



613B

SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

FROM: General Manager-Chief Engineer

SUBMITTAL DATE: August 16, 2011

SUBJECT: Project Award - Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91 Project No. 6-0-00040-91

RECOMMENDED MOTION:

The Board approve the low bid submitted by the firm of Post Earthworks Constructors, Inc. for \$146,812.06, for the construction of the above referenced project.

Authorize the Chairman to execute the contract on behalf of the District.

BACKGROUND:

The bid documents have been reviewed and approved for award by County Counsel.

FINANCIAL:

Funds are included in the District's FY 2011-2012 Zone 6 budget for this project.

FOR Steve Thomas  
WARREN D. WILLIAMS  
General Manager-Chief Engineer

<b>FINANCIAL DATA</b>	Current F.Y. District Cost:	\$146,812.06	In Current Year Budget:	Yes
	Current F.Y. County Cost:	N/A	Budget Adjustment:	No
	Annual Net District Cost:	N/A	For Fiscal Year:	2011-2012

<b>SOURCE OF FUNDS:</b> 25160 947500 527980 Zone 6 Const/Maint/Misc-Contracts	Positions To Be Deleted Per A-30	<input type="checkbox"/>
	Requires 4/5 Vote	<input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

County Executive Office Signature

BY: Alex Gann  
Alex Gann

MINUTES OF THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT

On motion of Supervisor Buster, seconded by Supervisor Ashley and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Stone, Benoit and Ashley  
Nays: None  
Absent: None  
Date: August 16, 2011  
xc: Flood

Kecia Harper-Ihem  
Clerk of the Board  
By: Kecia Harper-Ihem  
Deputy

Prev. Agn. Ref.: 11.3 of 06/14/2011 District: 4<sup>th</sup> Agenda Number:

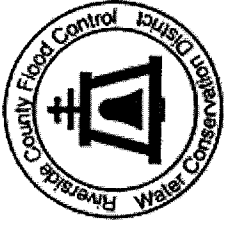
ATTACHMENTS FILED WITH THE CLERK OF THE BOARD

11.5

FISCAL PROCEDURES APPROVED BY: M. CHANG, FINANCE DIRECTOR  
BY: Warren Williams 8/13/2011  
FORM APPROVED COUNTY COUNSEL BY: Marshall Victor 8/13/11 DATE  
POLICY  CONSENT   
POLICY  CONSENT   
DEPT RECOMM: PER EXEC. OFF:

# Riverside County Flood Control & Water Conservation District

1995 Market St. Riverside, CA 92501 Phone: 951.955.1200 Fax: 951.788.9965



## Bid Summary

**Project Name:** PALM CANYON WASH, STAGE 4 LEVEE RESTORATION, STAGE 91

**Project Number:** 6-0-00040-91

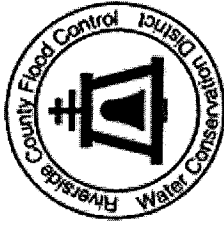
**Bid Open Date:** 07/14/2011

<i>Total</i>	<i>Contractor Name</i>	<i>Address</i>	<i>Phone</i>
\$146,812.06	POST EARTHWORKS CONSTRUCTORS, INC.	2967 E. Coronado Street Anaheim, CA 92806	714.632.5290
\$179,198.00	HUNTER GENERAL ENGINEERING, INC.	1454 Pine Ridge Road Oceanside, CA 92056	760.402.4373
\$213,590.00	STL LANDSCAPE, INC.	8122 Compton Avenue Los Angeles, CA 90001	323.581.8200
\$223,280.00	VANCE CORPORATION	2271 N. Locust Avenue Rialto, CA 92377	909.355.4333
\$279,385.20	CAL FRAN ENGINEERING, INC.	990 Enchanted Way, #106 Simi Valley, CA 93065	805.579.9173
\$323,245.00	KASA CONSTRUCTION, INC.	316 N. Corona Avenue Ontario, CA 91764	909.457.8260
\$131,667.50	RCFC Engineer's Estimate		

**Bid Abstract**

**Riverside County Flood Control & Water Conservation District**

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**Project Number:** 6-0-00040-91

**Bid Open Date:** 07/14/2011

Item No. & Description	Unit	Quantity	ENGINEER'S ESTIMATE		POST EARTHWORKS CONSTRUCTORS, INC.		HUNTER GENERAL ENGINEERING, INC.	
			Unit Bid	Total Bid	Unit Bid	Total Bid	Unit Bid	Total Bid
1 MOBILIZATION	L.S.	1	\$10,000.00	\$10,000.00	\$9,823.00	\$9,823.00	\$5,000.00	\$5,000.00
2 WATER CONTROL	L.S.	1	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00
3 TRAFFIC CONTROL	L.S.	1	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00	\$1,800.00	\$1,800.00
4 CLEARING AND MISCELLANEOUS WORK	L.S.	1	\$5,000.00	\$5,000.00	\$15,237.00	\$15,237.00	\$1,500.00	\$1,500.00
5 PROTECT/REPLACE IRRIGATION	L.S.	1	\$2,000.00	\$2,000.00	\$7,892.40	\$7,892.40	\$1,000.00	\$1,000.00
6 EMBANKMENT FILL	C.Y.	4,035	\$7.30	\$29,455.50	\$6.08	\$24,532.80	\$18.78	\$75,777.30
7 CLASS "B" CONCRETE, MISCELLANEOUS	C.Y.	86	\$500.00	\$43,000.00	\$363.11	\$31,227.46	\$550.00	\$47,300.00
8 TEMPORARY FENCING	L.F.	2,450	\$2.40	\$5,880.00	\$3.06	\$7,497.00	\$2.19	\$5,365.50
9 DUST ABATEMENT	L.S.	1	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
10 STORMWATER AND NON-STORMWATER POLLUTION CONTROL	L.S.	1	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00
11 SOD INSTALLATION	S.F.	69,520	\$0.35	\$24,332.00	\$0.62	\$43,102.40	\$0.51	\$35,455.20
				<b>\$131,667.50</b>		<b>\$146,812.06</b>		<b>\$179,198.00</b>

**Project Name: PALM CANYON WASH, STAGE 4 LEVEE RESTORATION, STAGE 91**

**Project Number: 6-0-00040-91**

**Bid Open Date: 07/14/2011**

**CAL FRAN ENGINEERING,  
INC.**

**VANCE CORPORATION**

**STL LANDSCAPE, INC.**

<b>Item No. &amp; Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Bid</b>	<b>Total Bid</b>	<b>Unit Bid</b>	<b>Total Bid</b>	<b>Unit Bid</b>	<b>Total Bid</b>
1 MOBILIZATION	L.S.	1	\$10,000.00	\$10,000.00	\$31,500.00	\$31,500.00	\$16,100.00	\$16,100.00
2 WATER CONTROL	L.S.	1	\$500.00	\$500.00	\$3,100.00	\$3,100.00	\$2,050.00	\$2,050.00
3 TRAFFIC CONTROL	L.S.	1	\$500.00	\$500.00	\$4,000.00	\$4,000.00	\$2,000.00	\$2,000.00
4 CLEARING AND MISCELLANEOUS WORK	L.S.	1	\$30,000.00	\$30,000.00	\$43,000.00	\$43,000.00	\$46,000.00	\$46,000.00
5 PROTECT/REPLACE IRRIGATION	L.S.	1	\$10,000.00	\$10,000.00	\$2,600.00	\$2,600.00	\$4,000.00	\$4,000.00
6 EMBANKMENT FILL	C.Y.	4,035	\$20.00	\$80,700.00	\$12.00	\$48,420.00	\$17.00	\$68,595.00
7 CLASS "B" CONCRETE, MISCELLANEOUS	C.Y.	86	\$300.00	\$25,800.00	\$490.00	\$42,140.00	\$471.00	\$40,506.00
8 TEMPORARY FENCING	L.F.	2,450	\$1.00	\$2,450.00	\$2.80	\$6,860.00	\$2.70	\$6,615.00
9 DUST ABATEMENT	L.S.	1	\$500.00	\$500.00	\$4,600.00	\$4,600.00	\$2,400.00	\$2,400.00
10 STORMWATER AND NON-STORMWATER POLLUTION CONTROL	L.S.	1	\$1,000.00	\$1,000.00	\$2,300.00	\$2,300.00	\$7,000.00	\$7,000.00
11 SOD INSTALLATION	S.F.	69,520	\$0.75	\$52,140.00	\$0.50	\$34,760.00	\$1.21	\$84,119.20
				<b>\$213,590.00</b>		<b>\$223,280.00</b>		<b>\$279,385.20</b>

**Project Name: PALM CANYON WASH, STAGE 4 LEVEE RESTORATION, STAGE 91**

**Project Number: 6-0-00040-91**

**Bid Open Date: 07/14/2011**

**KASA CONSTRUCTION,  
INC.**

<i>Item No. &amp; Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Bid</i>	<i>Total Bid</i>
1 MOBILIZATION	L.S.	1	\$16,000.00	\$16,000.00
2 WATER CONTROL	L.S.	1	\$1,000.00	\$1,000.00
3 TRAFFIC CONTROL	L.S.	1	\$1,500.00	\$1,500.00
4 CLEARING AND MISCELLANEOUS WORK	L.S.	1	\$80,000.00	\$80,000.00
5 PROTECT/REPLACE IRRIGATION	L.S.	1	\$1,000.00	\$1,000.00
6 EMBANKMENT FILL	C.Y.	4,035	\$30.00	\$121,050.00
7 CLASS "B" CONCRETE, MISCELLANEOUS	C.Y.	86	\$250.00	\$21,500.00
8 TEMPORARY FENCING	L.F.	2,450	\$1.50	\$3,675.00
9 DUST ABATEMENT	L.S.	1	\$5,000.00	\$5,000.00
10 STORMWATER AND NON-STORMWATER POLLUTION CONTROL	L.S.	1	\$3,000.00	\$3,000.00
11 SOD INSTALLATION	S.F.	69,520	\$1.00	\$69,520.00
				<b>\$323,245.00</b>

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2 WATER CONTROL	L.S.	1	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00
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4 CLEARING AND MISCELLANEOUS WORK	L.S.	1	\$5,000.00	\$5,000.00	\$15,237.00	\$15,237.00	\$1,500.00	\$1,500.00
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2 WATER CONTROL	L.S.	1	\$500.00	\$500.00	\$3,100.00	\$3,100.00	\$2,050.00	\$2,050.00
3 TRAFFIC CONTROL	L.S.	1	\$500.00	\$500.00	\$4,000.00	\$4,000.00	\$2,000.00	\$2,000.00
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3 TRAFFIC CONTROL	L.S.	1	\$1,500.00	\$1,500.00
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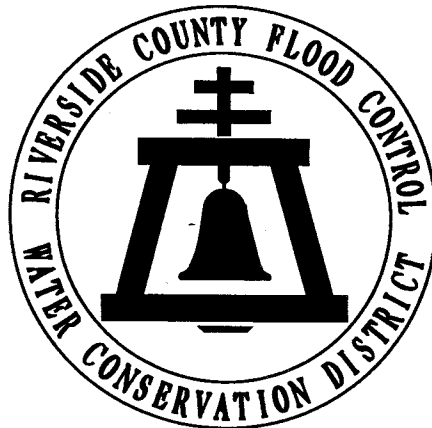
**BOARD OF  
SUPERVISORS**

SPECIFICATIONS and CONTRACT DOCUMENTS  
for the CONSTRUCTION of

**PALM CANYON WASH STAGE 4  
LEVEE RESTORATION  
STAGE 91**

**PROJECT NO. 6-0-0040**

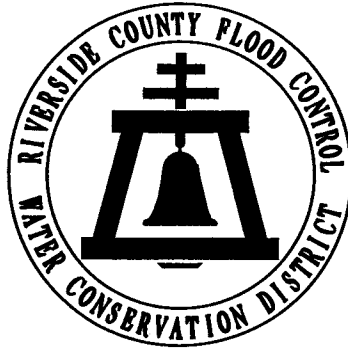
RIVERSIDE COUNTY, CALIFORNIA



FOR APPROVED COUNTY COUNSEL  
BY *[Signature]* DATE 5/31/11  
NEAL R. KIPNIS

JUN 14 2011 11.3 PMS

AUG 16 2011 U.S contract



SPECIFICATIONS and CONTRACT DOCUMENTS  
for the CONSTRUCTION of  
PALM CANYON WASH STAGE 4  
LEVEE RESTORATION  
STAGE 91

PROJECT NO. 6-0-0040

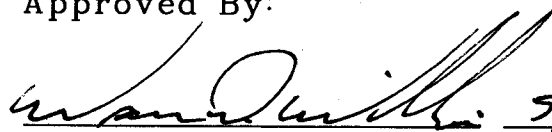
These specifications and contract documents have been prepared under the direction of the following Registered Civil Engineers:

Recommended By:

  
Chief, Design & Construction      Date 26-May-2011



Approved By:

  
Chief Engineer      Date 5/26/11



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NOTICE TO CONTRACTORS

Riverside County Flood Control and Water Conservation District hereinafter called "District", invites sealed proposals for construction of:

**Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91**

**Project No. 6-0-00040-91**

**located in the city of Palm Springs**

**Riverside County, California**

Specifications and Contract Documents may be examined at the District's office at 1995 Market Street, Riverside, California, and may be obtained upon payment to District of **\$60.00** per set, received at the District's office and **\$65.00** per set if mailed. The Specifications and Contract Documents are also offered on CD-ROM for \$10.00 received at the District's office and \$15.00 if mailed. No refund.

Each proposal must be accompanied by a certified or cashier's check or bid bond equal to ten percent (10%) of the amount bid, payable to the Riverside County Flood Control and Water Conservation District as a guarantee that the Contractor will, if awarded the contract, execute a satisfactory contract and furnish the required bonds and proof of insurance.

Proposals must be in accordance with the instructions and filed with District by **8:30 a.m. on Thursday, July 14, 2011** at the District office at the above address which time and place are fixed for the public opening of bids.

General prevailing rate per diem wages and general prevailing rate of per diem wages for holiday and overtime work, including employer payments for health and welfare, pension, vacation, apprentices and similar purposes for each craft, classification or type of workman needed for execution of contracts under the jurisdiction of District have been obtained by the Board of Supervisors of the District from the

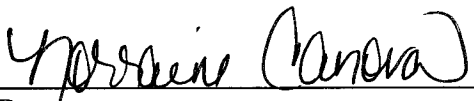
Director of Industrial Relations of the State of California for the area where the work is to be done. The said determinations are on file in the principal office of the District, and will be made available to any interested person upon request.

Contractors submitting proposals for this project shall have an "A" Contractors license from the State of California in order to be considered eligible for the contract award.

Dated: June 14, 2011

RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT

KECIA HARPER-IHEM  
Clerk of the Board

BY   
Deputy

## INSTRUCTIONS TO BIDDERS

QUANTITIES: The amount of work to be done or materials to be furnished under the Contract as noted in the proposal, are but estimates and are not to be taken as an expressed or implied statement that the actual amount of work or materials will correspond to the estimate.

The right is reserved to increase or decrease or to entirely eliminate certain items from the work or materials if found desirable or expedient.

The Contractor will be allowed no claims for anticipated profits, loss of profits or for any damages of any sort because of any difference between the estimated and the actual amounts of work done, or materials furnished or used in the completed project.

The Contractor is cautioned against unbalancing of his bid by prorating his overhead into one or two items only when there are a number of items on the schedule. The overhead and indirect charges should be prorated on all items in schedule.

DISCREPANCIES AND OMISSIONS: Discrepancies, omissions, ambiguities, or requirements likely to cause disputes between trades and similar matters shall be promptly brought to the attention of the Engineer. When appropriate, Addenda will be issued by District. No communication by anyone as to such matters except by an Addendum affects the meaning or requirements of the Contract Documents.

WITHDRAWAL OF PROPOSALS: Any proposal may be withdrawn at any time prior to the hour fixed in the Notice to Contractors for the opening of proposals, provided that a request in writing, executed by the bidder or his duly authorized representative, for the withdrawal of such proposal, is filed with the Chief Engineer. The withdrawal of a proposal shall not prejudice the right of a bidder to file a new proposal.

AGREEMENT OF FIGURES: If the unit prices and the total amounts named by the bidder in the proposal do not agree, the unit prices alone will be considered as representing the bidder's intention.

INVALID PROPOSALS: Proposal submitted by telegraph or fax transmission and those which fail to reach the place fixed for opening of proposals prior to the date and hour set for opening same, will not be considered.

INSPECTION OF SITE: Bidders must examine the site and acquaint themselves with all conditions affecting the work.

Information derived from maps, plans or specifications, or from the Chief Engineer or his assistants, will not relieve the successful bidder from properly carrying out all the terms of the written contract.

By the submitting of a proposal, the bidder will be held to have personally examined the site and the drawings, to have carefully read the specifications and to have satisfied himself as to his ability to meet all the difficulties attending the execution of the proposed contract before the delivery of his proposal and agrees that if he is awarded the contract, he will make no claim against the Board of Supervisors based on ignorance or misunderstanding of the contract provisions.

**QUALIFICATIONS OF BIDDERS:** No proposal will be accepted from a contractor who is not licensed under laws of California, as evidenced by the submittal of the Statement of Licensure. No award will be made to any bidder who cannot give satisfactory assurance to the Board of Supervisors as to his own ability to carry out the contract, both from his financial standing and by reason of his previous experience as a contractor on work of the nature contemplated in the contract. The bidder is required to submit his record of work of similar nature to that proposed under these specifications, and unfamiliarity with the type of work may be sufficient cause for rejection of a proposal.

A bid shall be rejected and a bidder shall be disqualified to bid on a District project if the bidder or any officer, manager, partner or shareholder of the bidder within the eighteen month period prior to the bid date shall have been an officer or employee of the District.

**PROPOSAL FORMS:** Attention of all bidders is called to the proposal affidavit forms attached hereto and bidders are cautioned that all proposals submitted must be accompanied by the proper affidavit, properly executed. Proposals will be made on forms furnished by District.

**REJECTION OF PROPOSALS CONTAINING ALTERATIONS, ERASURES OR IRREGULARITIES:** Proposals may be rejected if they show any alterations of form, additions not called for, conditional proposals, incomplete proposals, erasures or irregularities of any kind. Erasures or interlineations in the proposal must be explained or noted over the signature of the bidder.

**PUBLIC OPENING OF PROPOSALS:** Proposals will be opened and read publicly at the time and place indicated in the Notice to Contractors. Bidders or their authorized agents are invited to be present.

**DISQUALIFICATION OF BIDDERS:** More than one proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable ground for believing that any bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such bidder is interested. If there is any reason for believing that collusion exists among the bidders, none of the participants in such collusion will be considered in awarding the contract. Proposals in which the prices obviously are unbalanced may be rejected.

**ADDENDA:** District reserves the right to issue Addenda to the Contract Documents at any time prior to the time set to open bids. Each potential bidder shall leave with the District its name and address for the purpose of receiving Addenda. District will cause copies of Addenda to be mailed or delivered to such names at such addresses. To be considered, a Contractor's proposal must list and take into account all issued Addenda.

**AWARD OF CONTRACT:** The right is reserved to reject any and all proposals and to waive technical defects as the best interests of the District may require.

The award of the Contract, if it be awarded, will be to the lowest responsible bidder whose proposal complies with the requirements prescribed. The award, if made, will be made within sixty (60) days after the opening of the proposals.

All proposals will be compared on the basis of the Engineer's estimate of the quantities of work to be done.

RETURN OF PROPOSAL GUARANTEES: Within ten (10) days after the award of the contract, the Clerk will return the proposal guarantees accompanying such of the proposals as are not considered in making the award. All other proposal guarantees will be held until the contract has been fully executed, after which they will be returned to the respective bidders whose proposal they accompany.

CONTRACT BONDS: The Contractor shall furnish two (2) surety bonds in duplicate, one as a security for the faithful performance of the contract in the amount equal to one hundred percent (100%) of the contract price, and one as security for the payment of all persons performing labor and furnishing materials in connection with the contract in an amount equal to one hundred percent (100%) of the contract price. All bonds must be submitted on forms provided by the District. Bonds submitted in any other form will not be accepted.

SUBLETTING AND SUBCONTRACTING: Bidders are required, pursuant to the Subletting and Subcontracting Fair Practices Act (commencing with Section 4100 of the Public Contract Code) to list in their proposal the name and location of place of business of each subcontractor who will perform work or labor or render services in or about the construction of the work or improvement or a subcontractor who specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the Plans and Specifications, in excess of one-half ( $\frac{1}{2}$ ) of one percent (1%) of the prime Contractor's total bid. Failure to list a subcontractor for a portion of the work means that the prime contractor will do that portion of the work.

CONTRACTOR'S PROPOSAL

TO THE BOARD OF SUPERVISORS OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT:

The undersigned hereby declare:

(a) That the only persons or parties interested in this proposal as principals are the following:

Name of Company (and dba if applicable): Post Earthworks Constructors, Inc.

Chris Post, President, Secretary & Treasurer

(If the Contractor is a corporation, give the name of the corporation and the name of its president, secretary, treasurer, and manager. If a copartnership, give the name under which the copartnership does business, and the names and addresses of all copartners. If an individual, state the name and address under which the contract is to be drawn.)

(b) That this proposal is made without collusion with any other person, firm or corporation.

(c) That he has carefully examined the location of the proposed work, and has familiarized himself with all of the physical and climatic conditions, and makes his proposal solely upon his own knowledge.

(d) That he has carefully examined the attached specifications as referred to, and the plans, and makes this proposal in accordance therewith.

(e) That, if this proposal is accepted, he will enter into a written contract with the Riverside County Flood Control and Water Conservation District, Riverside, State of California.

(f) That he proposes to enter into such contract and to accept in full payment for the work actually done thereunder the prices shown in the attached schedule. It is understood and agreed that the quantities set forth are but estimates, and that the unit prices will apply to the actual quantities whatever they may be.

Accompanying this proposal is a certified or cashier's check or bid bond payable to the order of the Riverside County Flood Control and Water Conservation District, Riverside, California, in the sum of One Hundred Forty Six Thousand, Eight Hundred Twelve Dollars and Six Cents\*\*\*\*\* Dollars (\$ 146812.06)

It is understood and agreed that should the Contractor within ten (10) days after the prescribed forms are presented to him for signature fail to return the contract and furnish acceptable surety bond and insurance, then, at the discretion of the District, the proceeds of said check shall become the property of the District, the Contractor shall be found in default and the project may be awarded to another contractor. The bid bond or check shall be held subject to payment to the District of the difference in money between the amount of the contract with another party to perform the work, together with the cost to the District of redrafting, redrawing and publishing documents and papers necessary to obtain new bids on said work. The bid bond or check shall, in addition, be held subject to all other actual damages suffered by the District. But if the contract is entered into and said bonds and insurance are furnished, or if the proposal is not accepted, then the said check shall be returned to the undersigned.

- VII -

**RECEIVED**  
JUL 14 2011

RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT

*8:13 a.m.*

**PROPOSAL**

For the Construction of **Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91**, located in the city of Palm Springs, Riverside County, consisting of the following estimated quantities:

SEC. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	1.	Mobilization	L.S.	---	---	9823.00
11	2.	Water Control	L.S.	---	---	1000.00
12	3.	Traffic Control	L.S.	---	---	1500.00
13	4.	Clearing and Miscellaneous Work	L.S.	---	---	15237.00
13	5.	Protect/Replace Irrigation	L.S.	---	---	7892.40
14	6.	Embankment Fill	C.Y.	4,035	6.08	24532.80
16	7.	Class "B" Concrete, Miscellaneous	C.Y.	86	363.11	31227.46
20	8.	Temporary Fencing	L.F.	2,450	3.06	7497.00
27	9.	Dust Abatement	L.S.	---	---	2000.00
29	10.	Stormwater and Non-Stormwater Pollution Control	L.S.	---	---	3000.00
32	11.	Sod Installation	S.F.	69,520	.62	43102.40

**TOTAL** 146812.06

Post Earthworks Constructors, Inc.

**Name of Company**

2967 E. Coronado St.

**Address**

Anaheim, CA 92806

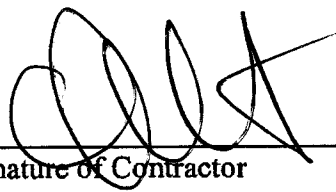
**City, State, Zip**

714 632-5290

**Telephone Number**

714 632-7967

**Fax Number**



**Signature of Contractor**

26-0053254

**S.S.N. or E.I.N.**

777445 A C20 C36

**Contractor's License No. and Classification**



LIST OF SUBCONTRACTORS

Contractor Post Earthworks Constructors, Inc.

Palm Canyon Wash, Stage 4  
Levee Restoration, Stage 91  
Project No. 6-0-00040-91

Give the name and the location of the place of business of each Subcontractor who will perform work or labor or render service to the General Contractor in or about the construction of the work or improvement, or a Subcontractor who specially fabricates and installs a portion of the work or improvement, in an amount in excess of one-half (½) of one percent (1%) of the General Contractor's total bid. List the bid item numbers of the work each subcontractor will do. If a portion of an item is to be subcontracted, show what percentage of that item is to be subcontracted.

Item No. (s) #7 15%

Name of Subcontractor Verdin Concrete, Inc.

Address/City/Phone 4899 Desperado Dr., Riverside, CA 92509 951 361-0572

License No. 780587

Item No. (s) \_\_\_\_\_

Name of Subcontractor \_\_\_\_\_

Address/City/Phone \_\_\_\_\_

License No. \_\_\_\_\_

Item No. (s) \_\_\_\_\_

Name of Subcontractor \_\_\_\_\_

Address/City/Phone \_\_\_\_\_

License No. \_\_\_\_\_

Item No. (s) \_\_\_\_\_

Name of Subcontractor \_\_\_\_\_

Address/City/Phone \_\_\_\_\_

License No. \_\_\_\_\_

Item No. (s) \_\_\_\_\_

Name of Subcontractor \_\_\_\_\_

Address/City/Phone \_\_\_\_\_

License No. \_\_\_\_\_

EXPERIENCE STATEMENT

Bidder submits, as part of his bid, the following statements as to his experience qualifications. Bidder certifies that all statements and information set forth below are true and accurate. Bidder hereby authorizes the District to make inquiry as appropriate regarding his experience.

Bidder has been engaged in the contracting business under this present business name for 11 years.

Bidder's experience in work of a nature similar in type and magnitude to that set forth in the Specification extends over a period of 4 years.

Within the last three years, Bidder has satisfactorily completed the following contracts covering work similar in type and magnitude to that set forth in these Specifications for the following owners (name person, firms, or authorities):

Name and Address of Owner/Agency	Representative and Telephone	Type of Work, Year Completed and Dollar Amount
City of Indian Wells, 44-500 Indian Wells Lane, Indian Wells, CA 92210 Casey Conlin 760 345-4653		Upper Channel Work 2008, \$153,098.00
Desert Resort Management, 42-635 Melanie Place, Ste. 103, Palm Desert, CA 92211 Mike Kocour 760 702-5884		Lake Excavating and grading, lining, concrete, underground utilities 2010 \$85,000.00
Mission Lakes Country Club, 8484 Clubhouse Dr., Desert Hot Springs, CA 92240 Mike Kocour 760-702-5858		Lake rebuild, demo, grading, lining, concrete, underground utilities 2008 \$155,000.00
Redevelopment Agency for the County of Riverside, 1325 Spruce St., Ste. 400, Riverside, CA 92507 Erlan Gonzalez 951 955-2968		Pinewood Park Improvement Project, 2010 \$105,909.00
Mt. San Jacinto Community College District, 1499 N. State St., San Jacinto, CA 92583, Mike Webster 951 487-3102		San Gorgonio Pass Campus Rough Grading, 2010 \$83,418.00
City of Seal Beach, 211 8th St., Seal Beach, CA 90740 David Spitz 562 431-2527		Construction and Removal of Sand Berms 2011- 2 of 3 stage complete \$219,812.00
City of San Clemente, 100 Avenida Presido, San Clemente, CA 92672 Jim Oldman-ValleyCrest Landscape Development 858 583-4007		LaPata Vista Hermosa Sports Park, earthwork 2011 \$206,500.00

STATEMENT OF LICENSURE

Pursuant to California Public Contract Code §3300, the undersigned does certify as follows:

1. That the pocket license/certificate of licensure I have presented to owner as of this date is my own license, being State of California, Contractors License No. 777445; and
2. That said Contractors License is current and valid; and
3. That said Contractors License is of a classification appropriate to the work to be undertaken for owner, a Class     license.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

DATED: 7/13/2011

[Handwritten Signature]  
Signature

Chris Post, President  
Title

STATE OF CALIFORNIA ) §  
COUNTY OF RIVERSIDE )

On this the 13<sup>th</sup> day of July, 2011, before me

Rochelle Breedon, notary public  
the undersigned Notary Public, personally appeared

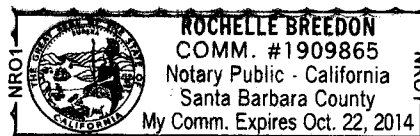
Chris Post

personally known to me

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she executed it.

WITNESS my hand and official seal.

Rochelle Breedon  
Notary's Signature



AFFIDAVIT FOR INDIVIDUAL CONTRACTORS

STATE OF CALIFORNIA ) §  
COUNTY OF RIVERSIDE )

\_\_\_\_\_, being first duly sworn, deposes and says:

That he or she is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Flood Control and Water Conservation District or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

\_\_\_\_\_  
His or Her signature

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Signature and stamp of Notary  
administering oath

AFFIDAVIT FOR JOINT VENTURE OR COPARTNERSHIP CONTRACTOR

STATE OF CALIFORNIA ) §  
COUNTY OF RIVERSIDE )

\_\_\_\_\_, being first duly sworn, deposes and says:

That he or she is a member of the joint venture or copartnership firm designated as

\_\_\_\_\_  
which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Flood Control and Water Conservation District or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

That he has been and is duly vested with authority to make and sign instruments for the joint venture or copartnership by

\_\_\_\_\_  
\_\_\_\_\_  
who constitute the other members of the joint venture or copartnership.

\_\_\_\_\_  
His or Her signature

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Signature and stamp of Notary  
administering oath

AFFIDAVIT FOR CORPORATE CONTRACTOR

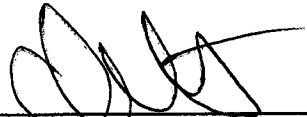
STATE OF CALIFORNIA ) §  
COUNTY OF RIVERSIDE )

Chris Post \_\_\_\_\_, being first duly sworn, deposes and says:

That he or she is President

of Post Earthworks Constructors, Inc.

a corporation which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the Riverside County Flood Control and Water Conservation District or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

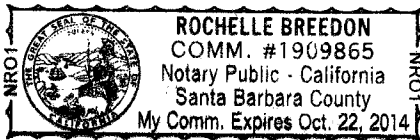


His or Her signature

Subscribed and sworn to before me this 13<sup>th</sup> day of July, 2011.



Signature and stamp of Notary administering oath



**BID BOND**

Recitals:

1. Post Earthworks Constructors, Inc. (Contractor), has submitted its Contractor's Proposal to the Riverside County Flood Control and Water Conservation District, (District), for the construction of public work for **Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91** in accordance with a Notice to Contractors dated June 14, 2011.

2. American Safety Casualty Insurance Company an Oklahoma corporation, hereafter called (Surety), is the surety on this Bond.

Agreement: We, Contractor as principal and Surety as surety, jointly and severally agree and state as follows:

1. The amount of the obligation of this Bond is 10% of the amount of the Contractor's Proposal and inures to the benefit of District. \*\*\* Not to exceed \$15,000.00\*\*\*

2. This Bond is exonerated by (1) District rejecting said Proposal or, in the alternate, (2) if said Proposal is accepted, Contractor executes the Agreement and furnishes the Bonds and Insurance as agreed to in its Proposal, otherwise it remains in full force and effect for the recovery of loss, damage and expense of District resulting from failure of Contractor to act as agreed to in its Proposal. Some types of possible loss, damage and expense are specified in the Contractor's Proposal.

3. Surety for value received, stipulates and agrees that its obligations hereunder shall in no way be impaired or affected by any extension of time within which District may accept the Proposal and waives notice of any such extension.

4. This Bond is binding on our heirs, executors, administrators, successors and assigns.

Dated: July 12, 2011

American Safety Casualty Insurance Company

Post Earthworks Constructors, Inc.

By 

By 

Juliana E. Dahlgren

Chris Post

(Printed Name)

(Printed Name)

Title Attorney-in-Fact

Title Pres.

(Surety)

(Contractor)

**NOTARY ACKNOWLEDGEMENT REQUIRED FOR EACH SIGNATURE PLEASE ATTACH SEPARATE FORM**

**NOTARY ACKNOWLEDGEMENT REQUIRED FOR EACH SIGNATURE PLEASE ATTACH SEPARATE FORM**

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

CIVIL CODE § 1189

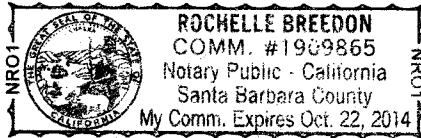
State of California

County of Orange }

On July 13, 2011 before me, Rochelle Breedon, notary public,  
Date Here Insert Name and Title of the Officer

personally appeared Christopher C. Post  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Rochelle Breedon  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: bid bond

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Partner —  Limited  General

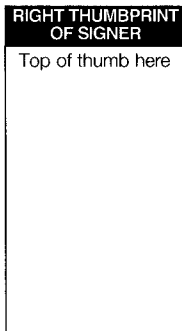
Attorney in Fact

Trustee

Guardian or Conservator

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Partner —  Limited  General

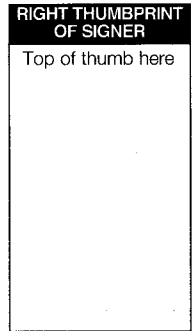
Attorney in Fact

Trustee

Guardian or Conservator

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_







NUMBER  
20-SUR-212862

### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS that American Safety Casualty Insurance Company has made, constituted and appointed, and by these presents does make, constitute and appoints

**Juliana E. Dahlgren**

its true and lawful attorney-in-fact, for it and its name, place, and stead to execute on behalf of the said Company, as surety, bonds, undertaking and contracts of suretyship to be given to

#### ALL OBLIGEEES

provided that n bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of

**\*\*ONE MILLION DOLLARS (\$1,000,000.00)\*\***

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company of the 6<sup>th</sup> day of August, 2009.

**RESOLVED**, that the President in conjunction with the Secretary or any Assistant Secretary may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the Company, to execute and deliver and affix the seal of the Company to bands, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any power of attorney previously granted to such persons.

**RESOLVED FURTHER**, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the company when:  
(i) when signed by the President or any Vice-President and attested and sealed (if a seal is required) by any Secretary or Assistant Secretary or (ii) when signed by the President or any Vice-President or Secretary or Assistant Secretary, and counter-signed and sealed (if a seal is required) by a duly authorized attorney-in-fact or agent; or (iii) when duly executed and sealed (if a seal is required) by one or more attorney-in-fact or agents pursuant to and within the limits of the authority evidenced by the power of attorney issued by the Company to such person or persons.

**RESOLVED FURTHER**, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company; and such signature and seal when so used shall have the same force and effects as though manually affixed.

IN WITNESS WHEREOF, American Safety Casualty Insurance Company has caused its official seal to be hereunto affixed, and these presents to be signed by its President and attested by its Secretary this 6<sup>th</sup> day of August, 2009

Attest:  
  
Ambuj Jain



Joseph D. Scolo, Jr.

STATE OF GEORGIA )  
COUNTY OF COBB )

On this 6<sup>th</sup> day of August, 2009, before me personally came Joseph D. Scolo, Jr., to me known, who, being by me duly sworn, did depose and say that he is the President of American Safety Casualty Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

JAMI BAILEY  
Notary Public, Hall Co., GA  
My Commission Expires Aug. 13, 2012

Jami Bailey, Notary Public

I, the undersigned, Secretary of American Safety Casualty Insurance Company, an Oklahoma corporation, DO HEREBY CERTIFY, that the foregoing and attached Power of Attorney remains in full force and has not been revoked, and furthermore that the Resolution of the Board of Directors, set forth in the said Power of Attorney, is now in force.

Signed and sealed in the City of Atlanta, in the State of Georgia

Dated this 12 day of July 2011



Ambuj Jain

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Los Angeles

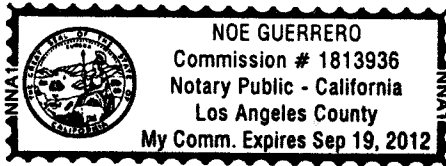
On 7/12/11  
Date

before me,

Noe Guerrero, Notary Public  
Here Insert Name and Title of the Officer

personally appeared

Juliana E. Dahlgren  
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature

Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: Bid Bond 20-SUR-212862

Document Date: 7/12/11

Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

- Individual  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

Signer's Name: \_\_\_\_\_

- Individual  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

## AGREEMENT

THIS AGREEMENT is made as of August 16, 2011 and is between RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT (District) and POST EARTHWORKS CONSTRUCTORS, INC. (Contractor).

IT IS AGREED BY THE PARTIES AS FOLLOWS:

1. The Work. Contractor shall furnish all tools, equipment, apparatus, facilities, labor and material necessary to perform the work for **Project No. 6-0-00040-91, Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91** of District, in exact conformity with the Contract Documents (identified below) for the Project, subject to such inspection as District deems appropriate and pursuant to orders and instructions, drawings, etc., issued by District in accordance with the Contract Documents.

2. Contract Documents. The Contract Documents for **Project No. 6-0-00040-91, Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91** of District are: (a) Notice to Contractors; (b) Instructions To Bidders; (c) Contractor's Proposal; (d) Agreement; (e) General Provisions; (f) Special Provisions; (g) Detailed Specifications; (h) Plans; (i) Bid Bond; (j) Performance Bond; (k) Payment Bond; (l) Appendices and any other documents included in or incorporated into the contract documents; (m) Orders, Instructions, Drawings and Plans issued by District during the course of the work in accordance with the provisions of the Contract Documents.

Each of the above-mentioned documents presently in existence are by this reference incorporated herein and each of said documents not now in existence are incorporated herein as of the time of their issuance.

The Bid Bond is exonerated upon execution and delivery to District in a form satisfactory to District, of the following, duly executed by Contractor and also by its Surety as to the Bonds, Agreement, Certificate of Insurance, Payment Bond, and Performance Bond.

3. Bonds - Insurance. Prior to commencement of the work, Contractor must deliver to District and District must approve, a fully executed Performance Bond in the amount of 100% of the estimated contract price, a fully executed Payment Bond in the amount of 100% of the estimated contract price, and fully executed certificates of insurance evidencing the existence of the insurance required by Subsection 8.02 of the General Provisions. The Payment Bond and Performance Bond must be on forms furnished by District.

Should any surety on the Payment Bond or Performance Bond be deemed unsatisfactory by the Board of Supervisors of District, Contractor shall upon notice promptly substitute new Bonds in form satisfactory to District.

