

## NOTICE OF ACTION For Encroachment Permit Request

**Date:** April 29, 2016  
**File Number:** 11033  
**Facility:** Calabazas Creek  
**Project Reference:** Sunnyvale Baylands  
Pump Station

**TO:** Mr. Nathan Scribner, Senior Engineer  
City of Sunnyvale  
603 All American Way  
Sunnyvale, CA 94088

**Return Signed Permit By:** May 30, 2016

*Santa Clara Valley Water District Water Resources Protection Ordinance requires that a written notice of action be sent to an applicant indicating whether their request for an encroachment permit is approved, conditionally approved or denied.*

1.  Your request for an encroachment permit for activities or modifications within District property or easement has been conditionally approved. **Please sign and return the enclosed encroachment permit to the letterhead address within 30 calendar days along with a check, money order, cashier's check, or cash (do not mail cash) in the amount of \$2969.13 (Invoice no. 11033-2, attached).** Your signature indicates acceptance of the permit and the conditions noted on the permit. **You are not authorized to begin construction until you receive the fully executed signed permit.**

**The final countersigned permit authorizing construction or activity within District right of way will be returned to you.** In the event construction commences prior to the effective date of the encroachment permit, the applicant/owner may be required to remove all work and restore the site to the pre-project condition at the applicant/owner's expense.

2.  Your request for an encroachment permit is denied for the following reason(s):

**Questions or comments about your project may be referred to Ms. Yvonne Arroyo by phone at (408) 630-2319 or by e-mail at [yarroyo@valleywater.org](mailto:yarroyo@valleywater.org)**

*Right to Appeal:*

*You may appeal a decision, related to findings or conditions of approval, made by the Permit Authority. The appeal must be in writing, must be accompanied with the filing fee of \$100 and must be filed with the Clerk of the Board no later than 10 calendar days following the date of this notice. Within 10 calendar days from receipt of the request of appeal, a time and place for a hearing will be set. The hearing will be conducted by the Board of Directors and will be scheduled within 45 calendar days of receipt of the hearing request. Upon conclusion of the hearing, the Board will issue a tentative decision on the appeal. A resolution setting forth the Board's decision and the basis therefore will be placed on the Board agenda within 30 days. The Board's decision as set forth in the resolution is final.*

**CPRU INVOICE**



5750 Almaden Expy.  
San Jose, CA 95118

**Invoice Date** 04/29/2016

**File No.** 11033

**Record No.** 56788

**Invoice No.** 11033-2

**Project Ref.** Sunnyvale Baylands Pump Station

**Facility No.** 2010

**Facility Name** Calabazas Creek

**Other Labor Charges**

Fee Charged	Comments	Fee	Unit	Amount
Inspection-per trip		\$125.00	3	\$375.00
Construction Permit for Temporary Use, 3 mo-1 yr		\$1000.00	1	\$1,000.00
<b>Sub-Total:</b>				<b>\$1,375.00</b>

**Labor Charges**

Date	Classification/Rate (\$/hr.)	Description of Work	# Hours Charged	Amount
04/14/2014	Asc Engineer (Civil)/\$166.13	Plan review	1	\$166.13
09/26/2014	Asc Engineer (Civil)/\$176.08	Plan review	4	\$704.32
02/13/2015	Asc Engineer (Civil)/\$178.71	Plan review.	2	\$357.42
04/29/2016	Asc Engineer (Civil)/\$183.13	Permit package preparation	2	\$366.26
<b>Sub-Total:</b>				<b>\$1,594.13</b>

<b>Total Payment Due:</b>	<b>\$2,969.13</b>
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**SUBMIT PAYMENT WITH COPY OF INVOICE TO:  
SCVWD, COMMUNITY PROJECTS REVIEW UNIT, 5750 ALMADEN EXPY., SAN JOSE, CA 95118**

CPRU INVOICE

CPRU USE ONLY		Invoice No.
Payment Received From:		
Address:		
Payment Date	Form of Payment	Comments
	Cash Check No _____ Money Order _____ ACH/WIRE	
Account Description		Amt Rec'd
		\$0.00

<b>Total Amount:</b>	<b>\$0.00</b>
<b>Remaining Balance Due:</b>	<b>\$2,969.13</b>

**Facility:** Calabazas Creek

**Permit No.:** 16208

**Permittee:** City of Sunnyvale  
Attention: Mr. Nathan Scribner  
603 All American Way  
Sunnyvale, CA 94088

**Telephone:** (408) 730-2783

**File:** 11033  
Calabazas Creek  
Nly Highway 237  
Wly Calabazas Creek

**Agent:** Schaaf and Wheeler  
Attention: Mr. Peder Jorgensen  
1171 Homestead Road  
Santa Clara, CA 95050

**Telephone:** (408) 246-4848

**Re:** Sunnyvale Baylands  
Pump Station

**Purpose of Permit:**

- Encroachment
- Construction
- Temporary

1. Modification of existing Sunnyvale Baylands Pump Station No. 2 discharge pipes such that the point of discharge is near the top of levee rather than at the bottom of the levee, including placement of additional half-ton rock rip rap, within Santa Clara Valley Water District (District) easement for Calabazas Creek.
2. Abandon-in-place two discharge pipes.

**Construction Expiration Date:** November 1, 2016    **Encroachment Expiration Date:** \_\_\_\_\_

**PERMITTEE MUST NOTIFY AND FURNISH SCHEDULE OF WORK TO:**

District's Permit Desk inspector, at (408) 265-2607, extension 2779, c/o Mr. Arnold Sarmiento at least 2 District business days before starting any work under this permit. **Failure to notify is cause for revocation of permit and removal of work.** This permit is subject to the General Conditions listed on page 2 and 3 hereof (and if specified, the Special Conditions listed on page 4). Violation of any condition specified in this permit shall be cause for immediate revocation of this permit. This permit is not effective unless signed by both the Permit Authority and Permittee.

**Permittee**

I, the Permittee (or agent of the Permittee), read and understand the permit conditions (i.e. General Conditions, and if specified, the Special Conditions) contained in this permit and by signing below, I agree to abide by each and every term and condition in this permit. If signing as a duly authorized agent of the Permittee, I hereby represent and warrant that I have the authority to bind Permittee to all of the terms and conditions specified in this permit.

\_\_\_\_\_  
Name of Permittee

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name/Title of Signatory

**SCVWD**

\_\_\_\_\_  
Sue A. Tippetts, P.E.  
Engineering Unit Manager(Permit Authority)  
Community Projects Review Unit

\_\_\_\_\_  
Effective Date

Cc: A. Sarmiento, S. Tippetts, Y. Arroyo, D. Mody, C. Grande, R. Bramer, U. Chatwani, File

**GENERAL CONDITIONS**

1. **ACCEPTANCE OF CONDITIONS.** Permittee's activity or work under this permit constitutes Permittee's acceptance of the general and special conditions contained in this permit.
2. **PERMIT RIGHT.** District grants to Permittee a revocable, personal, and non-exclusive license to enter upon the right-of-way owned by the District that is described in **Exhibit A** attached hereto ("Permit Area"), for the limited purpose and subject to the terms, conditions and restrictions set forth below.
3. **DISTRICT TITLE.** The District has title to the Permit Area based upon recorded right-of-way deeds and/or an implied dedication. This permit is effective only as to the rights of the District in the Permit Area, and Permittee shall obtain any further permission that is necessary to use the Permit Area. This permit does not address any rights in the Permit Area belonging to any other entity or person and is subject to all prior unexpired permits, agreements, easements, privileges, or other rights, whether recorded or unrecorded, in the Permit Area. Permittee shall make arrangements with holders of such prior rights. Permittee places its encroachment at its own risk.
4. **KEEP PERMIT ON THE WORK SITE.** Permittee must maintain a copy of this permit and approved plans on the Permit Area at all times and it must be shown to any representative of the District or law enforcement officer upon demand.
5. **CONSTRUCTION OF IMPROVEMENTS.** All improvements shall conform to recognized standards of construction and constructed in accordance with the plans accepted by the District. All the work shall be done subject to the satisfaction of the District's Inspector. No change of the project, as outlined in the plans, drawings, or other documentation submitted with Permittee's encroachment permit application to the District, will be allowed except upon the District's written permission.
6. **MAINTENANCE.** Permittee shall exercise reasonable care to maintain properly any encroachment or improvement placed by it or its agent in the Permit Area and to exercise reasonable care in inspecting for and immediately repairing and making good any damage to any portion of the Permit Area as a result of activities performed under this permit, including any and all damage to the Permit Area which would not have occurred had such work not been done or such encroachment or improvement not been placed therein. The District shall not be held responsible for any damage to any encroachment or improvement installed by Permittee under this permit, whether said damage is caused by the District or its agent or otherwise.
7. **CLEAN UP PERMIT AREA.** Upon completion of any activity under this permit or the revocation of this permit, the Permit Area shall be placed in substantially the same condition as it was immediately prior to the work. If Permittee fails to restore the Permit Area to such condition, the District may perform such work or have work performed, and Permittee agrees to reimburse the District for all costs of the work so performed.
8. **PERMIT SUBORDINATE TO DISTRICT'S USE OF PERMIT AREA.** Whenever the District desires to construct, reconstruct, or do maintenance work on the Permit Area, or use the Permit Area for any purpose, the Permittee shall, upon the District's request, immediately move, remove, relocate or otherwise change, any improvements, encroachments, work or installation on the Permit Area, all at the sole expenses of the Permittee.
9. **TERM.** Unless a permit expiration date is expressly specified in this permit, the term of this permit is indefinite and may be revoked by the District or abandoned by Permittee at any time. If the District elects to revoke this permit, it will provide Permittee with written notice specifying the date this permit is no longer in effect.
10. **PERMITS AND LICENSES FROM OTHER PUBLIC AGENCIES.** This permit does not relieve Permittee of the responsibility from obtaining all applicable permits, licenses and/or other permissions that must be obtained from other public agencies and/or commissions in order for Permittee to carry its activities within or use the Permit Area.
11. **COMPLIANCE WITH LAWS.** Permittee shall, at its expense, conduct and cause to be conducted all activities on the Permit Area in a safe and reasonable manner and in compliance with all laws, statutes, ordinances, rules, regulations, policies, orders, and edicts (collectively, "Laws") of any governmental or other regulatory entity, including, without limitation: (i) all applicable water quality standards adopted by the District, Regional Water Quality Control Board, State Water Resources Control Board, or other jurisdictional or properly empowered regulatory agency; (ii) all applicable labor laws; and (iii) all health and safety laws (including trench excavation and obtaining as legally required a "Permit to Excavate" issued by the Division of Occupational Safety and Health as required by the California Labor Code). Permittee's failure to adhere to this paragraph shall be a material breach of this permit.
12. **INDEMNITY.** Permittee and its successors and assigns shall indemnify, defend, and hold harmless, the District, its directors, officers, agents, employees and contractors, and each of them, from and against any and all demands, claims, legal or administrative proceedings, losses, costs, penalties, fines, liens, judgments, damages and liabilities of any kind arising in any manner out of or relating to any use or activity under this permit, including, but not limited to, the use, construction encroachment or maintenances done by Permittee or its agents, employees or contractors on or near the Permit Area.
13. **WAIVER OF CLAIMS.** Permittee waives its right to assert any claim or action against the District related to the condition of the Permit Area or its use by Permittee.

