$

$$\textcircled{C} \quad \frac{9" \times 18"}{144 \frac{\text{in}^2}{\text{ft}^2}} = 1.125 \text{ ft}^2$$

$$\text{TOTAL } \textcircled{6} = 3 \text{ ft}^2$$

$$\text{AREA OF CHANNEL} \quad D = \frac{168' - 159'}{14'} \quad W = 580 \text{ ft}$$

$$\text{Area} = 14 \text{ ft} \times 580 \text{ ft} = 8,120 \text{ ft}^2$$

% BLOCKAGE

$$\frac{(9.6 \text{ ft}^2 + 3 \text{ ft}^2)}{8,120 \text{ ft}^2} = \boxed{0.16\%}$$

$$0.16\% < 1.0\% \quad \therefore \text{No HYDRAULIC ANALYSIS NEEDED.}$$



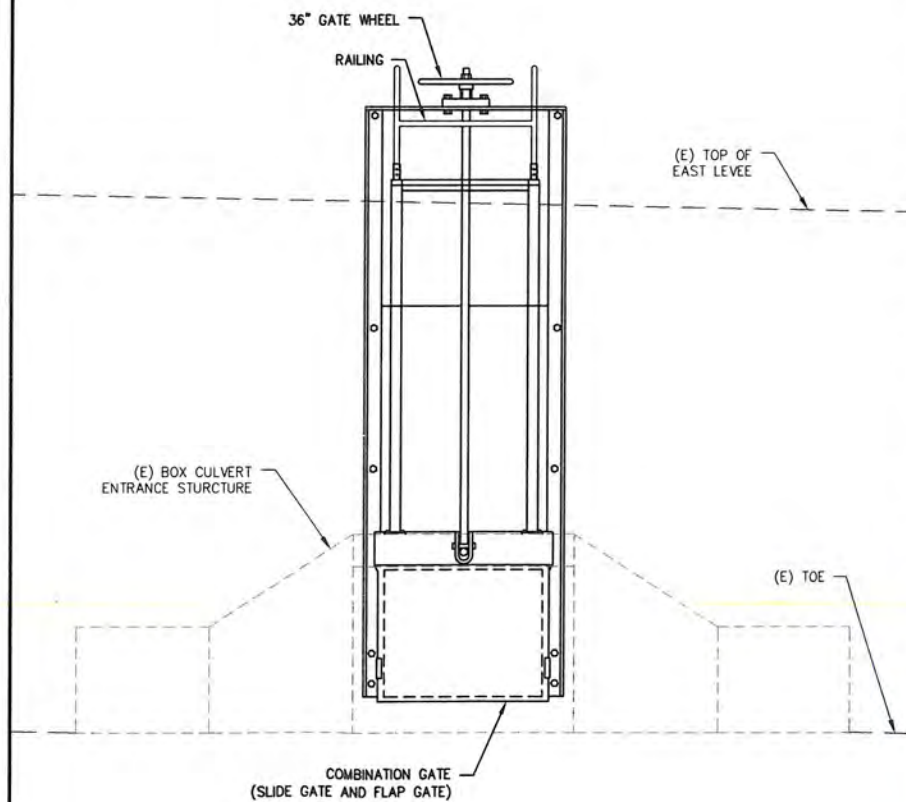
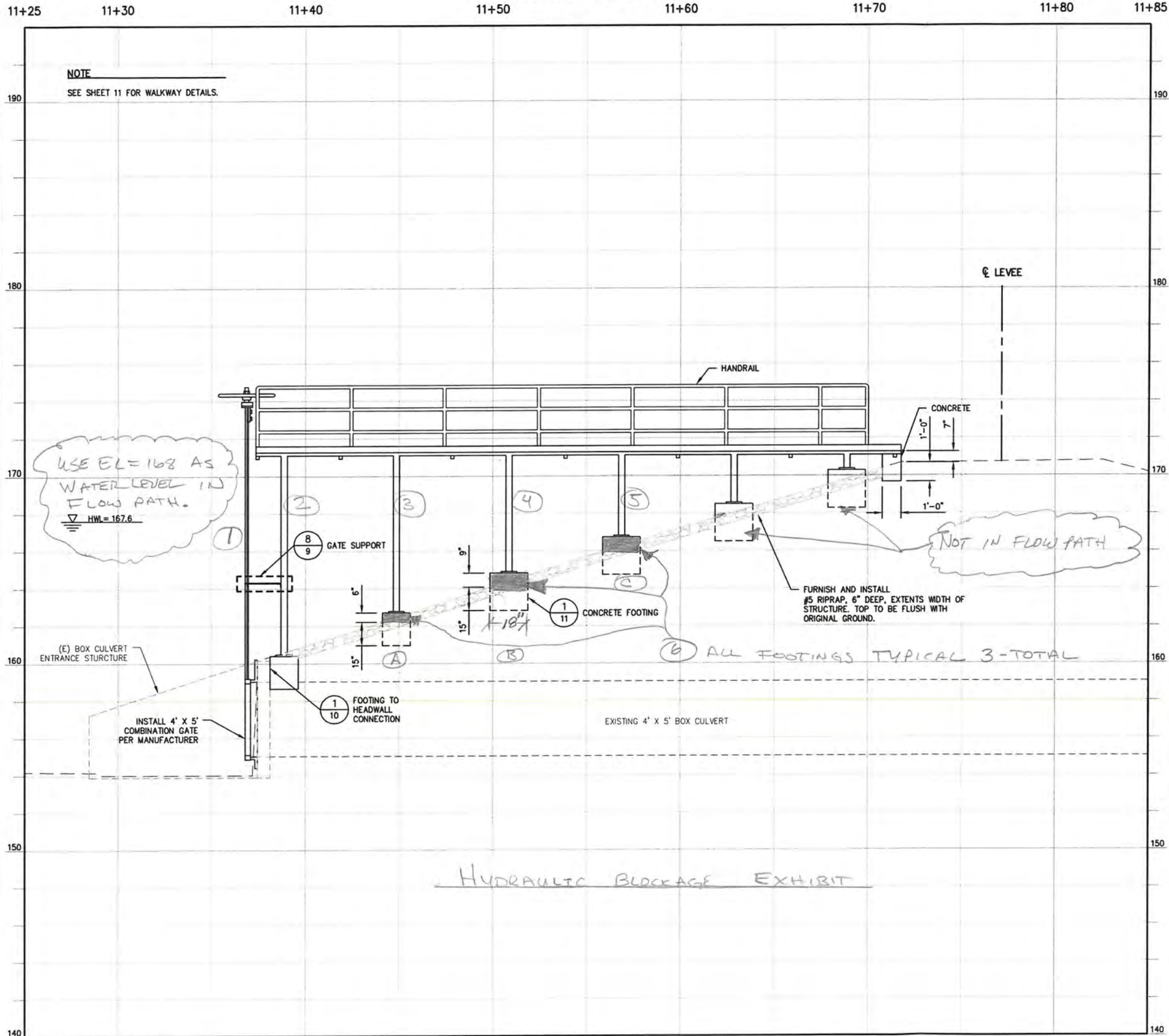
Know what's below.
Call before you dig.