4. Contract Price - Payment. Attached hereto, marked Exhibit A and by this reference made a part hereof, is provision for the Contract Price and its payment.

RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT

By Marion Ashley  
Chairman of its Board of Supervisors

Marion Ashley

ATTEST:

KECIA HARPER-IHEM  
Clerk of the Board

By Kecia Harper-Ihem  
Deputy

(Seal)

POST EARTHWORKS CONSTRUCTORS, INC.  
Contractor

By Chris Post

Title CHRIS POST, PRESIDENT

(If corporation affix corporate seal)

FORM APPROVED COUNTY COUNSEL  
BY: M. L. Victor 8/3/11  
MARSHAL L. VICTOR DATE

EXHIBIT A

(To Agreement for Riverside County Flood Control and Water Conservation District's Project No. **6-0-00040-91, Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91**, located in the city of Palm Springs, Riverside County, California.)

Contract Price - Payment - District shall pay Contractor the following sums for the items set forth below in accordance with Contractor's Proposal as accepted by District, which sums shall be paid as provided in the General Provisions and subject to additions and deductions as provided in the Contract Documents.

It is understood that the quantities listed, except for those shown as "Final" or "Lump Sum" are but estimates only and final payment will be based on actual work performed, subject to such adjustments and alterations as elsewhere provided.

SEC. NO.	ITEM NO.	ITEM OF WORK	UNIT	QUANTITY	UNIT COST	TOTAL COST
10	1.	Mobilization	L.S.	---	---	\$9,823.00
11	2.	Water Control	L.S.	---	---	1,000.00
12	3.	Traffic Control	L.S.	---	---	1,500.00
13	4.	Clearing and Miscellaneous Work	L.S.	---	---	15,237.00
13	5.	Protect/Replace Irrigation	L.S.	---	---	7,892.40
14	6.	Embankment Fill	C.Y.	4,035	\$6.08	24,532.80
16	7.	Class "B" Concrete, Miscellaneous	C.Y.	86	\$363.11	31,227.46
20	8.	Temporary Fencing	L.F.	2,450	\$3.06	7,497.00
27	9.	Dust Abatement	L.S.	---	---	2,000.00
29	10.	Stormwater and Non-Stormwater Pollution Control	L.S.	---	---	3,000.00
32	11.	Sod Installation	S.F.	69,520	\$0.62	43,102.40
<b>TOTAL</b>						<b>\$146,812.06</b>

PERFORMANCE BOND

Recitals:

1. Post Earthworks Constructors, Inc. (Contractor) has entered into an Agreement dated 07/14/2011 with the Riverside County Flood Control and Water Conservation District (District) for construction of public work known as **Project No. 6-0-00040-91, Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91.**
2. American Safety Casualty Insurance Company, a Oklahoma corporation (Surety), is the surety under this Bond.

Agreement: We, Contractor as principal, and Surety as surety, jointly and severally agree, state, and are bound unto District, as obligee, as follows:

1. The amount of the obligation of this Bond is 100% of the estimated contract price for the Project of \$ 146,812.06 and inures to the benefit of District.
2. This Bond is exonerated by Contractor doing all things to be kept and performed by it in strict conformance with the Contract Documents for the Project, otherwise it remains in full force and effect for the recovery of loss, damage and expense of District resulting from failure of Contractor to so act. All of said Contract Documents are incorporated herein.
3. This obligation is binding on our successors and assigns.
4. For value received, Surety stipulates and agrees that no change, time extension, prepayment to Contractor, alteration or addition to the terms and requirements of the Contract Documents or the work to be performed thereunder shall affect its obligations hereunder and waives notice as to such matters, except the total contract price cannot be increased by more than 25% without approval of Surety.

THIS BOND is executed as of July 29, 2011

Post Earthworks Constructors, Inc.

American Safety Casualty Insurance Company

By [Signature]

[Signature]

By Chris Coost

Type Name Juliana E. Dahlgren

Its Attorney in Fact (Surety)

Title President  
(Contractor)

SEE ATTACHMENT 8/1/11  
nd

**NOTE: This Bond must be executed by both parties with corporate seal affixed. All signatures must be acknowledged (attach acknowledgments).**

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

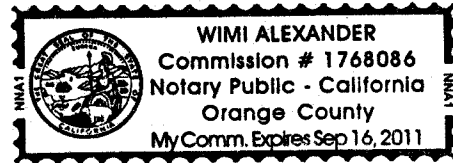
County of Orange

On 8-1-11 before me, Wimi Alexander, Notary Public,  
(Date) (Name and Title of the Officer)

personally appeared CHRIS C POST who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(~~ies~~), and that by his/~~her~~/their signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



[Handwritten Signature]  
(Signature of Notary Public)

(Notary Seal)

## ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT <u>PERFORMANCE BOND</u> <small>(Title or description of attached document)</small>
_____ <small>(Title of attached document continued)</small>
Number of Pages <u>    </u> Document Date <u>    </u> <small>(Additional information)</small>

CAPACITY CLAIMED BY THE SIGNER <input checked="" type="checkbox"/> Individual (s) <input type="checkbox"/> Corporate Officer _____ <small>(Title)</small> <input type="checkbox"/> Partner (s) <input type="checkbox"/> Attorney-in-Fact <input type="checkbox"/> Trustee (s) <input type="checkbox"/> Other _____
--

**INSTRUCTIONS FOR COMPLETING THIS FORM**  
*Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgement form must be properly completed and attached to that document. The only exceptions is if a document is to be recorded outside of California. In such instances, any alternative acknowledgement verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.*

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgement.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgement is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/they, is/are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impressions must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgement form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ◆ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document
  - ◆ Indicate title or type of attached document, number of pages and date.
  - ◆ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.

PAYMENT BOND

(Public Work - Civil Code, Section 3247 et seq.)

The makers of this Bond are Post Earthworks Constructors, Inc. as Principal and Original Contractor and American Safety Casualty Insurance Company a corporation, authorized to issue Surety Bonds in California, as Surety, and this Bond is issued in conjunction with that certain public works contract dated 07/14/2011, between Principal and Riverside County Flood Control and Water Conservation District (District), a public entity, as Owner, for \$ 146,812.06, the total amount payable. THE AMOUNT OF THIS BOND IS 100 PERCENT OF SAID SUM. Said contract is for public work generally consisting of the construction of **Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91** project. The beneficiaries of this Bond are as is stated in Section 3248 of the Civil Code and the requirements and conditions of this Bond are as is set forth in Sections 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, or prepayment under said contract.

DATED: 07/29/11

Post Earthworks Constructors, Inc.  
Original Contractor - Principal

American Safety Casualty Insurance Company  
Surety

By *Juliana E. Dahlgren* - Juliana E. Dahlgren  
Its Attorney in Fact

*Chris Post* - Chris Post  
SEE ATTACHMENT  
8/1/11  
Title President  
(If corporation, affix seal)

(Corporate Seal)

STATE OF CALIFORNIA §  
COUNTY OF \_\_\_\_\_)

SURETY'S ACKNOWLEDGMENT

On \_\_\_\_\_ before me personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the within instrument as attorney in fact of, \_\_\_\_\_ a corporation, and acknowledged that he subscribed the name of said corporation thereto, and his own name as its attorney in fact.

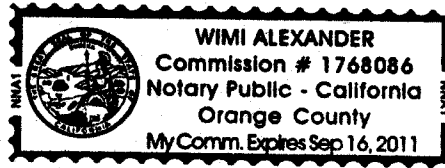
- See Attached Acknowledgment -  
Notary Public (Seal)



# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Orange



On 8-1-11 before me, Wimi Alexander, Notary Public,  
(Date) (Name and Title of the Officer)

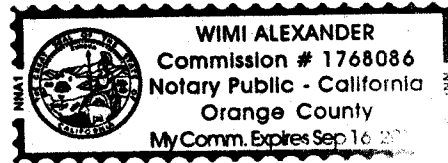
personally appeared CHRIS C POST who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Handwritten Signature]

(Signature of Notary Public)



(Notary Seal)

## ADDITIONAL OPTIONAL INFORMATION

<b>DESCRIPTION OF THE ATTACHED DOCUMENT</b>	
<u>PAYMENT BOND</u>	
<small>(Title or description of attached document)</small>	
_____	
<small>(Title of attached document continued)</small>	
Number of Pages _____	Document Date _____
_____	
<small>(Additional information)</small>	

<b>CAPACITY CLAIMED BY THE SIGNER</b>	
<input checked="" type="checkbox"/>	Individual (s)
<input type="checkbox"/>	Corporate Officer
	_____
	<small>(Title)</small>
<input type="checkbox"/>	Partner (s)
<input type="checkbox"/>	Attorney-in-Fact
<input type="checkbox"/>	Trustee (s)
<input type="checkbox"/>	Other _____

**INSTRUCTIONS FOR COMPLETING THIS FORM**  
*Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgement form must be properly completed and attached to that document. The only exceptions is if a document is to be recorded outside of California. In such instances, any alternative acknowledgement verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.*

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgement.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgement is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization:
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they, is/are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impressions must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgement form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ◆ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document
  - ◆ Indicate title or type of attached document, number of pages and date.
  - ◆ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.



### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS that American Safety Casualty Insurance Company has made, constituted and appointed, and by these presents does make, constitute and appoints

**Juliana E. Dahlgren**

its true and lawful attorney-in-fact, for it and its name, place, and stead to execute on behalf of the said Company, as surety, bonds, undertaking and contracts of suretyship to be given to

#### ALL OBLIGEES

provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of  
One Hundred Forty Six Thousand Eight Hundred Twelve Dollars and Six Cents (\$146,812.10)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company of the 6<sup>th</sup> day of August, 2009.

**RESOLVED**, that the President in conjunction with the Secretary or any Assistant Secretary may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the Company, to execute and deliver and affix the seal of the Company to bonds, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any power of attorney previously granted to such persons.

**RESOLVED FURTHER**, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the company when:  
(i) when signed by the President or any Vice-President and attested and sealed (if a seal is required) by any Secretary or Assistant Secretary or (ii) when signed by the President or any Vice-President or Secretary or Assistant Secretary, and counter-signed and sealed (if a seal is required) by a duly authorized attorney-in-fact or agent; or (iii) when duly executed and sealed (if a seal is required) by one or more attorney-in-fact or agents pursuant to and within the limits of the authority evidenced by the power of attorney issued by the Company to such person or persons.

**RESOLVED FURTHER**, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company; and such signature and seal when so used shall have the same force and effects as though manually affixed.

IN WITNESS WHEREOF, American Safety Casualty Insurance Company has caused its official seal to be hereunto affixed, and these presents to be signed by its President and attested by its Secretary this 6<sup>th</sup> day of August, 2009

Attest:

Ambuj Jain



Joseph D. Scollo, Jr.

STATE OF GEORGIA

COUNTY OF COBB

On this 6<sup>th</sup> day of August, 2009, before me personally came Joseph D. Scollo, Jr., to me known, who, being by me duly sworn, did depose and say that he is the President of American Safety Casualty Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

JAMI BAILEY  
Notary Public, Hall Co., GA  
My Commission Expires Aug. 13, 2012

Jami Bailey, Notary Public

I, the undersigned, Secretary of American Safety Casualty Insurance Company, an Oklahoma corporation, DO HEREBY CERTIFY, that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore that the Resolution of the Board of Directors, set forth in the said Power of Attorney, is now in force.

Signed and sealed in the City of Atlanta, in the State of Georgia

Dated this 29 day of July, 2011



Ambuj Jain

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Los Angeles

On 7/29/11

Date

before me,

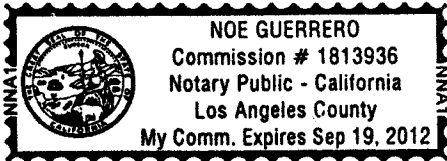
Noe Guerrero, Notary Public

Here Insert Name and Title of the Officer

personally appeared

Juliana E. Dahlgren

Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature

Signature of Notary Public

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Payment and Performance Bond No: 20-SUR-212862

Document Date: 7/29/11

Number of Pages: \_\_\_\_\_

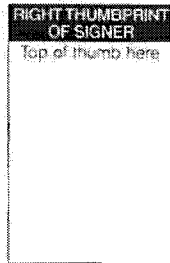
Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Juliana E. Dahlgren

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_





## **IMPORTANT**

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

## **DISCLAIMER**

This Certificate of Insurance does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

## COMMENTS/REMARKS

AM Best Rating for Navigators Insurance Company: A10  
AM Best Rating for Travelers Insurance Company: A+ 15  
AM Best Rating for National Union Fire Insurance: A15  
AM Best Rating for Delos Insurance Company: A8

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## **AUTO COVERAGE PLUS ENDORSEMENT**

This endorsement modifies insurance provided under the following:

### **BUSINESS AUTO COVERAGE FORM**

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

#### **A. PERSONAL EFFECTS COVERAGE**

**SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions** is amended by adding the following:

##### **Personal Effects Coverage**

We will pay up to \$400 for "loss" to wearing apparel and other personal effects which are:

- (1) owned by an "insured"; and
  - (2) in or on your covered "auto";
- in the event of a total theft "loss" of your covered "auto".

No deductibles apply to Personal Effects Coverage.

#### **B. AUTO LOAN LEASE GAP COVERAGE**

**SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions** is amended by adding the following:

##### **Auto Loan Lease Gap Coverage for Private Passenger Type Vehicles**

In the event of a total "loss" to a covered "auto" of the private passenger type shown in the Schedule or Declarations for which Physical Damage Coverage is provided, we will pay any unpaid amount due on the lease or loan for such covered "auto" less the following:

- (1) The amount paid under the Physical Damage Coverage Section of the policy for that "auto"; and
- (2) Any:
  - (a) Overdue lease/loan payments at the time of the "loss";
  - (b) Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage;
  - (c) Security deposits not returned by the lessor;

- (d) Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease; and

- (e) Carry-over balances from previous loans or leases.

#### **C. COVERAGE EXTENSION – AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT NOT DESIGNED SOLELY FOR THE PRODUCTION OF SOUND**

**SECTION III – PHYSICAL DAMAGE COVERAGE, B. Exclusions**, exception paragraph a. to exclusions 4.c & 4.d is deleted and replaced with the following:

- a. Equipment and accessories used with such equipment, except tapes, records or discs, provided such equipment is permanently installed in the covered "auto" at the time of the "loss" or is removable from a housing unit which is permanently installed in the covered "auto" at the time of the "loss", and such equipment is designed to be solely operated by use of the power from the "auto's" electrical system, in or upon the covered "auto"; or

#### **D. WAIVER OF DEDUCTIBLE – GLASS**

**SECTION III – PHYSICAL DAMAGE COVERAGE, D. Deductible** is amended by adding the following:

No deductible for a covered "auto" will apply to glass damage if the glass is repaired rather than replaced.

#### **E. HIRED AUTO PHYSICAL DAMAGE COVERAGE**

**SECTION III – PHYSICAL DAMAGE COVERAGE, A. Coverage, 4. Coverage Extensions** is amended by adding the following:

##### **Hired Auto Physical Damage Coverage Extension**

If hired "autos" are covered "autos" for Liability Coverage and this policy also provides Physical Damage Coverage for an owned "auto", then the

## COMMERCIAL AUTO

Physical Damage Coverage is extended to "autos" that you hire, rent or borrow subject to the following:

- (1) The most we will pay for "loss" in any one "accident" to a hired, rented or borrowed "auto" is the lesser of:
  - (a) \$50,000;
  - (b) The actual cash value of the damaged or stolen property as of the time of the "loss"; or
  - (c) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality.
- (2) An adjustment for depreciation and physical condition will be made in determining actual cash value in the event of a total "loss".
- (3) If a repair or replacement results in better than like kind or quality, we will not pay for the amount of betterment.
- (4) A deductible equal to the highest Physical Damage deductible applicable to any owned covered "auto".
- (5) This Coverage Extension does not apply to:
  - (a) Any "auto" that is hired, rented or borrowed with a driver; or
  - (b) Any "auto" that is hired, rented or borrowed from your "employee".

### F. BLANKET WAIVER OF SUBROGATION

**SECTION IV – BUSINESS AUTO CONDITIONS, A. Loss Conditions, 5. Transfer Of Rights Of Recovery Against Others To Us** is deleted and replaced by the following:

#### 5. Transfer Of Rights Of Recovery Against Others To Us

We waive any right of recovery we may have against any person or organization to the ex-

tent required of you by a written contract executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of the operations contemplated by such contract. The waiver applies only to the person or organization designated in such contract.

### G. BLANKET ADDITIONAL INSURED

**SECTION II – LIABILITY COVERAGE, part A. 1. Who Is An Insured**, paragraph c. is amended by adding the following:

Any person or organization that you are required to include as an additional insured on this Coverage Form in a written contract or agreement that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period is an "insured" for Liability Coverage, but only for damages to which this insurance applies and only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Section II.

### H. EMPLOYEE HIRED AUTOS

**SECTION II – LIABILITY COVERAGE, A. Coverage, 1. Who Is An Insured** is amended by adding the following:

An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business.

### I. COVERAGE EXTENSION – TRAILERS

**SECTION I – COVERED AUTOS, C. Certain Trailers, Mobile Equipment and Temporary Substitute Autos**, paragraph 1. is deleted and replaced by the following:

1. "Trailers" with a load capacity of 3,000 pounds or less designed primarily for travel on public roads.



**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**BLANKET ADDITIONAL INSURED ENDORSEMENT  
(EXCLUDING RESIDENTIAL)**

This endorsement modifies insurance provided under the following:  
COMMERCIAL GENERAL LIABILITY COVERAGE PART

**ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS (FORM B)  
CG 20 10 11 85**

**SCHEDULE**

**Name of Person or Organization:**

Any person or organization that the named insured is obligated by virtue of a written contract or agreement to provide insurance such as is afforded by this policy.

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you.

The following additional provisions apply to any entity that is an insured by the terms of this endorsement:

1. Primary Wording  
If required by written contract or agreement: Such insurance as is afforded by this policy shall be primary insurance, and any insurance or self-insurance maintained by the above additional insured(s) shall be excess of the insurance afforded to the named insured and shall not contribute to it.
2. Waiver of Subrogation  
If required by written contract or agreement: We waive any right of recovery we may have against an entity that is an additional insured per the terms of this endorsement because of payments we make for injury or damage arising out of "your work" done under a contract with that person or organization.
3. Neither the coverages provided by this insurance policy nor the provisions of this endorsement shall apply to any claim arising out of the sole negligence of any additional insured or any of their agents/ employees.
4. This endorsement does not apply to any work involving or related to properties intended for permanent residential or habitational occupancy (other than apartments).

The words "you" and "your" refer to the Named Insured shown in the Declarations.

"Your work" means work or operations performed by you or on your behalf; and materials, parts or equipment furnished in connection with such work or operations.

ANF-ES 160 (5/ 2006)

**WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY**

**WC 04 03 06  
(Ed. 4-84)**

**WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT - CALIFORNIA**

We have the right to recover from our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 2% of the California workers' compensation premium otherwise due on such remuneration.

**SCHEDULE**

**Person or Organization**

**Job Description**  
All California Operations

Blanket Waiver

2% of the total classification

Minimum Premium \$500

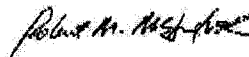
This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated. (The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 9/30/2010  
Insured Post Bros Construction, Co.

Policy No. 03DKRM1-2004-589  
Insurance Company: Delos Insurance Company - 35408

Endorsement No.1

Countersigned By:



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10/8/2010 ac

GENERAL PROVISIONS

## GENERAL PROVISIONS

### SECTION I - DEFINITION OF TERMS

1.01 Whenever in these specifications, or in any documents or instruments where these specifications govern, the following terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

(a) DISTRICT: The Riverside County Flood Control and Water Conservation District of the State of California, as created by law, also sometimes referred to as the Flood Control District, or party of the first part.

(b) BOARD OF SUPERVISORS: The Board of Supervisors of the Riverside County Flood Control and Water Conservation District as created by law, also sometimes referred to as the Board.

(c) ENGINEER: The Chief Engineer of the Riverside County Flood Control and Water Conservation District, also sometimes referred to as the Flood Control Engineer, the Chief Engineer, or the General Manager-Chief Engineer, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

(d) LABORATORY: The established laboratory of the Riverside County Road Department or laboratories authorized by the District to test materials and work involved in the contract.

(e) BIDDER: Any individual, firm or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.

(f) CONTRACTOR: The person or persons, copartnership or corporation, private or municipal, who have entered into a contract with the District, as party or parties of the second part or his or their legal representatives.

(g) SUPERINTENDENT: The Executive representative of the Contractor, present on the work at all times during progress, authorized to receive and execute instruction from the Engineer.

(h) PLANS: The official plans, profiles, typical cross sections, general cross sections, working drawings, and supplemental drawings, or exact reproductions thereof, approved by the Engineer, which show the location, character, dimensions and details of the work to be done, and which are to be considered as a part of the contract supplementary to these specifications.

(i) SPECIFICATIONS: The directions, provisions, and requirements contained herein as supplemented by such special provisions, as may be necessary, pertaining to the method and manner of performing the work or to the quantities and qualities of materials to be furnished under the contract. The Special Provisions are specific clauses setting forth conditions

or requirements peculiar to the project under consideration and covering work or materials involved in the proposal and estimate but not satisfactorily covered by these General Provisions. Supplemental agreements or contract change orders are written agreements executed by the Contractor and by the District, covering alterations, amendments or extensions to the project, as hereinafter provided.

(j) CONTRACT: The written agreement covering the performance of the work and the furnishing of labor and materials in the construction of the work. The contract shall include the Notice to Contractors, the Proposal, Plans, Specifications, Special Provisions, and Contract Bonds, also, any and all supplemental agreements or contract change orders amending or extending the work contemplated and which may be required to complete the work in a substantial and acceptable manner.

(k) CONTRACT PRICE: Shall mean either the lump sum, unit price, or unit prices to be named in the contract, or the total of all payments under the contract at the lump sum, unit price, or unit prices, as the case may be.

(l) SURETY OR SURETIES: The bondsmen or party or parties, approved by the Engineer, who may guarantee the fulfillment of the contract by bond, and whose signatures are attached to said bond.

(m) RIGHT OF WAY: The whole right of way which is reserved for and secured for use in constructing the improvement.

(n) THE WORK: All the work specified in the Special Provisions, proposal and contract, or indicated on the plans as the contemplated complete improvement covered by the contract.

1.02 Wherever in the specifications or upon the plans the words directed, required, permitted, ordered, designated, prescribed, or words of like import are used, it will be understood that the direction, requirements, permission, order, designation, or prescription of the Flood Control Engineer is intended, and similarly the words approved, acceptable, satisfactory, or words of like import, shall mean approved by, or acceptable to, or satisfactory to, the Flood Control Engineer, unless otherwise expressly stated.

## SECTION II - SCOPE OF WORK

### 2.01 WORK TO BE DONE

It is the intent of these General Provisions, Special Provisions, Detailed Specifications, and the plans herein referred to, to provide for and include all labor, power, light, water, materials, tools, scaffolding, machinery, plant transportation, insurance, permits, bonds, temporary protection, watchmen, and superintendence necessary to construct and complete all work, and to furnish all materials included in the contract, except those furnished by the District and as specifically mentioned in these specifications.

The contract documents are complementary, and the work called for by any one shall be as binding as if called for by all.

## 2.02 CONSTRUCTION SCHEDULE

The Contractor shall submit at such times as may be requested by the Engineer, a schedule which shall show the order and dates in which the Contractor proposes to carry on the various parts of the work; including estimated completion dates.

## 2.03 DRAWINGS AND SPECIFICATIONS ON THE WORK

The Contractor shall keep one copy of all drawings and specifications on the work, in good order, available to the Engineer and his representatives.

## 2.04 ESTIMATE OF QUANTITIES

The quantities of work to be done and the materials to be furnished under this contract are approximate only. The District is not to be held responsible for the accuracy of the estimate of quantities.

The Contractor shall judge for himself, after considering all circumstances and conditions, the costs and quantities of materials involved in the contract. The Contractor shall not at any time assert that there was any misunderstanding in regard to the depth or class of the excavations to be made, or the nature or kind or amount of materials to be furnished for the work.

The Contractor herewith agrees that he will not ask, demand, sue for, or seek to recover, for compensation in excess of the amounts payable for the various unit costs or lump sum charges for the work, as stipulated in the proposal, which he actually performs as specified.

## 2.05 PROTESTS

If the Contractor considers any work demanded of him to be outside of the requirements of the contract, or considers any record or ruling of the Engineer to be unfair, he shall immediately, upon such work being demanded or such record or ruling being made, ask, in writing, for written instructions covering protested items of work. Immediately on receipt of written instructions from the Engineer he shall proceed without delay to diligently perform the work in conformance with the written record or ruling. Within ten (10) calendar days after date of receipt of the written instructions or ruling, the Contractor shall file a written protest with the Engineer stating clearly and in detail the basis of his protest. Except for such protests as are made of record in the manner herein specified and within the time limit stated, the records, rulings, instructions, or decisions of the Engineer shall be final and conclusive.

## 2.06 ALTERATIONS

It must be distinctly understood that such reasonable alterations and modifications may be made by the Chief Engineer, as may be deemed desirable, and that this may be done without notices to the Sureties on the Contractor's bonds. If such changes result in increased or decreased quantities under the items specified in the proposal, the Contractor will be paid on the basis of actual quantities as measured by the Engineer, and such changes shall not affect the unit prices bid by the Contractor. If, however, such changes result in delay to the work, the

Contractor will be given such extension of time on the completion of his contract as the Chief Engineer may deem equitable.

## 2.07 EXTRA WORK

### A. General

The District reserves and shall have the right, when confronted with unpredicted conditions, unforeseen events, or emergencies, to revise the details of the contemplated work, or to add work of a different character or function and have the Contractor perform such revised or added work as "Extra Work", when such extra work is considered by the Chief Engineer to be virtually appurtenant to the satisfactory completion of the project.

"Extra Work" is defined as added work of a different character or function and for which no basis for payment is prescribed; or that involving revisions of the details of the work in such manner as to render inequitable payment under items upon which the Contractor bid; or that work which is indeterminate at the time of advertising and is specifically designated as extra work in the plans and Special Provisions.

The signing of the contract by the Contractor will be deemed to be an agreement on his part to perform extra work, as and when ordered by the Chief Engineer. Notice to the Sureties on the Contractor's bonds will not be given unless the estimated total value of the contract, as changed or supplemented, shall exceed the original total bid price by more than 25 percent.

If required extra work results in delay to the work, the Contractor will be given an equivalent extension of time.

Approval of extra work shall be obtained from the Board of Supervisors before such work is authorized to be done, if:

- a. For contracts with a total contract price of \$250,000 or less, a change due to extra work exceeds ten percent (10%) of the original contract amount; or
- b. For contracts with a total contract price of more than \$250,000, a change due to extra work exceeds \$25,000 plus one percent (1%) of the original contract amount in excess of \$250,000; or
- c. An individual change exceeds \$100,000; or
- d. Cumulative contract changes exceed ten percent (10%) of the original contract amount.

Extra work specially authorized by the Board of Supervisors shall not be included in the cost limitations above stated.

B. Procedure for Extra Work

1. Upon decision of the District to have extra work performed, the Chief Engineer will so inform the Contractor, acquainting him with the essential details of the new work. The Contractor shall thereupon prepare a price for said work based upon his estimate of cost and submit said price and estimate to the Chief Engineer whose approval shall be secured before work is started; excepting that the Chief Engineer may, when in the best interest of the District, order the Contractor to proceed with the extra work in advance of the submission of such prices, provided that preliminary estimates, as made by the District, show that the cost will not exceed \$1,000.

2. Prices for extra work shall be prepared by the Contractor on one or both of the following methods, as requested by the District, and submitted to the Chief Engineer for approval:

a. For a stated unit price or lump sum amount based upon current prevailing fair prices for materials, labor, plant, overhead and profit.

b. On a cost basis (force account by the Contractor). The cost of all work done by the Contractor will be computed in the manner described in Section 7.03, and the compensation thus provided shall be accepted as payment in full by the Contractor, and no additional payment will be allowed for the use of small tools, superintendent's services, timekeeper's services, pickup or yard trucks, except as specifically essential to the work, nor any other overhead expenses incurred in the prosecution of the force account work.

3. Upon receipt of the Contractor's price, the Chief Engineer will make an analysis thereof and adopt one of the following procedures:

a. Accept the Contractor's price for lump sum or unit price amount in the original or amended form and direct him to proceed with the work; or direct him to perform the work on a cost plus basis.

b. Have the work performed by District's forces or separate contract, without undue interference or hindrance to the Contractor and without claim or suit by the Contractor for damages on account thereof.

c. Direct the Contractor to proceed with the work and accept payment therefor in the amount as adjudicated later in a court of law.

2.08 PAYMENT FOR EXTRA WORK

At the end of each month the Contractor shall make and deliver to the Chief Engineer a statement of the cost of the extra work completed during the current month, itemized and in a form satisfactory to the Chief Engineer. Upon verification of said statement by the Chief Engineer, the Contractor's claim for the full amount, as shown on said statement, will be added to the monthly partial payment made in accordance with Paragraph 7.06 of the General Provisions.



## 2.09 RIGHTS OF WAY

The District shall provide the rights of way upon which the work under this contract is to be done, except that the Contractor shall provide land required for the erection of temporary construction facilities and storage of his material, together with right of access to same. The District will not be responsible for any delay in furnishing the rights of way and such delay shall not be made the basis for a claim for additional compensation by the Contractor. However, in case the failure of the District to furnish the required rights of way delays the prosecution of the work, the time allowed for completion will be extended by a period of time equal to that lost by the Contractor due to such delay.

## 2.10 CLEANING UP

The Contractor shall, as directed by the Engineer, remove from the District's right of way and from all public and private property, at his own expense, all temporary structures, rubbish and waste materials resulting from his operations.

## SECTION III - CONTROL OF THE WORK

### 3.01 AUTHORITY OF THE ENGINEER

The Engineer shall have general supervision and direction of the contract under authority of the Board of Supervisors. He has the authority to stop the work whenever such stoppage may be necessary to ensure the proper execution of the contract. The Engineer shall decide all questions which may arise as to the quality or acceptability of materials furnished, work performed, and rate or progress of the work; all questions which may arise as to the interpretation of the plans and specifications; all questions as to the acceptable fulfillment of the contract on the part of the Contractor; and all questions as to compensation.

His determination and decision thereon shall be final and conclusive; and such determination and decision, in case any question shall arise, shall be a condition precedent to the right of the Contractor to receive any money hereunder.

### 3.02 DETAIL DRAWINGS

The approved plans shall be supplemented by such working drawings as are necessary to control the work adequately. All authorized alterations affecting the requirements and information given on the approved plans shall be in writing. No changes shall be made of any plan or drawing after the same has been approved by the Engineer, except by his direction.

It is expressly understood, however, that approval by the Engineer of the Contractor's working drawings does not relieve the Contractor of any responsibility for accuracy of dimensions and details. It is mutually agreed that the Contractor shall be responsible for agreement and conformity of his working drawings with the approved plans and specifications.

Full compensation for furnishing all working drawings shall be considered as included in the prices paid for the various contract items of work, and no additional allowance will be made therefor.

### 3.03 CONFORMITY WITH PLANS AND ALLOWABLE DEVIATIONS

Finished surfaces in all cases shall conform with the lines, grades, cross-sections, and dimensions shown on the approved plans. Deviations from the approved plans and working drawings, as may be required by the exigencies of construction, will in all cases be determined by the Engineer and authorized in writing.

### 3.04 INTERPRETATION OF PLANS AND SPECIFICATIONS

Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in these specifications and the Special Provisions, the Contractor shall apply to the Engineer for such further explanations as may be necessary and shall conform to the same part of the contract, so far as may be consistent with the original specifications; and in the event of any doubt or questions arising respecting the true meaning of the specifications; reference shall be made to the Engineer, whose decision thereon shall be final.

In the event of any discrepancy between any drawings and the figures written thereon, the figures shall be taken as correct. The Contractor will not be allowed to take advantage of errors and omissions in the drawings and specifications. When errors or omissions are found, they will be corrected or supplied by the Engineer.

### 3.05 SUPERINTENDENCE

The Contractor shall keep on his work, continually during its progress, a competent Superintendent responsible for the construction of the work, and any necessary assistants; all satisfactory to the Engineer. The Superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor. Important directions shall be confirmed in writing to the Contractor. Other directions shall be so confirmed on written request in each case.

### 3.06 LINES AND GRADES

The Contractor shall provide reasonable and necessary opportunities and facilities for setting points and making measurements. He shall not proceed until he has made timely demand upon the Engineer for, and has received from him, such lines and grades as may be necessary as the work progresses. The work shall be done in strict conformity with such lines and grades.

The Contractor shall carefully preserve benchmarks, reference points and stakes, and in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

### 3.07 INSPECTION OF WORK

The Engineer and his representatives shall at all times have access to the work during its construction, and shall be furnished with every reasonable facility for ascertaining that the stock and materials used and employed, and the workmanship, are in accordance with the requirements and intentions of these specifications. All work done and all materials furnished shall be subject to the Engineer's inspection and approval to ensure design objectives.

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contracts as prescribed, and defective work shall be made good and unsuitable materials may be rejected, notwithstanding that such defective work and materials have been previously overlooked by the Engineer and accepted or estimated for payment.

### 3.08 REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK

All work which has been rejected shall be remedied, or removed and replaced by the Contractor in an acceptable manner and no compensation will be allowed him for such removal or replacement. Any work done beyond the lines and grades shown on the plans or established by the Engineer, or any extra work done without written authority, will be considered as unauthorized and will not be paid for. Work so done may be ordered removed at the Contractor's expense. Upon failure on the part of the Contractor to comply forthwith with any order of the Engineer made under the provisions of this article, the Engineer shall have authority to cause defective work to be remedied, or removed and replaced, and unauthorized work to be removed and to deduct the costs for this work from any monies due or to become due the Contractor.

### 3.09 EQUIPMENT AND PLANT

Equipment not suitable to produce the quality of work required will not be permitted to operate on the project. Plants shall be designed and constructed in accordance with general practice for such equipment and shall be of sufficient capacity and of such character to ensure the production of sufficient material to carry the work to completion within the time limit.

The Contractor shall provide adequate and suitable equipment and plants to meet the above requirements and, when ordered by the Engineer, shall remove unsuitable equipment from the work and discontinue the operation of unsatisfactory plants. No worn or obsolete equipment shall be used, and in no case shall the maker's rating of the capacity for any equipment be exceeded.

All vehicles used to haul materials over existing highways shall be equipped with pneumatic tires.

### 3.10 FINAL INSPECTION

The Engineer will not make the final inspection until the work provided for and contemplated by the contract has been completed and the final cleaning up performed.

## SECTION IV - CONTROL OF MATERIAL

### 4.01 DISTRICT FURNISHED MATERIALS

The Contractor shall furnish all materials required to complete the work, except those specified in the Special Provisions to be furnished by the District. Materials furnished by the District will be delivered to the Contractor at the points specified in the Special Provisions.

The Contractor will be held responsible for all materials so delivered to him, and deductions will be made from any monies due him to make good any shortages and deficiencies,

from any cause whatsoever, which may occur after such delivery, or for any demurrage charges due to delinquency in unloading.

#### 4.02 SOURCE OF SUPPLY AND QUALITY OF MATERIALS

At the option of the Engineer the source of supply of each of the materials shall be approved by him before the delivery is started. Only materials conforming to the requirements of these specifications and approved by the Engineer shall be used in the work. All materials proposed for use may be inspected or tested at any time during their preparation and use. If, after trial, it is found that sources of supply which have been approved do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Contractor shall furnish approved material from other approved sources. No material which, after approval, subsequently becomes unfit for use shall be used in the work.

#### 4.03 SAMPLES AND TESTS

All tests of materials furnished by the Contractor shall be made by the District in accordance with commonly recognized standards of national organizations, and such special methods and tests as are in use at the District's approved laboratory and described in the Detailed Specifications.

Field tests of materials will also be made by the Engineer when deemed necessary and these tests shall be made in accordance with standard practices of the District.

The Contractor shall furnish such samples of all materials as are requested by the Engineer without charge. No material shall be used until it has been approved by the Engineer. Samples will be secured and tested whenever necessary to determine the quality of the material.

Promptly after the approval of the contract, the Contractor shall notify the Engineer of the proposed sources of supply of all materials to be furnished by him, using a form which will be supplied by the Engineer upon request.

Whenever reference is made in these specifications to standard tests or requirements of the laboratory of the District, the American Society for Testing Materials, the American Railway Engineering Association, or the American Association of State Highway Officials, the reference shall be construed to mean the standards that are in effect at the date of these specifications with subsequent amendments, changes, or additions as thereafter adopted and published by the organization referred to.

#### 4.04 STORAGE OF MATERIALS

Materials shall be so stored as to ensure the preservation of their quality and fitness for the work. When considered necessary by the Engineer, they shall be placed on wooden platforms or other hard, clean surfaces and not on the ground. They shall be placed under cover when so directed. Stored materials shall be so located as to facilitate prompt inspection.

#### 4.05 DEFECTIVE MATERIALS

All materials not conforming to the requirements of these specifications shall be considered as defective and all such materials, whether in place or not, shall be rejected and shall be removed immediately from the site of the work unless otherwise permitted by the Engineer. No rejected materials, the defects of which have been subsequently corrected, shall be used until approval in writing has been given by the Engineer. Upon failure on the part of the Contractor to comply forthwith with any order of the Engineer made under the provisions of this article, the Engineer shall have authority to remove and replace defective material and to deduct the cost of removal and replacement from any monies due or to become due the Contractor.

#### 4.06 ASSIGNMENT OF CLAIMS

In submitting a bid on this public works project, or any subcontractor agreeing to supply goods, services, or materials, and entering a contract pursuant thereto, the Contractor and/or subcontractor do offer and agree to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.

### SECTION V - LEGAL RELATIONS AND RESPONSIBILITY

#### 5.01 LAWS TO BE OBSERVED

(a) Compliance with Applicable Law. Reference to and/or incorporation into the Contract Documents of a particular law, statute, ordinance, rule or regulation is not, nor is it intended to be, a definitive statement of the law applicable to the Contract Documents and the accomplishment of the work. Contractor must keep informed as to all such applicable law - Federal, State, County, Municipal, District - as it affects the conduct of the work and comply with such law, including, but not limited to, having requisite licenses, obtaining necessary permits, paying necessary fees and taxes, posting notices and installing, operating and maintaining safety precautions and facilities. It is likewise Contractor's responsibility to see to it that his subcontractors also fully comply with such applicable law.

If at any time Contractor is of the opinion that there is a discrepancy or inconsistency in the plans, drawings, specifications or other Contract Documents, he shall immediately cease work involving such alleged discrepancies or inconsistencies and report the same in writing to the Chief Engineer and shall not proceed with such work until ordered so to do, and in the manner instructed by the Chief Engineer.