**GENERAL CONDITIONS - Continued**

14. **NO HAZARDOUS SUBSTANCES.** Permittee shall not use, store, transport, or place any hazardous substances (including hazardous waste and hazardous materials) on the Permit Area or adjacent to Permit Area. If any spills or discharge of hazardous substances are used or produced during the permitted activity, then Permittee must: (i) notify the District and the proper authorities; (ii) immediately investigate, remove, and monitor the hazardous substances to the satisfaction of the District and any regulatory agency; and (iii) bear any and all costs associated with the remedial activities. The District has the absolute right to immediately suspend any operation that does not adhere to these requirements, or is found to be in violation of any Local, State, or Federal Environmental Regulations, until the problem is adequately or completely resolved.
15. **INSURANCE.** At any time, at the sole discretion of the District, Permittee may be required to obtain insurance (including general liability insurance) with a reasonable policy limit as determined by the District, naming Permittee as the insured and the District (including its directors, officers, agents, employees and contractors) as an additional insured to cover Permittee's activities and/or the encroachments placed in the Permit Area. Permittee's failure to obtain such insurance is a material breach of this permit.
16. **IMPORTED MATERIALS.** If Permittee seeks to place or store on the Permit Area any soils that did not originate from such Permit Area, then Permittee must submit to the District for its evaluation a fully completed "Import Material Certification Form" requesting the District's permission.
17. **CHANGED CONDITIONS.** If conditions change or new facts are discovered concerning the effects of the activities and uses authorized under this permit, or for other good cause, the District may modify this permit in order to protect life and property.
18. **REPAIR DAMAGE TO PERMIT AREA.** Any damage caused to the Permit Area, including (without limitation) damage to structures, vegetation, stream bank, fencing, maintenance road surfacing, and pipelines due to the use or activities carried out under this permit shall be repaired at the cost of Permittee and to the satisfaction of the District. Should Permittee neglect to make repairs promptly, District may make repairs or have repairs made, and Permittee agrees to reimburse District for all costs of such repairs. District may require a security deposit in advance from Permittee to secure the performance of this paragraph. Unexpended portions of any deposit shall be refunded to Permittee within 30 business days of the expiration of this permit. The posting of such a security deposit shall not relieve the Permittee from any liability under this permit which exceeds the value of the deposit required.
19. **NO REAL PROPERTY INTEREST.** Nothing contained in this permit shall be construed as a relinquishment of any rights held by the District. It is expressly understood that this permit does not in any way whatsoever grant or convey any easement, fee or other interest in the Permit Area to Permittee.
20. **PERMIT NON-TRANSFERABLE.** This permit may not be transferred or assigned by Permittee to any party, unless expressly specified in the special conditions section of this permit, or agreed to by the District in writing.

**SPECIAL CONDITIONS**

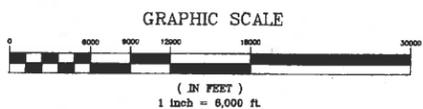
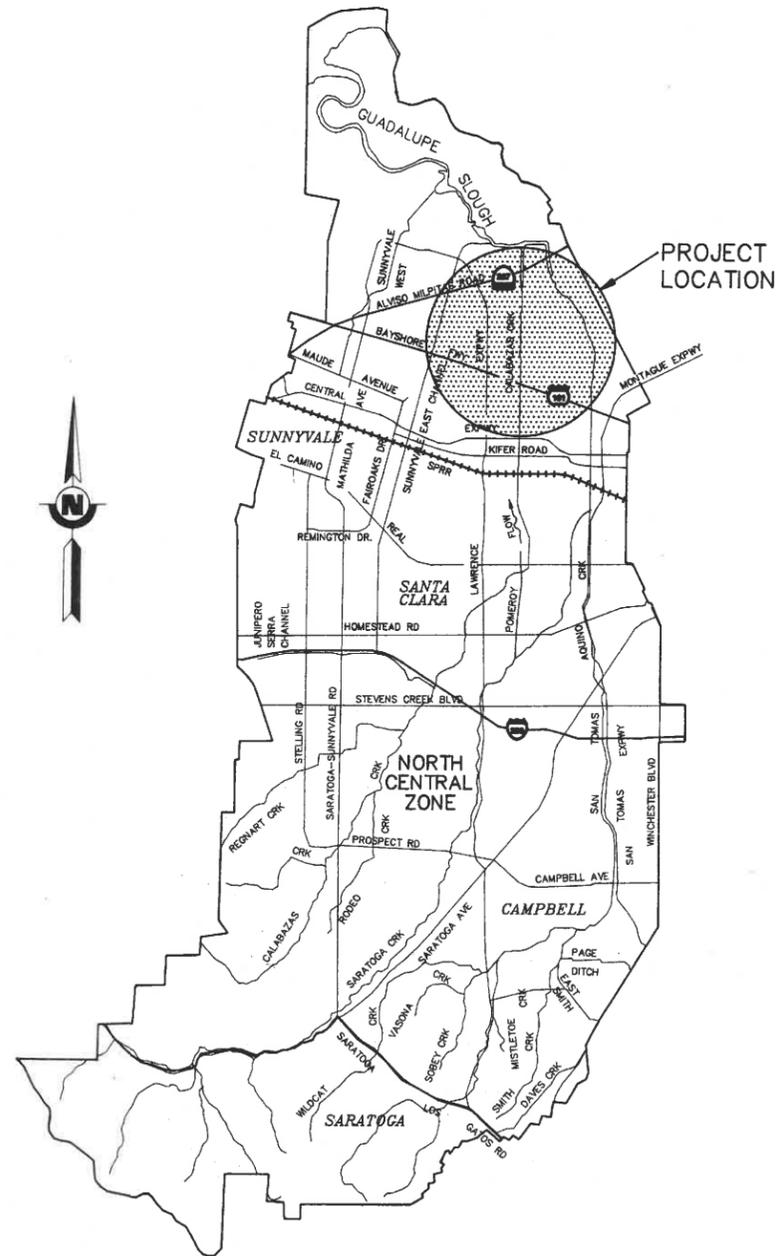
1. Permittee is responsible for ensuring that construction activities and work do not modify, impact, or damage the District's existing levee, flood wall, levee grades, levee footprint, or levee retaining wall located within the District's exclusive easement, as shown in the District's 1994 as-built plans (referenced in Permittee's final construction drawings Sheet 10 of 39). Excerpts from the District's 1994 as-built plans are attached to this permit in Exhibit B. It is Permittee's responsibility to ensure this requirement is met and to take any necessary measures and to obtain any necessary information it needs to meet this requirement.
2. Permittee shall notify District's inspector, named on Page 1 of this permit, immediately if any damage occurs to the District's floodwall, levee retaining wall or excavation of the District's levee footprint occurs, in order to get direction from the District on remediation and repair of the damage at Permittee's sole expense.
3. Permittee must prevent pollutants, including construction material and debris, from directly or indirectly entering Calabazas Creek.

**EXHIBIT A  
PERMIT AREA**



**Exhibit B**

**Excerpt from Calabazas Creek Phase II 1994 As-Built Plans**



# MAP AND CONSTRUCTION PLAN

FOR

# CALABAZAS CREEK

**PHASE II: GUADALUPE SLOUGH TO ARQUES AVE.**

**Santa Clara Valley Water District**



**NORTH CENTRAL FLOOD CONTROL ZONE**

**PROJECT NO. 2010**

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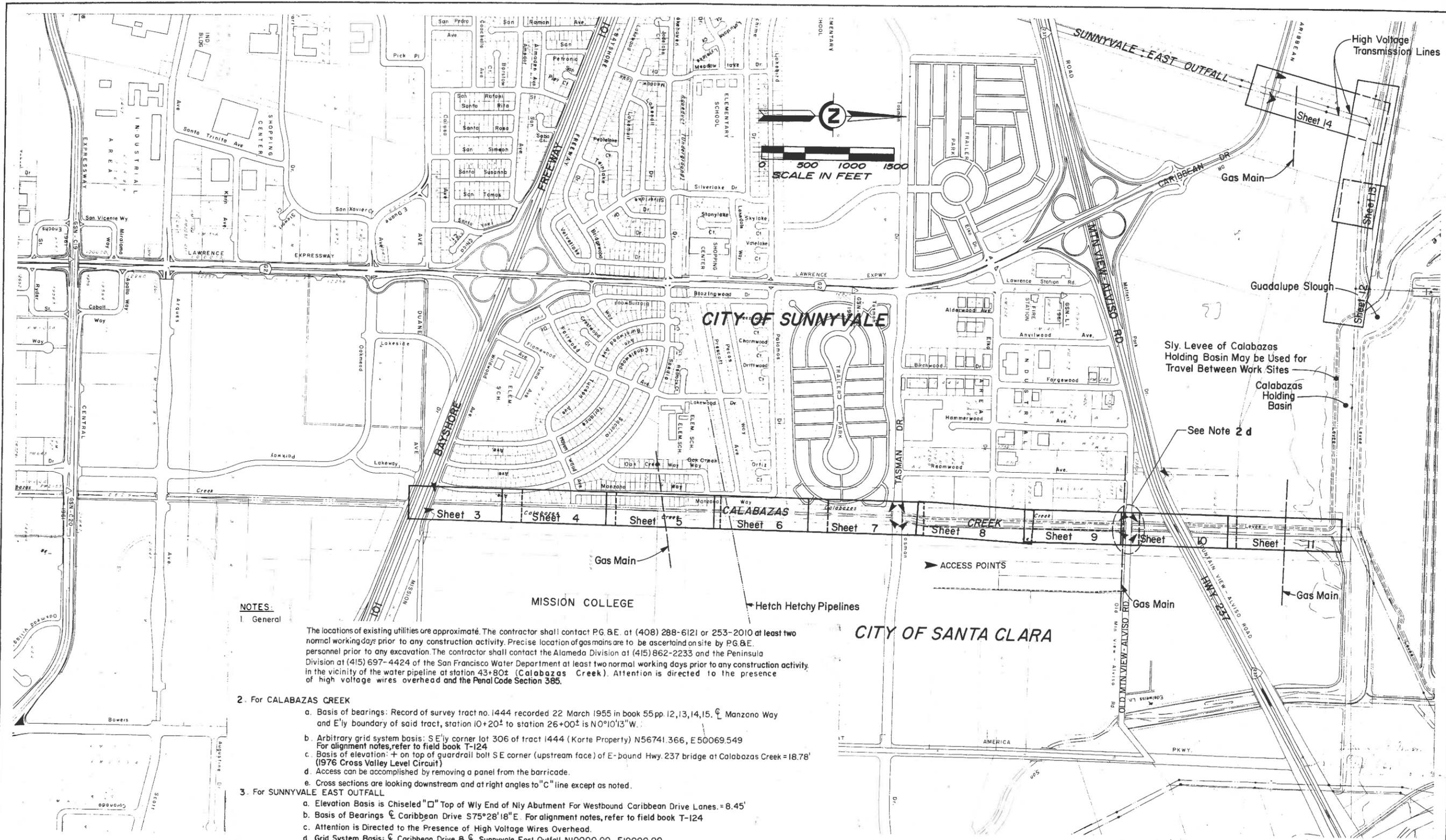
PROJECT APPROVAL