WARNING



POWER LINES
OVERHEAD

ALIGNMENT (A) PROFILE



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ALISO RANCH ON-FARM CAPTURE AND RECHARGE PROJECT
BRITZ, INC.
MADERA COUNTY, CA
PROFILE
BOX CULVERT

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PHASE: ----
0 1"
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ONE INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.
SHEET
5
OF 11

Project: Permit No. 19109, DLM Partners
Chowchilla Bypass
BOARD Parcel No.: 3368A

State of California
California Natural Resources Agency
CENTRAL VALLEY FLOOD PROTECTION BOARD

LICENSE

The SACRAMENTO AND SAN JOAQUIN DRAINAGE DISTRICT, acting by and through the Central Valley Flood Protection Board of the state of California, hereinafter referred to as BOARD, licenses revocable, nonexclusive use of BOARD property, hereinafter referred to as PREMISES, at the location and under conditions set forth in Sections 1, 2, and 3 of this License.

SECTION 1

LICENSEE: DLM Partners

LICENSEE ADDRESS AND PHONE: DLM Partners
PO Box 9050
Fresno, CA 93790
Attn: Martin Britz
(559) 448-8000

BOARD ADDRESS: Central Valley Flood Protection Board
Operations Branch, Permitting Section
3310 El Camino Avenue, Suite 170
Sacramento, California 95821

LOCATION: Chowchilla Canal Bypass Unit 17 Levee Mile 8.4, California
(Firebaugh Blvd. Bridge)
See Exhibit A attached to this license.

LICENSED USE: Access onto the Chowchilla Canal Bypass Levee Unit 17 Levee Mile 8.4 via the Firebaugh Blvd. Bridge for use of the property as authorized by BOARD Encroachment Permit No. 19109 to install an elevated horizontal walkway and a combination gate on the existing 4-feet by 5-feet box culvert structure and subsequently for the operation and maintenance of the project. The PREMISES is located at Levee Mile 8.4, east of the City of Firebaugh, County of Madera.