Contractor shall protect and defend District, its officers, agents and employees against any claim or liability arising from or based upon any alleged violation of such applicable law. See also Subsection 8.02.

(b) Labor Code - Reference is made to Chapter 1, Part 7, Division 2 of the California Labor Code (commencing with Section 1720). By this reference said Chapter 1 is incorporated herein with like effect as if it were here set forth in full. The parties recognize that said Chapter 1 deals with, among other things, discrimination, penalties and forfeitures, their disposition and enforcement, wages, working hours and securing workers' compensation insurance and directly affect the method of prosecution of the work by Contractor and subject it under certain conditions to penalties and forfeitures. Execution of the Agreement by the parties constitutes their agreement to abide by said Chapter 1. Their stipulation as to all matters which they are required to stipulate as to by the provisions of said Chapter 1, constitutes Contractor's certification that it is aware of the provisions of said Chapter 1 and will comply with them and further constitutes Contractor's certification as follows: "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this contract." Contractor and its subcontractors shall comply with the provisions of S1777.5 of the Labor Code regarding apprentices.

Contractor shall post at each job site during the course of the work a copy of County's "Determination of Prevailing Wage Rates", copies of said Determination are available from County for this purpose.

(c) Equal Employment Opportunity

General - Contractor shall not discriminate in its recruiting, hiring, promotion, demotion or termination practices on the basis of race, religious creed, color, national origin, ancestry, sex, age or physical handicap in the performance of this Contract and shall comply with the provisions of the Government Code Section (commencing with §12900 et seq.), the Federal Civil Rights Act of 1964 (P.L. 88-352) and all amendments thereto, Executive Order No. 11246 (30 Federal Register 12319), as amended, and all administrative rules and regulations issued pursuant to said Acts and Order. See particularly 41 Code of Federal Regulation (CFR) Chapter 60.

Contractor shall require each of its subcontractors to comply with the preceding paragraph and shall include in each subcontract language similar to the preceding paragraph.

Contractor shall permit access to its records of employment, employment advertisement, application forms and other pertinent data and records by Owner and any state or federal agency having jurisdiction for the purpose of investigation to ascertain compliance with this Section.

Owner may assign an affirmative action representative to monitor Contractor and its subcontractor(s) conduct required by this Section, including the right of entry to the construction site for the purpose of obtaining information from persons performing work on the project providing such inspection does not interfere with the progress of the work.

Elsewhere in the Contract Documents specific requirements may be contained covering the same subject matter of this Section. If so, such specific requirements prevail over this Section in case of conflict.

Transactions of \$10,000 or under - Contracts and subcontracts not exceeding \$10,000 are exempt from the requirements of this Section. No Contractor or subcontractor shall procure supplies and/or services in less than usual quantities to avoid applicability of this Section. With respect to contracts and subcontracts for indefinite quantities, this Section applies unless the amount required in any one year under such contract will reasonably be expected not to exceed \$10,000.

Transactions in Excess of \$10,000 but less than \$50,000 - At Owner's request, Contractor shall certify that it has in effect an affirmative action plan and agrees to comply with all state and federal laws and regulations regarding Fair Employment Practices. Contractor shall maintain a written copy of its affirmative action plan and furnish Owner a copy of the plan upon request. Owner may require Contractor to complete an Affirmative Action Compliance Report, on a form furnished by Owner, setting forth definite goals during the term of this contract.

Transactions of \$50,000 or more - If Contractor has 50 or more employees and a contract for \$50,000 or more, it shall develop and submit to Owner, within 30 days after award, a written affirmative action compliance program providing in detail specific steps to guarantee equal employment opportunity. Contractor shall include in its affirmative action program a table of job classifications, which table shall include but need not be limited to job titles, duties and rates of pay.

Contractor shall in each subcontract let to do a portion of the work covered hereunder, where the subcontractor involved has 50 or more employees and the subcontract is for \$50,000 or more, impose in the subcontract the above requirements.

For the purpose of determining the number of employees, the average of the Contractor's or its subcontractor's employees for the 12 month period immediately prior to award, or the total number of employees Contractor or its subcontractor will have when performing this contract, whichever is higher, shall be used.

Federally Assisted Construction - If this project is a Federally assisted construction project, then the contract provisions contained 41 CFR S60-1.4(b) are incorporated herein and Contractor shall likewise incorporate said provisions in each subcontract entered into by Contractor to perform the work. Federally assisted construction is identified as such in the Notice Inviting Bids.

(d) Registration of Contractors - In order to be considered a prospective bidder must be licensed in accordance with Division 3, Chapter 9 (commencing with Section 7000) of the Business and Professions Code.

(e) Accident Prevention - Particular attention shall be given to relevant Division of Industrial Safety Construction and Electrical Safety Orders. Said Orders are contained in Title 8 of the California Administrative Code, Chapter 4, Subchapters 4 and 5. Specific attention shall be taken of the California Occupational Safety and Health Act of 1973 (commencing with Section 6300 of the Labor Code) and the Federal Occupational Safety and Health Act of 1970 (P.L. 91-596) and rules and regulations issued pursuant to said Acts. Specific reference is made to Article 6 of said Construction Safety Orders. Contractor shall submit to Engineer, who will

accept in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping of the sides of trenches, or other provisions to be made for protection of personnel during earthwork operations. In event the Contractor's plan does not conform with the shoring system requirements of Article 6, the Contractor's proposed shoring design shall be prepared and signed by a civil or structural engineer registered in the State of California.

The Contractor shall also impose the foregoing requirements on all subcontractors involved and enforce compliance therewith.

The duties here set forth are nondelegable by Contractor who shall protect and defend District, its officers, agents and employees in connection therewith. See Subsection 8.02.

#### 5.02 CONTRACTOR'S RESPONSIBILITY

Contractor is under the absolute duty in fulfilling its contractual obligations hereunder to proceed, and cause its subcontractors to proceed, in a safe, workmanlike manner, with adequate safeguards for the protection of the public, the workmen and persons from time to time inspecting the work. If at any time Contractor finds any of its subcontractors are allowing work to proceed in an unsafe manner and contrary to the intent of these Contract Documents, Contractor shall immediately cause such action to stop and immediately take all action necessary to protect workmen, inspectors and the general public and cause the work to proceed in a safe manner.

Contractor shall protect and defend District, its officers, agents and employees in reference to acts or omissions contrary to the above. See particularly Subsection 8.02.

District may withhold funds otherwise due Contractor whenever, in its judgment, this subsection is not being complied with.

#### 5.03 CONTRACTOR'S RESPONSIBILITY FOR WORK

Until the formal acceptance of the work by the District, the Contractor shall have the charge and care thereof and shall bear the risk of injury or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the nonexecution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before its completion and acceptance and shall bear the expense thereof, except for such injuries or damages as are occasioned by acts of the Federal Government and the public enemy. In case of suspension of work from any cause whatever, the Contractor shall be responsible for all materials and shall properly store them if necessary and shall erect temporary structures where necessary.

#### 5.04 PROPERTY RIGHTS IN MATERIALS

Nothing in the contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the work or the soil. All such materials shall become the property of the District upon being so attached or affixed.



#### 5.05 PERMITS AND LICENSES

The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work.

#### 5.06 ROYALTIES AND PATENTS

The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated on the work, and agrees to indemnify and save harmless the Riverside County Flood Control District, the Board of Supervisors, the Flood Control Engineer, and their duly authorized representatives, from all suits at law, or actions of every nature for, or on account of, the use of any patented materials, equipment, devices, or processes.

#### 5.07 SANITARY PROVISIONS

Necessary conveniences, properly secluded from public observation shall be provided by the Contractor where needed for the use of laborers on the work. Their location, construction and maintenance shall be subject to the approval of the Engineer, and their use shall be strictly enforced. The Contractor shall obey and enforce such sanitary regulations as may be prescribed by the State Department of Health or other authorities having jurisdiction.

#### 5.08 PUBLIC SAFETY

The Contractor at his own expense shall furnish, erect, and maintain such fences, barriers, lights, and signs as are necessary to give adequate warning to the public at all times that the bridges, culverts, and work along public highways are under construction; and of any dangerous conditions to be encountered as a result thereof; and he shall erect such warning and directional signs and employ such flagmen as are required and maintain same throughout the construction period.

Full compensation for the work involved in carrying out the precautionary measures above specified shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor.

#### 5.09 USE OF EXPLOSIVES

When the use of explosives is necessary for the prosecution of the work, the Contractor shall use the utmost care not to endanger life or property.

All explosives shall be stored in accordance with the provisions of Division II, Part I, Chapter 3, of the Health and Safety Code of the State of California.

#### 5.10 PROVISIONS FOR EMERGENCIES

Unusual conditions may arise on the work which will require that immediate and unusual provisions be made to protect the public from danger or loss or damage to life and property, due directly or indirectly to the prosecution of the work, and it is part of the service required of the Contractor to make such provisions and to furnish such protection.

The Contractor shall use such foresight and shall take such steps and precautions as his operations make necessary to protect the public from danger or damage, or loss of life or property, which would result from the interruption or contamination of public water supply, irrigation or other public service, or from the failure of partly completed work.

Whenever work is undertaken pursuant to the above provisions, Contractor shall promptly file with District a verified report setting forth the nature of the emergency and the action taken by the Contractor by reason of the emergency.

Whenever, in the opinion of the Engineer, an emergency exists against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of utilities or of adjacent structures or property which may be injured by process of construction on account of such neglect; and whenever, in the opinion of the Engineer, immediate action shall be considered necessary in order to protect public or private, personal or real property interests, or prevent likely loss of human life or damage on account of the operations under the contract, then and in that event the Engineer may provide suitable protection to said interests by causing such work to be done and material to be furnished as, in the opinion of the Engineer, may seem reasonable and necessary.

The cost and expense of all such emergency work shall be borne by the Contractor, and if he shall not pay said cost and expense upon presentation of the bills therefor, duly certified by the Engineer, then said cost and expense will be paid by the District and shall thereafter be deducted from any amounts due, or which may become due said Contractor. Failure of the District, however, to take such precautionary measures, shall not relieve the Contractor of his full responsibility for public safety.

#### 5.11 UNFORESEEN DIFFICULTIES

All loss or damages, except as noted in Section 8.03, arising out of the nature of the work to be done under the contract, or from any unforeseen obstructions or difficulties which may be encountered during the progress of the work and in the prosecution of the same, or from the action of the elements, or from encumbrances in the line of work, shall be sustained by the Contractor.

#### 5.12 ACCESS TO THE WORK

Access to the work from existing roads shall be provided by the Contractor at his expense and maintained in a manner so as not to create a public nuisance. The Board of Supervisors, Flood Control District and Engineer assume no responsibility for the condition or maintenance of any existing road or structure thereon that may be used by the Contractor for performing the work under these specifications and for traveling to and from the site of the work. No direct payment will be made to the Contractor for constructing temporary roads used for construction operations or for improving, repairing, or maintaining any existing road or structure thereon that may be used by the Contractor for performance of the work under these specifications. The cost of all work described in this paragraph shall be included in the prices bid in the schedule for other items of construction work.

### 5.13 GUARANTEE OF WORK

All work is guaranteed by Contractor for a period of one year from the recordation of the Notice of Completion against defects resulting from the use of inferior materials, equipment, or workmanship. Upon notice from District, Contractor shall promptly remedy such defects at his expense, including payment to District of its expenses in connection with remedying such defects, otherwise District shall proceed to remedy such defects and Contractor shall upon demand reimburse District for its expenses in connection therewith.

The above one year guarantee is in addition to any specific guarantee(s) provided for elsewhere in the Contract Documents.

### 5.14 DAMAGES BY ACT OF GOD

If the construction of the project herein is damaged, which damage is determined to have been proximately cause by an act of God, in excess of 5% of the contract amount, provided that the work damaged is built in accordance with applicable building standards and the plans and specifications, then the District, may, without prejudice to any other right or remedy, terminate the contract.

## SECTION VI - PROSECUTION AND PROGRESS

### 6.01 PROGRESS OF THE WORK

The Contractor shall begin the work within ten (10) calendar days after the date of the receipt by him of notice to proceed from the Chief Engineer and shall diligently prosecute the same to completion within the time limit provided in the Special Provisions.

### 6.02 OVERTIME WORK AND WORK AT NIGHT

It is intended that the Contractor prosecute the work on a five (5) day, forty (40) hour work week with no work on legal holidays. If the Contractor feels it is necessary to work more than the normal 40 hour work week, he will make a written request for permission from the Engineer, outlining the reasons for such request. The decision of granting permission for overtime work shall be made by the Engineer and shall be final. A condition will be imposed on the granting of a request to work overtime, requiring the Contractor to pay the District the cost incurred at overtime rates for additional inspection and engineering time required in connection with the overtime work.

When any work is performed at night, only such classes of work shall be done as can be properly inspected. Adequate light must be provided for the safety of the men and for proper inspection.

### 6.03 SUBCONTRACTING

Reference is made to the Subletting and Subcontracting Fair Practice Act contained in the Public Contract Code (commencing §4100). By this reference, said Act is incorporated herein with like effect as if it were here set forth in full and the parties shall abide by its terms and substitution shall be only as allowed by that Act.

Contractor shall be responsible for the acts and omissions of its subcontractors and shall make certain that at all times its subcontractors comply with the terms of the Contract Documents and applicable law insofar as such compliance relates to the work.

District reserves the right to approve all subcontractors whether or not they are required to be listed in the Contractor's Proposal. As used in this Section "subcontractor" includes any person who fabricates or manufactures any article for incorporation into the work whether or not they install or test after installation or contract to install or test after installation, but does not include suppliers of fungible goods for incorporation into the work unless such supplier also installs or tests or contracts to install or test.

The Contractor shall give his personal attention to the fulfillment of the contract and shall keep the work under his control. The Contractor shall perform with his own organization work of a value amounting to not less than 60 percent of the remainder obtained by subtracting from the total original contract value the sum of any item designated herein or in the Special Provisions as Specialty Items. The furnishing and placing of reinforcing steel, when placing is performed by the supplier, will be considered as a Specialty Item for this purpose; however, he shall be designated in the list of subcontractors. The value of the work subcontracted will be based on the contract item bid price. When a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated percentage of the Contract Unit Price. This will be determined from information submitted by the Contractor, and subject to approval by the Engineer.

Where a portion of the work which has been subcontracted by the Contractor is not being prosecuted in a manner satisfactory to the District, the subcontractor shall be removed immediately on the requisition of the Engineer and shall not again be employed on the work.

### 6.04 CHARACTER OF WORKMEN

If any subcontractor or person employed by the Contractor shall fail or refuse to carry out the directions of the Engineer or shall appear to the Engineer to be incompetent or to act in a disorderly or improper manner, he shall be discharged immediately on the requisition of the Engineer, and such person shall not again be employed on this work.

### 6.05 TEMPORARY SUSPENSION OF THE WORK

The Engineer shall have the authority to suspend the work wholly or in part, for such period as he may deem necessary, due to unsuitable weather, or to such other conditions as are

considered unfavorable for the suitable prosecution of the work, or for such time as he may deem necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer.

#### 6.06 TIME OF COMPLETION AND DAMAGES

The Contractor shall complete the work called for under the contract in all parts and requirements within the number of working days specified in the Special Provisions.

A working day is hereby defined as any day; except Saturdays, Sundays, and legal holidays and days on which the Contractor is specifically required by the Special Provisions to suspend construction operations; on which the Contractor is not prevented by inclement weather or conditions resulting immediately therefrom adverse to the current controlling operation or operations, as determined by the Engineer, from proceeding with at least 60 percent of the normal labor and equipment force engaged in such operation or operations for at least five hours toward completion of such operation or operations.

The Engineer will furnish the Contractor a weekly statement showing the number of working days charged to the contract for the preceding week, the number of working days specified for completion of the contract, and the number of working days remaining to complete the contract. The Contractor will be allowed one week in which to file a written protest setting forth in what respects said weekly statement is incorrect, otherwise the statement shall be deemed to have been accepted by the Contractor as correct.

The following holidays will be considered as legal holidays: New Year's Day; Martin Luther King Jr.'s Birthday, Lincoln's Birthday; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Columbus Day; Veteran's Day; Thanksgiving Day; Christmas; and such other days as are declared holidays by ordinance passed by the Board of Supervisors of Riverside County.

Contractor acknowledges that failure to perform in strict accordance with the Contract Documents and within the time limit specified in the Special Provisions will cause District to suffer special damages in addition to cost of completion of the work in accordance with the provisions of the Contract Documents. Such special damage could include, but is not limited to, lease and rental cost, additional salaries and overhead, interest during construction, attorney expense, additional engineering, inspection expense, cost of maintaining or constructing alternate facilities and injury to the property of the District or others. The daily cost to the District for inspection and superintendence by the District shall be the amount specified in the Special Provisions. The District may withhold from any money due or that may become due the Contractor under the contract, such amount as the District may elect to offset the damages incurred and any withholding or failure to withhold shall not in any way limit recovery for damages actually incurred.

It is further agreed that in case the work called for under the contract is not finished and completed in all parts and requirements within the time specified, the Board of Supervisors shall have the right to extend the time for completion or not, as may seem best to serve the interest of the District, and if it decides to extend the time limit for the completion of the contract, it shall further have the right to charge to the Contractor, his heirs, assigns or sureties and to deduct from the final payment for the work all or any part, as it may deem proper, of the actual cost of engineering, inspection, superintendence, and other overhead expenses which are directly chargeable to the contract, and which accrue during the period of such extension, except that cost of final surveys and preparation of final estimate shall not be included in such charges.

The Contractor shall not be assessed damages nor the cost of engineering and inspection during any delay in the completion of the work caused by acts of God or of the public enemy, acts of the District, encountering unknown utility facilities, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and severe weather or delays of subcontractors due to such causes, provided that the Contractor shall notify the Engineer in writing of the causes of delay within ten (10) days from the beginning of any such delay, and his findings of the facts thereon shall be final and conclusive. Contractor shall not be assessed damages for delay in the completion of the project, when such delay was caused by the failure of the District or the owner of the utility facilities.

The term "severe weather" shall be construed to mean only such weather as is unreasonable or extraordinary and in the opinion of the Engineer, the work could not be prosecuted by the Contractor during the period throughout which such weather prevailed.

#### 6.07 DELAYS AND EXTENSION OF TIME

If delays are caused by unforeseen causes beyond the control of either the Contractor or the District, such as war, strikes, fire, floods, or other action of the elements, such delays will entitle the Contractor to an equivalent extension of time for the completion of the contract, but the Contractor shall not be entitled to damages or additional payments over and above the contract price due to delay caused by any of the above-mentioned causes. Furthermore, if the Contractor suffers any delay caused by the failure of the District to furnish the necessary right of way or materials agreed to be furnished by it, or by failure to supply necessary plans or instructions concerning the work to be done after written request therefor has been made, the Contractor shall be entitled to an extension of time equivalent to the time lost for any of the above-mentioned reasons, but shall not be entitled to any damages for such delay.

#### 6.08 ASSIGNMENT

The contract may be assigned only upon written consent of the District. Such written consent to sublet, assign or otherwise dispose of any portion of the contract, shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the contract.

#### 6.09 TERMINATION OF CONTRACT

Subject to all applicable provisions of these specifications and/or the contract to be entered into hereunder, the Engineer is hereby empowered to direct the time and rate of delivery of materials at the site of work and to direct the time, rate and sequence of work. If the Contractor fails to begin delivery of material and equipment or to commence work within the

time specified herein, and/or in the contract, or to maintain the rates of delivery of materials, or to execute the work in the manner and at such locations as directed by the Engineer, or fails to maintain a program of work in such a manner as will, in the judgment of the Engineer inure to interests of the District, or, if in the judgment of the Engineer, the Contractor is not carrying out the provisions of the contract in their true intent and meaning, written notice by the Chief Engineer may be served upon him and the Surety on his faithful performance bond demanding a satisfactory compliance with the contract, and with these specifications. If the Contractor and/or his Surety refuses or neglects to comply with such notice within five (5) days after receiving same, or after commencing so to do, fails to continue so to do, or has assigned or sublet the contract without the consent of the District, then the District may exclude him from the premises and take possession thereof, together with all material and equipment thereon, and may complete the work itself, either by force account or by letting the unfinished portion of the work to another Contractor or by a combination of such methods. In any event, the cost of the completion of said work shall be a charge against the Contractor and his Surety and may be deducted from any money due or becoming due from the District, and if the sums due under the contract are insufficient, said Contractor and/or his Surety shall pay to the District within five (5) days after the completion of the work all of such cost in excess of the contract price.

The Surety, in the event that it assumes part of the work, shall take the Contractor's place in this contract in all respects for that part and shall be paid by the District for all work performed by it in accordance with the terms of this contract. If the Surety assumes the entire contract, all monies remaining due the Contractor at the time of his default shall be made payable to the Surety as the work progresses, subject to the terms of the contract.

## SECTION VII - PAYMENT

### 7.01 SCOPE OF PAYMENTS

The Contractor shall accept compensation, as herein provided, in full payment for furnishing all materials, labor, tools, and equipment necessary to the completed work and for performing all work contemplated and embraced under the contract; also for loss or damage arising from the nature of the work, or from the action of the elements, except as hereinbefore provided, or from any unforeseen difficulties which may be encountered during the prosecution of the work until the final acceptance by the Board of Supervisors; and for all risks of description connected with the prosecution of the work, also for all expenses incurred in consequence of the suspension or discontinuance of the work as herein specified; and for completing the work according to the plans and specifications. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective work or material.

7.01A Measurement and Computation of Quantities - All items of the work to be paid for at a contract price per unit of measurement will be measured by the Engineer in accordance with United States Standard Measures. A ton shall mean 2,000 pounds, avoirdupois. Except as otherwise expressly provided in the specifications, the methods of measurement and computation of quantities of such items will be determined by the Engineer, taking into account the price of the item relative to its quantity and the costs of measurement.

The weights of metalwork, pipe, and other metal parts to be paid for by weight will be determined by the Engineer on the basis of handbook weights, scale weights, or manufacturer's

catalog weights, or in the absence of any of the foregoing, on the basis of estimated weights; provided, that weights of nonmetallic coatings will be excluded.

7.01B Payment at Contract Prices - The contract price for an item of the work shall include full compensation for all costs of that item, including the costs of any work, materials and equipment incidental to the item but not specifically shown or described in the drawings and specifications, subject only to such express limitations as may be stated in the specifications defining the item or prescribing payment therefor.

The contract prices shall include full compensation for all costs of any work, materials, and equipment required by the drawings and specifications at the time of contract award, but not covered by a contract price or otherwise expressly made the subject of direct payment.

7.02 PAYMENT AND COMPENSATION FOR ALTERED QUANTITIES

When alterations in plans or quantities of work are ordered and performed, the Contractor shall accept payment in full at the contract unit price for the actual quantities of work done and no allowance will be made for anticipated profits. Increased or decreased work involving supplemental agreements will be paid for as stipulated in such agreements.

7.03 FORCE ACCOUNT PAYMENT

When extra work is to be paid for on a force account basis, compensation will be determined as follows:

7.03A Work Performed by Contractor - The Contractor will be paid for labor, materials, and equipment rental as hereinafter provided, except where agreement has been reached to pay in accordance with Section 7.03B. Only materials incorporated in the work will be paid for.

To the total computed as provided in Sections 7.03A(1), 7.03A(2) and 7.03A(3) will be added the following percentages:

Labor	-	24 percent
Materials	-	15 percent
Equipment Rental	-	15 percent

It is understood labor, materials, and equipment may be furnished by the Contractor or by the subcontractor or by others on behalf of the Contractor.

When extra work paid for on a force account basis is performed by forces other than the Contractor's organization, the Contractor shall reach agreement with such other forces as to the distribution of the payment made by the District for such work and no additional payment therefor will be made by the District.



7.03A(1) Labor - The Contractor will be paid the cost of labor for the workmen (including foremen when authorized by the Engineer), used in the actual and direct performance of the work. The cost of labor, whether the employer is the Contractor, subcontractor, or other forces, will be the sum of the following:

7.03A(1a) Actual Wages - The actual wages paid will be as published by the Director of Industrial Relations of the State of California for the region where work is performed and that are in effect at the time of award of the contract. The classification of workmen used shall not be in excess of the industry standard for the region where work is performed. Copies of the published labor rates are on file at the District office.

7.03A(1b) Labor Surcharge - To the actual wages as defined in Section 7.03A(1a), will be added a labor surcharge set forth in the Special Provisions, which labor surcharge shall constitute full compensation for all payments imposed by State and Federal laws and for all other payments made to, or on behalf of, the workmen, other than actual wages as defined in Section 7.03A(1a) and subsistence and travel allowance as specified in Section 7.03A(1c).

7.03A(1c) Subsistence and travel allowance paid to such workmen as required by collective bargaining agreements.

7.03A(2) Materials - The cost of materials incorporated in the work will be the cost to the purchaser, whether Contractor, subcontractor or other forces, from the supplier thereof, except as the following are applicable:

7.03A(2a) If a cash or trade discount by the actual supplier is offered or available to the purchaser, it shall be credited to the District notwithstanding the fact that such discount may not have been taken.

7.03A(2b) If the materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier as determined by the Engineer. No markup except for actual costs incurred in the handling of such materials will be permitted.

7.03A(2c) If the materials are obtained from a supply or source owned wholly or in part by the purchaser, payment therefor will not exceed the price paid by the purchaser for similar materials furnished from said source on contract items or on the current wholesale price for such materials delivered to the job site whichever price is lower.

7.03A(2d) If the cost of such materials is, in the opinion of the Engineer, excessive, then the cost of such materials shall be deemed to be the lowest current wholesale price at which such materials are available in the quantities concerned delivered to the job site, less any discounts as provided in Section 7.03(2a).

7.03A(2e) If the Contractor does not furnish satisfactory evidence of the cost of such materials from the actual supplier thereof, the cost shall then be determined in accordance with Section 7.03A(2d).

The District reserves the right to furnish such materials as it deems advisable, and the Contractor shall have no claims for costs and profit on such materials.

7.03A(3) Equipment Rental - The Contractor will be paid for the use of equipment at the rental rates listed for such equipment in the Special Provisions, regardless of ownership and any rental or other agreement, if such may exist, for the use of such equipment entered into by the Contractor. If it is deemed necessary by the Engineer to use equipment not listed in the Special Provisions, a suitable rental rate for such equipment will be established by the Engineer. The Contractor may furnish any cost data which might assist the Engineer in the establishment of such rental rate.

The rental rates paid as above provided shall include the cost of fuel, oil, lubrication, supplies, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

Operators of rented equipment will be paid for as provided under Section 7.03A(1).

All equipment shall, in the opinion of the Engineer, be in good working condition and suitable for the purpose for which the equipment is to be used.

Unless otherwise specified, manufacturer's ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment which has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

Individual pieces of equipment or tools having a replacement value of \$25.00 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefor.

Rental time will not be allowed while equipment is inoperative due to breakdowns.

In computing the rental time of equipment, less than 30 minutes shall be considered ½ hour.

7.03A(3a) Equipment on the Work - The rental time to be paid for equipment on the work shall be the time the equipment is in operation on the extra work being performed, and in addition, shall include the time required to move the equipment to location of the extra work and return it to the original location or to another location requiring no more time than that required to return it to its original location, except that moving time will not be paid for if the equipment is used at the site of the extra work on other than such extra work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made if the equipment is used at the site of the extra work on other than such extra work.

7.03A(3b) Equipment not on the Work - For the use of equipment moved in on the work and used exclusively for extra work paid for on a force account basis, the Contractor will be paid the rental rates listed in the Special Provisions or as agreed to as provided

in Section 7.03A(3) and for the cost of transporting the equipment to the location of the work and its return to its original location, all in accordance with the following provisions:

- (1) The original location of the equipment to be hauled to the location of the work shall be agreed to by the Engineer in advance.
- (2) The District will pay the costs of loading and unloading such equipment.
- (3) The cost of transporting equipment on low bed trailers shall not exceed the hourly rates charged by established haulers.
- (4) The cost of transporting equipment shall not exceed the applicable minimum established rates of the Public Utilities Commission.
- (5) The rental period shall begin at the time the equipment is unloaded at the site of the extra work, shall include each day that the equipment is at the site of the extra work, excluding Saturdays, Sundays, and legal holidays unless the extra work is performed on such days, and shall terminate at the end of the day on which the Engineer directs the Contractor to discontinue the use of such equipment. The rental time to be paid per day will be in accordance with the following:

<u>Hours Equipment is in Operation</u>	<u>Hours to be Paid</u>
0.....	4
0.5.....	4.25
1.....	4.5
1.5.....	4.75
2.....	5
2.5.....	5.25
3.....	5.5
3.5.....	5.75
4.....	6
4.5.....	6.25
5.....	6.5
5.5.....	6.75
6.....	7
6.5.....	7.25
7.....	7.5
7.5.....	7.75
8.....	8
Over 8.....	hours in operation

When hourly rates are listed, less than 30 minutes of operation shall be considered to be 1/2 hour of operation.

When daily rates are listed, payment for 1/2 day will be made if the equipment is not used. If the equipment is used, payment will be made for one day.

The minimum rental time to be paid for the entire rental period on an hourly basis shall not be less than 8 hours or if on a daily basis shall not be less than one day.

(6) Should the Contractor desire the return of the equipment to a location other than its original location, the District will pay the cost of transportation in accordance with the above provisions, provided such payment shall not exceed the cost of moving the equipment to the work.

(7) Payment for transporting, loading and unloading equipment, as above provided, will not be made if the equipment is used on the work in any other way than upon extra work paid for on a force account basis.

7.03B Work Performed by Special Forces or Other Special Services - When the Engineer and the Contractor, by agreement, determine that a special service or an item of extra work cannot be performed by the forces of the Contractor or those of any of his subcontractors, such service or extra work item may be performed by a specialist. Invoices for such service or item of extra work on the basis of the current market price thereof may be accepted without complete itemization of labor, material, and equipment rental costs when it is impracticable and not in accordance with the established practice of the special service industry to provide such complete itemization. In those instances wherein a Contractor is required to perform extra work necessitating a fabrication or machining process in a fabrication or machine shop facility away from the job site, the charges for that portion of the extra work performed in such facility may, by agreement, be accepted as a specialist billing.

To the specialist invoice price, less a credit to the District for any cash or trade discount offered or available, whether or not such discount may have been taken, will be added 15 percent in lieu of the percentages provided in Section 7.03A.

7.03C Records - The Contractor shall maintain his records in such a manner as to provide a clear distinction between the direct costs of extra work paid for on a force account basis and the costs of other operations.

The Contractor shall furnish the Engineer report sheets in duplicate of each day's extra work paid for on a force account basis no later than the working day following the performance of said work. The daily report sheets shall itemize the materials used, and shall cover the direct cost of labor and the charges for equipment rental, whether furnished by the Contractor, subcontractor, or other forces, except for charges described in Section 7.03B. The daily report sheets shall provide names or identifications and classifications of workmen, the hourly rate of pay and hours worked, and also the size, type and identification number of equipment, and hours operated.

Material charges shall be substantiated by valid copies of vendor's invoices. Such invoices shall be submitted with the daily report sheets, or if not available, they shall be submitted with subsequent daily report sheets. Should said vendor's invoices not be submitted within 15 days after acceptance of the work, the District reserves the right to establish the cost of such materials at the lowest current wholesale prices at which said materials are available in the quantities concerned delivered to the location of the work, less any discounts provided in Section 7.03A(2a).

Said daily report sheets shall be signed by the Contractor or his authorized agent.

The Engineer will compare his records with the daily report sheets furnished by the Contractor, make any necessary adjustments, and compile the costs of work paid for on a force account basis on daily extra work report forms furnished by the District. When these daily extra work reports are agreed upon and signed by both parties, they shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit.

The Contractor's cost records pertaining to work paid for on a force account basis shall be open to inspection or audit by representatives of the District, during the life of the contract and for a period of not less than 18 months after the date of acceptance thereof, and the Contractor shall retain such records for that period. Where payment for materials or labor is based on the cost thereof to forces other than the Contractor, the Contractor expressly guarantees that the cost records of such other forces shall be open to inspection and audit by representatives of the District on the same terms and conditions as the cost records of the Contractor. If an audit is to be commenced more than 60 days after the acceptance date of the contract, the Contractor will be given a reasonable notice of the time when such audit is to begin.

7.03D - Payment as provided above in Sections 7.03A and 7.03B shall constitute full compensation to the Contractor for performance of work paid for on a force account basis and no additional compensation will be allowed therefor.

#### 7.04 ACCEPTANCE

The work shall be inspected for acceptance by the Engineer promptly upon receipt of notice in writing from the Contractor that the work is ready for such inspection.

The structures will not be finally accepted until the completion of the entire work under the contract.

#### 7.05 DEDUCTIONS FROM PAYMENTS

The Riverside County Flood Control and Water Conservation District, by and through the Board of Supervisors or other appropriate District officer or officers, may at its option and at any time retain out of any amounts due the Contractor sums sufficient to cover any unpaid claims, provided that sworn statements of said claims shall have been filed in the office of the District or in the office of any other District officer or officers having jurisdiction thereover.

#### 7.06 PARTIAL PAYMENTS

On or about the last day of each month, the Engineer shall make an estimate in writing of the total amount of work done by the Contractor to the time of such estimate and the value thereof. The District shall retain 10 percent (10%) of such estimated value of the work done as part security for the fulfillment of the contract by the Contractor, except that at any time after 50 percent (50%) of the work has been completed, if the District finds that satisfactory progress is being made, the District may make any of the remaining progress payments in full for actual work completed during such estimate period or may withhold any amount up to 10 percent (10%) thereof as the District may find appropriate based on the Contractor's progress. At no

time shall the amount retained by the District be less than 5 percent (5%) of the total value of the work completed at the time such payments are made.

After deducting all previous payments and all sums to be kept or retained under the provisions of the contract, the District shall make monthly progress payments to the Contractor. No such estimate or payment shall be required to be made when, in the judgment of the Chief Engineer, the work is not proceeding in accordance with the provisions of the contract.

In accordance with Public Contract Code Section 22300 and other applicable law, the Contractor may substitute securities for any monies withheld to ensure performance under the contract. Such substitution shall be made only upon a separate agreement between the District and the Contractor which contains terms and conditions in compliance with all laws applicable to monies withheld under the contract.

#### 7.07 DELAYED PAYMENTS

All the monies due the Contractor under the contract will be paid by demand on the Treasurer of the District, prepared and approved as required by law, and it is understood that any delay in the preparation, approval and payment of these demands will not constitute a breach of contract on the part of the District.

#### 7.08 FINAL PAYMENT

The Engineer, after the completion of the contract, shall make a final estimate in writing to the Board of Supervisors of the amount of work done thereunder, and the value of such work, and the District shall pay the entire sum so found to be due after deducting therefrom all previous payments and all amounts to be kept and all amounts to be retained under the provisions of the contract. All prior partial estimates and payment shall be subject to correction in the final estimate and payment. The final payment shall not be due and payable until the expiration of forty-five (45) days from the date of acceptance of the work by the Board of Supervisors.

It is mutually agreed between the parties to the contract that no certificate given or payments made under the contract, except the final payment, shall be conclusive evidence of the performance of the contract, either wholly or in part against any claim of the party of the first part, and no payment shall be construed to be an acceptance of any defective work or improper materials.

And the Contractor further agrees that the payment of the final amount due under the contract, and the adjustment and payment for any work done in accordance with any alterations of the same, shall release the Riverside County Flood Control and Water Conservation District, the Board of Supervisors, and the Engineer from any and all claims or liability on account of work performed under the contract or any alteration thereof.

#### 7.09 CLAIMS RESOLUTION

In accordance with Public Contract Code Section 20104 - 20104.6 and other applicable law, public works claims of \$375,000 or less which arise between the Contractor and the District shall be resolved following the statutory procedure unless the District has elected to resolve the dispute pursuant to Public Contract Code § 10240 et seq.

1. All claims shall be submitted in writing and accompanied by substantiating documentation. Claims must be filed on or before the date of final payment unless other notice requirements are provided in the contract. "Claim" means a separate demand by the claimant for (1) a time extension, (2) payment of money or damages arising from work done by or on behalf of the claimant and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled, or (3) an amount the payment of which is disputed by the District.

(a) Claims under \$50,000. The District shall respond in writing to the claim within 45 days of receipt of the claim, or, the District may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the District may have. If additional information is needed thereafter, it shall be provided upon mutual agreement of the District and the claimant. The District's written response shall be submitted 15 days after receiving the additional documentation, or within the same period of time taken by the claimant to produce the additional information, whichever is greater.

(b) Claims over \$50,000 but less than or equal to \$375,000. The District shall respond in writing within 60 days of receipt, or, may request in writing within 30 days of receipt of the claim, any additional documents supporting the claim or relating to defenses or claims the District may have against the claimant. If additional information is needed thereafter, it shall be provided pursuant to mutual agreement between the District and the claimant. The District's response shall be submitted within 30 days after receipt of the further documents, or within the same period of time taken by the claimant to produce the additional information or documents, whichever is greater.

2. If the claimant disputes the District's response, or if the District fails to respond within the statutory time period, the claimant may so notify the District within 15 days of the receipt of the response or the failure to respond, and demand an informal conference to meet and confer for settlement. Upon such demand, the District shall schedule a meet and confer conference within 30 days.

3. If following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Government Code § 900 et seq. and Government Code § 910 et seq. For purposes of those provisions, the time within which a claim must be filed shall be tolled from the time the claimant submits the written claim until the time the claim is denied, including any time utilized for the meet and confer conference.

4. If a civil action is filed to resolve any claim, the provisions of Public Contract Code § 20104.4 shall be followed, providing for nonbinding mediation and judicial arbitration.

## SECTION VIII - GENERAL

### 8.01 COOPERATION BETWEEN CONTRACTORS

The Contractor shall be required to cooperate fully with all utility and public agency representatives engaged in construction, relocation, altering or otherwise rearranging any facilities interfering with the progress of the work.

Full compensation for any delay or inconvenience to the Contractor's operation due to such operations as described above shall be considered included in the unit price paid for other items of work and no additional allowance will be made therefor.

### 8.02 INSURANCE - HOLD HARMLESS

Contractor shall not commence work under this contract until he has obtained the insurance required hereunder and satisfactory proof of said insurance has been submitted to District and has been approved as to form by Riverside County Counsel.

Compensation Insurance - Contractor shall procure and maintain during the life of the contract Workers' Compensation Insurance as required by the State of California. Contractor shall further require each of its subcontractors to procure Workers' Compensation Insurance as required by the State while working on the project.