*P. Kay Whitlock*  
FLOOD CONTROL MANAGER

DATE April 25, 1994

2010-20-1-1

18886



**NOTES:**

1. General

The locations of existing utilities are approximate. The contractor shall contact PG&E at (408) 288-6121 or 253-2010 at least two normal working days prior to any construction activity. Precise location of gas mains are to be ascertained on site by PG&E personnel prior to any excavation. The contractor shall contact the Alameda Division at (415) 862-2233 and the Peninsula Division at (415) 697-4424 of the San Francisco Water Department at least two normal working days prior to any construction activity in the vicinity of the water pipeline at station 43+80± (Calabazas Creek). Attention is directed to the presence of high voltage wires overhead and the Penal Code Section 385.

2. For CALABAZAS CREEK

- a. Basis of bearings: Record of survey tract no. 1444 recorded 22 March 1955 in book 55 pp. 12, 13, 14, 15.  $\odot$  Manzano Way and E'ly boundary of said tract, station 10+20± to station 26+00± is N0°10'13"W.
- b. Arbitrary grid system basis: S E'ly corner lot 306 of tract 1444 (Korte Property) N56741.366, E50069.549. For alignment notes, refer to field book T-124.
- c. Basis of elevation: + on top of guardrail bolt S E corner (upstream face) of E-bound Hwy. 237 bridge at Calabazas Creek = 18.78' (1976 Cross Valley Level Circuit)
- d. Access can be accomplished by removing a panel from the barricade.
- e. Cross sections are looking downstream and at right angles to "C" line except as noted.

3. For SUNNYVALE EAST OUTFALL

- a. Elevation Basis is Chiseled "□" Top of Wly End of Nly Abutment For Westbound Caribbean Drive Lanes = 8.45'
- b. Basis of Bearings  $\odot$  Caribbean Drive S75°28'18"E. For alignment notes, refer to field book T-124
- c. Attention is Directed to the Presence of High Voltage Wires Overhead.
- d. Grid System Basis:  $\odot$  Caribbean Drive &  $\odot$  Sunnyvale East Outfall N10000.00, E10000.00

REFERENCE INFORMATION AND NOTES

- e. Cross sections are looking upstream and at right angles to left R/W line except as noted.
- 4. Erosion Control - Areas receiving erosion control work shall be all finished cut and fill slopes and Flood Plain on Calabazas Creek excluding the levee tops. See Specifications for seed application.
- 5.  $\odot$  Soils Log Boring Hole and Number.

REFER TO TRACING FOR LATEST REVISION			
REV.	DESCRIPTION	SUB	APPR

DATE 1-17-79  
 DESIGN E.M./s.Lei  
 DRAWN R. Bellum  
 CHECKED A.P.M.

**Santa Clara Valley Water District**

ENGINEERING CERTIFICATION: Robert M. Mundy, P.E. No. 25118  
 ENGINEERING APPROVAL: Robert Howard, P.E. No. 20940

2010-15-1-2

**CALABAZAS CREEK  
 SUNNYVALE EAST OUTFALL  
 SITE MAP**

SCALE AS SHOWN  
 SHEET 2 OF 66

NC-1-2

### GENERAL NOTES

- All existing facilities, structures, trees, fences, landscaping, etc., designated "EXIST." or shown existing (dashed lines) are to remain. Only those specifically designated for removal as shown on the drawings, or as directed by the Engineer, shall be removed.
- All references made to RIGHT or LEFT and all cross-sections shown on the plans are viewed looking Upstream.
- Electrical and telephone lines shown on the plans are overhead facilities, unless noted otherwise.
- Locations and depths of existing underground utilities as shown on the plans are based on information from the utility and are to be considered as approximate only.
- Prior to performing any work in the vicinity of existing underground utilities, the contractor shall verify their locations and depths and take proper precautions to avoid any damage to them.
- See Appendix C of Specifications for Log of Soil Borings.
- All constructed and existing bare slopes adjoining the levees and maintenance roads shall be hydroseeded. Contractor will not be required to hydroseed below elevation 5.0' on the slopes exposed to channel flows, or within 10' of adjacent structures.

### DESIGN NOTES

- Design discharge (Q) is  
 STRA 23+00 TO STRA. 106+37 (U/S HY. 101) Q = 4,300 CFS.  
 STRA 106+49 TO STRA. 133+00 Q = 4,160 CFS.
- Manning's roughness coefficient (n) is as follows where applicable.  
 STRA. 23+65 TO STRA. 49+55.91  
 Habitat Area = .07  
 Low Flow = .03 } COMPOSITE  
 Lt. & Rt. Bank = .035  
 STRA. 50+35.43 TO STRA. 101+02  
 Flood Plain (Includes Part of Low Flow) = 0.035  
 Habitat Area (Includes Part of Low Flow) = 0.12  
 Lt. & Rt. Bank = 0.035  
 STRA. 101+02± TO STRA. 133+00  
 Concrete Lining Channel El. = .015
- Unit stresses for reinforced concrete are as follows:  
 A. Concrete fc' psi = 3,250 psi  
 B. Steel fs psi = 60,000 or as otherwise specified
- Basis of Elevation:  
 B.M. - 78 - A brass disk on the left side of upstream Headwall of the Tasman Drive bridge over Calabazas Creek  
 Elevation = 19.618 feet NGVD 1929 updated by The Cross Valley Level Circuit 1990.
- Basis of Bearings:  
 Reference point 120 found brass disc monument on Old Mt. View - Alviso Rd. & Calabazas Creek.  
 Reference point 130, rebar & plug on west levee at STRA. 38+50± of these plans.

### GENERAL ABBREVIATIONS

ALT	Alternate (Alternated)	HORIZ	Horizontal	SE'LY	Southeasterly
AB	Anchor Bolt, Aggregate Base	HP	Horsepower, Hinge point	SHT	Sheet
AC	Asphalt Concrete	HWY	Highway	SPECS	Specifications
ACI	American Concrete Institute	HK	Hook (Applied to rebar)	SQ FT	Square Feet
ALIGN	Alignment (Align)	I	Irrigation	SS	Sanitary Sewer
AMP	Ampere	ID	Inside Diameter (Dimension)	STA	Station
APPROX	Approximate (Approximately)	IF	Inside Face	STD	Standard
AVRG	Average	IN (")	Inch (Inches)	STL	Steel
ABUT	Abutment	INV	Invert	STR	Structure
ASSY	Assembly	IP	Iron Pipe	SW'LY	Southwesterly
ACP	Asbestos Cement Pipe	JP	Joint Pole	SY	Square Yards
ASPH	Asphalt	JT	Joint	SYM	Symmetrical
AP	Access Point	JUNCT	Junction	SW	Southwest
BC	Begin Curve	K	Kilo	S'LY	Southerly
BF	Both Faces	Km	Kilometer	T	Tangent, Telephone
BM	Bench Mark	Kv	Kilovolt	TBM	Temporary Bench Mark
BRNG	Bearing	Kw	Kilowatt	TC	Top Of Curb
BR	Bridge	L	Length (Long)	TCA	Temporary Construction Area
BW	Barbed Wire	LN	Lane	TFC	Traffic
BK	Bank	LT	Left	TOB	Top Of Bank
BLDG	Building	LP	Lip Of Gutter	TOC	Toe Of Channel
BIT	Bituminous	M	Meter	TP	Telephone Pole, Turning Point
BOT	Bottom	MAINT	Maintenance	TPT-1	Test Pit (Number-Designation / Location)
C	Curve, Chord	MAX	Maximum	TS	Traffic Signal
CB	Catch Basin	MFP	Modified Flood Plain	TV	Television (Cable Or Facility)
CCP	Concrete Cylinder Pipe	MH	Manhole	TW	Top Of Wall
CFM	Cubic Feet Per Minute	MIN	Minimum	TYP	Typical
CFS	Cubic Feet Per Second	MON	Monument	UB	Utility Box
CIP	Cast Iron Pipe	MATL	Material(s)	UC	Utility Conduit
CJ	Construction Joint	MEMB	Member	UG	Underground
CLR	Clear (Clearance)	MTL	Metal	U/S	Upstream
CL-6	Chain Link Fence (Number - Height)	NGVD	National Geodetic Vertical Datum	US&GS	United States Coastal And Geodetic Survey
CM	Centimeter	N	North	V	Volts
CMP	Corrugated Metal Pipe	N/A	Not Applicable, Not Available	VCP	Vitrified Clay Pipe
CONC	Concrete	NE	Northeast	VERT	Vertical
CONST	Construct (construction)	N'LY	Northeasterly	W	With, Water, West, Width, (Wide)
CONT	Continuous (Control)	NF	Near Face	W/O	Without
CY	Cubic Yards	NIC	Not In Contract	WS	Water Surface
CYL	Cylinder	NTS	Not To Scale	WT	Weight
COL	Column	NW	Northwest	WD	Wood (Wooden)
CRK	Creek	NW'LY	Northwesterly	WSP	Water Surface Profile
DEG (°)	Degrees	N'LY	Northerly	WV	Water Valve
DI	Drop Inlet	OC	On Center	WN	Wing Wall
DIA	Diameter	OD	Outside Diameter (Dimension)	WNF	Welded Wire Fabric
DIP	Ductile Iron Pipe	OF	Outside Face	W'LY	Westerly
DR	Drive	OH	Overhead	X-Sect	Cross Section
D/S	Downstream	OPNG	Opening	Y	Yards
DBL	Double	PB	Pull Box	Z	Zone
DWG	Drawing (Drawings)	PCC	Portland Cement Concrete		
DWN	Down	PI	Point Of Compound Curve		
DET	Detail	POB	Point Of Beginning		
E	East, Electric	POT	Point Of Tangent		
EJ	Expansion Joint	PP	Power Pole		
EA	Each	PRC	Point Of Reverse Curve		
EC	End Curve	PSI	Pounds Per Square Inch		
EL	Elevation	PT	Point		
ELECT	Electric (Electrical)	PVC	Polyvinyl Chloride (Pipe)		
ENGR	Engineer (Engineering)	PVMT	Pavement		
EP	Edge Of Pavement	PED	Pedestrian		
EXIST	Existing	Q	Design Discharge (cfs)		
EXPWY	Expressway	R	Radius		
E'LY	Easterly	RCB	Reinforced Concrete Box		
EQU	Equation	RCP	Reinforced Concrete Pipe		
FD	Found	RD	Road		
FF	Far Face	REBAR	Reinforcing Steel Bar		
FG	Finish Grade	REINF	Reinforcement (Reinforcing)		
FH	Fire Hydrant	REQ'D	Required		
FT (')	Feet (Foot)	RT	Right		
FTG	Footing	RTE	Route		
FWY	Freeway	RR	Railroad		
FB	Freeboard	R/W	Right Of Way		
G	Gas	REF	Reference (Refer)		
GA	Gauge (Gage)	S	South, Slope		
GALV	Galvanize (Galvanized)	SCSP	Sacked Concrete Slope Protection		
GAP	Guy Anchor And Pole	SCHED	Schedule		
GB	Grade Break	SCVWD	Santa Clara Valley Water District		
GFI	Ground Fault Interrupter	SD	Storm Drain, Standard Detail		
GP	Guy Pole	SE	Southeast		
GPM	Gallons Per Minute	SEC (")	Seconds		
GPS	Gallons Per Second	SECT	Section		
GR	Grade				
GRND	Ground				
GRP	Group				
H	Height				
H & T	Hub and Tack				