IMPROVEMENTS LICENSED FOR USE: Chowchilla Canal Bypass Levee Unit 17 Levee Mile 8.4

TERM: Five (5) years or the BOARD Permit No. 19109 is inactive or change in ownership.

LICENSE FEE: Five Hundred Dollars (\$500) annually

INSURANCE REQUIRED: ☒ yes ☐ no

CONSENT OF TENANT REQUIRED: ☐ yes ☒ no

SECTION 2

SPECIAL CONDITIONS

1. LICENSEE shall provide a seven (7) day advance notification prior to accessing BOARD's right of way. Please contact the BOARD's Operations Branch, Permitting Section at (916) 574-0609.
2. BOARD's ongoing operations and maintenance activities shall not be disrupted during construction accessing. Access to the PREMISES shall remain open for duration of construction.
3. This License shall expire 5 years after final execution or when there is a change in ownership and/or maintenance responsibility of the work authorized under BOARD Permit No. 19109, unless LICENSEE or successor notifies BOARD in writing, within 90 days of expiration or change in ownership that it wishes to renew the License. Terms and conditions of the renewed license may be subject to negotiations prior to renewal.
4. The subsequent and long-term operations and maintenance of the DLM Partners Project following construction will require continued use of the PREMISES.
5. LICENSEE shall comply with all conditions set forth in BOARD Permit No. 19109. This License satisfies Special Condition No. THIRTEEN.
6. LICENSEE agrees to operate the encroachment in a manner that will not interfere with the BOARD's right to use the property or access roads at any time and in any matter reasonably necessary for the purposes of flood management or flood fighting.
7. LICENSEE agrees to restore the project area to at least the same condition that existed prior to operation of the encroachment and replace any damaged structures or facilities including but not limited to fences and gates.

SECTION 3

1. **USE OF PREMISES:** LICENSED USE is to be strictly construed. LICENSEE shall not use or cause to be used any part of the PREMISES for any purpose or purposes other than the use hereinabove specified. This License is revocable permission, grants no interest in real property to LICENSEE for the use herein licensed, and BOARD does not warrant that the land is capable of being used for the licensed use. This License and the uses licensed hereunder are not assignable.

LICENSEE shall exercise reasonable care that no damage shall occur to the PREMISES and shall not do or cause to be done any act or thing to be done upon the PREMISES which is a nuisance or which may disturb the quiet enjoyment by BOARD or interfere with the operations of BOARD or any tenant of property.

BOARD makes no warranty or representation as to its title to the area covered by this License. Licensed uses shall be subordinate to all existing easements, covenants, servitudes, licenses and rights of way for canals, ditches, levees, roads, highways, telegraph, telephone and electric power lines, railroads, pipeline and other purposes whether recorded or not and rights of others under any existing oil, gas, mineral lease or other leases or uses affecting the PREMISES or any portion thereof, whether recorded or not.

2. **COMPLIANCE WITH LAW:** LICENSEE shall, at its expense, promptly comply with any and all laws, ordinances, rules, regulations, requirements and orders whatever, present or future, of the national, state, county or municipal government which may in any way apply to the use, maintenance or occupation of or operations on the PREMISES by LICENSEE hereunder.
3. **INDEMNIFICATION:** This License is made upon the express condition that the State of California is to be held harmless from all liability and claims for damages by reason of any injury to any person or persons, including LICENSEE, or property of any kind whatsoever and to whomsoever belonging, including LICENSEE, from any cause or causes whatsoever while in, upon, or in any way connected with the PREMISES during the term of this License or any occupancy hereunder, except those arising out of the sole negligence of BOARD; provided, however that LICENSEE shall have no liability for acts or omissions of third parties that are unrelated to LICENSEE or its activities undertaken pursuant to this License. LICENSEE agrees to defend, indemnify and save harmless the BOARD of California, its officers, employees, contractors and agents from all liability, loss, cost or obligation on account of or arising out of any such injury or loss, however occurring; provided, however that LICENSEE shall have no liability for acts or omissions of third parties that are unrelated to LICENSEE or its activities undertaken pursuant to this License.
4. **DAMAGE:** In the exercise of the rights herein granted, LICENSEE is responsible for any damage, destruction, or loss caused by LICENSEE or its agents to the PREMISES or facilities of BOARD, its water contractors, lessees, LICENSEES, permittees or other members of the public. LICENSEE shall indemnify and save harmless BOARD for all such damage, destruction, or loss, or at the option of BOARD, LICENSEE shall repair or replace said property to the satisfaction of BOARD.
5. **FUTURE MOVING OF INSTALLATION:** LICENSEE shall at the LICENSEE's sole cost and expense, remove, alter, relocate or reconstruct all or any part of the work herein approved immediately upon the order of BOARD to do so, and in the manner prescribed thereby, should said work or any portion thereof not conform to the provisions of this order, or should said work or any portion thereof be injurious to or damage any works necessary to any plan of BOARD or the Legislature, or should it interfere with the successful execution, functioning or operation of any such plan of flood control, or should such removal, alteration, relocation or reconstruction be necessary under or in conjunction with any present or future flood control plans for the area in which the work herein approved is to be accomplished, and in case applicant delays acting upon any such order of BOARD, BOARD may proceed to perform the required work, and the cost thereof shall be paid by LICENSEE.
6. **MAINTENANCE:** LICENSEE shall properly maintain any encroachment placed by LICENSEE on BOARD's property.
7. **INSURANCE:** If required by Section 1, LICENSEE shall furnish to BOARD a Certificate of Insurance at the time the License is signed, stating that there is liability insurance presently in effect for LICENSEE with bodily injury and property damage limits of not less than \$1,000,000 per occurrence. The certificate of