Liability Insurance - Contractor shall take out and maintain during the course of the work combined single limit liability insurance covering bodily injury and property damage insurance and blanket contractual coverage as to the work and obligations covered hereunder in an amount not less than \$2,000,000, or the equivalent thereof. Said insurance must contain an endorsement that District, County of Riverside, and any municipal corporation in which the work is to be accomplished, are named as an additional insured as respects the work covered hereunder. Said insurance must not contain, as respects the work covered hereunder, any exclusions as to bodily injury or death or property damage arising out of blasting, explosion, or underground damage to wire, pipes, conduits, mains, sewers, tank tunnels or any similar property, i.e., the so-called "x c u" exclusions. The insurance certificate evidencing such insurance must affirmatively state that the insurance carrier(s) will give Owner thirty (30) days written notice prior to cancellation of the insurance or a reduction in coverage; must state that the "x c u" exclusions are waived or do not exist in the policy(s); and that District, County of Riverside, and any municipal corporation in which the work is to be accomplished, are named as an additional insured as respects the work covered hereunder.

In the alternate to naming Owner and County of Riverside, and any municipal corporation in which the work is to be accomplished, as additional insured, Contractor may take out and maintain during the course of the work and until acceptance by Owner, Owner's Protective Liability Insurance amount not less than \$2,000,000 covering District, County of Riverside, and any municipal corporation in which the work is to be accomplished.



The cost of this insurance shall be included in the prices bid for the various items of work and no additional compensation will be made therefor.

Hold Harmless - Contractor shall hold District, County of Riverside and any municipal corporation in which the work is to be accomplished, together with the officers, agents and employees of each, free and harmless from any liability whatsoever, including wrongful death, based or asserted upon any act or omission of Contractor, its officers, agents, employees or subcontractors, relating to or in any way connected with or arising from the accomplishment of the work, whether or not in furtherance of the work; and Contractor agrees to protect and defend, including all attorney fees and other expenses, each of the foregoing bodies and persons in any legal action based or asserted upon any such acts or omissions.

Obligations - The obligations assumed by Contractor cover all obligations set forth in this Subsection and elsewhere in the Contract Documents, such as Subsections 5.01, 5.02, 5.05, 5.06, 5.08, 5.09, 5.10, 10.01, and 10.02.

### 8.03 PUBLIC UTILITIES

The locations of all pipelines, power lines, communication lines and other utility components known to District to exist within the limits of the work, are indicated on the drawings and may be the subject of a specific Special Provision(s). Size, location and characteristics of such utilities is based upon information made available to District - primarily from the owner of the utility in question. The exactness of such information is not guaranteed but may be assumed to have been accomplished with reasonable accuracy.

In addition to the drawings and any such provision regarding utilities, Contractor is under a duty to take into account the location of service laterals or other appurtenances which can be inferred from the presence of facilities such as buildings, meters and junction boxes in or about the limits of the work.

Unless otherwise directed by the Contract Documents, all existing utilities - where shown or described or not - shall be left in place and Contractor must conduct its operations so that such utilities are protected from damage at all times during the course of the work and the work must be accomplished so as to give such utilities proper protection and support upon completion of the work by Contractor.

If during the course of the work, Contractor discovers underground utility components not indicated in the drawings, the Special Provisions or elsewhere in the Contract Documents, Contractor must immediately notify, in writing, the Engineer and the utility company (public or private) involved, stating with exactness the condition found.

When Contractor encounters a utility not shown or described in the Contract Documents, Contractor shall cease all work which would disturb such utility and its support until given specific instructions as to how to proceed regarding such utility by Engineer. All work done by Contractor to protect existing utilities shown or described in the Contract Documents, or which can be reasonably inferred from the presence of other visible facilities, is at Contractor's expense, the cost of which is deemed included in Contractor's Proposal to do the work.

Contractor's cost of locating, repairing damage not due to the failure of Contractor to exercise reasonable care, and removing or relocating utility components and facilities not indicated in the drawings, specifications or elsewhere in the Contract Documents with reasonable accuracy, shall be paid Contractor as Extra Work as provided in Subsection 2.07 and Subsection 7.03 of the General Provisions. Compensation for idle time of equipment shall be paid as provided in Section 8-1.09, "Right of Way Delays", of the State Standard Specifications. No surcharge rates for equipment will be applied for idled equipment.

District may direct the Contractor to do such repair or relocation work as required. When such repair or relocation work is not elsewhere provided for in these Contract Documents, or reasonably inferred therefrom, a requirement of District that Contractor perform such work shall be compensated for as Extra Work pursuant to Subsections 2.07 and 7.03 of these General Provisions.

Contractor shall not be assessed liquidated damages for delay in completion of the project, if such delay is caused by failure of District, or the owner of the utility in question, to provide for removal or relocation of the utility involved.

#### 8.04 PROTECTION OF EXISTING STREET FACILITIES

The Contractor shall be responsible for the protection of existing signs, fences, concrete curbs, gutters and other facilities which may be encountered. The replacement or repair of any facilities which the District deems necessary as a result of the Contractor's operations shall be done by the Contractor at his own expense and to the satisfaction of the Engineer.

Excavation within the street right of way shall be conducted in a manner to cause the least interruption to traffic. Where traffic must cross open trenches, the Contractor shall provide suitable bridges at street intersections and driveways. Hydrants under pressure, valve pipe covers, valve boxes, curb stop boxes, fire or police call boxes, or other utility controls shall be left unobstructed and accessible during construction.

#### 8.05 DIVERSION AND CONTROL OF WATER

Unless otherwise provided in the Proposal, no separate payment will be made for diversion and control of surface or groundwater. All costs incidental to maintaining dry working areas shall be included in the unit prices paid for other items of work in the schedule.

#### 8.06 DUST ABATEMENT

During the performance of all work included in the contract, the Contractor shall take the necessary precautions to save the District free and harmless from any loss or damage resulting from his operations that raise or produce dust in such amounts that will be objectionable, and/or cause damage to adjacent property or property owners.

The Contractor will be required to have a positive and continuous method of dust control which is satisfactory to the Engineer. The methods to be used for controlling dust in the

construction area and along haul roads shall be approved by the Engineer prior to starting any of the work included in the contract. All costs incidental to dust control shall be included in the unit prices paid for other items of work in the schedule.

#### 8.07 PROJECT SIGNS

The Contractor shall erect project signs at the locations designated by the Engineer.

No separate payment will be made for erecting the project signs and all costs in connection therewith will be considered a subsidiary obligation of the Contractor.

#### 8.08 EXAMINATION OF PLANS, SPECIFICATIONS, CONTRACT, AND SITE OF WORK

The bidder shall examine carefully the site of the work contemplated, the plans and specifications, and the proposal and contract forms therefor. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work to be performed, the quantities of materials to be furnished, and as to the requirements of the proposal, plans, specifications, and the contract.

Where the District has made investigations of subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, such investigations are made only for the purpose of study and design. Where such investigations have been made, bidders or Contractors may, upon request, inspect the records of the District as to such investigations subject to and upon the conditions hereinafter set forth. Such inspection of records may be made at the office of the District.

The records of such investigations are not a part of the contract and are shown solely for the convenience of the bidder or Contractor. It is expressly understood and agreed that the District assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the investigations thus made, the records thereof, or of the interpretations set forth therein or made by the District in its use thereof and there is no warranty or guarantee, either expressed or implied, that the conditions indicated by such investigations or records thereof are representative of those existing throughout such areas, or any part thereof, or that unlooked-for developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered.

When a log of test borings showing a record of the data obtained by the District's investigation or subsurface conditions is included with the contract plans, it is expressly understood and agreed that said log of test borings does not constitute a part of the contract, represents only the opinion of the District as to the character of the materials encountered by it in its test borings, is included in the plans only for the convenience of bidders and its use is subject to all of the conditions and limitations set forth in this Section 8.08.

No information derived from such inspection of records of investigations or compilation thereof made by the District or from the Engineer, or his assistants, will in any way relieve the bidder or Contractor from any risk or from properly fulfilling the terms of the contract.

## SECTION IX - WATERING

### 9.01 DESCRIPTION

This work shall consist of developing a water supply for all water required for the work. The application of the water shall be under the control of the Engineer at all times and shall be applied in the amounts and at the locations approved by the Engineer.

At least one mobile unit of at least 1,000-gallon capacity for applying water shall be available on the project at all times.

Water for compacting embankment material and for laying dust shall be applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses with nozzles that will ensure a uniform application of water.

No separate payment or additional allowances will be made for this work and all costs in connection therewith will be considered as included in other items in the schedule.

## SECTION X - PUBLIC CONVENIENCE, TRAFFIC CONTROL AND DETOURS

### 10.01 GENERAL

The Contractor shall so conduct his operations as to offer the least possible obstruction and inconvenience to the public and he shall have under construction no greater length or amount of work than he can prosecute properly with due regard to the rights of the public.

Unless otherwise provided in the Special Provisions, all public traffic shall be permitted to pass through the work with as little inconvenience and delay as possible.

Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately at the Contractor's expense.

Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners.

Convenient access to driveways, houses and buildings along the line of work shall be maintained and temporary approaches to crossings or intersecting highways shall be provided and kept in good condition.

### 10.02 SIGNS

It shall be the responsibility of the Contractor to provide and maintain all lights, barricades and signs, both on and off the site of work, as required by the Engineer, and all such devices shall be of a type approved by him.

If, in any case, the Engineer finds it necessary to replace, add to or erect said barricades, signs, or lights, when the Contractor fails to do so when informed, the Contractor shall be billed for all costs thereof including a daily rental fee for signs.

No separate payment, unless otherwise provided for under the Special Provisions, will be made for traffic control and detour signing and all costs incidental to these items shall be included in the unit prices paid for other items of work.

10.03 MATERIALS STORAGE

Storing or stockpiling of excavated material, imported backfill material or construction materials on any street or highway will not be permitted except as approved in writing by the Engineer.

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SPECIAL PROVISIONS  
AND  
DETAILED SPECIFICATIONS

## SPECIAL PROVISIONS

### SECTION 1 - GENERAL

1.1 Drawings and Specifications - These documents are for the construction of **Palm Canyon Wash, Stage 4 Levee Restoration, Stage 91**, located in the city of Palm Springs, Riverside County, California. This work shall conform with the contract drawings indexed on the cover sheet of the drawings included herewith.

Referenced standard drawings are available on the District web site.

The Contractor shall copy any of the referenced District standard drawings from <http://www.rcflood.org>.

The Contractor shall be responsible to obtain referenced standard plans/drawings of various agencies from their respective office or web site.

References made in these Special Provisions or Detailed Specifications to the "Standard Specifications" refer to the "Greenbook" Standard Specifications for Public Works Construction, current edition, including supplements. Standard Specifications of the American Society for Testing and Materials shall be designated by ASTM and the appropriate number of the standard. Unless otherwise specified, wherever the words "State Standard Specifications" are used in these Special Provisions or Detailed Specifications they shall mean the Standard Specifications of the State of California, Department of Transportation, current edition. Whenever the words "Caltrans Standards" are used they shall mean the Standard Plans of the State of California, Department of Transportation, 2006 edition.

In the event that discrepancies are encountered, the option that provides the method, item or material with the greatest strength or utility shall be chosen, as directed by the Engineer.

Requirements on the construction plans for Portland Cement Concrete are modified to the PCC Class designations, as described in Section 90-1.01 of the 2006 State Standard Specifications, as follows:

Class "A" shall mean Class "2"

Class "B" shall mean Class "3"

Class "C" shall mean Class "4"

Class "D" shall mean Class "1"

In case of conflict between the drawings and the specifications, the drawings shall govern; in case of conflict between the referenced specifications and these specifications, the latter shall govern.

SECTION 2 - TIME OF COMPLETION, DAMAGES AND  
LEGAL HOLIDAYS

2.1 General - The Contractor shall begin work within ten (10) calendar days after the date of receipt of Notice to Proceed from the Engineer and shall diligently prosecute the same to completion before the expiration of

TWENTY (20) WORKING DAYS

from the date of receipt of Notice to Proceed.

2.2 Damages - The Contractor and the District expressly agree that the cost to the District for inspection and superintendence of the work for this contract is \$800.00 per working day.

2.3 Legal Holidays - The Contractor will not be permitted to work on Legal Holidays (Reference Sections 6.02 and 6.06 of the General Provisions), except in cases of emergency as directed by the Engineer.

SECTION 3 - FORCE ACCOUNT PAYMENT

3.1 Labor Surcharge - Attention is directed to the provisions of Section VII, Article 7.03A (1b) of the General Provisions. The labor surcharge percentage to be applied to the actual wages paid as defined in Paragraph 7.03A (1a) will be twenty-four percent (24%).

3.2 Equipment Rental - Attention is directed to the provisions of Section VII, Article 7.03A (3) of the General Provisions. The equipment rental rates to be applied will be the rates published by the California Department of Transportation and in effect at the time of the award of the contract. A copy of said Equipment Rental Rates is on file at the District Office.

SECTION 4 - PROTECTION OF EXISTING UTILITIES

4.1 General - All existing underground utility lines, power poles and overhead wiring shall be protected in place at all times, except as noted otherwise on the plans. Any damage to utilities caused by the Contractor's operation shall be repaired or replaced at the Contractor's expense.

Prior to the commencement of any construction activities, the Contractor shall contact all utility companies and local municipalities servicing the project area to review as-built utility drawings and determine appropriate means of protecting utilities.

At the discretion of the Engineer, the Contractor may be required to verify, by potholing, the location of potentially affected utilities.

SECTION 5 - PROJECT SITE MAINTENANCE

Through all phases of construction, the Contractor shall comply with the provisions of Section 7-8 of the Standard Specifications. Before final acceptance of the work, the Contractor



shall clean the work and the site of the work of all falsework, temporary structures, other construction materials and equipment, excess materials and rubbish, and shall leave the work and the site in a neat and presentable condition. Such final cleanup work shall be performed within the time specified for completion of all of the work.

#### SECTION 6 - SPECIAL REQUIREMENTS

6.1 National Pollutant Discharge Elimination System (NPDES) – The Contractor shall comply with the requirements of Board Order No. R7-2008-0001 (NPDES No. CAS617002), NPDES Area-Wide Municipal Stormwater Permit, hereafter referred to in this Section as the "Permit", issued by the California Regional Water Quality Control Board (CRWQCB) – Colorado River Basin Region. This Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities. The Contractor shall prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) in accordance with Section 29 "Stormwater and Non-Stormwater Pollution Control" of the Detailed Specifications.

**The Contractor's attention is directed to: 1) Section 29.2 "General Requirements" which allows the Engineer to withhold progress payments if the Contractor fails to fully implement Section 29 "Stormwater and Non-Stormwater Pollution Control" or is deemed to be in non-compliance with the provisions of the Permit; 2) Section 29.3 "Stormwater Pollution Prevention Plan Preparation and Approval" which requires that a SWPPP be prepared and approved prior to the Pre-Construction meeting; and 3) Section 29.7 "SWPPP Implementation" which allows the Engineer to suspend construction operations if the Contractor fails to implement the approved SWPPP and any amendments thereto.**

6.2 Sanitation - Sewage flows shall not be interrupted. Should the Contractor disrupt existing sewer facilities, sewage shall be conveyed in closed conduits and disposed of in a sanitary sewer system. If pumping is required it shall be done at the expense of the Contractor. A backup pumping system with equal capacity shall be provided at all times. Sewage shall not be permitted to flow in trenches or be covered by backfill.

6.3 Heavy Equipment Working Hours - Heavy construction equipment will not be allowed to commence construction work until 7:00 a.m. each normal working day, unless otherwise approved by the Engineer.

6.4 Encroachment Permits – The Contractor is required to obtain an encroachment permit from the City of Palm Springs for work within City right of way. The City of Palm Springs will not require the Contractor to pay a fee for the encroachment permit. A copy of the encroachment permit shall be provided to the Engineer prior to commencement of work.

6.5 Business Access – The Contractor will be required to stage construction accordingly to provide secure access for golf course patrons to play through fairway. Contractor shall coordinate with Tahquitz Creek Golf Resort.

6.6 Toxic Material Disposal - Toxic materials including oil, fuel oil, gasoline, coolant, fluid filters and other contaminants shall not be discharged within the project site. All such materials shall be transported offsite and disposed of at a County approved facility.

6.7 Survey Crew - The Contractor shall notify the Engineer in writing at least 48 hours prior to new construction staking.

Survey Crews will be available Monday through Thursday from 7:00 a.m. to 3:30 p.m., with a half-hour off for lunch. If the Contractor requires the Survey Crew to work beyond the specified time mentioned above, it shall be considered as overtime and shall be paid by the Contractor at 1.5 times the Survey Crew's hourly rates.

6.8 Survey Monuments - The Contractor shall salvage and give to the District all survey monuments and wells removed during construction. The District will reset monuments after construction.

6.9 Job Trailer Site - The Contractor is not required to provide a site and install a trailer or office for District personnel.

6.10 Construction Tolerances – Variation in alignment, grade and dimensions of the structures and structural components from the established alignment, grade and dimensions shown on the drawings shall be within the tolerances specified in the following:

Table A – Tolerances for Grading Unlined Channels, Levees and Access Roads		
Departure from established alignment		2 inches on tangents 4 inches on curves
Departure from established profile grade	Channel bottoms, channel sideslopes in cut and fill, levee and access road sideslopes in cut	Zero <u>above</u> and 3 inches <u>below</u> the specified grade
	Top surfaces of levees and access roads in both cut and fill, levee and access road sideslopes in fill	Zero <u>below</u> and 3 inches <u>above</u> the specified grade

Regardless of the construction tolerances specified, the excavation and grading shall be performed so that the finished surfaces are in uniform planes with no abrupt breaks in the surface.

Gradual Variation tolerance shall be measured by placing a 10-foot straight edge anywhere on the finished concrete structure within 72 hours after concrete placement. The gap at any point between the straightedge and the concrete shall not exceed the specified amount.

Departure from established alignment		1 inch on tangents 2 inches on curves
Departure from established profile grade		1 inch
Inside dimensions		0.005 times specified dimension
Variation from the plumb or the specified batter in the lines and surfaces of walls, piers and in arises	Exposed, in 10 feet Backfilled, in 10 feet	½ inch 1 inch
Variation in cross-sectional dimensions		Minus ¼ inch Plus ½ inch
Variation in surfaces (gradual)	Invert Soffits, Walls, Sideslopes	¼ inch in 10 feet ½ inch in 10 feet
Variation in surfaces (abrupt)		¼ inch

6.11 Surplus Excavated Material - Any stockpiling, grading or disposal of material outside of the project limits is not covered under the District's permits and is the sole responsibility of the Contractor. Regulatory permits that may be required include, but are not limited to, Federal Clean Water Act (Sections 401 and 404), California Fish and Game Code (Section 1602) and Federal/State Endangered Species Acts. All costs to obtain these Regulatory Permits shall be borne by the Contractor.

6.12 Sewer Line Inspection - Prior to the commencement of construction, the Contractor is required to video record the sewer main crossing the project work area at approximate Station 29+60. Additionally, the Contractor shall video record the sewer main after the compacted fill has been completed. All costs associated with this requirement shall be included in the contract price bid for Clearing and Miscellaneous Work. The Contractor is required to replace and/or repair at his own expense, any sewers damaged or misaligned as a result of his construction activities.

6.13 Project Sign - Supplementing Section 8.07 of the General Provisions, the Contractor shall be required to provide a new project sign. The Contractor shall install and maintain the project sign at a location specified by the Engineer, with painting and lettering as shown in Appendix "B" of these Special Provisions. The sign shall be installed as directed by the Engineer within five (5) days after District issuance of the Notice to Proceed. Upon completion of construction, the sign shall be removed.

6.14 Liability Insurance - The Contractor's attention is directed to Section 8.02, Insurance Hold Harmless, of the General Provisions. The City of Palm Springs shall also be named as additional insured with the liability insurance coverage required to be maintained by the Contractor.

6.15 Accidental Discovery - In the event that any hazardous materials, historical, archaeological, or paleontological resources are accidentally discovered within project limits, the Contractor shall immediately cease all construction or ground disturbance activity in the vicinity

of find and notify the Engineer. District will provide the appropriate professional to assess the significance of the discovery and, if necessary, develop appropriate management and treatment measures. **The Contractor shall not resume construction in the affected area without Engineer's approval.**

Should any of the above mentioned discoveries result in delays to the Contractor's work schedule, the Contractor shall be entitled only to an equivalent extension of time for the completion of the contract, and shall not be entitled to damages due to down-time and idle equipment or additional payments over and above the agreed upon contract prices.

#### SECTION 7 - SOILS REPORT

In conjunction with the soils investigation report prepared by AMEC Geomatrix, Inc. dated June 2009 and May 2011, the Contractor's attention is directed to Article 8.08 of the General Provisions. The logs of the soil borings for this report are included for the convenience of the bidders, in conformance with Section 8.08 of the General Provisions, as Appendix "C" of these specifications. The soils report is on file in the District office, 1995 Market Street, Riverside and is available for review upon request.

#### SECTION 8 - NOT USED

#### SECTION 9 - PAYMENT

The contract prices shall include full compensation for all costs incurred under these Special Provisions and Detailed Specifications.

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## DETAILED SPECIFICATIONS

### SECTION 10 - MOBILIZATION

10.1 Description - The contract item Mobilization shall consist of expenditures for all preparatory work and operations, including but not limited to, those costs necessary for the movement of personnel, equipment, supplies and incidentals to the project site; for the establishment of all offices, buildings, construction yards and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site as well as the related demobilization costs anticipated at the completion of the project.

10.2 Payment - The amount credited for Mobilization on each monthly progress payment shall be equal to the total of the amounts credited for work on all the other contract items for that monthly progress payment, up to a cumulative limit of eighty percent (80%) of the lump sum price bid for Mobilization. The remaining twenty percent (20%) of the lump sum price bid for Mobilization will be paid with the final payment.

Payment of the lump sum contract price for Mobilization shall constitute full compensation for all labor, materials, equipment, and all other items necessary and incidental to completion of this item of work.

The deletion of work or the addition of extra work as provided for herein shall not affect the price paid for Mobilization.

### SECTION 11 - WATER CONTROL

11.1 Description - This section covers the contract item Water Control. Watersheds and/or urban runoff areas are tributary to the project site at various locations, but do not necessarily follow the alignment of the project under current conditions. Surface water in varying quantities can be expected at any time of the year, and substantial runoff can be expected during periods of rainfall. Groundwater was not indicated at the time of the soils investigation for this project. All bidders shall make their own determination regarding what the surface and/or groundwater conditions will be at the time of construction, and their impact on the bidder's operations and construction phasing.

11.2 Water Control - The contract item Water Control includes the control and/or diversion of surface runoff as well as groundwater within the work area as required to complete the work. All work shall be carried on in areas free of water. Care should be exercised so that runoff or diversion flows do not erode, undermine or otherwise damage either facilities which have been constructed or adjacent private properties. The responsibility for the protection of all existing and proposed improvements lies with the Contractor.

11.3 Measurement and Payment - The methods of controlling both surface and groundwater will be the responsibility of the Contractor. The contract lump sum price paid for Water Control shall include full compensation for all direct and indirect costs incurred under this section, and

for doing all the work involved in controlling surface runoff and groundwater within the construction area, as specified in these Detailed Specifications, and as directed by the Engineer.

Payment will be made on a basis of the percentage of the work completed on the entire project.

## SECTION 12 - TRAFFIC CONTROL

12.1 Description - The contract item Traffic Control shall include labor, flagmen, lights, barricades, signs, materials, temporary bridges and equipment necessary to ensure that the vehicular and pedestrian traffic conforms to requirements as set forth in this section.

12.2 Notification of Agencies - The Contractor shall notify the following agencies a minimum of 48 hours in advance of start of any street work and inform them of the proposed construction schedule and provide any additional pertinent information they may request:

City of Palm Springs Police Department	760.323.8116
City of Palm Springs Public Works	760.323.8253
Underground Service Alert	800.227.2600

The Contractor is not relieved of his responsibility of notifying the various departments and agencies mentioned above, even if their telephone numbers may have changed without notice.

The above agencies shall also be advised by the Contractor of any major change in the construction schedule that could restrict pedestrian or vehicular traffic.

12.3 Public Convenience and Access - The Contractor shall comply with the requirements of Section X of the General Provisions and shall provide continuous access to all private property. Additional provisions shall be made as necessary to protect the public and accommodate traffic with a minimum of inconvenience.

Closures or partial closures of the traveled way implemented by the Contractor shall be related to actual work being performed at the time. Closures shall not be maintained if work is not being performed. If the existing closure is not essential to the type of work being performed at the time, the traveled way shall immediately be restored to a safe condition for public use.

The Contractor shall provide temporary bridge crossings for all driveway entrances to be closed to vehicular access for any period exceeding 4 hours.

Temporary bridges shall have a minimum width of 12 feet for residential driveways and 24 feet for business driveways, and shall be designed for an AASHTO H20 truck loading. Steel plates placed over the trench shall have a minimum thickness of 1.25" and the surface shall be roughened or coated to provide a non-skid surface. For spans greater than 4 feet, a structural design shall be prepared by a Registered Civil Engineer and submitted to the District for review and approval.

The Contractor shall notify each resident in writing 3 days in advance of excavating past the affected driveway entrance. Such notice shall contain the expected day and period of time (not to exceed 4 hours) that the driveway is to be out of service. A copy of each letter shall be submitted to the Engineer.

12.4 Construction Signs and Traffic Control Plans - All construction signs, barricades, delineators, etc., shall conform with the U.S. Department of Transportation, Federal Highway Administration, "Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), Part 6, latest edition", and the MUTCD California Supplement, Part 6 along with the Uniform Sign Chart as shown on the drawing.

12.5 Flaggers - All personnel utilized as flaggers must be trained in the proper fundamentals of flagging and signaling.

12.6 Payment - The contract prices paid for Traffic Control shall include full compensation for all material and labor costs incurred under this section. Contractor is advised that traffic plans as shown on the drawings may be modified as field conditions require. No additional payment shall be made for modifications to the traffic plan.

This payment will be made on a basis of the percentage of work completed on the entire project.

### SECTION 13 - CLEARING AND MISCELLANEOUS WORK

13.1 Description - This section covers the contract items Clearing and Miscellaneous Work; and Protect/Replace Irrigation as required for construction of the work.

13.2 Clearing and Miscellaneous Work - The contract item Clearing and Miscellaneous Work includes any signage installation, required saw cutting of existing access pathways, any required sewer line video recording, the removal and disposal of all vegetation, grass, trees, roots, stumps, fences, pipes, culverts, rocks, structures, concrete curb, curb and gutter, sidewalks, paving, miscellaneous flatwork, footings, miscellaneous concrete, asphalt curb, paving and miscellaneous asphalt, all paving and flatwork aggregate base material down to subgrade elevation, and any required demolition as shown on the drawings. All objectionable materials shall be removed and disposed of offsite. Also included is subgrade preparation as defined below.

13.3 Subgrade Preparation - Before placing any fill the subgrade shall be cleared of all vegetation and debris. All areas to receive compacted fill shall be brought to a uniform grade, moisture conditioned to or slightly above optimum moisture content, and the surface proof rolled to a minimum ninety-five percent (95%) relative compaction when measured in conformance with California Test Method 216. No separate measurement or payment will be made for Subgrade Preparation.

Finally, included in this item are those types of work as shown on the drawings not specified for pay under any other individual contract item.

13.4 Protect/Replace Irrigation - This section covers both protection in place or the in-kind replacement of any sprinkler irrigation line and riser assemblies removed to accommodate grading operations. This item includes all labor, equipment, materials, and incidentals. The District will survey and document all sprinkler head locations. After District documentation, the golf course operator will remove and salvage all sprinkler heads (estimated number is 25) and cap all swing-joint riser assemblies within the limits of the levee improvements. All irrigation lines are believed to be deep enough that subgrade preparation will not impact them. However, Contractor shall pothole as necessary to make his own determination as to possible interference. At minimum Contractor should expect to protect 25 swing joints.

Upon completion of grading operations, but prior to placing sod, Contractor shall replace irrigation line and risers as needed and then reinstall, adjust and test salvaged irrigation heads.

Contractor shall note that the irrigation circuits inside the project area may also serve areas outside of the work area. Contractor shall assure that any irrigation circuit that is interrupted by can be pressurized to serve areas outside of the work area by the end of the work day.

13.5 Measurement and Payment - The contract lump sum payment for the contract item Clearing and Miscellaneous Work shall include full compensation for all material and labor costs incurred under this section and will be made on a basis of the percentage of work completed on the entire project.

The contract lump sum payment for the contract item Protect/Replace Irrigation and shall include full compensation for all material and labor costs incurred under this section and will be made upon successful completion of the sprinkler head reinstallation.

#### SECTION 14 - EARTHWORK

14.1 Description - This section covers Excavation; Backfill and the contract item Embankment Fill.

14.2 General Excavation Requirements - Excavation and Levee Excavation shall be in conformance with Section 300-2 of the Standard Specifications.

In excavating for surfaces against which concrete is to be placed, care shall be exercised in removing the final lift. Upon completion of excavation for structures and pipe, surfaces against which concrete is to be placed shall be free of debris, mud or ponded water.

The foundation for all concrete structures will be inspected and tested after excavation. The subgrade shall be compacted to ninety-five percent (95%) relative compaction prior to the placement of concrete.



Material which will not provide a suitable foundation shall be removed and replaced with compacted select material as directed by the Engineer.

Any overexcavation shall be filled with select material compacted to ninety-five percent (95%) relative compaction and meeting the material requirements for backfill.

The Contractor shall remove slides and materials eroding into the work, and the slopes and grades refinished to original grades as specified.

The Contractor shall dispose of all surplus excavated material outside of the limits of the construction easements and permanent rights of way.

14.3 General Backfill Requirements - Whenever fill is specified or required the work shall be performed as set forth in Sections 300-4.1 to 300-4.8 of the Standard Specifications.

Densification of embankment fill will be accomplished by either mechanical method as described below. All relative compaction tests will be made by the Engineer in conformance with California Test 216. Whenever relative compaction is specified to be determined by California Test 216, the in-place density may be determined by California Test 231. The wet weight or dry weight basis and English units of measurement may be used at the option of the Engineer.

Mechanical Compaction - Backfill shall be mechanically compacted by means of tamping rollers or other mechanical tampers. Impact-type pavement breakers (stompers) will not be permitted unless otherwise approved by the Engineer.

All backfill material shall be placed in uniform layers and shall be brought up uniformly on each side of the structure. The thickness of each layer of backfill shall not exceed 8 inches before compaction unless otherwise approved by the Engineer. For hand directed mechanical compactors, the thickness of each layer shall not exceed 4 inches before compaction.

14.4 Embankment Fill - The contract item Embankment Fill consists of constructing compacted embankment for the levee to the paylines shown on the drawings.

No embankment material shall be placed in any section of the levee until the subgrade for that section has been precompacted as required in Section 13.2 and has been approved by the Engineer.

The embankment material shall be free of sod, roots, brush, debris, trash, rocks over 6 inches in largest diameter, and other objectionable material. Clods or hard lumps over 6 inches in greatest dimension shall be broken up before compacting in embankments. All embankments and fills shall be constructed of approved material selected from required excavations as directed by the Engineer.

Material shall be placed in horizontal layers not more than 8 inches in thickness before compaction. If any oversized rock is encountered, it shall be removed from the embankment before compacting.

Material placed in the embankment shall be disked, harrowed or manipulated by other approved methods so as to obtain the best possible mixture and gradation, and shall be free from lenses, pockets, or streaks of material differing substantially in texture and gradation from the surrounding material.

Prior to and during the compaction operations, the material in each layer of the embankment shall, if necessary, be moistened and manipulated to attain moisture content within the range as determined by the Engineer. The moisture content shall be uniform throughout the layer. The moisture content of the soils at the time of compaction shall fall within the range from optimum moisture, to three percent (3%) above optimum.

Embankment material which contains excessive moisture shall not be compacted until the material is sufficiently dry to comply with the specified moisture content. No separate payment will be made for any additional work involved in drying embankment material to the required moisture content.

To obtain the specified moisture content, the Contractor will be required to perform such operations as are considered necessary by the Engineer. Application of water to the material for this purpose shall be done at the site of excavation as far in advance of excavation operations as possible to ensure uniformity of moisture content. Supplementary water, as required, shall be added to each layer and to the foundation by sprinkling the soil and by disking, harrowing, or otherwise manipulating the soil during and after the time the water is added. No layer of fill shall be compacted before the specified moisture content has been obtained.

The embankment compaction shall be done with a tamping roller, rubber-tired roller or other approved compaction equipment moving parallel to the axis of the dam and be compacted to not less than ninety-five percent (95%) relative compaction when measured in conformance with California Test Method 216. The method of compaction shall be subject to the approval of the Engineer.

It may be feasible to transport a portion of the materials which are excavated for other parts of the work, and which are suitable for embankment construction, directly to the embankment at the time of making the excavations, however, the Contractor shall be entitled to no additional compensation, above the unit prices named in the Contract Schedule for excavation and embankment, by reason of it being necessary or required by the Engineer, that such excavation materials be deposited in temporary storage piles prior to being placed in the embankments or other mandatory fill areas.

14.5 Measurement – No measurement or payment will be made for Excavation.

Measurement for payment for the contract item Embankment Fill will be the number of cubic yards of material placed in final position as specified, measured in the vehicle as provided in Section 9-1.01 of the State Standard Specifications.

14.6 Payment - The contract prices paid for Embankment Fill shall include full compensation for all costs incurred under this section.

SECTION 15 – NOT USED

SECTION 16 - CONCRETE CONSTRUCTION

16.1 Description - This section includes the contract items Reinforcing Steel and the various classes of Concrete.

16.2 General Requirements - Concrete for all purposes shall be composed of Portland Cement, aggregates and water of the quantities and qualities herein specified, and in the required proportions. The ingredients are to be well mixed and brought to the proper consistency and to have a compressive strength at the age of 28 days of not less than the amount shown in the following tabulation for each type of work listed:

<u>CONCRETE CLASS</u>	<u>MINIMUM SACKS CEMENT/C.Y.</u>	<u>TYPE OF WORK</u>	<u>POUNDS PER SQUARE INCH</u>
B	5	Local Depressions, Cutoff Walls, Encasements, Curb and Gutter, Cross Gutters, Driveways, Sidewalk and Miscellaneous Concrete not otherwise specified	3000*

\*Note: Concrete for use in structures constructed from State of California, Department of Transportation Standard Plans shall have compressive strengths as called for on those plans.

16.3 Material and Methods - All concrete materials, methods, forms and proportioning shall conform to Sections 51 and 90, and additionally, curb construction shall conform to Section 73 of the State Standard Specifications. Concrete test specimens will be made in accordance with ASTM Designation C-31 and C172. Test for concrete compressive strengths will be performed in accordance with ASTM Designation C-39. Combined aggregate grading for all concrete shall be in conformance with Section 90-3.04 of the State Standard Specifications and the following tabulation for each type of work listed:

<u>TYPE OF WORK</u>	<u>COMBINED AGGREGATE GRADING</u>
Bridges, Retaining Walls, Slope Paving, Trapezoidal Channel, Box Deck and Walls, Rectangular Channel	1" Maximum

Walls, Headwalls, Catch Basins, Drop Inlets,  
Local Depressions, Curb and Gutter, Driveways,  
Sidewalk, Cutoff Walls, Bulkheads, Collars,  
Encasements and Cast-in-Place Concrete Pipe  
with diameters of less than 48" and other  
Miscellaneous Concrete not otherwise specified.  
All other concrete structures

Fly Ash, Class F may be substituted for cement, up to a maximum of 15 percent by weight for all concrete. Fly Ash shall meet the standards of ASTM Designation: C-618. Water reducing agents meeting ASTM Designation: C-494 will be permitted in amounts recommended by the supplier and approved by the Engineer in writing.

No other admixture shall be used in any class of concrete without written permission from the Engineer.

Supplementing Section 90-1.01 of the State Standard Specifications, prior to placement of any concrete the Contractor shall submit mix designs, for all types of concrete to be placed, to the Engineer for approval. Supplementing Section 90-6.03 of the State Standard Specifications, concrete delivered to the job site shall be accompanied by a ticket containing the weight of each of the individual ingredients in the mix.

16.4 Consistency - The consistency of the concrete shall be such as to allow it to be worked into place without segregation. Unless otherwise specified, the slump shall be 3 inches plus or minus 1 inch for all concrete, except the concrete for the cast-in-place concrete pipe which shall have a slump of 2 inches plus or minus 1 inch.

The slump test shall be performed in accordance with the requirements of ASTM Designation: C-143. Slumps greater than those specified may be cause for rejection of the concrete by the Engineer.

16.5 Placing - Supplementing Section 51-1.09 of the State Standard Specifications, concrete shall not be placed except in the presence of the Engineer. The Contractor shall give reasonable notice to the Engineer each time he intends to place concrete. Such notice shall be far enough in advance to give the Engineer adequate time to inspect the subgrade, forms, steel reinforcement and other preparations for compliance with the specifications before concrete is delivered for placing.

Formed concrete shall be placed in horizontal layers in lifts of not more than 20 inches. Hoppers and chutes, pipes and "elephant trunks" shall be used as necessary to prevent segregation of the concrete.

16.6 Form Removal and Finish - Forms shall be removed only when the Engineer has given his approval. Forms shall be removed in such a way as to prevent damage to the concrete. Supports shall be removed in a manner that will permit the concrete to take stresses due to its own weight uniformly.

Forms shall not be removed sooner than the following minimum time or strength after the concrete is placed. These times represent cumulative number of days and fractions of days, not necessarily consecutive, during which the temperature of the air adjacent to the concrete is above 50 degrees F. If the temperature falls below 50 degrees Fahrenheit at any time after the concrete is placed in the forms, the Engineer will advise the Contractor of additional time required before forms can be removed.

Element

Strength or Time

All structures

16 hours

The finish on all exposed formed surfaces shall conform to Section 51-1.18B Class 1 Surface Finish of the State Standard Specifications. A tight wood float finish will be required on the surface and excessive surface working will not be permitted. The exposed concrete surfaces shall be broomed in a transverse direction with a fine textured hair push broom to produce a uniform surface and eliminate float marks. Brooming shall be done when the surface is sufficiently set to prevent deep scarring. If directed by the Engineer, a fine spray of water shall be applied to the surface immediately in advance of brooming.

Exposed corners of all concrete structures shall be finished with a 3/4" chamfer.

Concrete flatwork shall match adjacent surfaces. The concrete shall be struck off and tamped or vibrated until a layer of mortar has been brought to the surface. The top surface and face of curbs, gutters, catch basins and sidewalks shall be finished to match adjacent surfaces.

16.7 Curing - All concrete shall be prevented from drying for a curing period of at least seven (7) days after it is placed. Surfaces exposed to air during the curing process shall be kept continuously moist for the entire period or until curing compound is applied.

Formed surfaces shall be thoroughly wetted immediately after forms are removed and shall be kept wet until patching and repairs are completed. Water or covering shall be applied in such a way that the concrete surface is not eroded or otherwise damaged. Water for curing shall be clean and free from any substances that will cause discoloration of the concrete.