### LEGEND

#### EXISTING

#### TO BE CONSTRUCTED INSTALLED RELOCATED

#### SPECIAL ABBREVIATIONS

RR	Armoring Aggregate	ABM	Aggregate Base Material
LFB	Low Flow Bank	TOL	Top of lining
UNO	Unless Noted Otherwise	BDPL	Bay Division Pipeline
MBGR	Metal Beam Guard Railing		

#### SPECIAL SYMBOLS

	CONCRETE WALL
	CHANNEL EXCAVATION
	STRUCTURAL BACKFILL/CHANNEL EMBANKMENT
	SEDIMENT GAGE

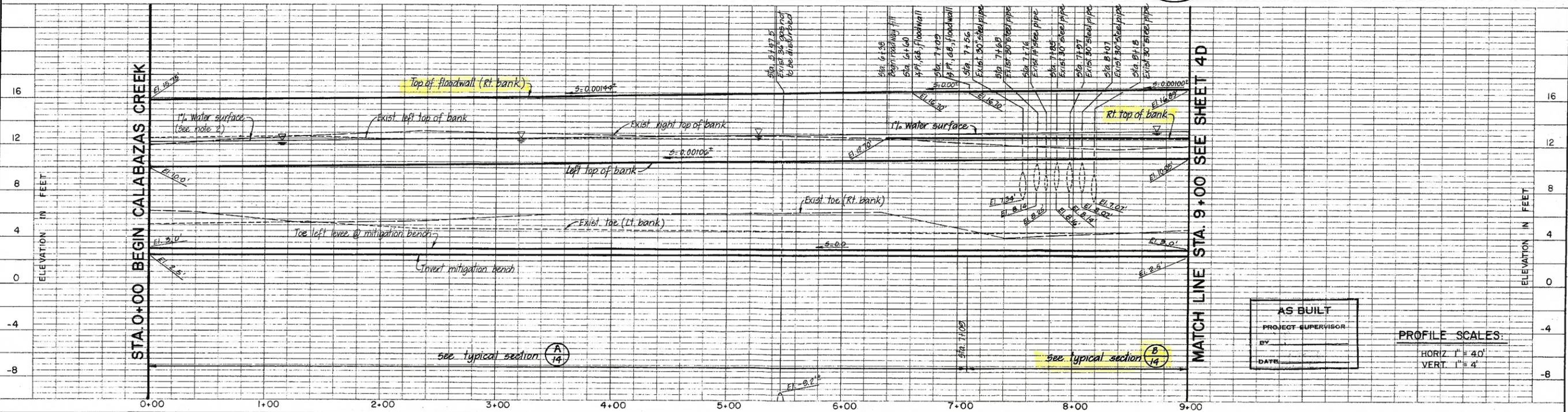
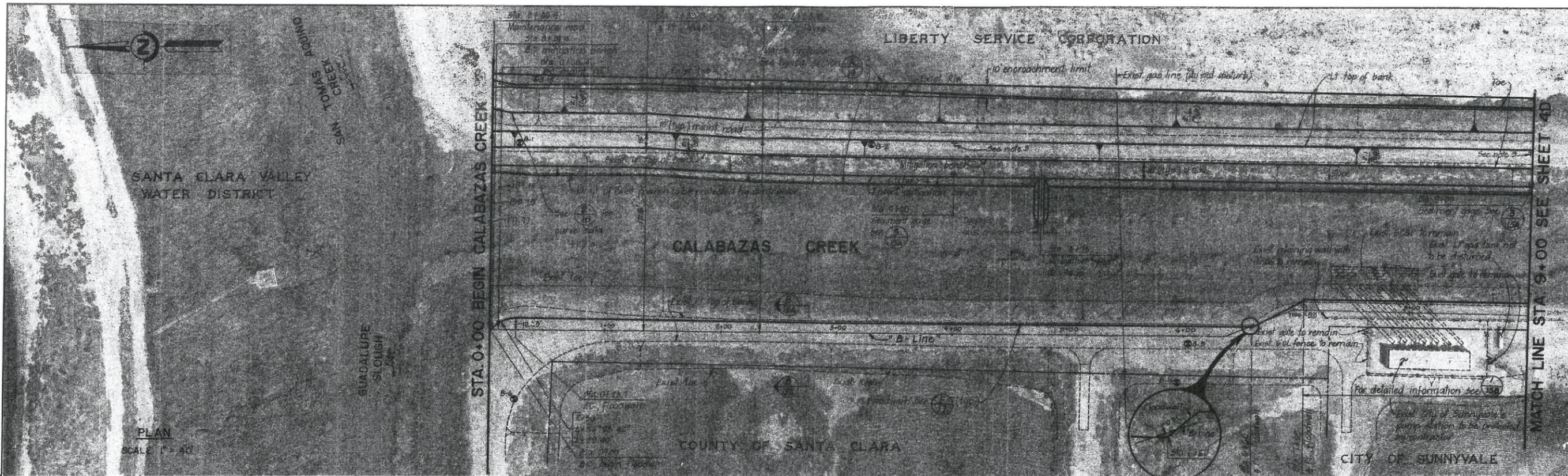
#### TO REMAIN

#### TO BE REMOVED

	DATE	DESIGN	DRAWN	CHECKED	PROJECT ENGINEER	ENGINEERING APPROVAL	DIVISION ENGINEER	SCALE
	SEP 1990	K.F.	D.B.	L.B.M.	<i>[Signature]</i>	<i>[Signature]</i>		NONE
<b>Santa Clara Valley Water District</b> <b>CALABAZAS CREEK</b> PHASE II 2010-20-1-3 GENERAL NOTES, ABBREVIATIONS & LEGEND								SHEET <b>3</b> OF 65

18888

2010



REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES  
 1. "B-Line" denotes control line for Calabazas Creek  
 2. 1% Water surface based on the assumption of full sedimentation of low flow channel (Guadalupe slough to Hwy 237).  
 3. Sign, "Caution Vegetation Preserve", to be furnished by SCVWD.



**Santa Clara Valley Water District**

DATE: Apr. 74  
 DESIGN: S. S.  
 DRAWN: P. V.  
 CHECKED: E. T.

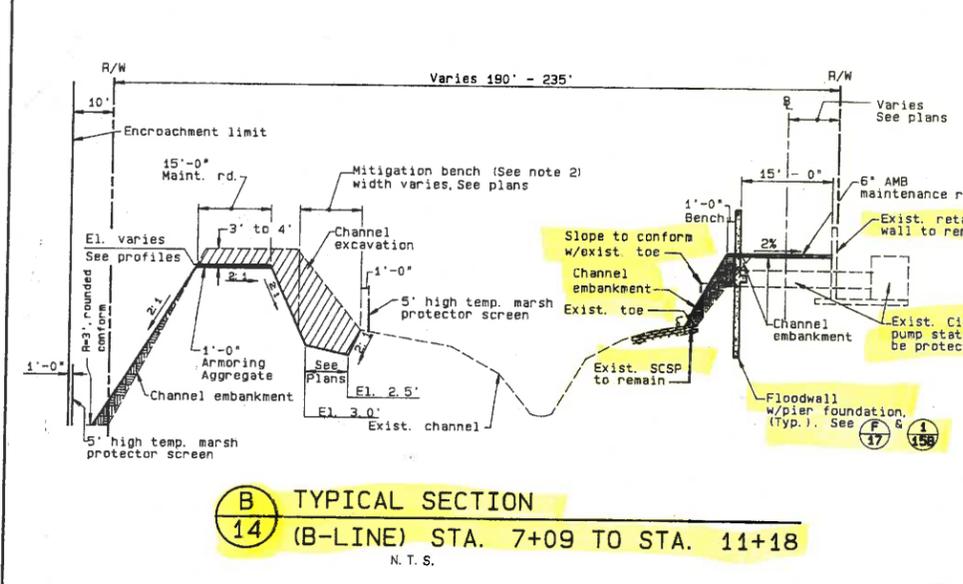
ENGINEERING CERTIFICATION: Eric Jones, PROJECT ENGINEER, R. C. E. NO. 39975  
 ENGINEERING APPROVAL: Nat. Anthony Kneib, DIVISION ENGINEER, R. C. E. NO. 30505