insurance will provide:

- a. That the insurer will not cancel the insured's coverage without thirty (30) days' prior written notice to BOARD.
- b. That BOARD, its officers, agents, employees and servants are included as additional named insureds, but only insofar as the operations under this License are concerned.
- c. That BOARD will not be responsible for any premiums or assessments on the policy.
- d. That PREMISES included in this License is covered by the policy.

LICENSEE agrees that the bodily injury liability insurance herein provided for shall be in effect at all times during the term of this License. In the event said insurance coverage expires at any time or times during the term of this License, LICENSEE agrees to provide at least thirty (30) days prior to said expiration date, a new certificate of insurance evidencing insurance coverage as provided for herein for not less than the remainder of the term of the License, or for a period of not less than one (1) year. In the event LICENSEE fails to keep insurance coverage in effect at all times as herein provided, BOARD may, in addition to any other remedies it may have, terminate this License upon the occurrence of such event.

8. **HAZARDOUS MATERIALS:** LICENSEE shall not possess, use or dispose of any hazardous materials or waste on BOARD's property, or cause to be possessed, used or disposed, without the express written consent of BOARD.
9. **TERMINATION:** Either party herein reserves the right to terminate this License upon providing written notice to the other party. This License is revocable by BOARD without cause or fault.
10. **VACATION:** LICENSEE agrees to vacate PREMISES within twenty-four (24) hours in the event of emergency as determined by BOARD.
11. **TERMINATION AND RESTORATION OF THE PREMISES:** Termination of this License in any manner as to all or any part of the PREMISES, shall not relieve LICENSEE from any obligation or liability theretofore accrued hereunder, nor prejudice, or in any way affect the right of BOARD to enforce any right or remedy it may have had before such termination. Upon any such termination, LICENSEE shall within fourteen (14) days remove all of LICENSEE's improvements and personal property from the PREMISES and restore them to a condition satisfactory to BOARD to the extent such condition was altered or affected by LICENSEE. At its option, BOARD may remove the same and restore the PREMISES, and LICENSEE agrees to reimburse BOARD for the cost thereof upon demand to the extent such condition was altered or affected by LICENSEE.
12. **DEFAULT, ENFORCEMENT OR BREACH COSTS:** LICENSEE shall pay, upon demand, all costs and expenses (including attorney's fees in a reasonable amount) incurred by BOARD to enforce any of the covenants, conditions and provisions of this License, or to dispossess LICENSEE, irrespective of whether or not court action shall be brought.
13. **NOTIFICATION:** Any notice or demand by either party to the other in connection with this License shall be deemed to be fully given or made when written and deposited in a sealed envelope in the United States mail, registered or certified and postage prepaid, and addressed to the party to whom given at the address specified in Section 1. Either party may change its address by giving the other party written notice of its new address as herein provided. BOARD may give notice by phone to LICENSEE in emergency situations which may require LICENSEE to vacate PREMISES within twenty-four (24) hours.

LICENSEE's Name and Address:

DLM Partners
PO Box 9050
Fresno, CA 93790
(559) 448-8000

Martin Britz, DLM Representative

Date: _____

APPROVAL RECOMMENDED:

Thomas M. O'Neil, Senior Land Agent Date

APPROVED:
SACRAMENTO AND SAN JOAQUIN DRAINAGE
DISTRICT, acting by and through the Central Valley
Flood Protection Board of the State of California

Angelica Aguilar, Chief
Property Management and Encroachment Permit
Section

Date: _____

Approved as to Legal Form and sufficiency for The
Central Valley Flood Protection Board

Karin Shine, Staff Counsel

Date: _____

Exhibit A