Concrete may be coated with curing compound in lieu of the continued application of moisture. The curing compound shall comply with the requirements of Section 90-7.01B of the State Standard Specifications. The curing compound shall be No. 5 White Pigmented Curing Compound conforming to the requirements of ASTM Designation: C-309, Type 2, Class B for all concrete surfaces other than for flatwork which shall be coated with a clear or translucent curing compound containing a red fugitive dye.

The curing compound shall be sprayed on the moist concrete surfaces as soon as free water has disappeared, but shall not be applied to any surface until patching, repairs and finishing of that surface are completed. The curing compound shall be thoroughly mixed immediately before applying, and shall be applied at a uniform rate of not less than one gallon

per 150 square feet of surface. No separate payment will be made for the curing compound or its application.

16.8 Joints - Joints shall be made at the locations shown on the drawings, or as approved by the Engineer.

The Contractor shall construct, in one continuous concrete placing operation, all work comprised between such joints. Joints shall be kept moist until adjacent concrete is placed.

All construction joints having a keyed, stepped, or roughened surface shall be cleaned by sandblasting prior to placement of the adjacent concrete, unless otherwise directed by the Engineer.

The sandblasting operations shall be continued until all unsatisfactory concrete, laitance, coatings, stains, debris, and other foreign materials are removed. The surface of the concrete shall be washed thoroughly to remove all loose material.

Transverse weakened plane joints shall be required in the paths and road at 10-foot spacing or as directed by the Engineer. The joints may be formed by placing a continuous strip of plastic or other material which will not react adversely with the chemical constituents of the concrete or bond with the concrete. The strip shall have a minimum thickness of 0.013 foot, a width of not less than 0.12 foot nor more than 0.13 foot for the six-inch thick channel slope and invert. After placement, the vertical axis of the joint material shall be within 10 degrees of a plane normal to the surface of the concrete. The tops of the strip shall not be above nor more than 0.02 foot below the finished concrete. Final alignment of the strip for the transverse weakened plane joints shall not vary more than 0.04 foot from the edge of a 12-foot straight edge. After installation of a joint material the concrete shall be free of segregation, rock pockets or voids and the finished concrete surface on each side of the joint shall be in the same plane.

The Contractor may elect to form the weakened plane joints in the channel surface by cutting a groove in the surface with a power driven saw. The grooves shall be cut to a minimum depth of 0.17 foot and the width shall be the minimum width possible with the type of saw being used, but in no case shall the width exceed 0.02 foot. The weakened plane joints shall be sawed within 12 hours after the concrete has been placed.

Construction joints, when required, shall be located between the transverse joints and, unless otherwise specified on the plans, shall utilize 1/2 inch diameter deformed bars 30 inches long, spaced at 18-inch centers as tie bars. The construction joints shall be straight and finished in a workmanlike manner.

Surfaces of construction joints shall be cleaned as set forth in Section 51-1.13 of the State Standard Specifications.

16.9 Class "B" Concrete, Miscellaneous - The contract item Class "B" Concrete, Miscellaneous includes the complete construction of the curb and gutters, cross gutters, sidewalks, driveways, local depressions, collars, pipe plugs, sewer encasements, and any other

concrete not specified. Included in the pay item is all earthwork and reinforcing steel required. The subgrade for cross gutters and driveways shall be recompacted to ninety-five percent (95%) relative compaction prior to the placement of concrete.

16.10 Measurement - Measurement for payment for the contract item Class "B" Concrete, Miscellaneous will be the number of cubic yards placed as specified, measured to the neat lines as shown on the drawings.

No measurement or payment will be made for dowels, tie bars, tie wires, blocks, chairs and other accessories.

16.11 Payment - The contract prices paid for the various Concrete items and reinforcing steel items shall include full compensation for all costs incurred under this section.

#### SECTION 17 THROUGH SECTION 19 - NOT USED

#### SECTION 20 - FENCES AND GATES

20.1 Description - This section covers the contract item Temporary Fencing.

20.2 Temporary Fencing - The contract item Temporary Fencing shall include all labor, materials and equipment necessary for installing and removing the temporary fencing. Temporary Fencing shall be used for staged construction to provide secure access for golf patrons to play through fairway. The temporary fencing shall be a 3-foot high (minimum) orange silt fence.

20.3 Measurement - Measurement for payment for the contract item Temporary Fencing will be the number of lineal feet of fencing as shown on plans.

20.4 Payment - The contract price paid for Temporary Fencing shall include full compensation for all costs incurred under this section.

#### SECTION 21 THROUGH SECTION 26 - NOT USED

#### SECTION 27 - DUST ABATEMENT

27.1 Description - This section covers the implementation of dust control measures necessary to prevent harm and nuisance from dust. Supplementing Section 8.06 of the General Provisions, the Contractor shall comply with all the provisions of the South Coast Air Quality Management District (SCAQMD) Rule 403 and Rule 403.1 as described in Appendix "A".

27.2 Dust Abatement - The contract item Dust Abatement includes the action necessary to prevent, reduce or control dust within the work area as required to complete the work. The Contractor shall carry out proper and efficient measures to prevent his operations from producing dust in amounts damaging to property or causing a nuisance or harm to persons living nearby or occupying buildings in the vicinity of the work.

The Contractor shall implement appropriate fugitive dust control measures including watering, stabilized construction access to reduce tracking of mud or dirt onto public roads, covering trucks hauling loose dirt offsite and street sweeping of track-out. The Contractor can contact SCAQMD for their Rule 403 and Rule 403.1 implementation handbooks which contain a detailed listing of reasonably available dust control measures.

The Contractor shall prepare and implement a dust control plan in accordance with the requirements set forth in the latest version of the SCAQMD Rule 403 and Rule 403.1. The methods to be used for controlling dust in the construction area and along haul roads shall be approved by the Engineer prior to starting any work included in this contract. If the Contractor's operations meet the Rule 403 definition of "Large Operations", the dust control plan shall be submitted to SCAQMD for review and approval prior to start of operations.

Within five (5) working days after the award of the contract, the Contractor shall submit two (2) copies of the Dust Control Plan to the Engineer for review and approval. The Contractor shall allow ten (10) working days for the Engineer to review the Dust Control Plan. If revisions are required as determined by the Engineer, the Contractor shall revise and resubmit the Dust Control Plan within three (3) working days of receipt of the Engineer's comments and shall allow ten (10) working days for the Engineer to review the revisions. The Contractor shall submit four (4) copies of the approved Dust Control Plan to the Engineer prior to the pre-construction meeting. **The Contractor must have an approved Dust Control Plan prior to the pre-construction meeting.**

Construction equipment idling shall not exceed 10 minutes to ensure that the SCAQMD daily thresholds are not exceeded.

27.3 Payment - The contract lump sum price paid for Dust Abatement shall include full compensation for all direct and indirect costs incurred under this section.

This payment will be made on a basis of the percentage of work completed on the entire project.

#### SECTION 28 – NOT USED

#### SECTION 29 – STORMWATER AND NON-STORMWATER POLLUTION CONTROL

29.1 Description – The contract item Stormwater and Non-Stormwater Pollution Control shall include preparing, obtaining approval of, amending and implementing the Stormwater Pollution Prevention Plan (SWPPP) as required by the State Water Resources Control Board (SWRCB) and the California Regional Water Quality Control Board (CRWQCB) - Colorado River Basin Region.

The SWPPP shall identify site specific Best Management Practices (BMPs) to be implemented during and after construction to minimize the potential pollution of stormwater runoff and receiving waters. The identified BMPs shall be practices designed to minimize or



eliminate the discharge of pollutants from the construction site and Contractor's construction activities, including, but not limited to:

1. Good housekeeping practices for solid and sanitary/septic waste management, vehicle and equipment cleaning/maintenance, and material handling and storage.
2. Construction procedures such as stabilized construction access points, scheduling/phasing to minimize areas of soil disturbance, soil stabilization and erosion/sediment control.
3. Measures to control debris disposal, releases of sediment laden liquids, spills, leakage, and dumping, and to prevent illicit connections during construction must be addressed through structural as well as non-structural BMPs.
4. Staff must be trained in stormwater management.

The SWPPP shall also stipulate an ongoing program for monitoring and maintenance of all BMPs.

29.2 General Requirements – All activities performed by the Contractor for this project shall conform to the requirements of the State-wide National Pollutant Discharge Elimination System (NPDES) General Permit (Permit No. CAS000002) for Discharges of Stormwater Runoff Associated with Construction Activity, hereafter referred to as the "General Permit", issued by the SWRCB. This General Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities. A copy of this General Permit is included as Appendix "D" of these Specifications.

**In the event the District incurs any Administrative Civil Liability or Mandatory Minimum Penalty (fine) imposed by the CRWQCB – Colorado River Basin Region, as a result of Contractor's failure to fully implement the provisions of this section and permit requirements, "Stormwater and Non-Stormwater Pollution Control", the Engineer may, in the exercise of his sole judgment and discretion, withhold from payments otherwise due Contractor a sufficient amount to cover the Civil Liability. Liability for "Negligent Violations" may be in an amount up to \$50,000 per day per deemed occurrence while "Knowing Violations" can result in fines as high as \$250,000 and imprisonment.**

Stormwater and Non-Stormwater Pollution Control work shall conform to the requirements in the latest version of the California Stormwater Quality Association (CASQA) Handbook, entitled "**California Stormwater BMP Handbook – Construction**". A copy of the "California Stormwater BMP Handbook – Construction", hereafter referred to as the "CASQA Handbook", may be obtained from CASQA, Post Office Box 2105, Menlo Park, California 94026-2105. Telephone: 650.366.1042. Copies of the handbook can also be downloaded from the CASQA Internet site at <http://www.cabmphandbooks.com/construction.asp>. In addition, a copy of the CASQA Handbook is available for review at the District's office.

The Contractor shall be responsible for all costs and for any liability imposed by law as a result of the Contractor's failure to comply with the requirements set forth in this section, "Stormwater and Non-Stormwater Pollution Control", including but not limited to, compliance with the applicable provisions of the CASQA Handbook, General Permit, Federal, State and local regulations. For the purpose of this paragraph, costs and liabilities include, but are not limited to, fines, penalties and damages whether assessed against the District or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Act.

The Contractor shall become fully informed of and comply with the applicable provisions of the CASQA Handbook, General Permit, Federal, State and local regulations that govern the Contractor's activities and operation pertaining to both stormwater and non-stormwater discharges from both the project site and areas of disturbance outside the project limits during construction. The Contractor shall, at all times, keep copies of the General Permit, approved SWPPP and all amendments at the project site. The SWPPP shall be made available upon request of a representative of the SWRCB, CRWQCB, United States Environmental Protection Agency (USEPA) or local stormwater management agency. Requests by the public shall be directed to the Engineer.

The Contractor is solely and exclusively responsible for any arrangements made between the Contractor and other property owners or entities that result in disturbance of areas or construction activities being conducted outside limits of the designated rights-of-way and temporary construction easements as shown on the project drawings.

The Contractor shall, at reasonable times, allow authorized agents of the CRWQCB, SWRCB, USEPA or local stormwater management agency, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the construction site and the Contractor's facilities pertinent to the work;
2. Have access to and copy any records required to be kept as specified in the General Permit;
3. Inspect the construction site, including any offsite staging areas or material storage areas, and related soil stabilization practices and sediment control BMPs; and
4. Sample or monitor for the purpose of ensuring compliance with the General Permit.

The Contractor shall notify the Engineer immediately upon request from regulatory agencies to enter, inspect, sample, monitor or otherwise access the project site or the Contractor's records.

29.3 Stormwater Pollution Prevention Plan Preparation and Approval - The Contractor shall prepare and obtain approval of the SWPPP as part of the Stormwater and Non-Stormwater Pollution Control work for this contract. The SWPPP shall include an appropriate sampling and analysis plan (SAP) as required by Section B, "Monitoring Program and Reporting Requirements", of the General Permit. A guidance document titled "Construction Storm Water Sampling and Analysis Guidance Document" is available from the California Stormwater Quality Association internet site at <http://www.cabmphandbooks.com/Construction.asp>. The Contractor shall prepare and implement the SWPPP in accordance with the CASQA Handbook and SAP, the General Permit and these Detailed Specifications.

**In case of conflict between the CASQA Handbook and these Detailed Specifications, the Detailed Specifications shall govern; in case of conflict between these Detailed Specifications and the General Permit, the latter shall govern.**

Within five (5) working days after the award of the contract, the Contractor shall submit two (2) copies of the SWPPP to the Engineer for review and approval. The Contractor shall allow ten (10) working days for the Engineer to review the SWPPP. If revisions are required as determined by the Engineer, the Contractor shall revise and resubmit the SWPPP within three (3) working days of receipt of the Engineer's comments and shall allow ten (10) working days for the Engineer to review the revisions. The Contractor shall submit four (4) copies of the approved SWPPP to the Engineer prior to the pre-construction meeting. **The Contractor must have an approved SWPPP prior to the pre-construction meeting.**

The objectives of the SWPPP shall be to identify all pollution sources associated with Contractor's construction activities that may adversely affect the quality of stormwater discharges; to identify all non-stormwater discharges; to identify, construct, implement and maintain water pollution control best management practices, hereafter referred to as "BMPs", to reduce to the maximum extent practicable pollutants in both stormwater discharges and authorized non-stormwater discharges from the construction site during construction and to develop a maintenance schedule for BMPs after construction is completed under this contract.

The SWPPP shall incorporate BMPs in each of the following categories:

1. Soil stabilization practices;
2. Sediment control practices;
3. Sediment tracking control practices;
4. Wind erosion control practices; and
5. Non-stormwater management, and waste management and disposal control practices.

Specific objectives and minimum requirements for each category of BMPs are described in the CASQA Handbook. The Contractor shall consider the objectives and minimum requirements presented in the CASQA Handbook for each of the above categories. When minimum requirements are listed for any category, the Contractor shall incorporate one or more of the listed minimum BMPs required into the SWPPP and implement them on the project to meet the pollution control objectives for the category. In addition, the Contractor shall consider

other BMPs presented in the CASQA Handbook to supplement the minimum BMPs required when necessary to meet the objectives of the SWPPP and maintain compliance with the General Permit. The Contractor shall document the selection process in accordance with the procedure specified in the CASQA Handbook.

The Contractor should not assume that the minimum BMPs required for each category presented in the CASQA Handbook are adequate to meet the pollution control objectives. The Contractor may use other effective BMPs, as approved by the Engineer, in addition to the minimum as required in the CASQA Handbook to achieve the pollution control objectives.

The SWPPP shall include the following items as described in the CASQA Handbook, SAP and General Permit:

1. Title Page;
2. Certification and Approval;
3. Table of Contents;
4. Description of Site;
5. Source Identification;
6. Stormwater and Non-Stormwater Pollution Control Drawings;
7. Erosion Control;
8. Stabilization;
9. Sediment Control;
10. Non-Stormwater Management;
11. Waste Management and Disposal;
12. Implementation of any approved local plans;
13. Development and Implementation of Monitoring Program
14. Maintenance, Inspection and Repair Program;
15. Training;
16. List of Contractors and Subcontractors;
17. Sampling and Analysis Plan;
18. Post-Construction Stormwater Management and Control Requirements;
19. Current Inventory of BMP related materials;
20. Mobilization Plan for BMP deployment;
21. A copy of the Notice Of Intent (NOI) form submitted by the District for this project;
22. A copy of the Waste Discharge Identification (WDID) number or proof of mailing of the NOI (provided by the District);
23. A copy of the General Permit;
24. A copy of other applicable Plans/Permits, if any;
25. Construction Site Inspection Checklist;
26. Pre/Post Storm Inspection Checklist;
27. Inspection Log;
28. A copy of the Amendments, if any;
29. Amendment Certification and Approval, if any;
30. Amendment Log;
31. Annual Compliance Certification;

32. BMPs Consideration Checklist; and
33. SWPPP Checklist.

To ensure that the preparation, implementation, and oversight of the SWPPP is sufficient for effective pollution prevention, individuals responsible for creating, revising, overseeing, and implementing the SWPPP should participate in applicable training programs and document such training in the SWPPP. A copy of the SWPPP should be located at the construction site.

The following notes (or notes of substantially similar intent) that address pollution prevention to the Maximum Extent Practicable during the construction phase of a project on a year-round basis need to be placed on the Stormwater and Non-Stormwater Pollution Control Drawings:

- ◆ Erosion control BMPs shall be implemented and maintained to minimize and/or prevent the entrainment of soil in runoff from disturbed soil areas on construction sites.
- ◆ Sediment control BMPs shall be implemented and maintained to prevent and/or minimize the transport of soil from the construction site.
- ◆ Stockpiles of soil shall be properly contained to eliminate or reduce sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking or wind.
- ◆ Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented to eliminate or reduce transport from the site to streets, drainage facilities or adjoining properties by wind or runoff.
- ◆ Runoff from equipment and vehicle washing shall be contained at construction sites and must not be discharged to receiving waters or the local storm drain system. Washwaters or rinsate from ready mix, concrete, or cement vehicles must be handled appropriately and may not be discharged to receiving waters or any storm drain system.
- ◆ All construction contractor and subcontractor personnel are to be made aware of the required best management practices and good housekeeping measures for the project site and any associated construction staging areas.
- ◆ At the end of each day of construction activity all construction debris and waste materials shall be collected and properly disposed in trash or recycle bins.
- ◆ Construction sites shall be maintained in such a condition that a storm does not carry wastes or pollutants off the site. Discharges other than stormwater (non-stormwater discharges) are prohibited, except as authorized by an individual NPDES permit or the State-wide General Permit for Storm Water Discharges Associated with Construction Activity. Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, sealants, solvents, detergents, glues, lime, pesticides, herbicides, fertilizers, wood preservatives and asbestos fibers; paint flakes or stucco fragments; fuels, oils, lubricants and hydraulic, radiator or battery fluids; concrete and related cutting or curing residues; floatable wastes; wastes from engine/equipment steam cleaning or chemical degreasing; wastes from street cleaning; and super-chlorinated

potable water from line flushing and testing. During construction, disposal of such materials should occur in a specified and controlled temporary area onsite physically separated from potential stormwater runoff, with ultimate disposal in accordance with local, State and Federal requirements.

- ◆ Discharging contaminated groundwater produced by dewatering groundwater that has infiltrated into the construction site is prohibited. Discharging of contaminated soils via surface erosion is also prohibited.
- ◆ The Contractor is required to notify and obtain approval from the District ten (10) days prior to any non-stormwater discharge or dewatering associated with Contractor's construction activities.
- ◆ Construction sites shall be managed to minimize the exposure time of disturbed soil areas through phasing and scheduling of grading to the extent feasible and the use of temporary and permanent soil stabilization.
- ◆ BMPs shall be maintained at all times. In addition, BMPs shall be inspected prior to predicted storm events and following storm events.

29.4 Stormwater Pollution Prevention Plan Amendments - The Contractor shall prepare amendments to the SWPPP, both graphically and in narrative form, whenever there is a change in Contractor's construction activities or operations which may result in the discharge of pollutants to surface waters, groundwaters, municipal storm drain systems, or as deemed necessary by the Engineer. The Contractor shall also amend the SWPPP if it is in violation of any condition of the General Permit, or has not effectively achieved the objective of reducing pollutants in stormwater discharges. Amendments shall show additional BMPs, revised Contractor's construction activities or operations, including those in areas not shown in the initially approved SWPPP, which are required on the project to effectively control water pollution.

Amendments to the SWPPP shall be submitted for review and approval by the Engineer in the same manner specified for the initial approval of the SWPPP. The Contractor shall date and attach all approved amendments to the SWPPP. Upon approval of the amendment, the Contractor shall implement the additional BMPs, revised construction activities or operations.

29.5 Annual Compliance Certification - The Contractor shall certify annually that construction activities are in compliance with the requirements of the General Permit and the approved SWPPP. The certification must be completed by July 1<sup>st</sup> of each year.

29.6 Non-Compliance Reporting - If the project is in non-compliance at any time, the Contractor shall make a written report to the Engineer within two (2) calendar days of identification of non-compliance activities.

29.7 SWPPP Implementation - Upon approval of the SWPPP, the Contractor shall be responsible throughout the duration of the project for placing, installing, constructing, inspecting and maintaining the BMPs as well as conducting the sampling and analysis plan as included in the SWPPP and any amendments thereto, and for removing and disposing of temporary BMPs. Unless otherwise directed by the Engineer or specified in these Detailed Specifications, the Contractor's responsibility for SWPPP implementation shall continue throughout any temporary

suspension of work ordered in accordance with Section 6.05, "TEMPORARY SUSPENSION OF THE WORK", of the General Provisions. Requirements for installation, construction, inspection, maintenance, removal and disposal of BMPs are specified in the Caltrans Handbooks and these Detailed Specifications.

**The Engineer may order the suspension of construction operations if the Contractor fails to comply with the requirements of this section, "Stormwater and Non-Stormwater Pollution Control", as determined by the Engineer.**

**The Contractor will not be compensated for sampling and analysis work because of the Contractor's failure to properly implement, inspect, maintain and repair BMPs in the approved SWPPP and any amendments thereto, or for failing to store construction materials or wastes in watertight containers.**

- (a) Stormwater Pollution Control - The Contractor shall implement soil stabilization practices and sediment control BMPs, including minimum requirements as presented in the Caltrans Handbooks, on all disturbed areas of the project site throughout the rainy season, defined as between August 1 - October 1 and November 1 - May 1, which is consistent with Caltrans' definition of the rainy season for the eastern desert region.

Implementation of soil stabilization practices and sediment control BMPs for soil-disturbed areas, including but not limited to, rough graded access roads, slopes, channel inverts, operational inlets and outlets of the project shall be completed no later than ten (10) calendar days prior to the start of the rainy season or upon start of applicable Contractor's construction activities for projects which begin either during or within ten (10) calendar days of the rainy season.

The Engineer may require the Contractor, on a case-by-case basis, to reduce the active, soil-disturbed area limit of the project. The Contractor shall demonstrate the ability and preparedness to fully deploy soil stabilization practices and sediment control BMPs to protect soil-disturbed areas of the project site by maintaining an adequate quantity of soil stabilization and sediment control materials onsite to protect exposed, soil-disturbed areas and a detailed plan for the mobilization of sufficient labor and equipment to fully deploy the required BMPs prior to the onset of precipitation and for the duration of the project.

Throughout the rainy season, soil-disturbed areas of the project site shall be considered to be nonactive whenever soil disturbing activities are expected to be discontinued for a period of fifteen (15) calendar days or more. Areas that will become nonactive either during the rainy season or within ten (10) calendar days thereof shall be fully protected with soil stabilization practices such as covering with mulch, temporary seeding, fiber rolls, blankets, etc., within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur. Areas that will become nonactive either during the rainy season or within ten (10) calendar days thereof shall be fully

protected with sediment control BMPs within ten (10) calendar days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur.

Throughout the rainy season, active soil-disturbed areas of the project site shall be fully protected at the end of each day with soil stabilization practices and sediment control BMPs. The Contractor shall monitor the weather forecast on a daily basis. The National Weather Service forecast shall be used, or an alternative weather forecast proposed by the Contractor may be used if approved by the Engineer. If precipitation is predicted prior to the end of the following workday, construction scheduling shall be modified, as required, and the Contractor shall deploy functioning BMPs prior to the onset of the precipitation.

- (b) **Non-Stormwater Pollution Control** - The Contractor shall implement, year-round and throughout the duration of the project, BMPs included in the SWPPP for sediment tracking, wind erosion, non-stormwater management, and waste management and disposal.
- (c) **Inspections and Reporting** - The Contractor shall regularly inspect the construction site for BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. The Contractor shall identify corrective actions and time frames to address any damaged BMPs or reinstate any BMPs that have been discontinued.

At a minimum, the Contractor shall inspect the construction site as follows:

1. Prior to a forecast storm;
2. After any precipitation which causes runoff capable of carrying sediment from the construction site;
3. At 24 hour intervals during extended precipitation events; and
4. At a regular interval of once every 2 weeks.

The construction site inspection checklist provided in the Caltrans Handbooks shall be used to ensure that the necessary BMPs are being properly implemented and are functioning adequately. The Contractor shall submit one copy of each site inspection record to the Engineer.

- (d) **Maintenance** - The Contractor shall maintain construction site BMPs identified in the SWPPP to ensure the proper implementation and functioning of BMPs. If the Contractor or the Engineer identifies a deficiency in the deployment or functioning of an identified BMP, the deficiency shall be corrected by the Contractor immediately, or by a later date and time if requested by the Contractor and approved by the Engineer in writing, but not later than the onset of subsequent precipitation events. The correction of deficiencies shall be at no additional cost to the District.



- (e) Training - The Contractor shall describe the types of training that the Contractor's BMP inspection, maintenance and repair personnel have received or will receive that is directly related to stormwater pollution prevention.

29.8 Payment - The contract lump sum price paid for Stormwater and Non-Stormwater Pollution Control work shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all the work involved in developing, preparing, obtaining approval of, revising and amending the SWPPP, and installing, constructing, maintaining, removing and disposing of BMPs as shown in the SWPPP, as specified in the Caltrans Handbooks and Sample Contractor's Water Quality SAPs, General Permit and these Detailed Specifications, and as directed by the Engineer.

Payment will be made on a basis of the percentage of work completed on the entire project.

### SECTION 30 AND SECTION 31 - NOT USED

### SECTION 32 - SOD INSTALLATION

32.1 Description - This section covers the contract item Sod Installation as directed by the Engineer. The outside of levee and channel embankments, cut or fill slopes, disturbed creek bottom, and all exposed or stripped areas (including TCE's) within the project limits shall be sodded.

32.2 Sod - This item includes the furnishing of all materials, incidentals, labor and equipment necessary to complete the work as specified herein, and as directed by the Engineer. All sod work shall be done by fully qualified and experienced personnel.

The sod materials shall not be stored onsite without prior approval of the Engineer as to location, duration and method of storage. All debris and excess materials shall be removed on a daily basis, unless otherwise authorized by the Engineer. The Contractor shall leave the work area in a clean and finished appearance upon completion of sod installation.

32.3 Equipment and Materials - The turfgrass sod shall be 419 hybrid Bermuda, inter-seeded/over-seeded with Perennial Rye grass.

A commercial fertilizer shall be used containing a minimum of 6% nitrogen, 20% available phosphoric acid and 20% water soluble potash, uniform in composition, dry and free flowing, pelleted or granular. All fertilizer shall be delivered in unbroken or unopened containers, labeled in accordance with applicable State regulations and bearing the warranty of the producer for the grade furnished.

32.4 Application - The Engineer shall review and approve completion of all construction and grading prior to any section being approved as ready for sod installation.

The Contractor shall rake in fertilizer, lime, peat, compost, etc., as needed to a depth of 3 to 4 inches. The Contractor shall incorporate soil amendments into the top 2 to 4 inches of the soil profile. Gypsum shall be applied at 50 lbs. to 100 lbs. per 1,000 square feet to help in the leaching of salts and buffering of soil pH. The Contractor shall incorporate a 6-20-20 fertilizer with minor elements at a rate of 10 lbs. per 1,000 square feet. Water the prepared area to settle soil and provide a moist base for turf. The Contractor shall moisten to a depth of 6 inches. Begin watering lawn within 30 minutes of installation. After installing the turf, roll the entire area to improve turf/soil contact and remove air pockets.

Turfgrass sod shall be laid across the angle of the slope (perpendicular), with staggering joints and secured by tamping, pegging, stapling or other approved methods of temporarily securing each piece.

32.5 Measurement - Measurement for the contract item Sod Installation will be made on the basis of the actual area sodded to the nearest square foot as measured by the Engineer.

32.6 Payment - The contract price paid for Sod Installation shall include full compensation for all costs incurred under this section.

APPENDIX "A"

SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT

RULE 403

and

RULE 403.1

(Adopted May 7, 1976) (Amended November 6, 1992)  
(Amended July 9, 1993) (Amended February 14, 1997)  
(Amended December 11, 1998)(Amended April 2, 2004)  
(Amended June 3, 2005)

**RULE 403. FUGITIVE DUST**

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.
- (10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.
- (11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

- (14) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (15) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (16) **EARTH-MOVING ACTIVITIES** means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (17) **DUST CONTROL SUPERVISOR** means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (18) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (19) **HIGH WIND CONDITIONS** means that instantaneous wind speeds exceed 25 miles per hour.
- (20) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (21) **LARGE OPERATIONS** means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

- meters (5,000 cubic yards) or more three times during the most recent 365-day period.
- (22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (25) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (29) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

- (31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
  - (32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
  - (34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
  - (35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
  - (37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:



- (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
  - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
- (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
- (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:
- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

- (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
  - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).
- (6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.
- (e) Additional Requirements for Large Operations
- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
    - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
    - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
    - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

- (D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
  - (E) identify a dust control supervisor that:
    - (i) is employed by or contracted with the property owner or developer;
    - (ii) is on the site or available on-site within 30 minutes during working hours;
    - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
    - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
  - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).
- (2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).
- (f) **Compliance Schedule**  
The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

- (1) The provisions of this Rule shall not apply to:
  - (A) Dairy farms.
  - (B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.
  - (C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.
  - (D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
    - (i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;
    - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and
    - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
  - (E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
    - (i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
    - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
    - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.

- (F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
  - (G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
  - (H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
  - (I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
  - (J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:
    - (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
    - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
  - (K) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:

- (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
    - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
  - (B) To unpaved roads, provided such roads:
    - (i) are used solely for the maintenance of wind-generating equipment; or
    - (ii) are unpaved public alleys as defined in Rule 1186; or
    - (iii) are service roads that meet all of the following criteria:
      - (a) are less than 50 feet in width at all points along the road;
      - (b) are within 25 feet of the property line; and
      - (c) have a traffic volume less than 20 vehicle-trips per day.
  - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.
- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
  - (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
    - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
    - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
  - (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for  $PM_{10}$  pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes



**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	<ul style="list-style-type: none"> <li>✓ Use tarps or other suitable enclosures on haul trucks</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>✓ Comply with track-out prevention/mitigation requirements</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1 Stabilize soils, materials, slopes	<ul style="list-style-type: none"> <li>✓ Apply water to materials to stabilize</li> <li>✓ Maintain materials in a crusted condition</li> <li>✓ Maintain effective cover over materials</li> <li>✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>✓ Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul style="list-style-type: none"> <li>✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	<ul style="list-style-type: none"> <li>✓ Dedicate water truck or high capacity hose to screening operation</li> <li>✓ Drop material through the screen slowly and minimize drop height</li> <li>✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	<ul style="list-style-type: none"> <li>✓ Limit size of staging area</li> <li>✓ Limit vehicle speeds to 15 miles per hour</li> <li>✓ Limit number and size of staging area entrances/exists</li> </ul>
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul style="list-style-type: none"> <li>✓ Add or remove material from the downwind portion of the storage pile</li> <li>✓ Maintain storage piles to avoid steep sides or faces</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
 (Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

**Table 2**  
**DUST CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving (except construction cutting and filling areas, and mining operations)</b>	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
<b>Earth-moving: Construction fill areas:</b>	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS
<b>Earth-moving: Construction cut areas and mining operations:</b>	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
<b>Disturbed surface areas (except completed grading areas)</b>	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
<b>Disturbed surface areas: Completed grading areas</b>	(2c) Apply chemical stabilizers within five working days of grading completion; OR  (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
<b>Inactive disturbed surface areas</b>	(3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR  (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR  (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR  (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS
Unpaved Roads	(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR (4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR (4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a) Apply chemical stabilizers; OR (5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR (5c) Install temporary coverings; OR (5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.



**TABLE 3**  
**CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL MEASURES</b>
<b>Earth-moving</b>	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
<b>Disturbed surface areas</b>	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
<b>Unpaved roads</b>	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
<b>Open storage piles</b>	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
<b>Paved road track-out</b>	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
<b>All Categories</b>	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

**Table 4**  
**(Conservation Management Practices for Confined Animal Facilities)**

<b>SOURCE CATEGORY</b>	<b>CONSERVATION MANAGEMENT PRACTICES</b>
<b>Manure Handling</b>  (Only applicable to Commercial Poultry Ranches)	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
<b>Feedstock Handling</b>	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
<b>Disturbed Surfaces</b>	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
<b>Unpaved Roads</b>	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
<b>Equipment Parking Areas</b>	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

(Adopted January 15, 1993)(Amended June 16, 2000)(Amended April 2, 2004)

**RULE 403.1. SUPPLEMENTAL FUGITIVE DUST CONTROL REQUIREMENTS FOR COACHELLA VALLEY SOURCES**

(a) Purpose

The purpose of this rule is to reduce or prevent the amount of fine particulate matter (PM<sub>10</sub>) entrained in the ambient air from anthropogenic (man-made) fugitive dust sources.

(b) Applicability

The provisions of this rule are supplemental to Rule 403 requirements and shall apply only to fugitive dust sources in the Coachella Valley.

(c) Definitions

- (1) ACTIVE OPERATIONS shall mean any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface areas, or agricultural operations.
- (2) AGRICULTURAL OPERATIONS means any operation occurring on a ranch or farm directly related to the growing of crops, or raising of fowls or animals for the primary purpose of making a profit or for a livelihood.
- (3) ANEMOMETERS are devices used to measure wind speed in accordance with the performance standards, maintenance and calibration criteria specified in the Rule 403.1 Implementation Handbook.
- (4) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter and other organic and inorganic particulate matter.
- (5) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

- (6) COACHELLA VALLEY means that portion of Riverside County, as defined in Rule 103, subdivision (h).
- (7) COACHELLA VALLEY BLOWSAND ZONE means the corridor of land extending two miles to either side of the centerline of the I-10 Freeway beginning at the SR-111/I-10 junction and continuing southeast to the I-10/ Jefferson Street interchange in Indio.
- (8) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (9) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that vegetative ground cover and soil characteristics are similar to adjacent or near-by natural conditions;
  - (B) been paved or otherwise covered by a permanent structure;
  - (C) sustained a vegetative ground cover of at least 70 percent of the average native cover for a particular area for at least 30 days.
- (10) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 and Rule 403.1 requirements at an active operation.
- (11) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive emissions.
- (12) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered and shall include, but not be limited to the following: such operations as grading, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, soil mulching and agricultural tilling.

- (13) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (14) FUGITIVE DUST CONTROL PLAN means a plan to control fugitive dust plan as described in subdivision (e).
- (15) ON-SITE means within the property lines of a property, or as otherwise approved by the Executive Officer.
- (16) OPEN STORAGE PILE is any accumulation of bulk material which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (17) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (18) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable state and federal reference test methods.
- (19) PROPERTY LINE means the boundaries of an area in which a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (20) RULE 403.1 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (21) STABILIZED SURFACE means any previously disturbed surface area which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403.1 Implementation Handbook.
- (22) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by one of the following: concrete, asphaltic concrete, recycled asphalt, asphalt or other materials with equivalent performance as determined by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Public unpaved roads

are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.

- (23) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
- (24) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

(d) General Requirements

- (1) Any person who is responsible for any active operation, open storage pile, or disturbed surface area, and who seeks an exemption pursuant to Rule 403, paragraph (g)(2) shall be required to determine when wind speed conditions exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).
- (2) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new man-made deposits of bulk material within 24 hours of making such bulk material deposits. Stabilization procedures shall include one or more of the following:
  - (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or
  - (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least 6 months; or
  - (C) Installation of wind breaks of such design so as to reduce maximum wind gusts to less than 25 miles per hour in the area of the bulk material deposits.
- (3) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new deposits of bulk material originating from off-site undisturbed natural desert areas within 72 hours. Stabilization procedures shall include one or more of the following:
  - (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or
  - (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least six months.

- (4) A person who conducts or authorizes the conducting of an active operation shall implement at least one of the control actions specified in Rule 403, Table 2 for the source category "Inactive Disturbed Surface Areas" to minimize wind driven fugitive dust from disturbed surface areas at such time when active operations have ceased for a period of at least 20 days.
  - (5) Any person involved in agricultural tilling or soil mulching activities shall cease such activities when wind speeds exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).
- (e) Fugitive Dust Control Plan and Other Requirements for Construction Projects/Earth-Moving Activities
- (1) Any person who conducts or authorizes the conducting of an active operation with a disturbed surface area of more than 5,000 square feet shall not initiate any earth-moving activities unless a fugitive dust control plan is prepared and approved by the Executive Officer in accordance with the requirements of subdivision (f) and the Rule 403.1 Implementation Handbook. These provisions shall not apply to active operations exempted by paragraph (i)(4).
  - (2) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall maintain a complete copy of the approved fugitive dust control plan on site in a conspicuous place at all times and the fugitive dust control plan must be provided upon request.
  - (3) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall install and maintain signage with project contact information that meets the minimum standards of the Rule 403.1 Implementation Handbook prior to initiating any type of earth-moving activities.
  - (4) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) for a project with a disturbed surface area of 50 or more acres shall have an Dust Control Supervisor that:
    - (A) is employed by or contracted with the property owner or developer; and
    - (B) is on-site or is available to be on-site within 30 minutes of initial contact; and

- (C) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 and 403.1 requirements; and
  - (D) has completed the AQMD Coachella Valley Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class.
- (5) Failure to comply with any of the provisions of an approved fugitive dust control plan shall be a violation of this rule.
- (f) Fugitive Dust Control Plan Preparation, Submittal, and Approval Requirements
- (1) A fugitive dust control plan prepared pursuant to paragraph (e)(1) must include the following information in a 8 ½ by 11 inch format:
    - (A) the name(s), address(es), and phone number(s) of the person(s) responsible for the preparation, submittal, and implementation of the fugitive dust control plan; and
    - (B) a description of the operation(s), including a map depicting the location of the site; and
    - (C) a listing of all sources of fugitive dust emissions within the property lines; and
    - (D) a description of the control measures as identified by the Rule 403.1 Implementation Handbook as applied to each of the sources identified in the fugitive dust control plan. The description of the control measures must be sufficiently detailed to demonstrate that the applicable best available control measures will be utilized and/or installed during all periods of active operations; and
    - (E) a description of the required contingency control measures (e.g., increased watering) for immediate implementation upon notice of visible dust crossing any property line.
  - (2) In the event that there are special technical (e.g., non-economic) circumstances, including safety, which prevent the use of at least one of the control measures as identified by the Rule 403.1 Implementation Handbook for any of the sources identified in the fugitive dust control plan, a justification statement must be provided in lieu of the description. The justification statement must explain the reason(s) why the required control measures cannot be implemented.
  - (3) Within 30 calendar days of the receipt of a fugitive dust control plan submitted pursuant to paragraph (e)(1), the Executive Officer will either



approve or apply any necessary conditions to the fugitive dust control plan in writing. For a fugitive dust control plan to be approved, the requirements of paragraph (f)(1) must be satisfied.