**CALABAZAS CREEK**  
 PHASE II  
 PLAN AND PROFILE  
 2010-20-1-7

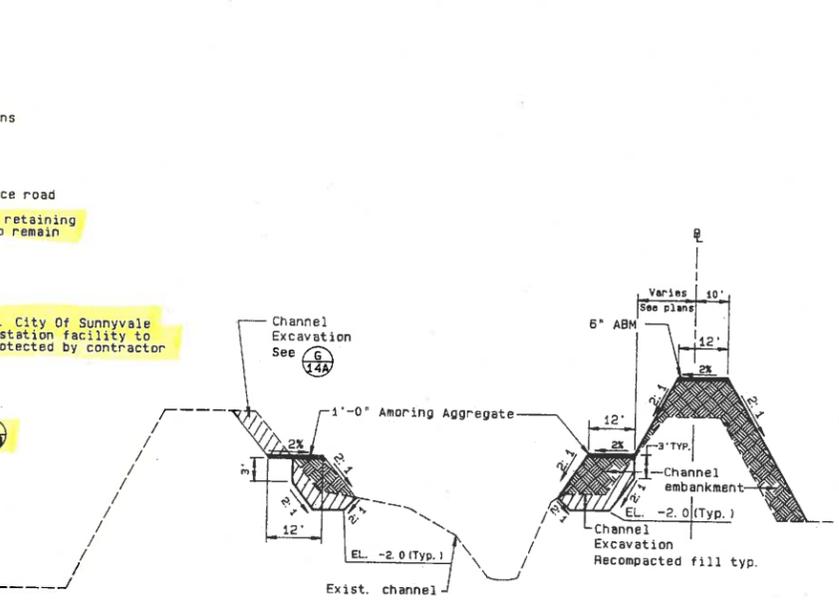
SCALE AS SHOWN SHEET 4C OF 65

18892

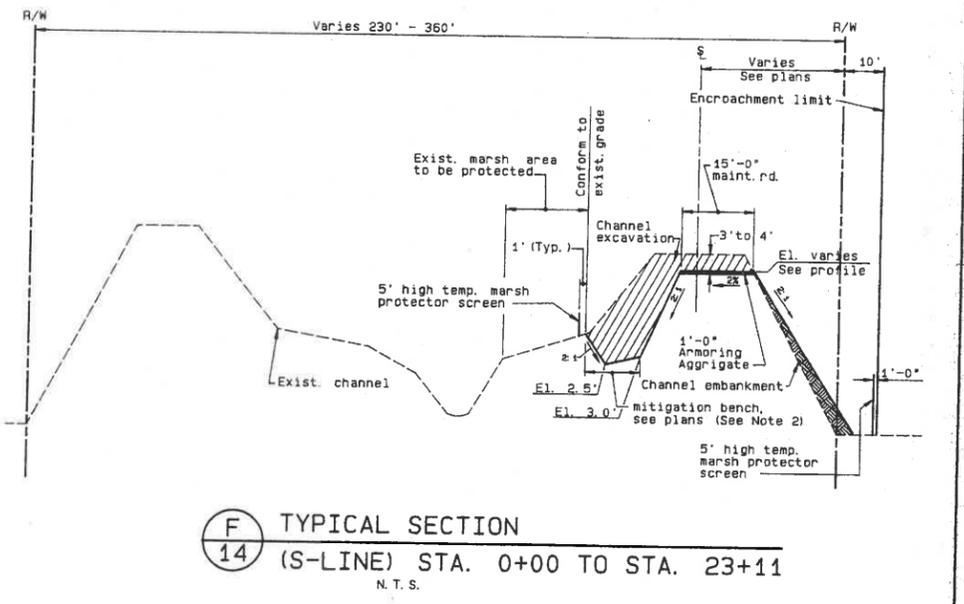
18908



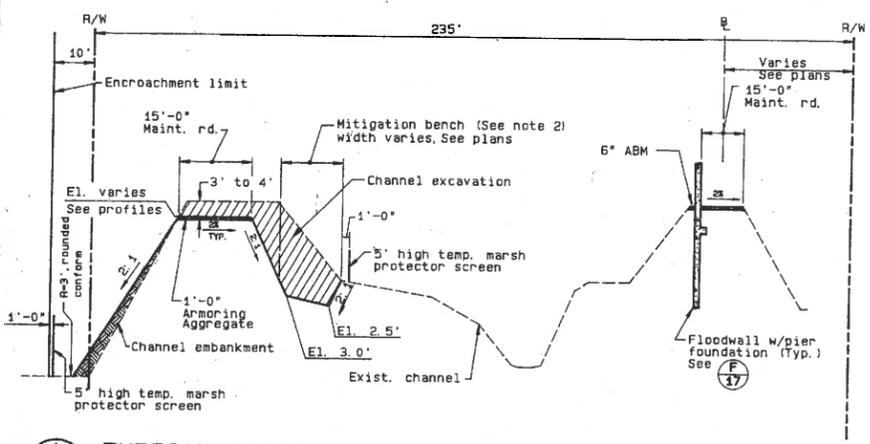
**B** TYPICAL SECTION  
**14** (B-LINE) STA. 7+09 TO STA. 11+18  
 N.T.S.



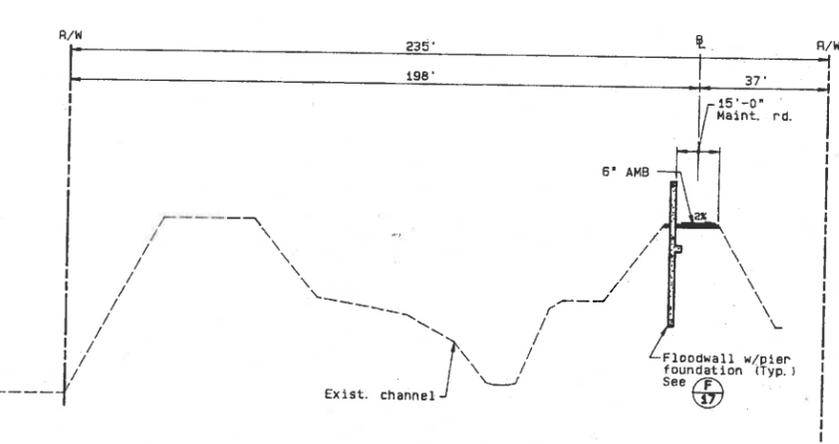
**D** TYPICAL SECTION  
**14** (B-LINE) STA. 16+86 TO STA. 17+93  
 N.T.S.



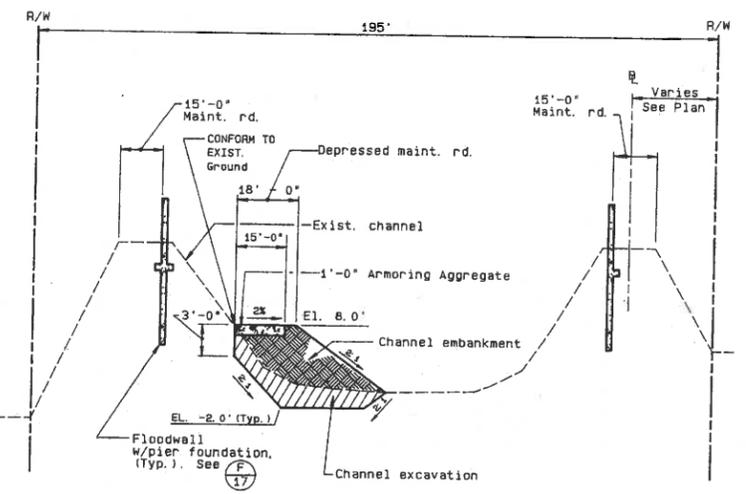
**F** TYPICAL SECTION  
**14** (S-LINE) STA. 0+00 TO STA. 23+11  
 N.T.S.



**A** TYPICAL SECTION  
**14** (B-LINE) STA. 0+00 TO 7+09 & 11+18 TO 14+18  
 N.T.S.



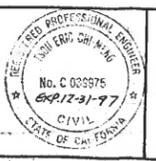
**C** TYPICAL SECTION  
**14** (B-LINE) STA. 14+18 TO STA. 16+57  
 N.T.S.



**E** TYPICAL SECTION  
**14** (B-LINE) STA. 19+40 TO STA. 23+07  
 N.T.S.

AS BUILT  
 PROJECT SUPERVISOR  
 BY: [Signature]  
 DATE: [Date]

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
				1. Stationing for sections A, B, C, D, E referenced to "B-Line". Section F referenced to "S-Line". 2. Mitigation Bench area to be scarified to a depth of 6 inches.