- (4) The Executive Officer will apply conditions if the stated fugitive dust control plan measures do not satisfactorily conform to the best available control measures and guidance contained in the Rule 403.1 Implementation Handbook. The conditions necessary to modify the fugitive dust control plan will be provided in writing to the person(s) identified in subparagraph (f)(1)(A). A letter to the Executive Officer stating that such modifications will be incorporated into the fugitive dust control plan shall be deemed sufficient to result in approval of the fugitive dust control plan.
  - (5) Any fugitive dust control plan approved by the Executive Officer shall be valid for a period of one year from the date of approval. Any approved fugitive dust control plan must be resubmitted annually, at least 30 days prior to the expiration date, or the fugitive dust control plan shall expire as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously approved fugitive dust control plan, the submittal may contain a simple statement of no-change (Form 403NC). Otherwise, a resubmittal must contain all the items specified in subparagraphs (f)(1)(A) through (f)(1)(E).
- (g) Wind Monitoring Implementation Requirements
- (1) The determination of wind speed conditions in excess of 25 miles per hour, as specified in paragraphs (d)(1) and (d)(5), shall be based on the following criteria:
    - (A) For facilities with an on-site anemometer:
      - (i) When the on-site anemometer registers at least two wind gusts in excess of 25 miles per hour within a consecutive 30-minute period. Wind speeds shall be deemed to be below 25 miles per hour if there is no recurring wind gust in excess of 25 miles per hour within a consecutive 30-minute period; or
    - (B) For facilities without an on-site anemometer:

- (i) When wind speeds in excess of 25 miles per hour are forecast to occur in the Coachella Valley for that day. This condition shall apply to the full calendar day for which the forecast is valid. (The Executive Officer shall determine meteorological conditions which will cause wind speeds in excess of 25 miles per hour, and shall issue daily forecasts of expected wind conditions. Such forecasts shall be available to the public); or
  - (ii) When wind speeds in excess of 25 miles per hour are not forecast to occur by the District, and fugitive dust emissions are visible for a distance of at least 100 feet from the origin of such emissions, and there is visible evidence of wind driven fugitive dust.
- (2) Any person who elects to install an on-site anemometer shall:
  - (A) Notify the Executive Officer no more than 10 days after installing such equipment. The notification shall contain, at a minimum, the person's name, address, telephone number, description of the operation(s), and first day of operation, as specified in the District's Rule 403.1 Implementation Handbook.
  - (B) Be subject to the provisions of subparagraph (g)(1)(B) for wind speed determinations if equipment outages, malfunctions, or invalid data exceed one hour during active operations on a calendar day.
- (h) Recordkeeping
  - (1) A person subject to the provisions of this rule shall compile written daily records to document the specific actions taken to comply with this Rule. Such records shall be retained for not less than three years and shall be made available to the Executive Officer upon request.
  - (2) In addition to the provisions of paragraph (h)(1), any person who elects to install an on-site anemometer shall also compile written records. Such records shall contain:
    - (A) Location, vendor, model, and serial number of the anemometer;
    - (B) The time of occurrence of any wind gust in excess of 25 miles per hour during hours of active operations;

(C) The actions taken to comply with the provisions of paragraphs (d)(5) and (i)(3), as applicable.

(i) Exemptions

- (1) The provisions of this rule shall not apply to ceased or inactive mining operations subject to the requirements of the Surface Mining and Recovery Act (SMARA) of 1975, provided that the provisions of the SMARA Reclamation Plan are implemented by the owner and are at least as stringent as those contained in this rule;
- (2) The provisions of paragraphs (d)(2), (d)(3), and (d)(4) shall not apply to:
  - (A) Any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the Endangered Species Act as determined in writing by the State or federal agency responsible for making such determinations;
  - (B) Any disturbed surface areas or bulk material deposits with a surface area less than 2,500 square feet;
  - (C) Non-routine or emergency maintenance of flood control channels and water spreading basins.
- (3) The provisions of paragraph (d)(5) shall not apply to agricultural tilling activities or soil mulching activities under the following conditions:
  - (A) If the prohibitory requirements of this Rule have occurred during six or more hours of active operations on each of two previous consecutive days, then a one-day exemption will be allowed. (These activities would again be subject to the prohibitory requirements of this Rule following this one day exemption.)
  - (B) If the prohibitory requirements of this Rule have occurred during sixty or more cumulative hours of active operations within a calendar month, then an exemption will be allowed for the remainder of the calendar month. (These activities would again be subject to the prohibitory requirements of this Rule at the start of the following month.)
  - (C) During periods of precipitation.

- (4) The provisions of paragraph (e)(1) shall not apply to any active operation which is required to submit a dust control plan to any city or county government that has adopted a District-approved dust control ordinance.
  
- (j) Fees
  - (1) Any person subject to a fugitive dust control plan submittal pursuant to paragraph (e)(1) shall be assessed applicable filing and evaluation fees pursuant to Rule 306.
  - (2) The submittal of an annual statement of no-change, pursuant to paragraph (f)(5), shall not be considered as an annual review, and therefore shall not be subject to annual review fees, pursuant to Rule 306.

APPENDIX "B"

PROJECT SIGN

8'-0"

**RIVERSIDE COUNTY FLOOD CONTROL** ①  
**AND**  
**WATER CONSERVATION DISTRICT** ②  


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**PALM CANYON WASH STAGE 4 LEVEE RESTORATION**  


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**STAGE 91** ③  


---

**TOTAL CONSTRUCTION COST: \$** \* ④  
**FUNDED BY RIVERSIDE COUNTY FLOOD CONTROL AND**  
**WATER CONSERVATION DISTRICT** ⑤  


---

**START DATE:** \* ④ **APPROX. COMPLETION DATE:** \*  


---

**ENGINEER:** ④ **CONTRACTOR:** \*  
 WARREN D. WILLIAMS  
 GENERAL MANAGER-CHIEF ENGINEER ⑤  
 RIVERSIDE COUNTY FLOOD CONTROL  
 AND WATER CONSERVATION DISTRICT  
 RIVERSIDE, CALIFORNIA  
 (951) 955-1200

LETTER SCHEDULE

	SIZE	COLOR
①	2"	BLACK
②	4"	ROYAL
③	3"	ROYAL
④	2"	ROYAL
⑤	2"	BLACK

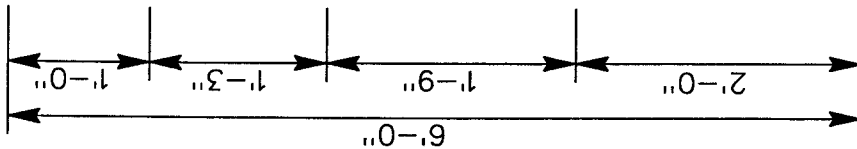
3/4" CDX GRADE PLYWOOD



NOTES:

1. MINIMUM SPACING BETWEEN LINES 1".
2. \* -INFO. FURNISHED BY ENGINEER
3. ALL LETTERS FILLED AND CENTERED
4. THE STRIPES ARE GOLD AND BLACK ON WHITE BACKGROUND.

APPENDIX "B" PROJECT SIGN



APPENDIX "C"

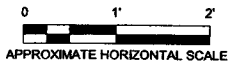
LOG OF SOIL BORINGS

# AMEC Geomatrix

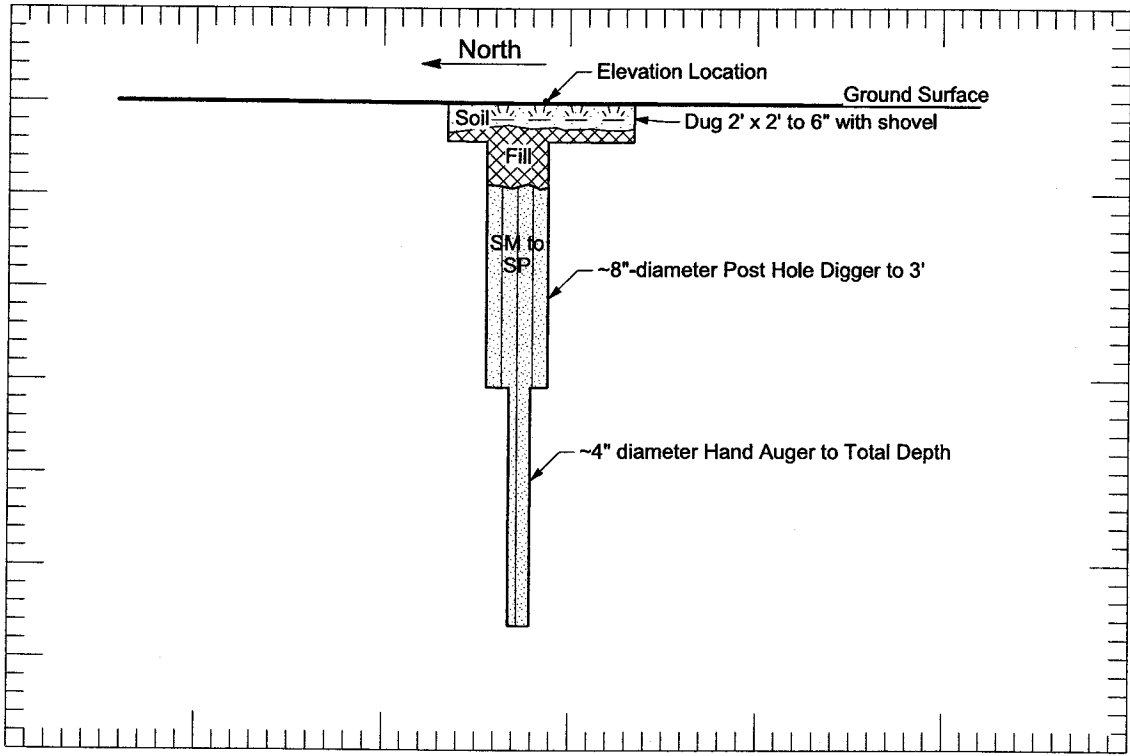
# LOG OF TEST PIT No. TP-1

Project No.: 0132030020 Project Name: PALM CANYON WASH STAGE 91 Date Excavated: 3/10/2011  
 Ground Elevation: 340.9' Responsible Professional: J. Weaver Ex. Method: hand Logged By: C. Spitzer

DEPTH (feet)	Sample	Symbol	DESCRIPTION
			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
			sod/top soil, earthworms, moist from irrigation
1	1	X	SILTY SAND (SM): (af) brown, ~15% silt, nonplastic, no bedding or laminations, contact observed in pit wall, fine to medium sand
2			SILTY SAND (SM) to POORLY GRADED SAND (SP): brown, fine to medium sand, <15% nonplastic fines, slightly micaceous, laminations present, possible flood wash debris
			@ 2' 4"-diameter oblong, rounded cobble
3	2	X	
4	3 Bulk (0-4')		
5			
			Bottom of pit 5.5' bgs. No groundwater encountered at the time of excavation. Backfilled with cuttings. 2' x 2' sod replaced. Elevation provided by County of Riverside Surveyor on site at time of completion.



## PROFILE





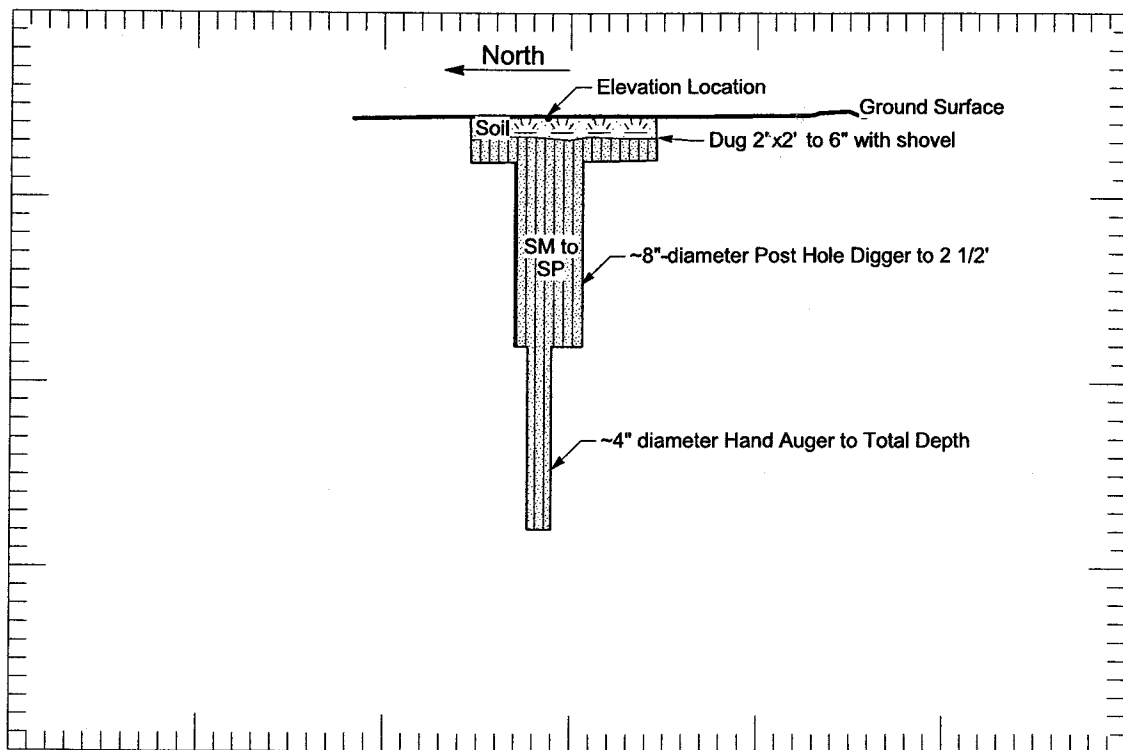
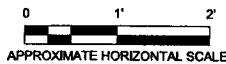
# AMEC Geomatrix

# LOG OF TEST PIT No. TP-2

Project No.: 0132030020 Project Name: PALM CANYON WASH STAGE 91 Date Excavated: 3/10/2011  
 Ground Elevation: 338.2' Responsible Professional: J. Weaver Ex. Method: hand Logged By: C. Spitzer

DEPTH (feet)	Sample	Symbol	DESCRIPTION
			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
			sod/topsoil, moist from irrigation
1			SILTY SAND (SM) to POORLY GRADED SAND (SP): light brown, slightly moist, ~15% fines, nonplastic, no bedding or lamination observed, rootlets (~1/8" diameter) to 18", one 1/2" diameter rootlet at 18", fine to medium sand, slightly micaceous, possible fill or Qal
2	1	NR	
3	2	Bulk (0-5.5')	
4			
5			
			Bottom of pit at 5.5' bgs. No groundwater encountered at time of excavation. Backfilled with cuttings. 2' x 2' sod replaced. Elevation provided by County of Riverside Surveyor on site at time of completion.

## PROFILE

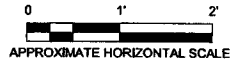


# AMEC Geomatrix

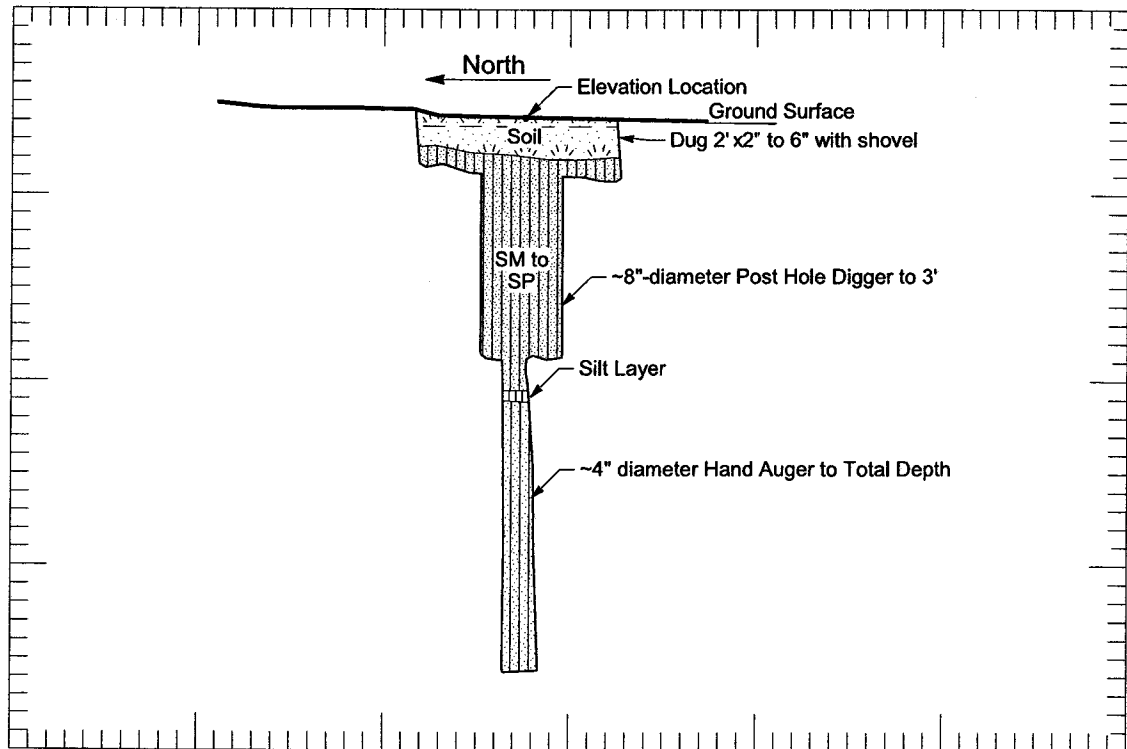
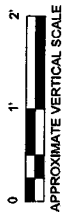
# LOG OF TEST PIT No. TP-3

Project No.: 0132030020 Project Name: PALM CANYON WASH STAGE 91 Date Excavated: 3/10/2011  
 Ground Elevation: 337.8' Responsible Professional: J. Weaver Ex. Method: hand Logged By: C. Spitzer

DEPTH (feet)	Sample	Symbol	DESCRIPTION
			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
1	1		sod/topsoil, moist SILTY SAND (SM) to POORLY GRADED SAND (SP), light brown, slightly moist, ~15% fines, no visible bedding or laminations observed, medium to fine gravel, possible fill
2			
3	2 Bulk (0-5)		
4			
5			
6			Bottom of pit at 6' bgs. No groundwater encountered at time of excavation. Backfilled with cuttings. 2' x 2' sod replaced. Elevation provided by County of Riverside Surveyor on site at time of completion.



## PROFILE



# AMEC Geomatrix

# LOG OF TEST PIT No. TP-4

Project No.: 0132030020 Project Name: PALM CANYON WASH STAGE 91

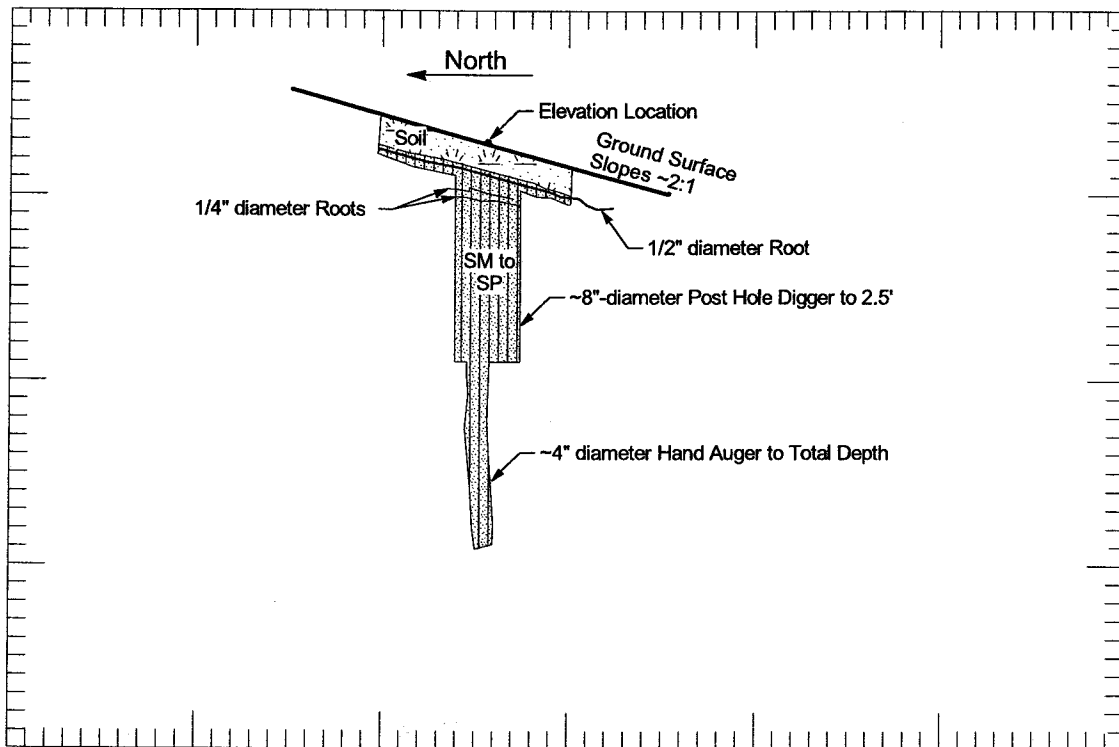
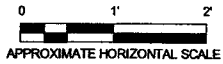
Date Excavated: 3/10/2011

Ground Elevation: 338.9' Responsible Professional: J. Weaver Ex. Method: hand

Logged By: C. Spitzer

DEPTH (feet)	Sample	Symbol	DESCRIPTION
			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
			sod/topsoil, moist
1	1		SILTY SAND (SM) to POORLY GRADED SAND (SP): light brown, moist, to slightly moist, ~15% fines, no visible bedding or laminations observed, 1/2" diameter root at 5", several 1/4" roots to ~1', medium to fine gravel, slightly micaceous, fill based on location on levee slope
2	2		
3			
4	3	Bulk (0-5')	
5			
			Bottom of pit at 5.5' bgs. No groundwater encountered at time of excavation. Backfilled with cuttings. 2' x 2' sod replaced. Elevation provided by County of Riverside Surveyor on site at time of completion.

## PROFILE



GeoTek, Inc.  
LOG OF EXPLORATORY BORING

CLIENT: Noite  
 PROJECT NAME: Riverside County Flood Levees  
 PROJECT NO.: 0387-CR3  
 LOCATION: ±Station 180+00

DRILLER: 2R Drilling  
 DRILL METHOD: 8" Hollow Stem  
 HAMMER: Auto 140#/30"

LOGGED BY: EHL  
 OPERATOR: Nick  
 RIG TYPE: CME 55  
 DATE: 3/12/2008

Depth (ft)	SAMPLES			USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing		
	Sample Type	Blows/ 6 in	Sample Number			Water Content (%)	Dry Density (pcf)	Others
<b>Palm Canyon Wash Levee, ~Station 180+00</b>								
<b>BORING NO.: B-16</b>								
5		17 30 34		SM	<u>FILL:</u> Silty SAND (SM), medium gray brown, damp to slightly moist			MD
10		8 15 27			Same	0.38	115.6	
15		4 9 13			<u>ALLUVIUM:</u> Silty fine SAND (SM), light brown, damp, medium dense (disturbed sample)	0.43	106.3	
20		4 7 9		SM	Silty fine SAND (SM), light gray brown, dry, cohesionless, medium dense	0.45		
25		7 12 14			SAME, with some cohesion			SH
30								

<b>LEGEND</b>	<b>Sample type:</b>	---Ring	---SPT	---Small Bulk	---Large Bulk	---No Recovery	---Water Table	
	<b>Lab testing:</b>	AL = Atterberg Limits	SR = Sulfate/Resistivity Test	EI = Expansion Index	SH = Shear Test	SA = Sieve Analysis	HC = Hydrocollapse	RV = R-Value Test

GeoTek, Inc.  
LOG OF EXPLORATORY BORING

CLIENT: <u>Noite</u>	DRILLER: <u>2R Drilling</u>	LOGGED BY: <u>EHL</u>
PROJECT NAME: <u>Riverside County Flood Levees</u>	DRILL METHOD: <u>8" Hollow Stem</u>	OPERATOR: <u>Nick</u>
PROJECT NO.: <u>0387-CR3</u>	HAMMER: <u>Auto 140#/30"</u>	RIG TYPE: <u>CME 55</u>
LOCATION: <u>±Station 180+00</u>		DATE: <u>3/12/2008</u>

Depth (ft)	SAMPLES			USCS Symbol	Palm Canyon Wash Levee, ~Station 180+00  BORING NO.: <i>B-16 continued</i>  MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing		
	Sample Type	Blows/ 6 in	Sample Number			Water Content (%)	Dry Density (pcf)	Others
30		7 14 17			<u>continued</u>			
35		12 36 50			Gravelly Silty Sand (SM), light gray, damp to dry, medium dense, cohesionless, very friable	0.23	119.4	
40		13 16 17						
45		7 14 50-3"						
50		12 50						
BORING TERMINATED AT 51.5 FEET								
55					No groundwater encountered Boring backfilled with soil cuttings			
60								

<b>LEGEND</b>	Sample type:	---Ring	---SPT	---Small Bulk	---Large Bulk	---No Recovery	---Water Table
	Lab testing:	AL = Atterberg Limits	SR = Sulfate/Resistivity Test	EI = Expansion index	SH = Shear Test	SA = Sieve Analysis	HC = Hydrocollapse

GeoTek, Inc.  
LOG OF EXPLORATORY BORING

CLIENT: Notte  
PROJECT NAME: Riverside County Flood Levees  
PROJECT NO.: 0387-CR3  
LOCATION: Tahquitz Creek Golf Course

DRILLER: 2R Drilling  
DRILL METHOD: 8" Hollow Stem  
HAMMER: Auto 140#/30"

LOGGED BY: EHL  
OPERATOR: Nick  
RIG TYPE: CME 55  
DATE: 3/12/2008

Depth (ft)	SAMPLES			USCS Symbol	Palm Canyon Wash Levee, ~960' west of Golf Club Dr.  BORING NO.: B-17	Laboratory Testing		
	Sample Type	Blows/6 in	Sample Number			Water Content (%)	Dry Density (pcf)	Others
MATERIAL DESCRIPTION AND COMMENTS								
5		8 14 19		SM	<u>FILL:</u> Silty SAND (SM), light gray brown, moist, medium dense	6.8	109.0	SA
10		7 12 8		SM	SAME	8.2	102.8	
15		5 7 9		SM	<u>ALLUVIUM:</u>  Medium to fine SAND (SM), light gray brown, moist, medium dense	6.9	98.8	
20		2 5 6		SM	SAME			SA
25		7 12 17		SM	SAME			Permeability
30								

<b>LEGEND</b>	<b>Sample type:</b>	---Ring	---SPT	---Small Bulk	---Large Bulk	---No Recovery	---Water Table	
	<b>Lab testing:</b>	AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test	SR = Sulfate/Resisitivity Test	SH = Shear Test	HC = Hydrocollapse

GeoTek, Inc.  
LOG OF EXPLORATORY BORING

CLIENT: Nolte DRILLER: 2R Drilling LOGGED BY: EHL  
 PROJECT NAME: Riverside County Flood Levees DRILL METHOD: 8" Hollow Stem OPERATOR: Nick  
 PROJECT NO.: 0387-CR3 HAMMER: Auto 140#/30" RIG TYPE: CME 55  
 LOCATION: Tahquitz Creek Golf Course DATE: 3/12/2008

Depth (ft)	SAMPLES			USCS Symbol	Palm Canyon Wash Levee, ~960' west of Golf Club Dr.  BORING NO.: B-17 continued	Laboratory Testing		
	Sample Type	Blows/ 6 m	Sample Number			Water Content (%)	Dry Density (pcf)	Others
MATERIAL DESCRIPTION AND COMMENTS								
30	[Ring]	3			<u>continued</u> SAME			
35	[Ring]	5 11 22			Silty fine SAND to fine sandy SILT (SM/ML), medium gray, slightly moist to moist, medium dense	15.5	106.9	
40	[No Recovery]	5 30 25						
45	[Ring]	14 27 44			Silty f-m SAND (SM) with gravel, light gray, slightly moist, medium dense	3.5	109.3	
50	[Ring]	7 10 12			Silty fine SAND (SM), light gray, slightly moist, medium dense			
BORING TERMINATED AT 51.5 FEET								
55					No groundwater encountered Boring backfilled with soil cuttings			
60								

LEGEND	<b>Sample type:</b> [Ring] --Ring [SPT] --SPT [Small Bulk] --Small Bulk [Large Bulk] --Large Bulk [No Recovery] --No Recovery [Water Table] --Water Table
	<b>Lab testing:</b> AL = Atterberg Limits EI = Expansion Index SA = Sieve Analysis RV = R-Value Test SR = Sulfate/Resistivity Test SH = Shear Test HC = Hydrocollapse MD = Maximum Density

GeoTek, Inc.  
**LOG OF EXPLORATORY BORING**

CLIENT: Nolie  
 PROJECT NAME: Riverside County Flood Levees  
 PROJECT NO.: 0387-CR3  
 LOCATION: \_\_\_\_\_

DRILLER: 2R Drilling  
 DRILL METHOD: 8" Hollow Stem  
 HAMMER: Auto 140#/30"

LOGGED BY: EHL  
 OPERATOR: Nick  
 RIG TYPE: CME 55  
 DATE: 3/12/2008

Depth (ft)	SAMPLES			USCS Symbol	Palm Canyon Wash Levee, ~30' east of Golf Club Dr.  BORING NO.: B-18	Laboratory Testing		
	Sample Type	Blows/ 6 in	Sample Number			Water Content (%)	Dry Density (pcf)	Others
MATERIAL DESCRIPTION AND COMMENTS								
5	■	11	19	32	SM <b>FILL:</b> Silty SAND (SM), gray, slightly moist  becomes damp to slightly moist, medium dense	0.41	108.2	
10	■	9	9	12				
15	■	3	4	5	SM <b>ALLUVIUM:</b>  Silty medium to fine SAND (SM), gray, damp to slightly moist, loose to medium dense  SAME, medium dense  SAME	0.48	92.1	SA
20	■	3	10	11				
25	■	3	5	7				
30								

<b>LEGEND</b>	<b>Sample type:</b> ■ --Ring    ■ --SPT    □ --Small Bulk    ⊗ --Large Bulk    □ --No Recovery    ▽ --Water Table
	<b>Lab testing:</b> AL = Atterberg Limits    EI = Expansion Index    SA = Sieve Analysis    RV = R-Value Test SR = Sulfate/Resistivity Test    SH = Shear Test    HC = Hydrocollapse    MD = Maximum Density



GeoTek, Inc.  
LOG OF EXPLORATORY BORING

CLIENT: Nalte  
PROJECT NAME: Riverside County Flood Levees  
PROJECT NO.: 0387-CR3  
LOCATION: \_\_\_\_\_

DRILLER: 2R Drilling  
DRILL METHOD: 8" Hollow Stem  
HAMMER: Auto 140#/30"

LOGGED BY: EHL  
OPERATOR: Nick  
RIG TYPE: CME 55  
DATE: 3/12/2008

Depth (ft)	SAMPLES			USCS Symbol	Palm Canyon Wash Levee, ~30' east of Golf Club Dr.  BORING NO.: <i>B-18 continued</i>  MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing		
	Sample Type	Blows/6 in	Sample Number			Water Content (%)	Dry Density (pcf)	Others
30		6		SM	<u>continued</u>	0.45	99.0	
		10			Silty fine SAND (SM), light gray, damp, medium dense			
		12						
35			3					
			8					
			8					
40								
			14					
			26					
			50					
					cobble @ 42'			
45								
			7					
			26		Gravelly silty fine SAND (SM), light gray, dry to damp			
			28					
50								
			37					
			50-4"		Silty f-m SAND (SM), gray mottled, damp	0.85	120.1	
					BORING TERMINATED AT 51 FEET			
					No groundwater encountered Boring backfilled with soil cuttings			
55								
60								

<b>LEGEND</b>	<b>Sample type:</b>	---Ring	---SPT	---Small Bulk	---Large Bulk	---No Recovery	---Water Table	
	<b>Lab testing:</b>	AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test	SR = Sulfate/Resistivity Test	SH = Shear Test	HC = Hydrocollapse

APPENDIX "D"

NPDES GENERAL PERMIT  
FOR CONSTRUCTION

**ANNUAL REPORT FOR  
ORDER NO. 2009-0009-DWQ  
GENERAL PERMIT FOR STORMWATER DISCHARGES  
ASSOCIATED WITH CONSTRUCTION AND LAND  
DISTURBANCE ACTIVITIES**

**PROJECT NAME**  
**PROJECT ADDRESS**

Submitted to:  
California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, California 92501-3348

Prepared by:  
**Contractor's Name**  
**Contractor's Address**  
**Contractor's Address**  
**Contractor's Contact Person**  
**Contractor's Contact Phone Number**

Prepared for:  
Riverside County Flood Control and Water Conservation District  
1995 Market Street  
Riverside, California 92501  
**Contact Person**  
**Contact Phone Number**

**July 1, 20 to June 30, 20**

**CONTRACTOR'S CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**Contractor's Name** \_\_\_\_\_ **Contractor's Title** \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**OWNER'S CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signed: \_\_\_\_\_

Jason E. Uhley  
Chief of Watershed Protection Division  
Riverside County Flood Control  
and Water Conservation District

## SUMMARY OF SAMPLING AND ANALYSIS RESULTS

Include a summary and evaluation of all sampling and analysis results, including copies of laboratory reports.

## ANALYTICAL METHOD RESULTS

Include the analytical method(s), method reporting unit(s), and method detection limit(s) of each analytical parameter (analytical results that are less than the method detection limit shall be reported as "less than the method detection limit").

**CORRECTIVE ACTIONS**

Summarize all corrective actions taken during the compliance year. Also identify any compliance activities or corrective action that were not implemented.

## VIOLATIONS

Summarize all violations of the General Permit.



## INSPECTIONS

Provide:

1. The names of individual(s) who performed the facility inspections, sampling, visual observation (inspections), and/or measurements;
2. The date, place, time of facility inspections, sampling, visual observation (inspections), and/or measurements, including precipitation (rain gauge); and
3. The visual observation and sample collection exception records and reports.

## TRAINING

Provide training information consisting of:

1. Documentation of all training for individuals responsible for all activities associated with compliance with this General Permit;
2. Documentation of all training for individuals responsible for BMP installation, inspection, maintenance, and repair; and
3. Documentation of all training for individuals responsible for overseeing, revising, and amending the SWPPP.