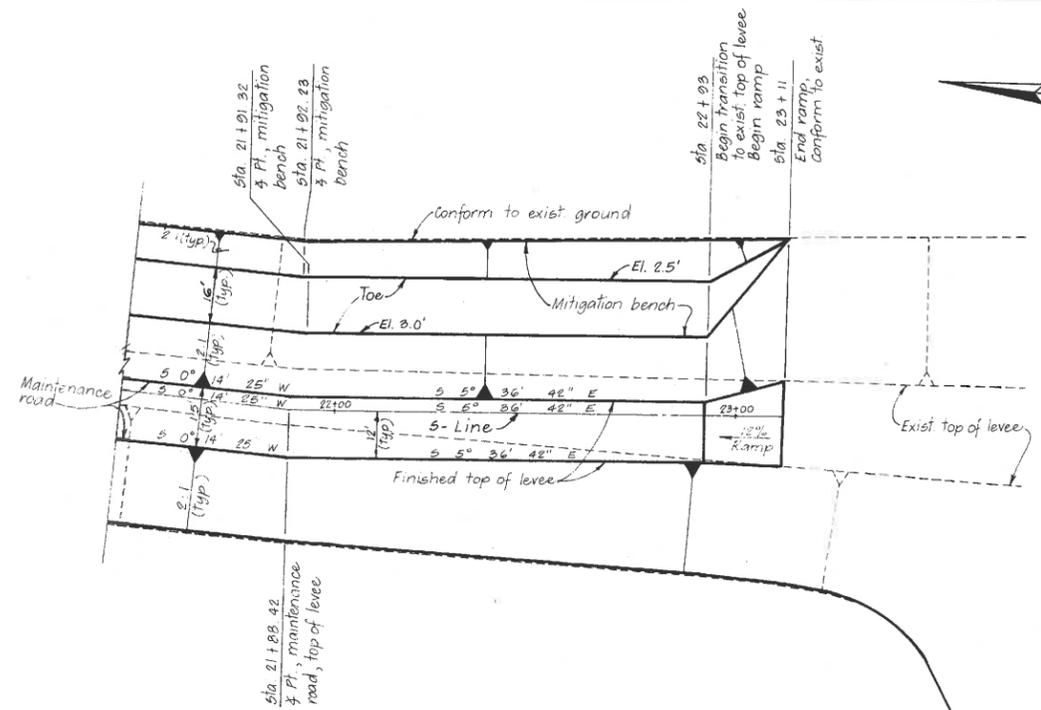
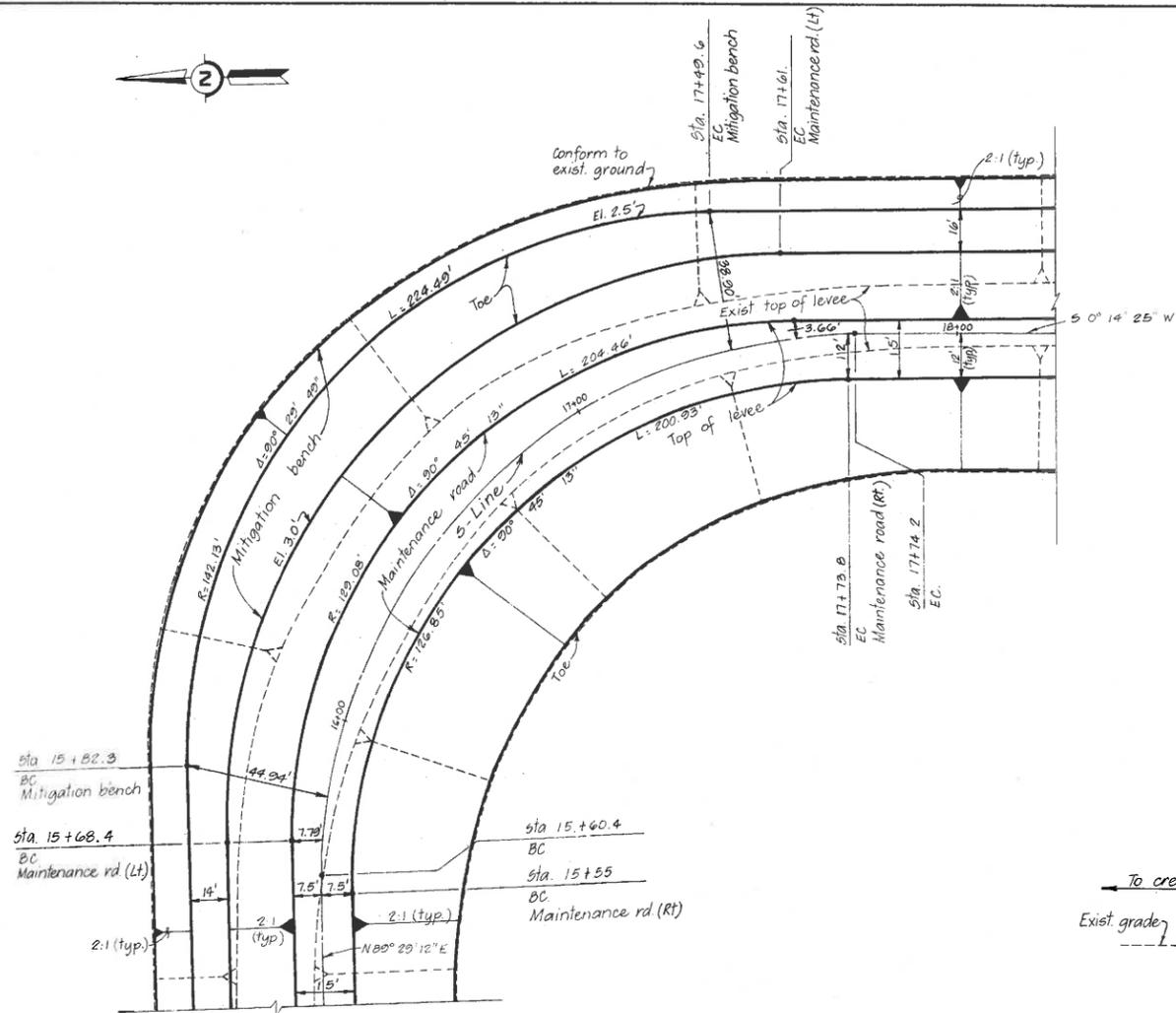
DATE APR. 1994	Santa Clara Valley Water District	
DESIGN S.S.	ENGINEERING CERTIFICATION	ENGINEERING APPROVAL
DRAWN DR	[Signature]	[Signature]
CHECKED E.T.	PROJECT ENGINEER R.C.E. NO. 38975	DIVISION ENGINEER R.C.E. NO. 38905

**CALABAZAS CREEK**  
 PHASES II 2010-20-1-20  
 TYPICAL SECTIONS

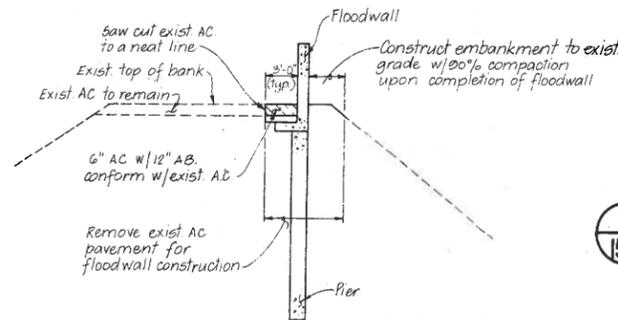
SCALE  
 NOT TO SCALE  
 SHEET  
**14**  
 OF 65

2010

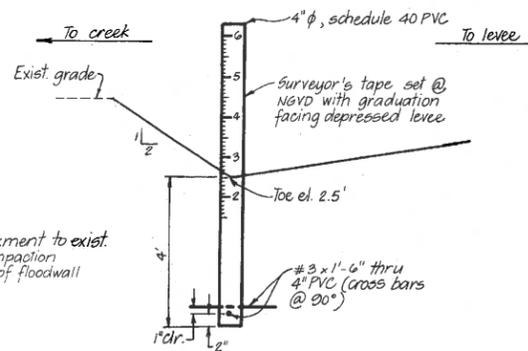
18908



**1** DETAIL  
15A N. T. S.

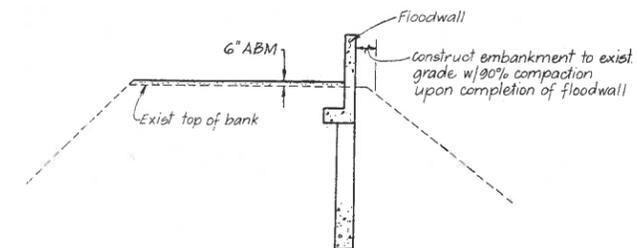


**A** SECTION  
15A N. T. S.



**3** SEDIMENT GAGE  
15A N. T. S.

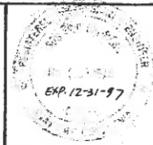
**2** DETAIL  
15A N. T. S.



**B** SECTION  
15A N. T. S.

**AS BUILT**  
PROJECT SUPERVISOR  
BY \_\_\_\_\_  
DATE \_\_\_\_\_

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES



DATE  
Apr 94  
DESIGN  
S. S.  
DRAWN  
P. V.  
CHECKED  
E. T.

**Santa Clara Valley Water District**

ENGINEERING CERTIFICATION  
Eric Jan  
PROJECT ENGINEER R.C.E. No. 39975

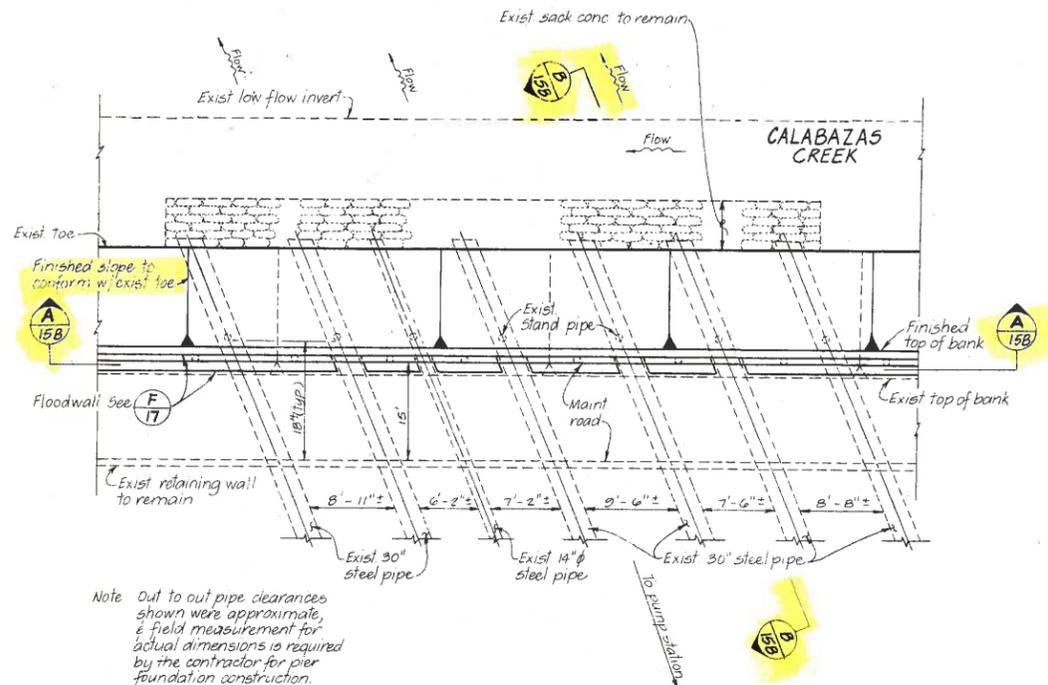
ENGINEERING APPROVAL  
[Signature]  
DIVISION ENGINEER R.C.E. No. 30505

**CALABAZAS CREEK**

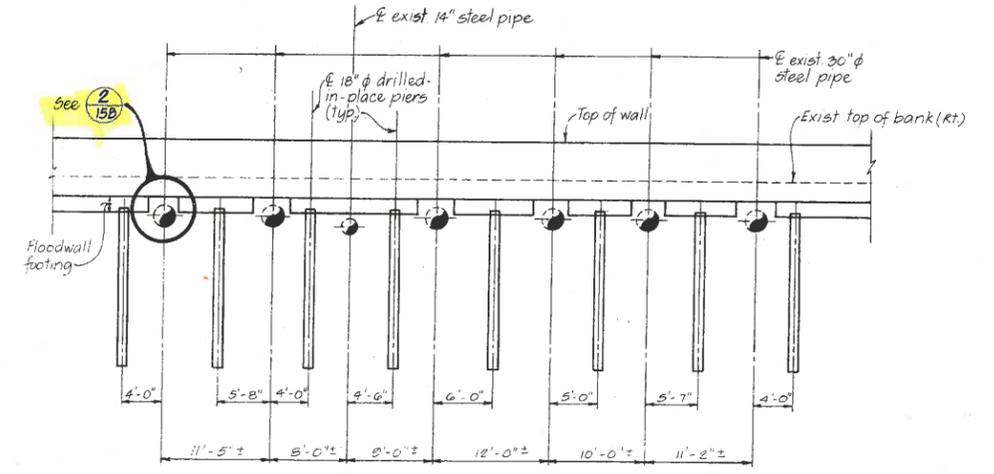
PHASE II 2010-20-1-23  
DETAILS

SCALE  
NOT TO SCALE  
SHEET  
**15A**  
OF 65

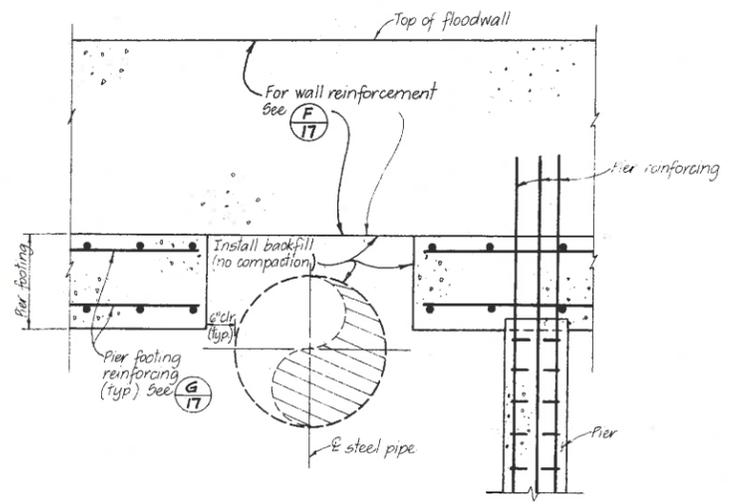
18910



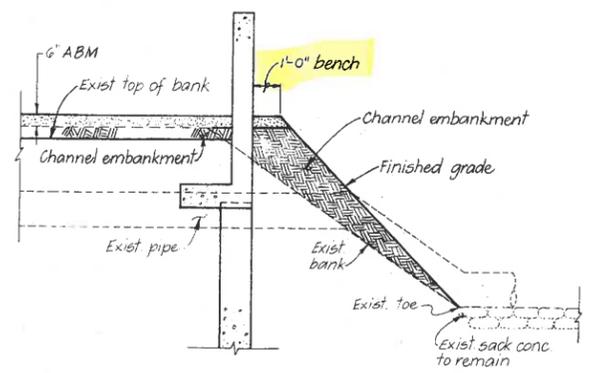
**1 FLOODWALL & CHANNEL PROTECTION AT PUMP STATION**  
N. T. S.



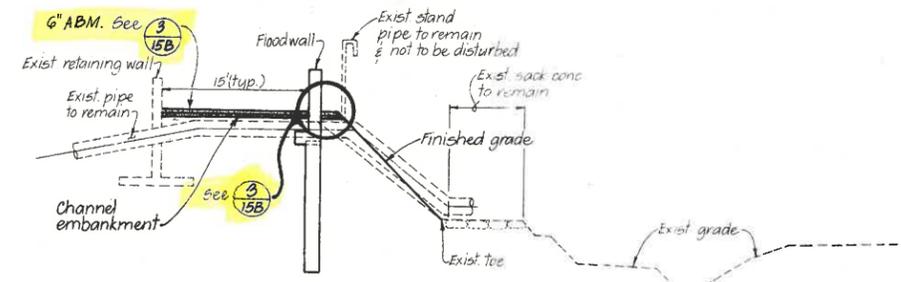
**A SECTION**  
N. T. S.



**2 DETAIL**  
N. T. S.



**3 DETAIL**  
N. T. S.



**B SECTION**  
N. T. S.

AS BUILT  
PROJECT SUPERVISOR  
DATE

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
				1. During construction of the floodwall & its foundation at the crossings of the existing steel pipes, the contractor shall exercise with special precaution & provide necessary measures to ensure the structural integrity of the existing steel pipes.

EXP. 12-31-97

DATE: Apr. 94  
DESIGN: S. S.  
DRAWN: P. V.  
CHECKED: E. T.

**Santa Clara Valley Water District**

ENGINEERING CERTIFICATION: PROJECT ENGINEER  
ENGINEERING APPROVAL: DIVISION ENGINEER

**CALABAZAS CREEK**  
PHASE II  
DETAILS

2010-20-1-24

SCALE: NOT TO SCALE  
SHEET: 15B  
OF: 65

18911

BANK	FROM STA.	TO STA.	D	L	MAX. PIER SPACING	BARS "F"	PIER TIES
LT	76+21±	76+33±	18'	10'	12'-0" O.C.	8 #7	#3 @ 12"
LT	76+33±	76+44±	18'	11'	8'-0" O.C.	8 #5	#3 @ 8"
RT	76+44±	76+52±	18'	8'	8'-0" O.C.	8 #5	#3 @ 8"
RT	76+52±	76+64±	18'	12'	8'-0" O.C.	8 #5	#3 @ 8"

NOTE: FLOODWALL IS NOT CONTINUOUS, SEE PLAN & PROFILE SHEETS FOR EXACT STATIONING

TYPE I FLOODWALL SCHEDULE

BANK	FROM STA.	TO STA.	D	L	MAX. PIER SPACING	BARS "F"	PIER TIES
LT	106+38	109+00	24'	6'	8'-0" O.C.	8 #7	#3 @ 12"
LT	109+00	113+00	18'	8'	8'-0" O.C.	8 #5	#3 @ 8"
RT	106+22	106+49	24'	6'	8'-0" O.C.	8 #7	#3 @ 12"
RT	107+30	108+00	24'	6'	8'-0" O.C.	8 #7	#3 @ 12"
RT	108+00	113+00	18'	8'	8'-0" O.C.	8 #5	#3 @ 8"
RT	113+00	117+50	18'	6'	12'-0" O.C.	8 #5	#3 @ 8"
RT	117+50	118+25	18'	8'	8'-0" O.C.	8 #5	#3 @ 8"
LT/RT	118+00±	118+25±	18'	18'	8'-0" O.C.	8 #5	#3 @ 12"

NOTE: \* SEE PLAN PROFILE SHEET FOR EXACT STATIONING  
\*\* B-LINE STATIONING

TYPE II FLOODWALL SCHEDULE

FLOODWALL LEFT BANK

FROM STA.	TO STA.	WALL STEM HT.
23+97.92	26+89.98	8.25
27+26.73	47+79.68	8.25
48+45.48	49+55.91	8.50
50+34.92	53+08.24	8.75
53+88.24	56+44.44	8.75
56+44.44	56+70.00	8.38*
56+70.00	70+74.00	8.00
71+04.00	90+00.00	8.25
90+00.00	90+40.00	8.00*
90+40.00	95+00.00	7.75
95+00.00	95+40.00	7.38*
95+40.00	102+40.46	7.00
106+37.56	112+00.00	9.25
112+00.00	112+40.00	8.63*
112+40.00	114+00.00	8.00
114+00.00	114+40.00	7.75*
114+40.00	116+00.00	7.50
116+00.00	116+40.00	7.00*
116+40.00	117+75.00	6.50
117+75.00	118+00.00	6.00
118+00.00	118+25.00	4.25*

\*STEM HT. VARIES LINEARLY THROUGH TRANSITION

FLOODWALL RIGHT BANK

FROM STA.	TO STA.	WALL STEM HT.
24+00.04	26+11.66	8.50
26+46.66	35+61.00	8.50
35+61.00	36+00.00	10.00*
36+00.00	42+20.00	11.50
42+20.00	43+00.00	10.13*
43+00.00	47+05.00	8.75
47+94.98	49+55.91	8.50
50+35.43	51+09.00	8.25*
51+09.00	82+00.00	9.50
82+00.00	82+40.00	9.25*
82+40.00	85+00.00	9.00
85+00.00	85+40.00	8.75*
85+40.00	91+00.00	8.50
91+00.00	91+40.00	8.00*
91+40.00	101+60.00	7.50
106+22.38	106+49.02	8.75
107+30.00	111+00.00	9.25
111+00.00	111+40.00	8.63*
111+40.00	113+00.00	8.00
113+00.00	113+40.00	7.75*
113+40.00	115+00.00	7.50
115+00.00	115+40.00	7.00*
115+40.00	117+75.00	6.50
117+75.00	118+00.00	6.00
118+00.00	118+25.00	4.25*

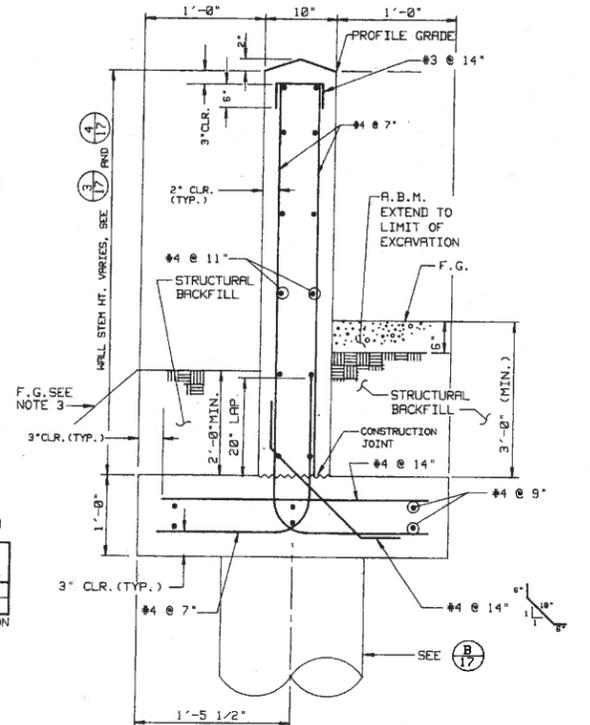
\*STEM HT. VARIES LINEARLY THROUGH TRANSITION

RETAINING WALL LEFT BANK

STA.	WALL STEM HT.
25+74.88	4.75
26+89.98	8.50
27+26.73	8.50
28+41.73	4.75
47+41.68	4.25
47+79.68	9.00
48+54.58	9.00
48+95.16	5.00
52+53.24	5.00
53+08.24	9.25
53+88.24	9.25
55+08.24	5.00
69+74.00	4.50
70+74.00	8.50
71+04.00	8.50
72+04.00	4.75

RETAINING WALL RIGHT BANK

STA.	WALL STEM HT.
25+16.26	4.75
26+11.66	9.00
27+41.66	4.75
46+62.96	5.25
47+05.00	9.25
47+94.98	9.25
48+97.00	4.75
106+33.31	4.00
106+23.00	10.25
107+30.00	10.25



FLOODWALL LEFT BANK (B-LINE)

FROM STA.	TO STA.	WALL STEM HT.
18+95	22+53	7.0
22+53	23+07	7.6*

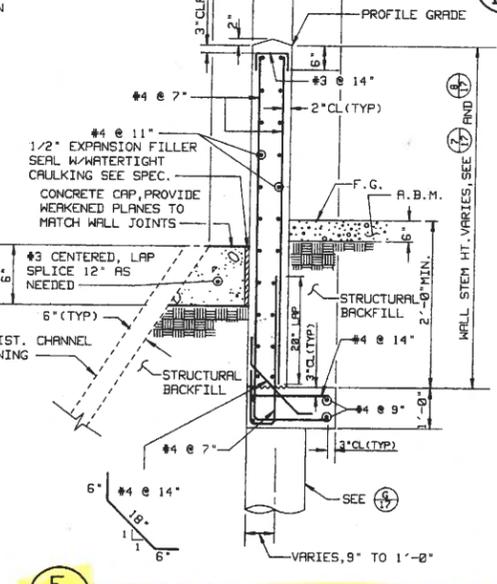
\*AVERAGE STEM HT. THROUGH TRANSITION

FLOODWALL RIGHT BANK (B-LINE)

FROM STA.	TO STA.	WALL STEM HT.
0+00	15+57	7.2
15+57	16+66	7.8
19+40	22+53	6.9
22+53	23+07	7.15*

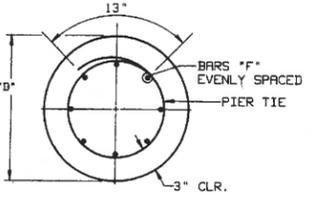
\*AVERAGE STEM HT. THROUGH TRANSITION

FLOODWALL RIGHT BANK (B-LINE)



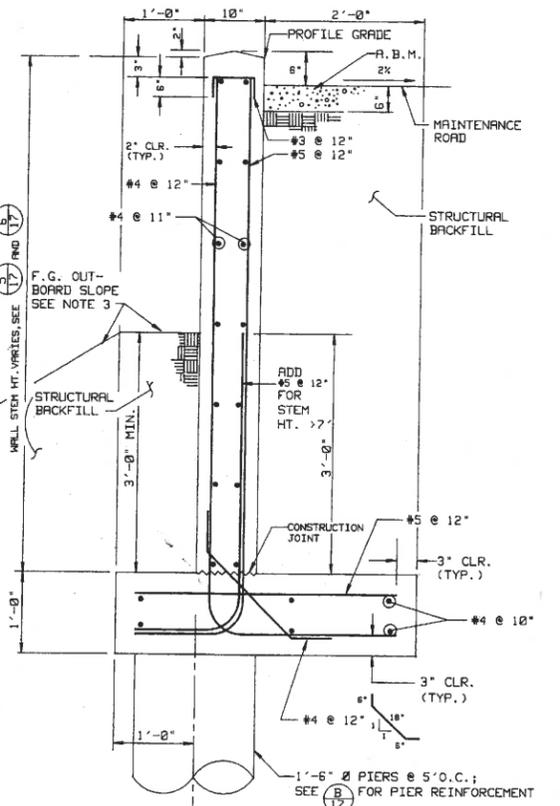
TYPE I FLOODWALL (SEE NOTE 2)  
STA. 23+97± TO STA. 102+45±  
N.T.S.

TYPE I PIER N.T.S.

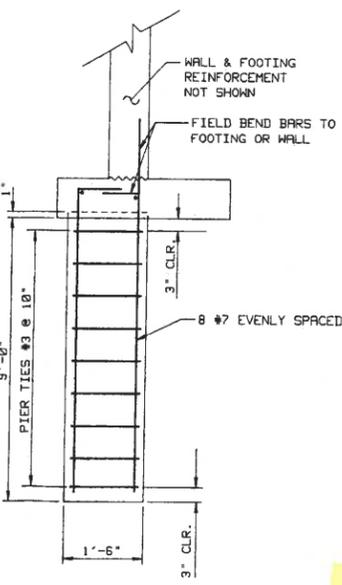


PIER REINFORCEMENT N.T.S.

RETAINING WALL (SEE NOTES 1 & 2)  
SCALE 1"=1'

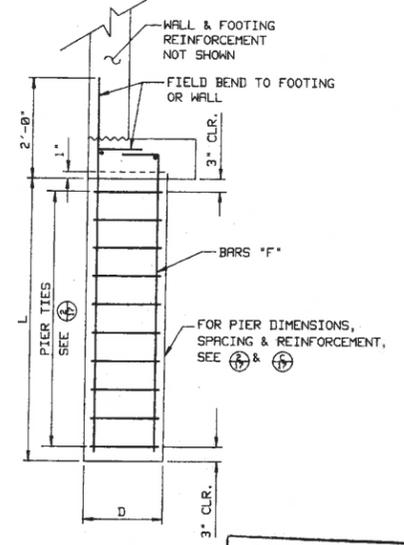


RETAINING WALL PIER N.T.S.



TYPE II FLOODWALL (SEE NOTE 2)  
(STA. 106+22± TO STA. 118+25)  
(B-LINE STA. 0+00± TO STA. 23+07±) (SEE NOTE 5)  
N.T.S.

TYPE II PIER N.T.S.



AS BUILT  
PROJECT SUPERVISOR  
BY  
DATE

REV	DESCRIPTION	DATE	APPR
1	FLOODWALL STATION, PIER DIMENSION & PIER STATION MODIFICATIONS	10/14/10	ND

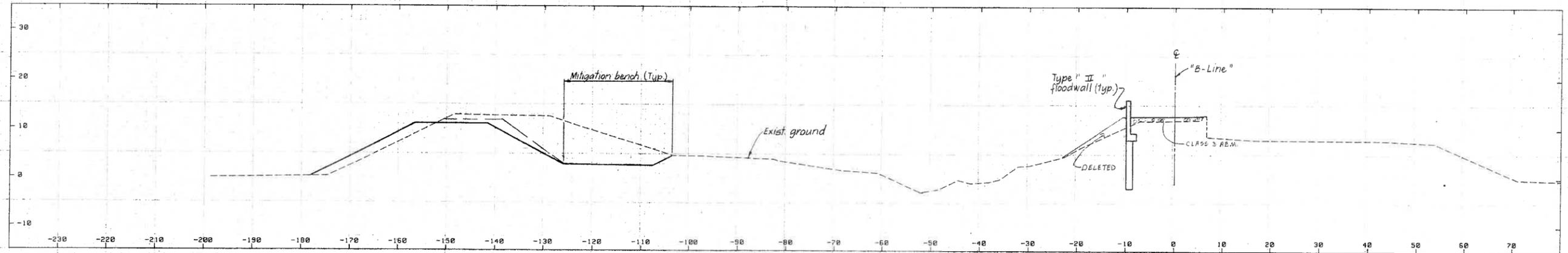
REFERENCE INFORMATION AND NOTES  
NOTE 1: SEE (A) FOR RETAINING WALL FROM STA 106+40 TO STA 107+30  
NOTE 2: SEE (A) FOR WALL JOINTS.  
NOTE 3: CONFORM FINISH GRADE WITH EXISTING LEVEE SIDE SLOPE.  
NOTE 4: FOOTINGS ARE CONTINUOUS THROUGHOUT FLOODWALL OR RETAINING WALL LENGTH.  
NOTE 5: SEE (A), (B) & (C) FOR ADJACENT GROUND DETAILS.

DATE: 10/14/10  
DESIGN: A.B.  
DRAWN: D.P.  
CHECKED: L.A.W.  
Santa Clara Valley Water District  
ENGINEERING APPROVAL: [Signature]

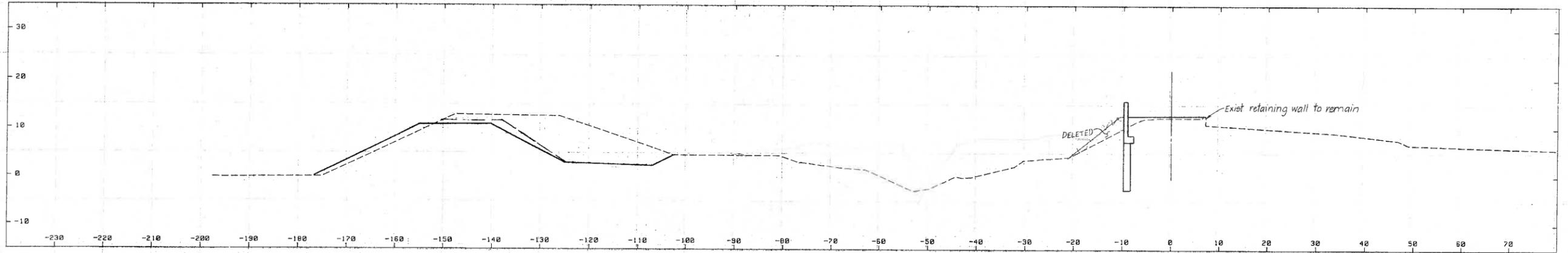
CALABAZAS CREEK  
PHASE II 2010-2011-30  
FLOODWALL & RETAINING WALL DETAILS

SCALE
AS SHOWN
SHEET 17
OF 65

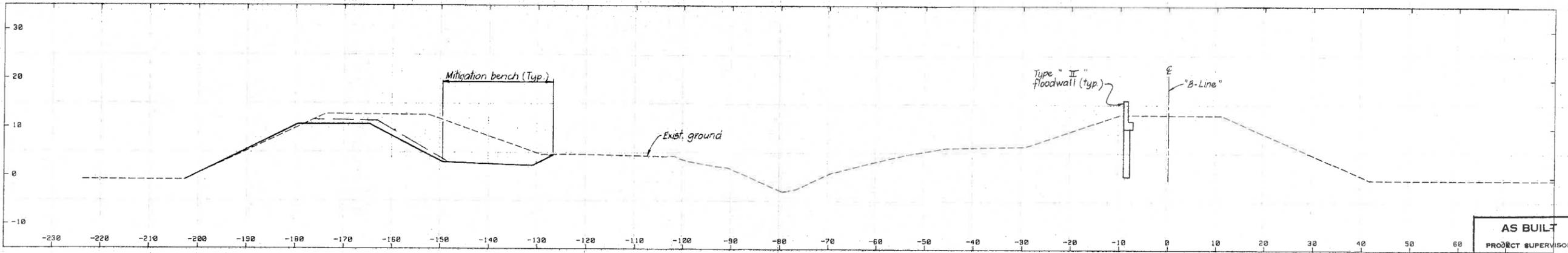
18916



8+38



7+38



6+38

AS BUILT  
PROJECT SUPERVISOR  
BY: *[Signature]*  
DATE: 9/20/12

2010

18937

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	DESIGN	ENGINEERING CERTIFICATION	ENGINEERING APPROVAL	SCALE
				1. Cross sections shown this sheet taken along "B-Line", CALABAZAS CREEK. See plans for details.	APR 94	S. S.	<i>[Signature]</i>	<i>[Signature]</i>	1" = 10'
							<i>[Signature]</i>	<i>[Signature]</i>	SHEET
									34
									OF 65



Santa Clara Valley Water District  
 DRAWN: S. S. / P. V.  
 CHECKED: E. T.  
 PROJECT ENGINEER: R. C. E. NO. 29975  
 DIVISION ENGINEER: R. C. E. NO. 30305

CALABAZAS CREEK  
 PHASE II 2010-20-1-51  
 CROSS SECTIONS