# DISTRICT

## INDEX

SHEET NO.:

TITLE SHEET	1
PLAN & PROFILE	2-4
MISCELLANEOUS DETAILS	5-6

RAMON

SUNNY

MESQUITE

TR  
SECTION  
GENE

### R.C.F.C. & W.C.D. STANDARD DRAWINGS

M814	ABBREVIATIONS AND SYMBOLS
M815	BEDDING AND PAY LINES

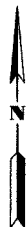
### COUNTY ROAD IMPROVEMENT STANDARDS

203	TYPE "D-1" CURB
207	CONCRETE DRIVEWAY APPROACH

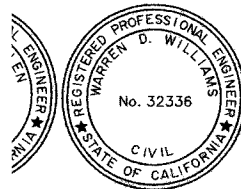
END  
PROJ

PALM CANYON WASH

DESERT LAKES DR



LOC

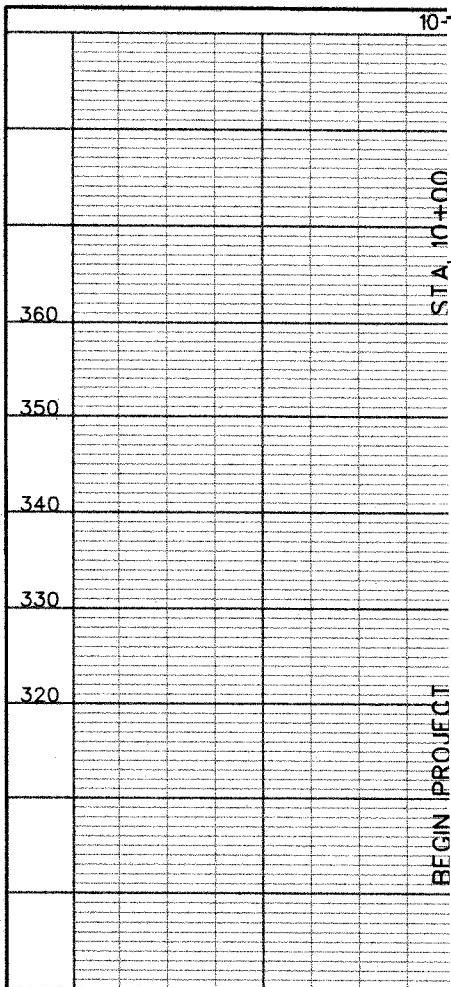


DESIGNED BY:  
*Warren D. Williams*  
REGISTERED PROFESSIONAL ENGINEER  
No. 32336 R.E. NO. 32336

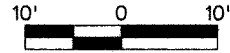
PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91

TITLE SHEET

PROJECT NO.	6-8-0040
DRAWING NO.	6-381
SHEET NO.	1 OF 6

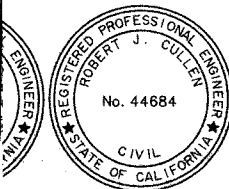
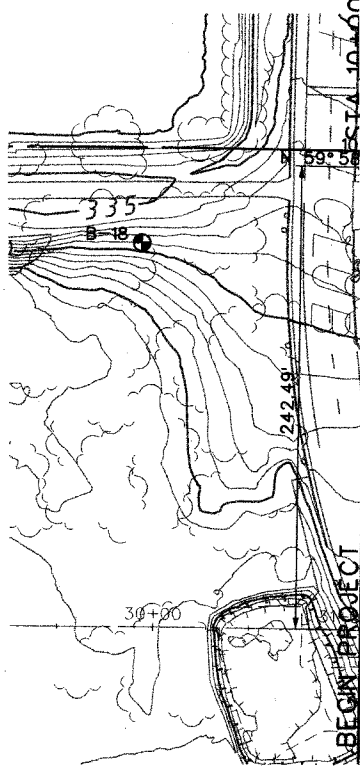


SECTION AT STATION 16+00



VEY CONTROL LINE CURVE DATA

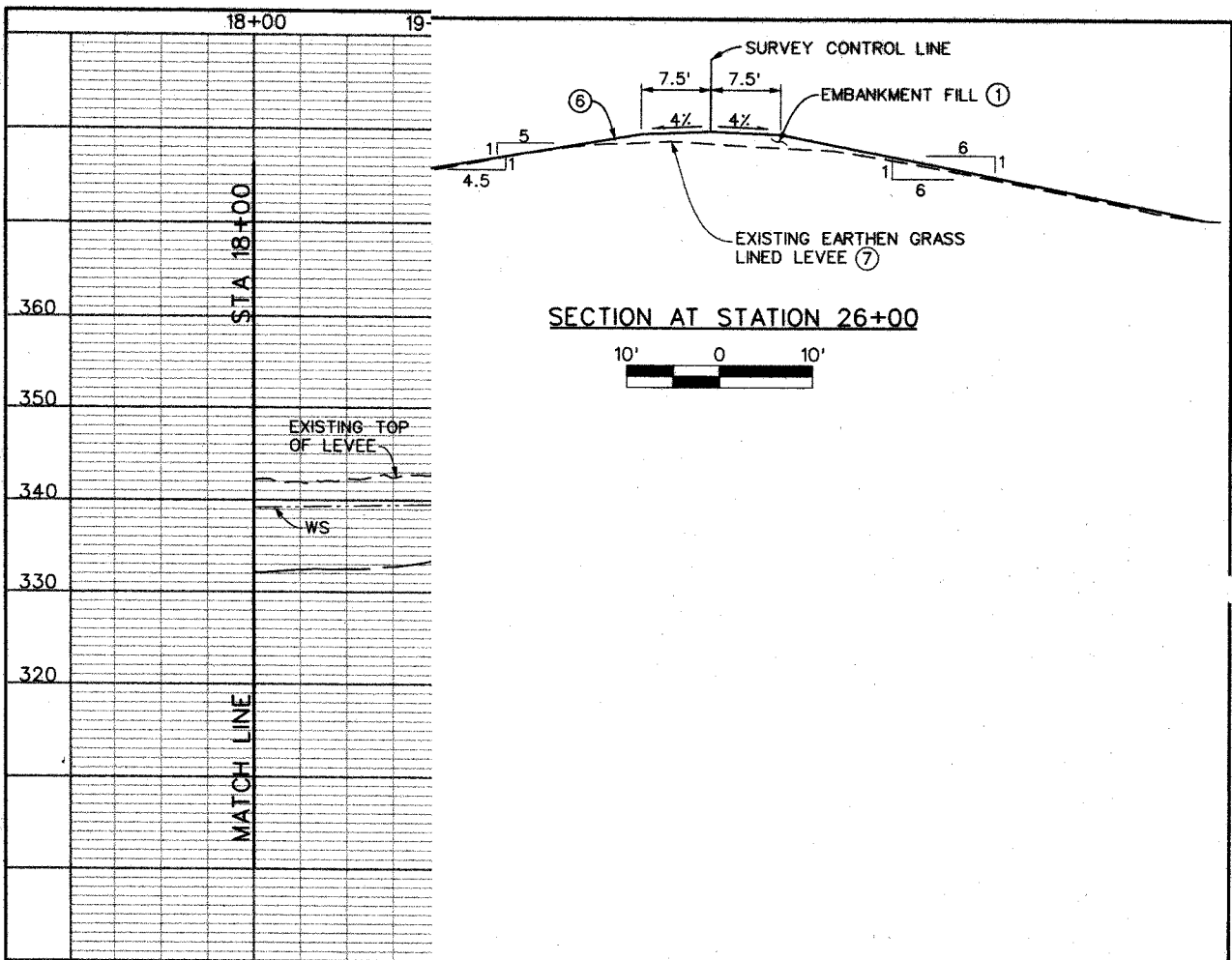
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 $L = 616.41'$   
 $T = 308.28'$   
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 $EC = STA 16+38.78$   
 $PI = N 2233960.34$   
 $E 6491030.23$



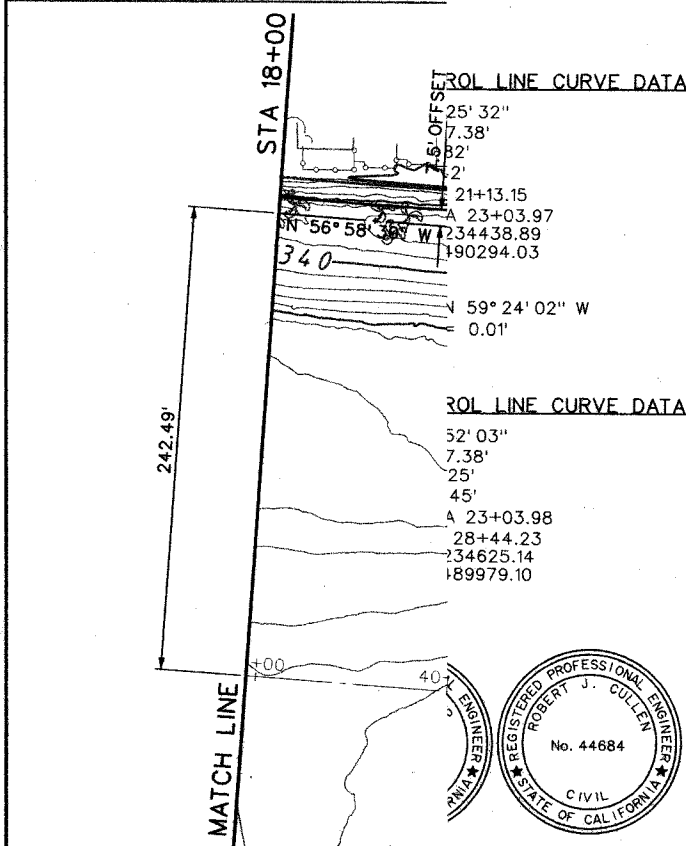
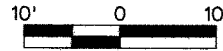
APPROVED BY:  
*[Signature]*  
 20 MAY 2011

**PALM CANYON WASH**  
**STAGE 4**  
**LEVEE RESTORATION**  
 STAGE 91  
 PLAN & PROFILE  
 STA 10+00 TO STA 18+00

PROJECT NO.	6-8-0040
DRAWING NO.	6-381
SHEET NO.	2 OF 6



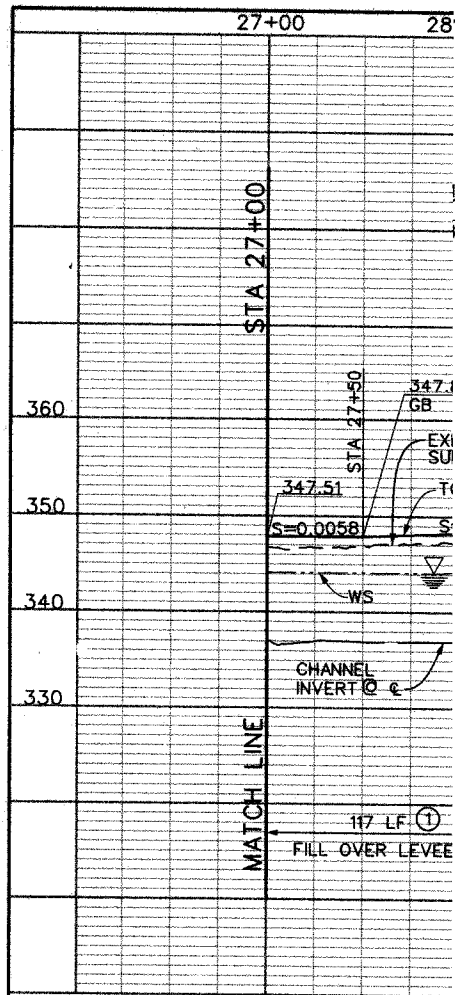
**SECTION AT STATION 26+00**



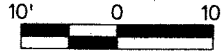
**NOTES**

- ① PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAIL ON SHEET 5.
- ② REMOVE EXISTING CART PATH PER SHADED LIMITS SHOWN.
- ③ RECONSTRUCT 10' WIDE 124' LENGTH CONCRETE CART PATH PER SHADED LIMITS SHOWN AND DETAIL "A" ON SHEET 5.
- ④ PROTECT TREE IN PLACE.
- ⑤ REMOVE TREE.
- ⑥ PLACE SOD OVER FILL PER LIMITS SHOWN.
- ⑦ REMOVE EXISTING GRASS AND SCARIFY EXISTING EARTHEN LEVEE PER LIMITS SHOWN.
- ⑧ PROTECT EXISTING UTILITIES IN-PLACE.
9. CONTRACTOR SHALL PROTECT OR REPLACE IN KIND IRRIGATION SYSTEM. IDENTIFY AND ADJUST SPRINKLERS TO GRADE.
- ⑩ PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.

APPROVED BY:  26-May-2011	<b>PALM CANYON WASH          STAGE 4          LEVEE RESTORATION          STAGE 91          PLAN &amp; PROFILE          STA 18+00 TO STA 27+00</b>	PROJECT NO. <b>6-8-0040</b>
		DRAWING NO. <b>6-381</b>
		SHEET NO. <b>3 OF 6</b>



**SECTION AT STATION 28+00**



**(A) SURVEY CONTROL LINE CURVE DATA**

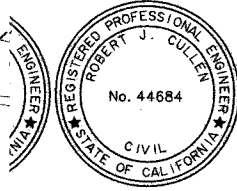
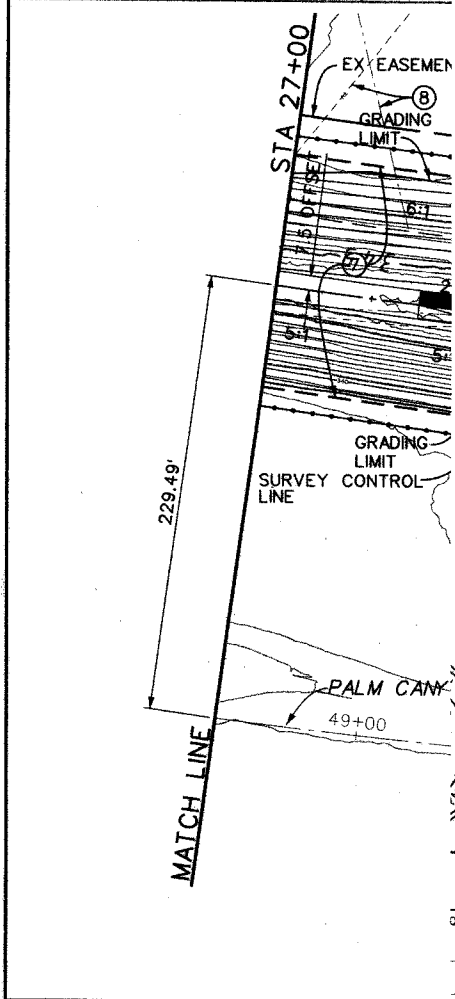
$\Delta = 6^\circ 52' 03''$   
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 $L = 540.25$   
 $T = 270.45'$   
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 $EC = STA 28+44.23$   
 $PI = N 2234625.14$   
 $E 6489979.10$

**(B) SURVEY CONTROL LINE DATA**

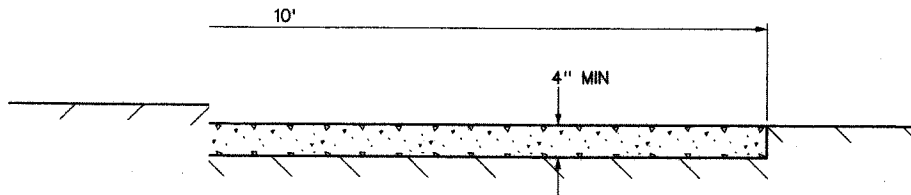
BEARING = N  $66^\circ 16' 05''$  W  
 DISTANCE = 22.22'

**NOTES**

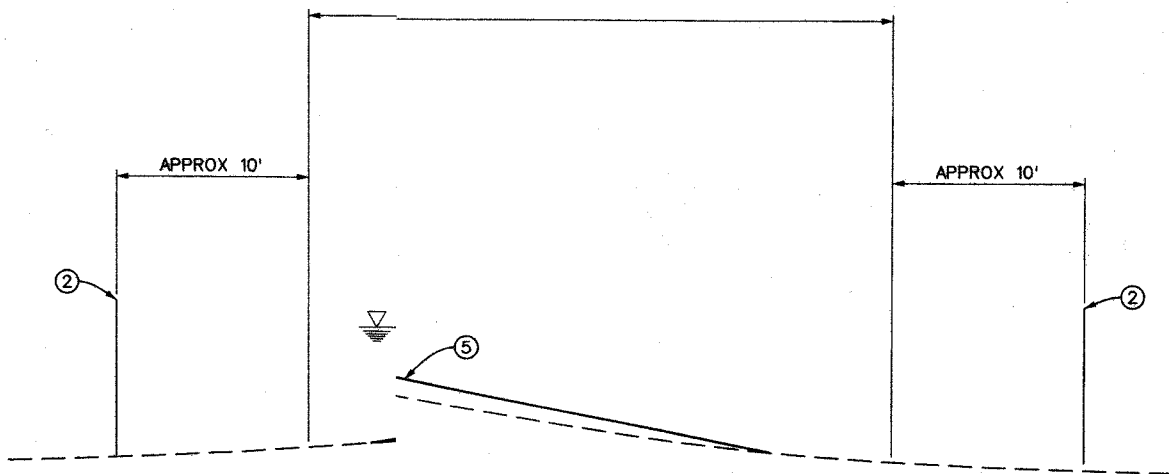
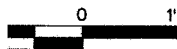
- ① PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAIL ON SHEET 5.
- ② REMOVE EXISTING CART PATH PER SHADED LIMITS SHOWN.
- ③ RECONSTRUCT 10'-8" WIDE 72' LENGTH CONCRETE CART PATH WITH CURB TYPE "D-1" ON EAST SIDE PER SHADED LIMITS SHOWN AND DETAIL "B" ON SHEET 5.
- ④ PROTECT TREE IN PLACE.
- ⑤ REMOVE TREE.
- ⑥ PLACE SOD OVER FILL PER LIMITS SHOWN.
- ⑦ REMOVE EXISTING GRASS AND SCARIFY EXISTING EARTHEN LEVEE PER LIMITS SHOWN.
- ⑧ PROTECT EXISTING UTILITIES IN-PLACE.
9. CONTRACTOR SHALL PROTECT OR REPLACE IN KIND IRRIGATION SYSTEM. IDENTIFY AND ADJUST SPRINKLERS TO GRADE.
- ⑩ CONSTRUCT ACCESS ROAD PER DETAIL ON SHEET 6.
- ⑪ WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL ON SHEET 6 AND COUNTY ROAD IMPROVEMENT STD 207.
- ⑫ REMOVE INTERFERING PORTION OF ABANDONED PIPE AND VALVES.
- ⑬ PROTECT IN-PLACE EXISTING CONCRETE MOW STRIP.
- ⑭ PROTECT IN-PLACE EXISTING POWER POLE.
- ⑮ PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- ⑯ PROTECT IN-PLACE EXISTING UTILITY CONTROL BOX.



DRAWN BY:	<b>PALM CANYON WASH</b>	PROJECT NO.
	<b>STAGE 4</b>	<b>6-8-0040</b>
	<b>LEVEE RESTORATION</b>	DRAWING NO.
	<b>STAGE 91</b>	<b>6-381</b>
	<b>PLAN &amp; PROFILE</b>	SHEET NO.
	<b>STA 27+00 TO STA 31+13.35</b>	<b>4 OF 6</b>

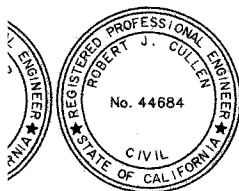


RETE CART PATH ① ②  
NEAR STA 30+07

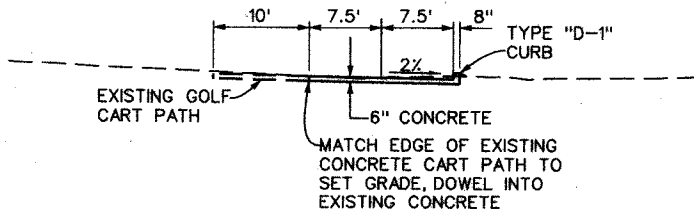
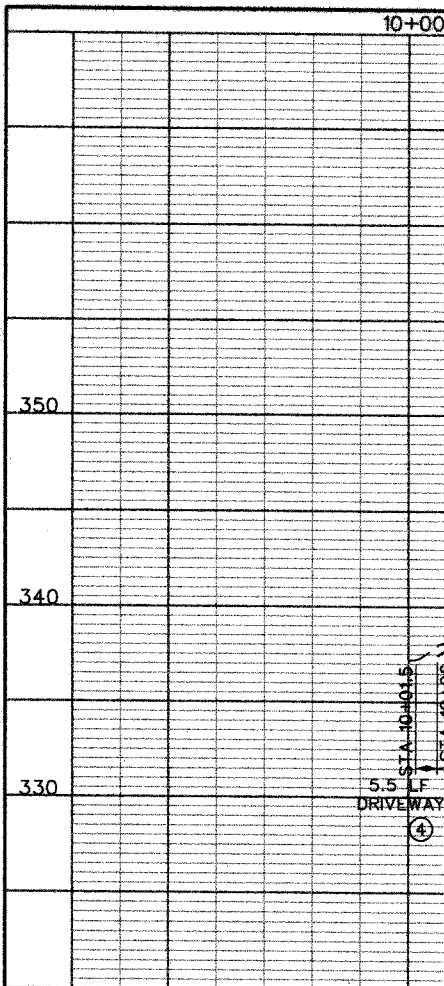


**NOTES**

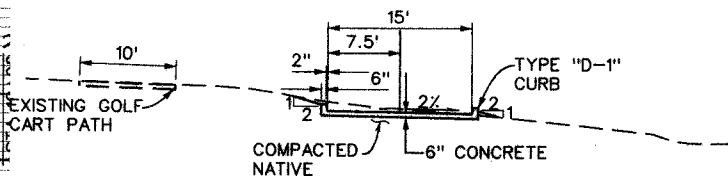
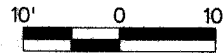
- ① ALL CONSTRUCTION TO BE OF CLASS "B" CONCRETE 4" MINIMUM THICKNESS.
- ② PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- ③ CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD PLAN 203.
- ④ PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- ⑤ PLACE SOD OVER FILL PER LIMITS SHOWN.
- ⑥ REMOVE EXISTING GRASS AND RELOCATE INTERFERING IRRIGATION LINES. SCARIFY EARTHEN LEVEE PER LIMITS SHOWN AND PREPARE SUBGRADE PER SPECIFICATIONS.



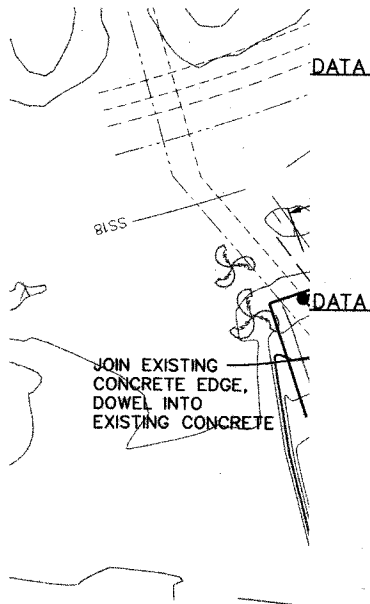
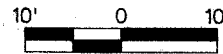
APPROVED BY:  26-MAY-2011	<b>PALM CANYON WASH STAGE 4 LEVEE RESTORATION STAGE 91</b>	PROJECT NO. <b>6-8-0040</b>
	DETAILS	DRAWING NO. <b>6-381</b>
		SHEET NO. <b>5 OF 6</b>



SECTION AT STATION 10+25

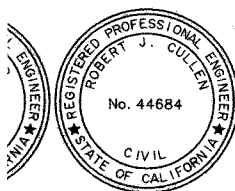


SECTION AT STATION 11+00



**NOTES**

- ① PROTECT IN-PLACE EXISTING POWER POLE.
- ② CONSTRUCT 15' WIDE ACCESS ROAD 6" THICK CONCRETE.
- ③ CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD NO. 203.
- ④ REMOVE INTERFERING PORTION OF EXISTING NORTH APRON. WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL HEREON AND COUNTY ROAD IMPROVEMENT STD 207.
- ⑤ PLACE FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- ⑥ PROTECT IN-PLACE EXISTING UTILITY LINES.



DESIGNED BY:  
  
 26-MAY-2011

**PALM CANYON WASH  
 STAGE 4  
 LEVEE RESTORATION  
 STAGE 91**

ACCESS ROAD DETAILS

PROJECT NO.	6-8-0040
DRAWING NO.	6-381
SHEET NO.	6 OF 6



# RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

INDEX

SHEET

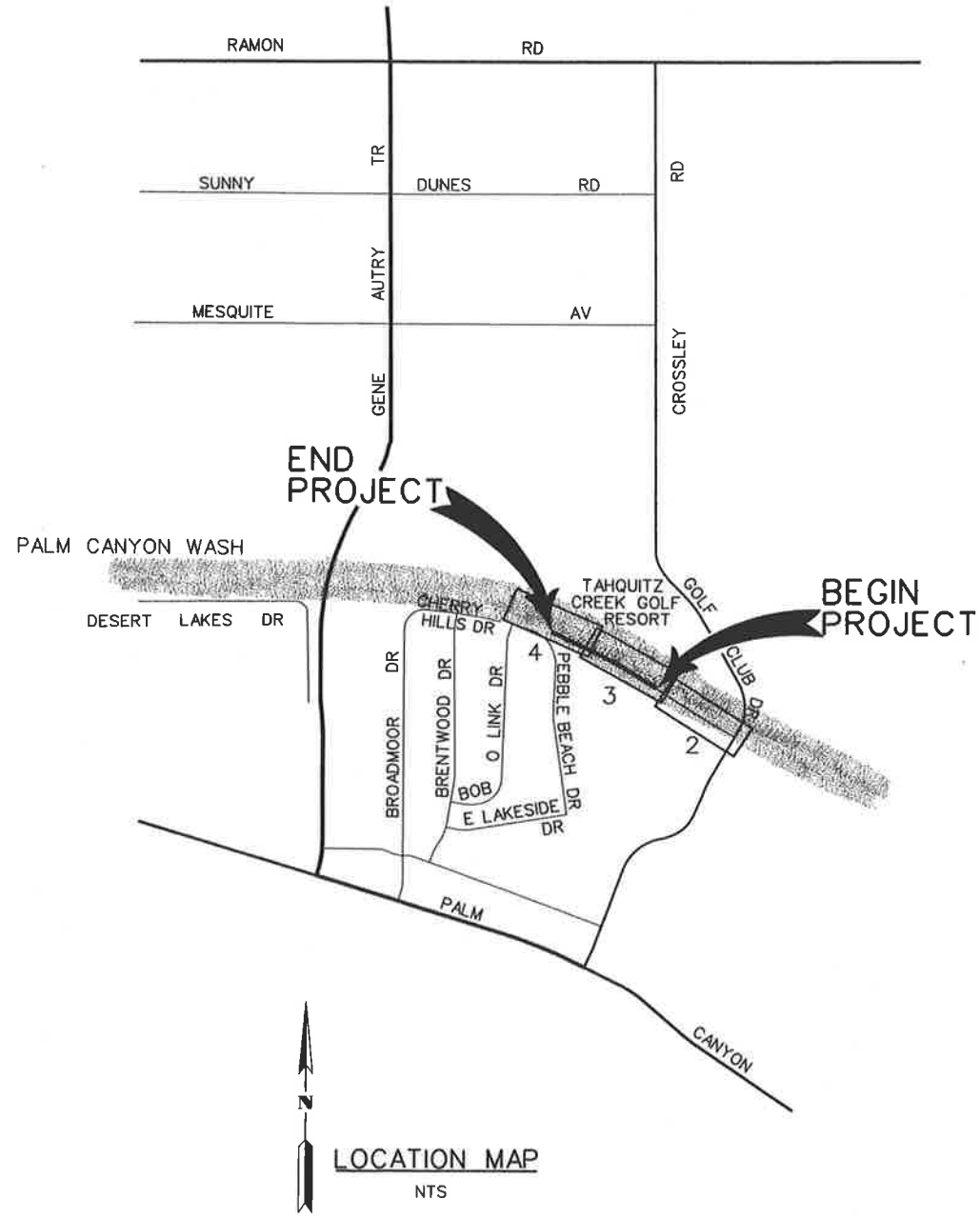
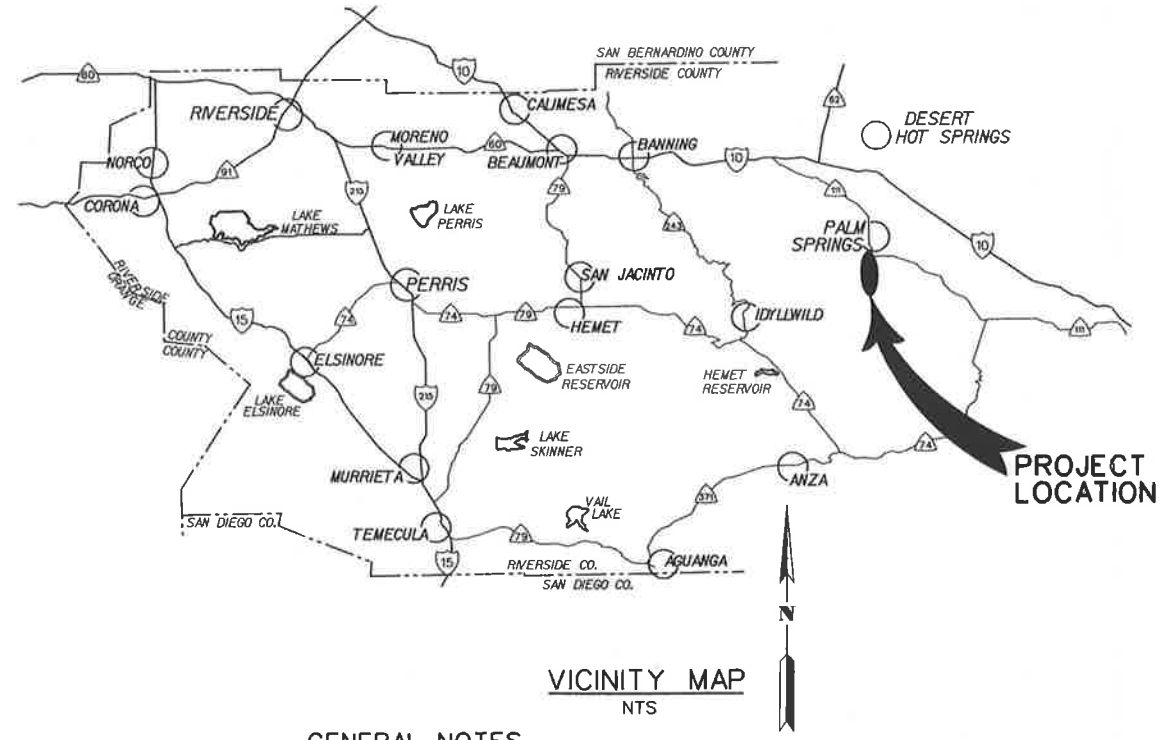
TITLE SHEET  
PLAN & PROFILE  
MISCELLANEOUS DETAILS

## R.C.F.C. & W.C.D. STANDARD DRAWINGS

M814 ABBREVIATIONS AND SYMBOLS  
M815 BEDDING AND PAY LINES

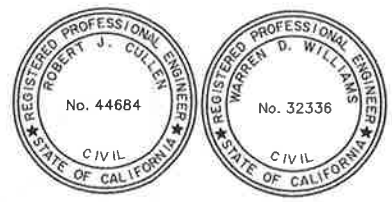
## COUNTY ROAD IMPROVEMENT STANDARDS

203 TYPE "D-1" CURB  
207 CONCRETE DRIVEWAY APPROACH



### GENERAL NOTES

- BEDDING AND PAYLINES ARE SHOWN ON RCFC STANDARD DRAWING M815 UNLESS SHOWN OTHERWISE ON THESE PLANS.
- ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
- ALL CHANNEL/STORM DRAIN REFERENCES AND CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
- TOPOGRAPHY BY DIGITAL PHOTOGRAMMETRIC METHODS. AERIAL PHOTOGRAPHS TAKEN AT AN ALTITUDE NOT TO EXCEED A FLYING HEIGHT TO CONTOUR INTERVAL RATIO OF 1800. PHOTOGRAPHY DATED 12/14/2007.
- THE VERTICAL DATUM IS DERIVED FROM NAVD 88. THE HORIZONTAL DATUM IS DERIVED FROM NAD 83.
- STANDARD DRAWINGS CALLED FOR ON THE PLAN & PROFILE SHALL CONFORM TO RCFC & WCD STD DRAWINGS, OR CALTRANS/CITY/COUNTY STANDARD PLANS.
- ELEVATIONS AND LOCATIONS OF UTILITIES WERE OBTAINED FROM AVAILABLE INFORMATION AND ARE SHOWN APPROXIMATELY ON THESE PLANS. 48 HOURS BEFORE EXCAVATION CALL UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ALL UTILITIES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.
- THE CONTRACTOR IS REQUIRED TO CONTACT ALL UTILITY AGENCIES REGARDING TEMPORARY SUPPORT AND SHORING REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
- ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXIST. CULVERTS, PIPES, OR SIMILAR STRUCTURES TO BE ABANDONED, SHALL BE SEALED AT BOTH ENDS WITH 6" MIN CLASS "B" CONCRETE.
- UNLESS OTHERWISE SPECIFIED, MINIMUM STREET RECONSTRUCTION SHALL BE 0.25' TYPE "B" ASPHALT CONCRETE OVER 6" CLASS 2 AGGREGATE BASE OR AS SPECIFIED BY THE ENGINEER.
- ALL RECONSTRUCTION, RESURFACING AND PAVEMENT DELINEATION, CURBS, SIDEWALKS AND OTHER IMPROVEMENTS ARE TO BE RECONSTRUCTED IN KIND AT THE SAME LOCATIONS AND ELEVATIONS AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- ⊕ INDICATES APPROX. SOIL BORING/TEST PIT LOCATION PER SOILS REPORT BY AMEC GEOMATRIX, INC. DATED JULY 2009 AND MAY 2011.
- FOR COMPLETE RIGHT-OF-WAY, EASEMENT AND TEMPORARY EASEMENT REFER TO DRAWING 6-316.



Don't Dig...Until You Call U.S.A. Toll Free  
1-800-227-2600

for the location of buried utility lines. Don't disrupt vital services.

TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK  
RCFC B.M. NO. Z 13182  
2" BRASS DISC STAMPED 195+00  
DOWN 0.95 LOCATED ON  
SOUTHERLY LEVEE ± 8' FROM  
HINGE POINT PER RCFC SURVEY  
NOTES DATED 12-4-06.  
ELEVATION= 354.30 NAVD 88

REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D. DE CHAMBEAU  
DRAWN BY: T. DECKER  
DATE DRAWN: MAY 2011

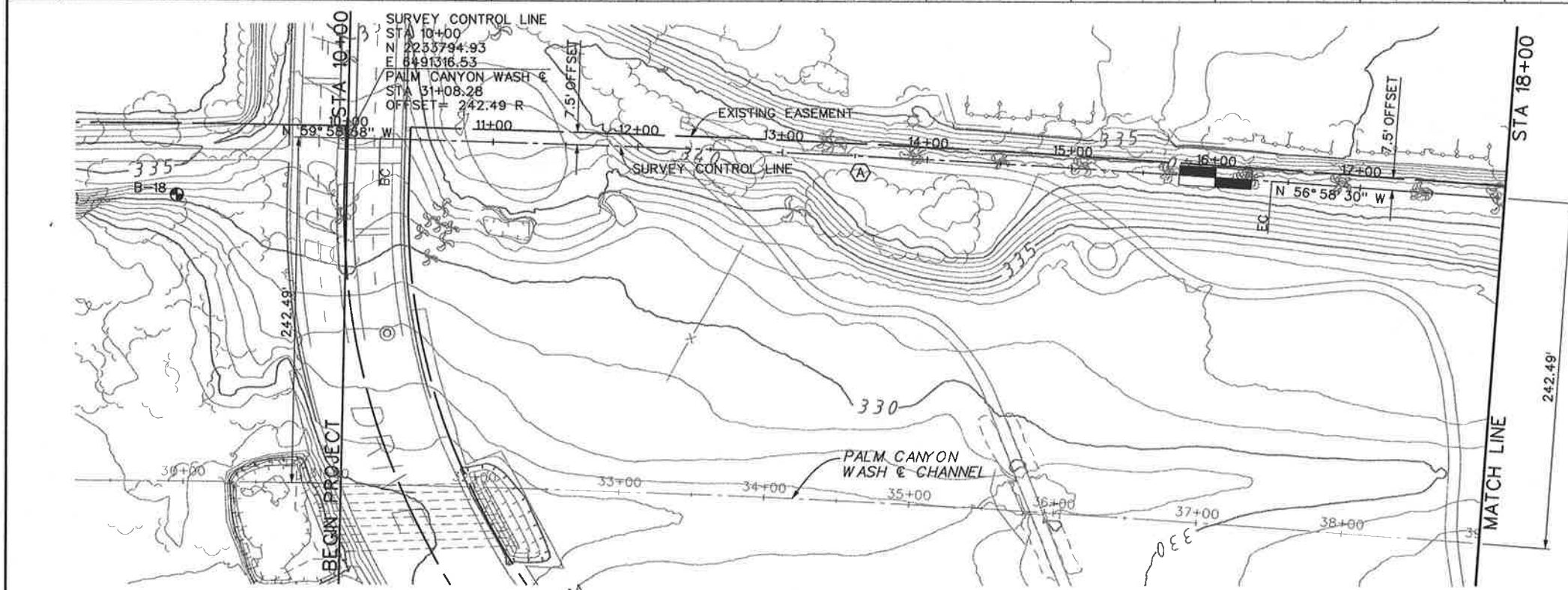
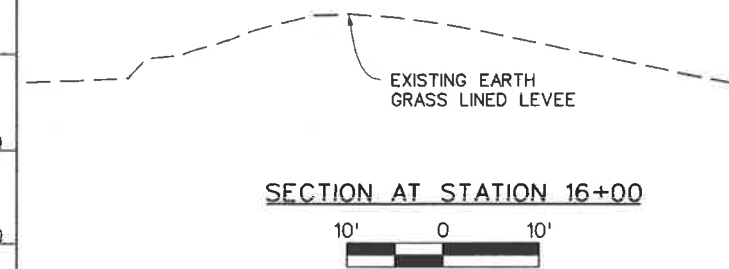
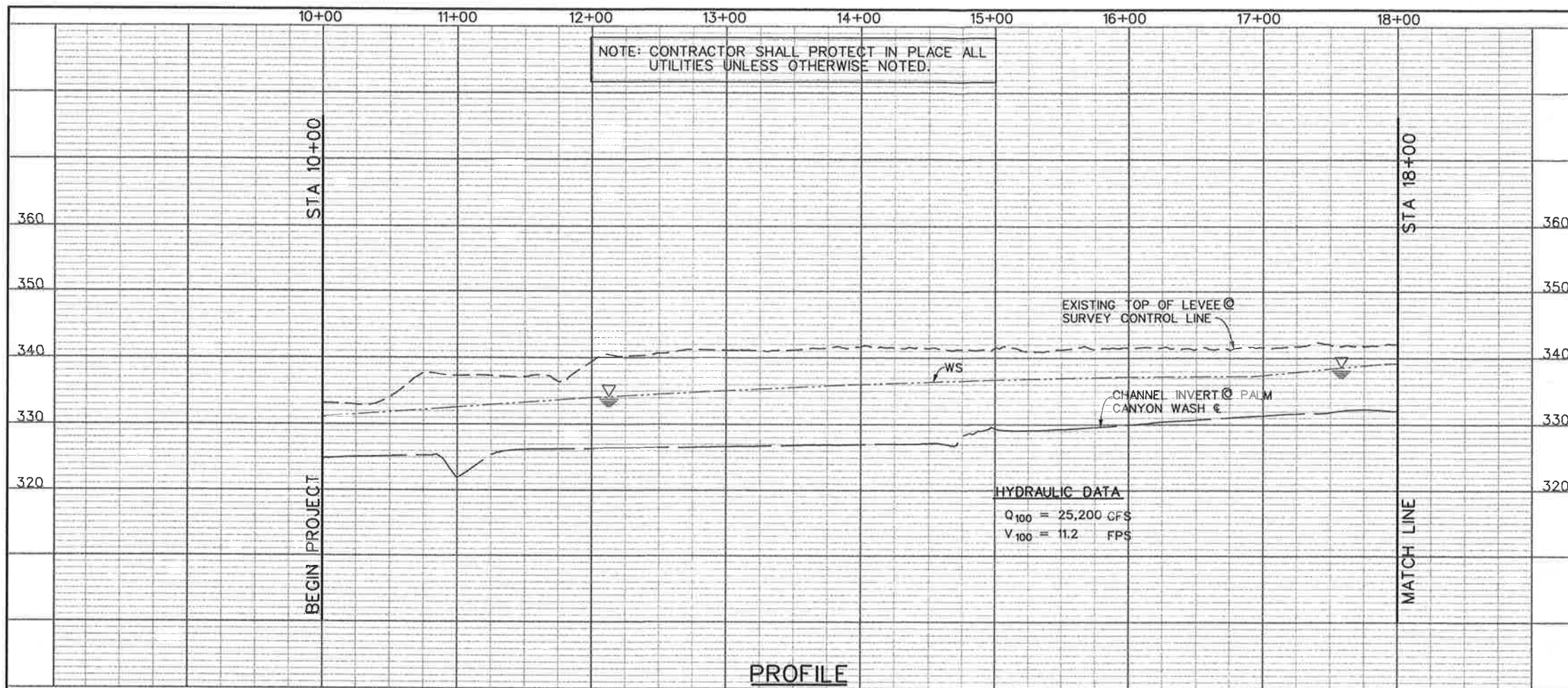
RECOMMENDED FOR APPROVAL BY: [Signature]  
DATE: 26-11-11 R.E. No. 44684

APPROVED BY: [Signature]  
DATE: 5/26/11 R.E. No. 32336

PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91  
TITLE SHEET

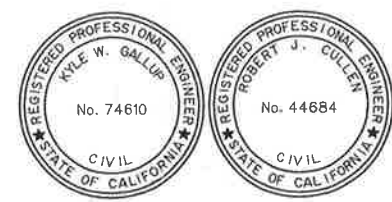
PROJ. 6  
DRAW. 6  
SHEET 1

8/16/2011



**A SURVEY CONTROL LINE CURVE DATA**

Δ	= 03° 00' 28"
R	= 11742.17'
L	= 616.41'
T	= 308.28'
BC	= STA 10+22.37
EC	= STA 16+38.78
PI	= N 2233960.34 E 6491030.23

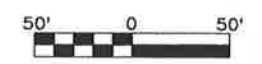


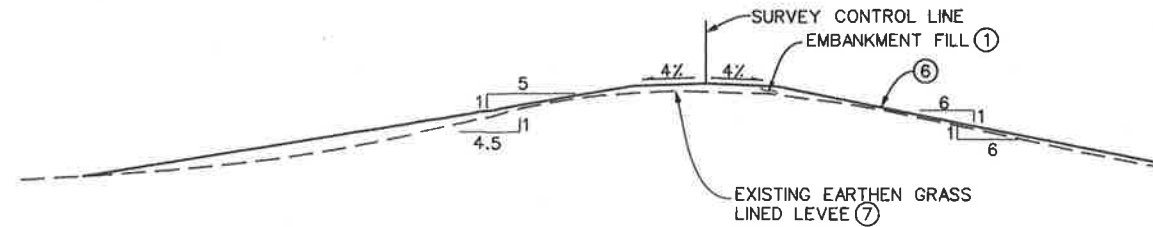
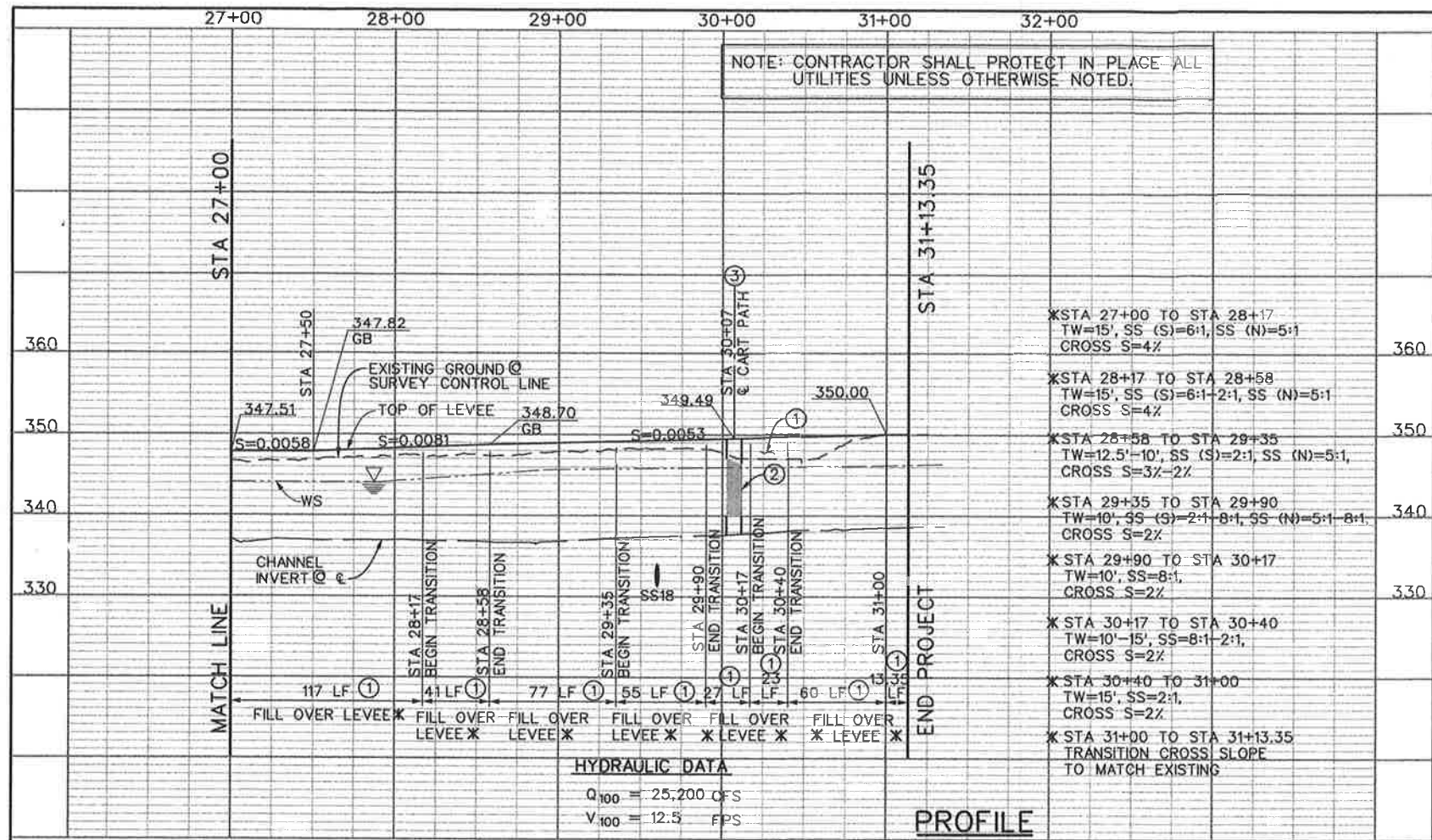
REVISIONS		RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
NO.	DESCRIPTION	DATE	APPR.

DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>
DRAWN BY: T. DECKER	DATE: 5/26/11	DATE: 5/26/11

**PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION**  
STAGE 91  
PLAN & PROFILE  
STA 10+00 TO STA 18+00

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for the location of buried utility lines. Don't disrupt vital services.  
TWO WORKING DAYS BEFORE YOU DIG





C SURVEY CONTROL LINE CURVE DATA

$\Delta = 10^\circ 49' 39''$   
 $R = 45.00'$   
 $L = 8.50'$   
 $T = 4.26'$   
 $BC = STA 28+66.45$   
 $EC = STA 28+74.96$   
 $PI = N 2234744.64$   
 $E 6489707.27$

D SURVEY CONTROL LINE DATA

BEARING = N  $55^\circ 26' 26''$  W  
 DISTANCE = 0.78'

E SURVEY CONTROL LINE CURVE DATA

$\Delta = 12^\circ 14' 33''$   
 $R = 45.00'$   
 $L = 9.62'$   
 $T = 4.83'$   
 $BC = STA 28+75.74$   
 $EC = STA 28+85.35$   
 $PI = N 2234750.24$   
 $E 6489699.14$

F SURVEY CONTROL LINE DATA

BEARING = N  $67^\circ 41' 00''$  W  
 DISTANCE = 131.63'

G SURVEY CONTROL LINE CURVE DATA

$\Delta = 21^\circ 12' 38''$   
 $R = 75.00'$   
 $L = 27.76'$   
 $T = 14.04'$   
 $BC = STA 30+16.99$   
 $EC = STA 30+44.75$   
 $PI = N 2234807.39$   
 $E 6489559.91$

H SURVEY CONTROL LINE DATA

BEARING = N  $46^\circ 28' 22''$  W  
 DISTANCE = 2.87'

I SURVEY CONTROL LINE CURVE DATA

$\Delta = 22^\circ 37' 12''$   
 $R = 75.00'$   
 $L = 29.61'$   
 $T = 15.00'$   
 $BC = STA 30+47.62$   
 $EC = STA 30+77.23$   
 $PI = N 2234829.37$   
 $E 6489536.77$

J SURVEY CONTROL LINE DATA

BEARING = N  $69^\circ 05' 34''$  W  
 DISTANCE = 49.14'

A SURVEY CONTROL LINE CURVE DATA

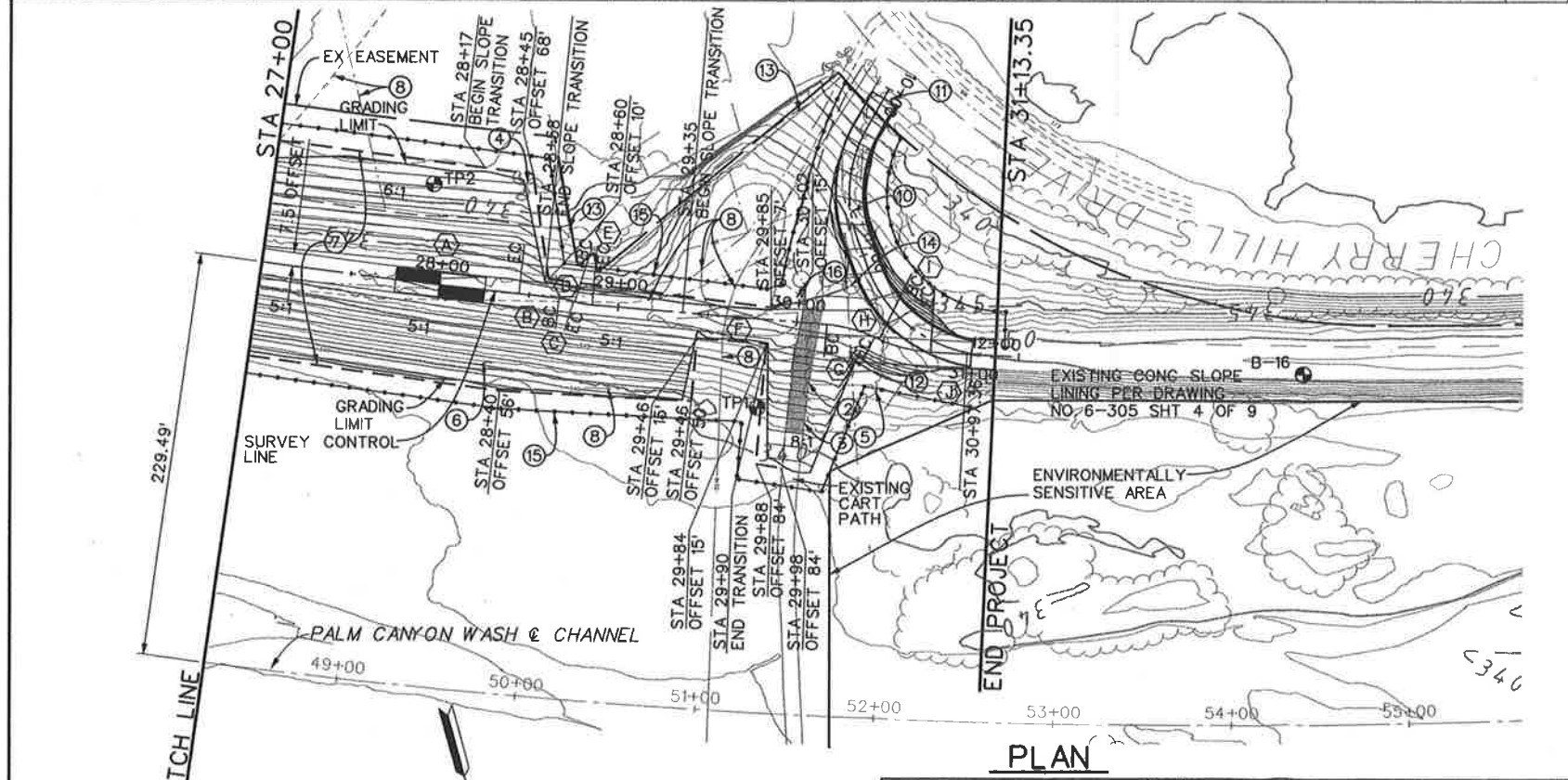
$\Delta = 6^\circ 52' 03''$   
 $R = 4507.38'$   
 $L = 540.25'$   
 $T = 270.45'$   
 $BC = STA 23+03.98$   
 $EC = STA 28+44.23$   
 $PI = N 2234625.14$   
 $E 6489979.10$

B SURVEY CONTROL LINE DATA

BEARING = N  $66^\circ 16' 05''$  W  
 DISTANCE = 22.22'

NOTES

- 1 PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAIL ON SHEET 5.
- 2 REMOVE EXISTING CART PATH PER SHADED LIMITS SHOWN.
- 3 RECONSTRUCT 10'-8" WIDE 72' LENGTH CONCRETE CART WITH CURB TYPE "D-1" ON EAST SIDE PER SHADED LIMITS SHOWN AND DETAIL "B" ON SHEET 5.
- 4 PROTECT TREE IN PLACE.
- 5 REMOVE TREE.
- 6 PLACE SOD OVER FILL PER LIMITS SHOWN.
- 7 REMOVE EXISTING GRASS AND SCARIFY EXISTING EARTHEN LEVEE PER LIMITS SHOWN.
- 8 PROTECT EXISTING UTILITIES IN-PLACE.
- 9 CONTRACTOR SHALL PROTECT OR REPLACE IN KIND IRRIGATION SYSTEM. IDENTIFY AND ADJUST SPRINKLERS TO GRADE.
- 10 CONSTRUCT ACCESS ROAD PER DETAIL ON SHEET 6.
- 11 WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL ON SHEET 6 AND COUNTY ROAD IMPROVEMENT STD 207.
- 12 REMOVE INTERFERING PORTION OF ABANDONED PIPE AND VALVES.
- 13 PROTECT IN-PLACE EXISTING CONCRETE MOW STRIP.
- 14 PROTECT IN-PLACE EXISTING POWER POLE.
- 15 PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- 16 PROTECT IN-PLACE EXISTING UTILITY CONTROL BOX.



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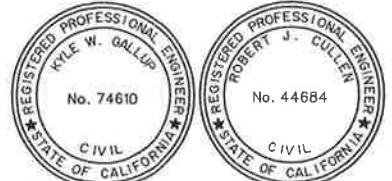
REVISIONS	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D. DE CHAMBEAU  
 DRAWN BY: T. DECKER  
 DATE DRAWN: MAY 2011

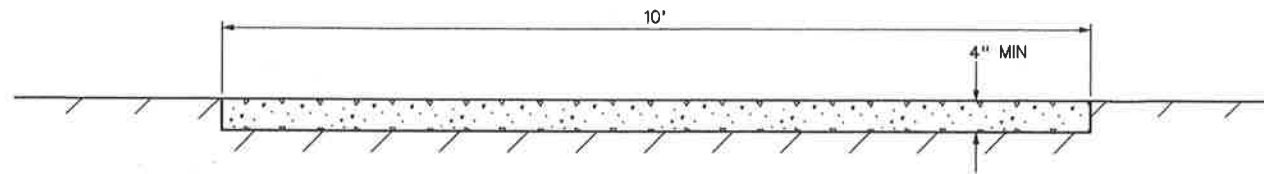
RECOMMENDED FOR APPROVAL BY: *[Signature]*  
 DATE: 5/26/11

APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

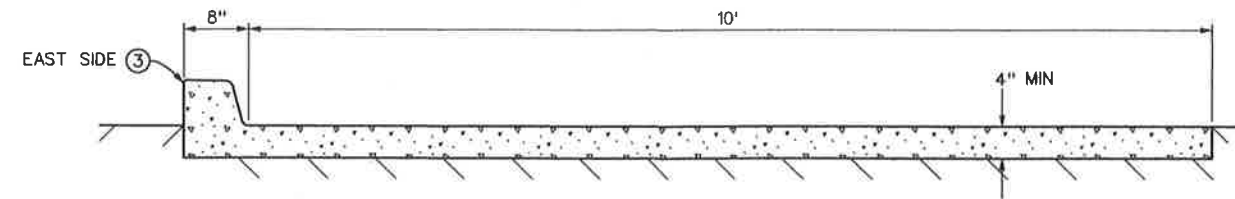
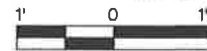


PALM CANYON WASH  
 STAGE 4  
 LEVEE RESTORATION  
 STAGE 91  
 PLAN & PROFILE  
 STA 27+00 TO STA 31+13.35

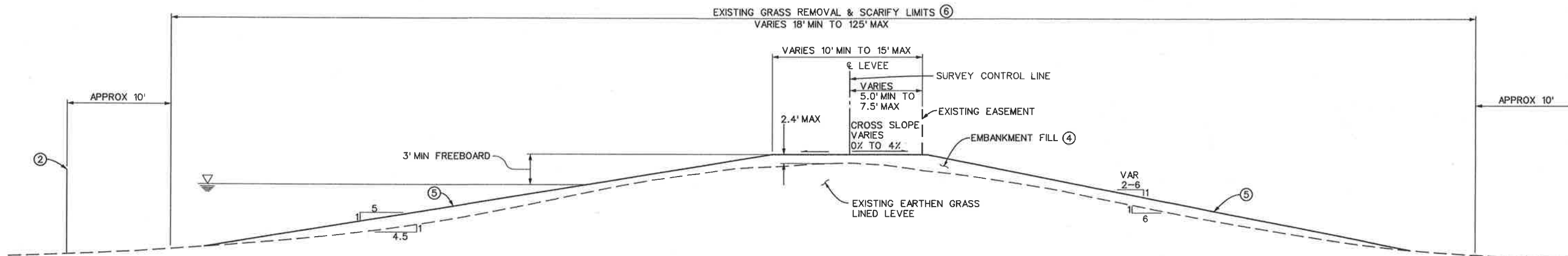
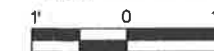
PROJ. 6  
 DRAWING  
 SHEET 4



**A**  
3 CONCRETE CART PATH ①  
NEAR STA 26+03



**B**  
4 CONCRETE CART PATH ①②  
NEAR STA 30+07



TYPICAL LEVEE SECTION



**NOTES**

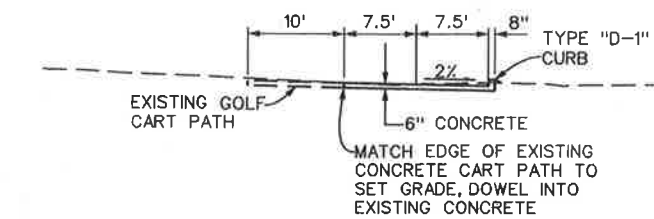
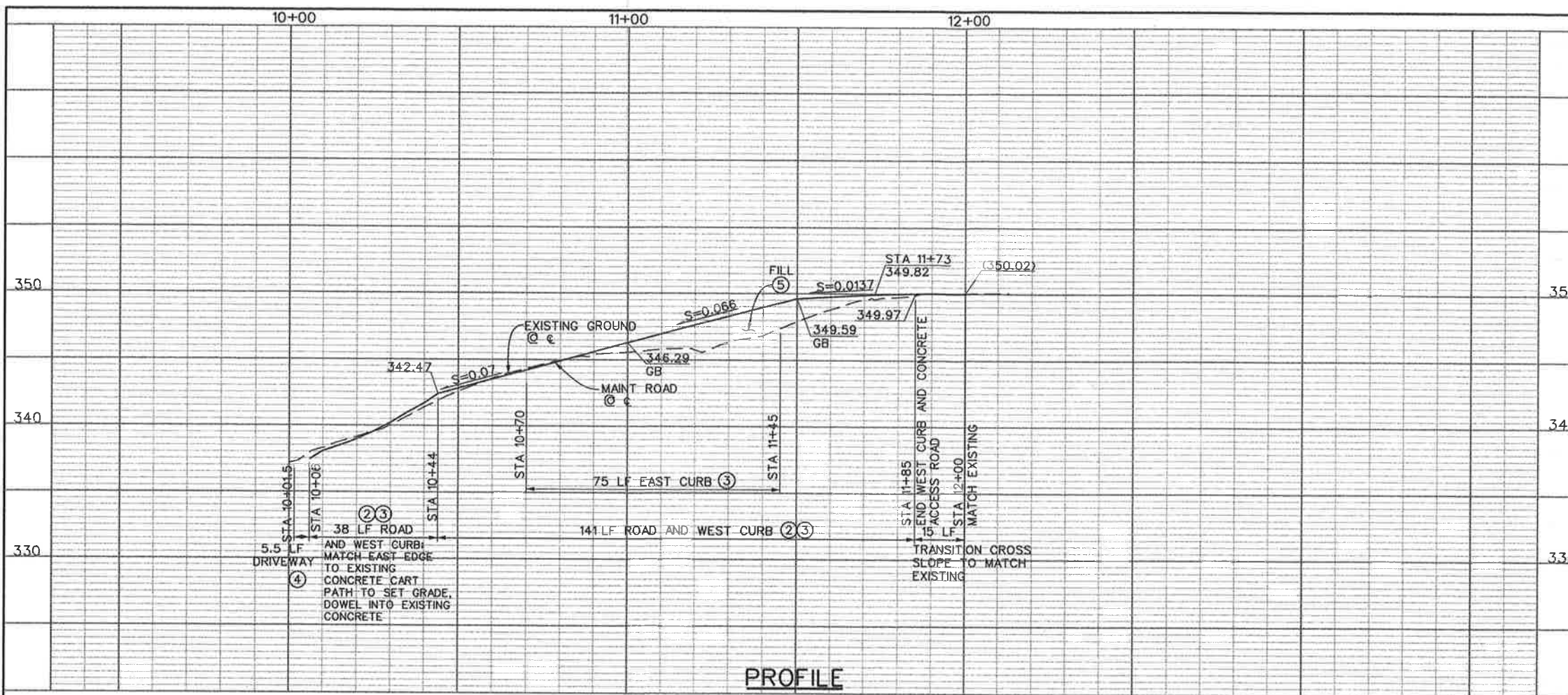
- ① ALL CONSTRUCTION TO BE OF CLASS "B" CONCRETE 4" MINIMUM THICKNESS.
- ② PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- ③ CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD PLAN 203.
- ④ PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- ⑤ PLACE SOD OVER FILL PER LIMITS SHOWN ON PLAN.
- ⑥ REMOVE EXISTING GRASS AND RELOCATE IRRIGATION LINES. SCARIFY EARTHEN LEVEE PER LIMITS SHOWN AND PREPARE SUBGRADE PER SPECIFICATIONS.



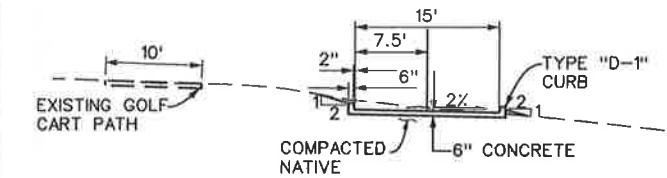
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>Kyle W. Gallup</i>	APPROVED BY: <i>Robert J. Cullen</i>
DRAWN BY: T. DECKER	DATE: 5/26/11	DATE: 26-MAY-2011

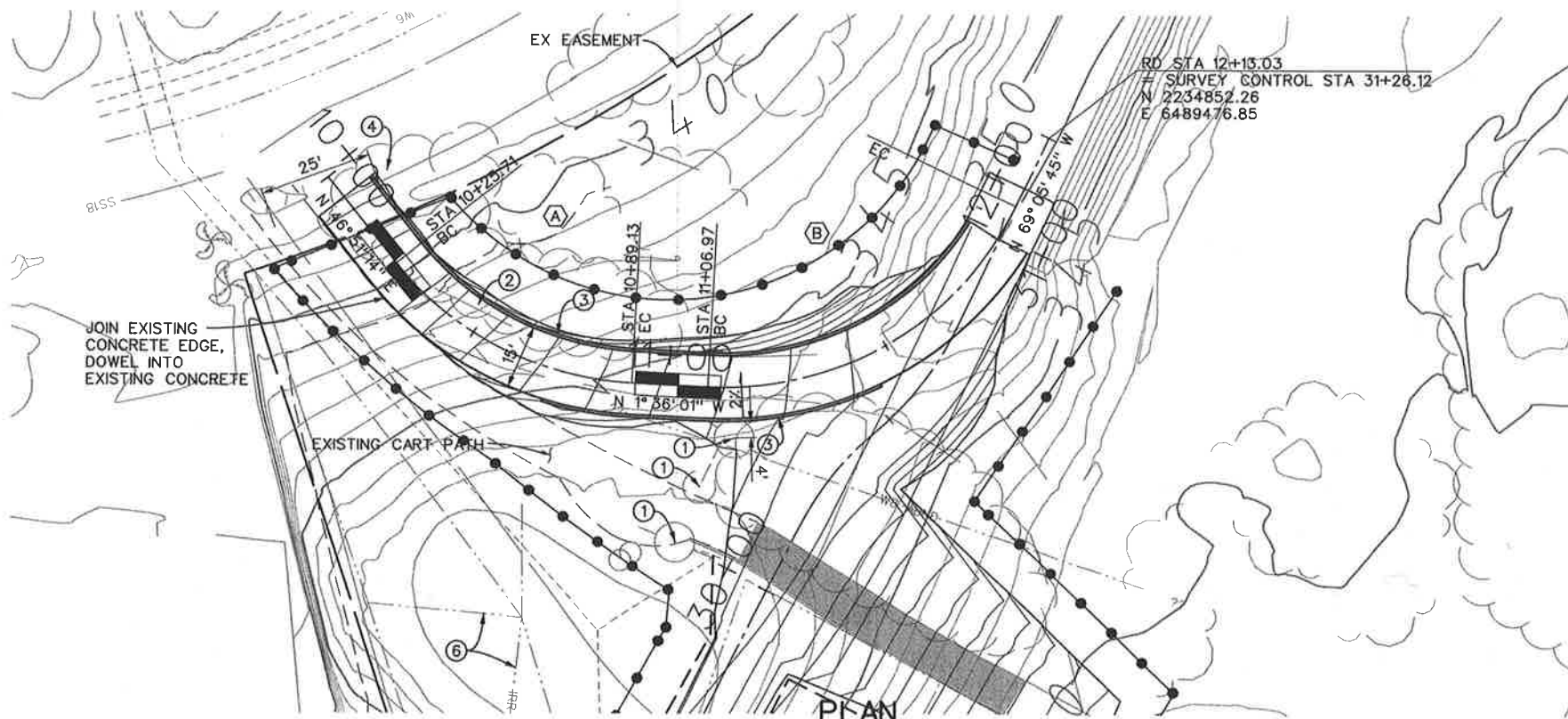
<b>PALM CANYON WASH STAGE 4 LEVEE RESTORATION STAGE 91</b> DETAILS	PROJECT NO. 6
	SHEET NO. 5



SECTION AT STATION 10+25



SECTION AT STATION 11+00



A MAINTENANCE RD CURVE DATA

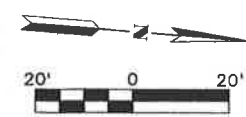
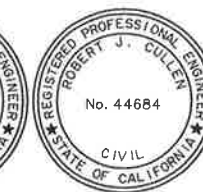
- Δ = 48° 27' 15"
- R = 75.00'
- L = 63.43'
- T = 33.75'
- BC = STA 10+25.71
- EC = STA 10+89.13
- PI = N 2234726.41  
E 6489543.05

B MAINTENANCE RD CURVE DATA

- Δ = 67° 29' 44"
- R = 75.00'
- L = 88.35'
- T = 50.11'
- BC = STA 11+06.97
- EC = STA 11+95.32
- PI = N 2234828.06  
E 6489540.21

NOTES

- PROTECT IN-PLACE EXISTING POWER POLE.
- CONSTRUCT 15' WIDE ACCESS ROAD 6" THICK CONCRETE.
- CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD NO. 203.
- REMOVE INTERFERING PORTION OF EXISTING NORTH APRON. WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL HEREON AND COUNTY ROAD IMPROVEMENT STD 207.
- PLACE FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- PROTECT IN-PLACE EXISTING UTILITY LINES.



Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600  
 for the location of buried utility lines.  
 Don't disrupt vital services.  
 TWO WORKING DAYS BEFORE YOU DIG

REVISIONS	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D. DE CHAMBEAU  
 DRAWN BY: T. DECKER  
 DATE DRAWN: MAY 2011

RECOMMENDED FOR APPROVAL BY: *Kyle W. Gallup*  
 DATE: 5/26/11

APPROVED BY: *[Signature]*  
 DATE: 26-May-2011

PALM CANYON WASH  
 STAGE 4  
 LEVEE RESTORATION  
 STAGE 91  
 ACCESS ROAD DETAILS

# RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

INDEX

SHEET

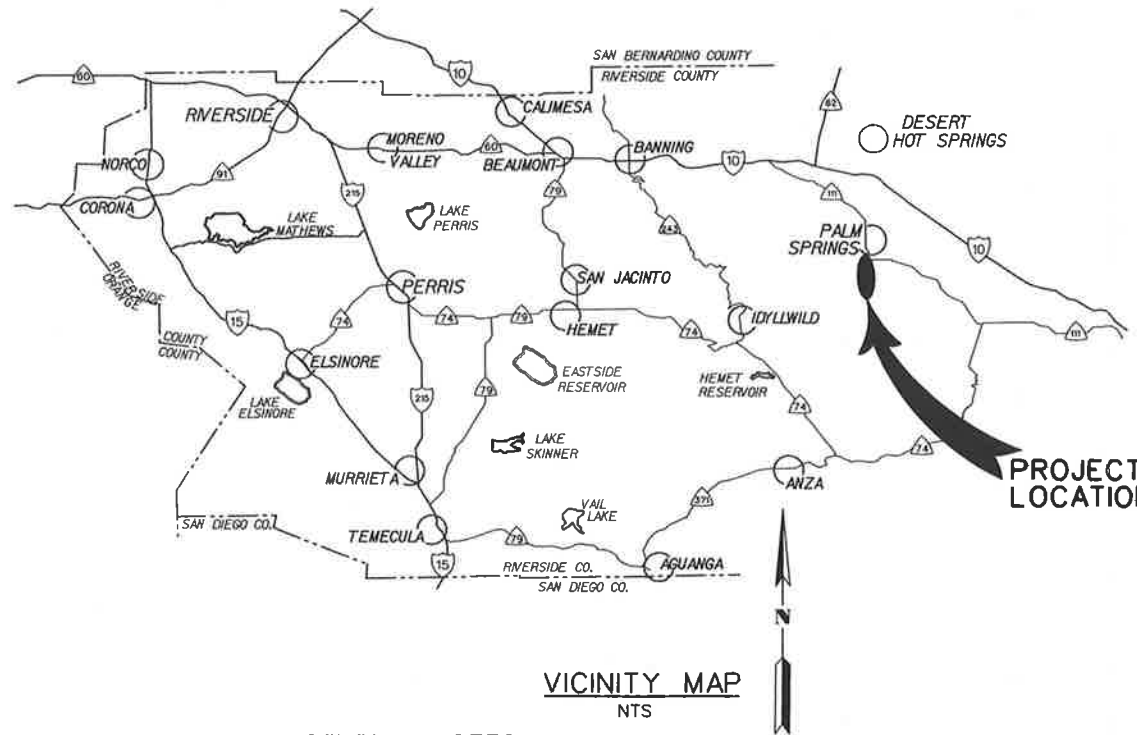
TITLE SHEET  
PLAN & PROFILE  
MISCELLANEOUS DETAILS

## R.C.F.C. & W.C.D. STANDARD DRAWINGS

M814 ABBREVIATIONS AND SYMBOLS  
M815 BEDDING AND PAY LINES

## COUNTY ROAD IMPROVEMENT STANDARDS

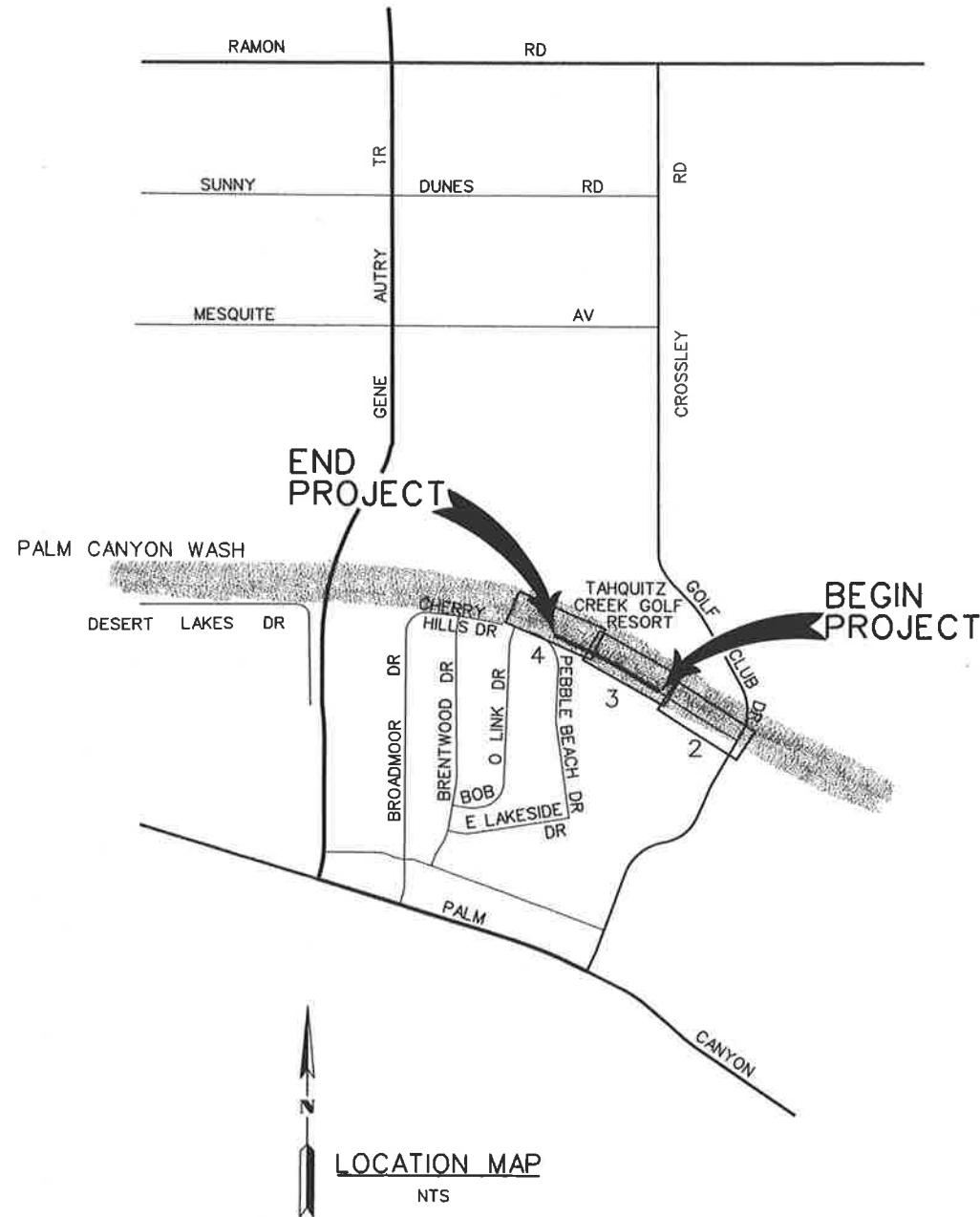
203 TYPE "D-1" CURB  
207 CONCRETE DRIVEWAY APPROACH



VICINITY MAP  
NTS

### GENERAL NOTES

- BEDDING AND PAYLINES ARE SHOWN ON RCFC STANDARD DRAWING M815 UNLESS SHOWN OTHERWISE ON THESE PLANS.
- ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
- ALL CHANNEL/STORM DRAIN REFERENCES AND CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
- TOPOGRAPHY BY DIGITAL PHOTOGRAMMETRIC METHODS. AERIAL PHOTOGRAPHS TAKEN AT AN ALTITUDE NOT TO EXCEED A FLYING HEIGHT TO CONTOUR INTERVAL RATIO OF 1800. PHOTOGRAPHY DATED 12/14/2007.
- THE VERTICAL DATUM IS DERIVED FROM NAVD 88. THE HORIZONTAL DATUM IS DERIVED FROM NAD 83.
- STANDARD DRAWINGS CALLED FOR ON THE PLAN & PROFILE SHALL CONFORM TO RCFC & WCD STD DRAWINGS, OR CALTRANS/CITY/COUNTY STANDARD PLANS.
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- UNLESS OTHERWISE SPECIFIED, MINIMUM STREET RECONSTRUCTION SHALL BE 0.25' TYPE "B" ASPHALT CONCRETE OVER 6" CLASS 2 AGGREGATE BASE OR AS SPECIFIED BY THE ENGINEER.
- ALL RECONSTRUCTION, RESURFACING AND PAVEMENT DELINEATION, CURBS, SIDEWALKS AND OTHER IMPROVEMENTS ARE TO BE RECONSTRUCTED IN KIND AT THE SAME LOCATIONS AND ELEVATIONS AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- ⊕ INDICATES APPROX. SOIL BORING/TEST PIT LOCATION PER SOILS REPORT BY AMEC GEOMATRIX, INC. DATED JULY 2009 AND MAY 2011.
- FOR COMPLETE RIGHT-OF-WAY, EASEMENT AND TEMPORARY EASEMENT REFER TO DRAWING 6-316.



LOCATION MAP  
NTS

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BENCH MARK  
RCFC B.M. NO. Z 13182  
2" BRASS DISC STAMPED 195+00  
DOWN 0.95 LOCATED ON  
SOUTHERLY LEVEE ± 8' FROM  
HINGE POINT PER RCFC SURVEY  
NOTES DATED 12-4-06.  
ELEVATION= 354.30 NAVD 88

REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D. DE CHAMBEAU  
DRAWN BY: T. DECKER  
DATE DRAWN: MAY 2011

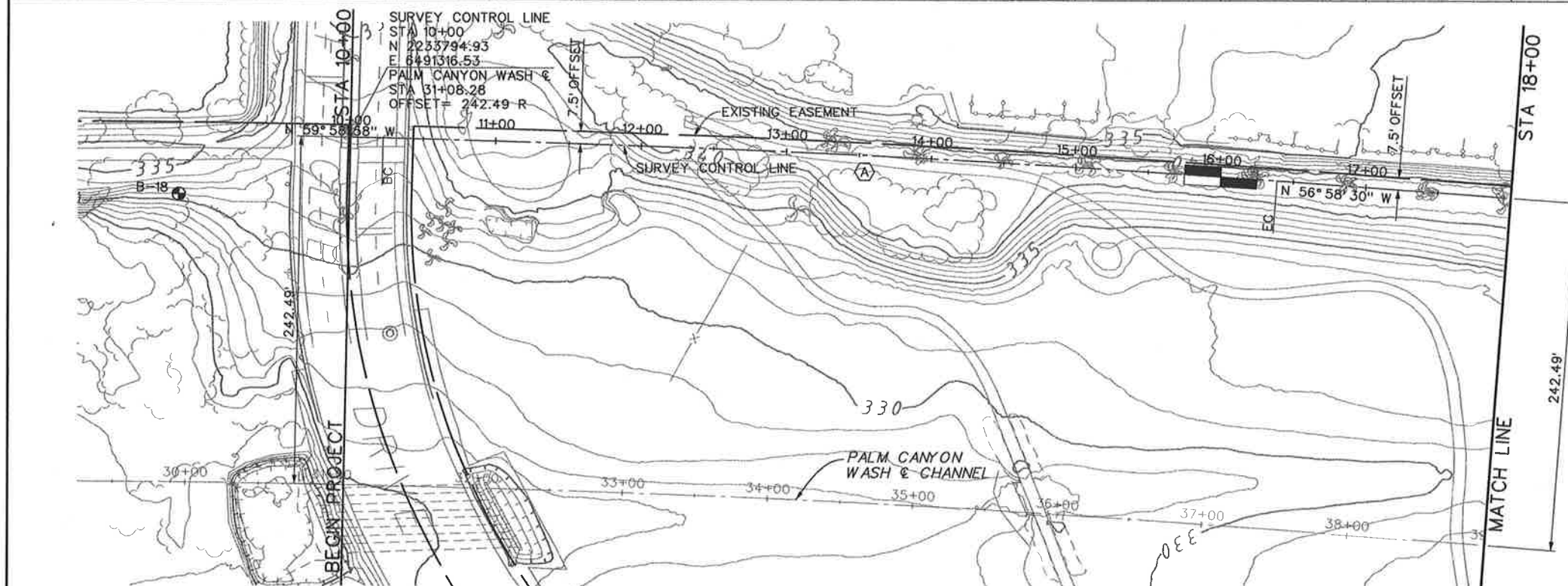
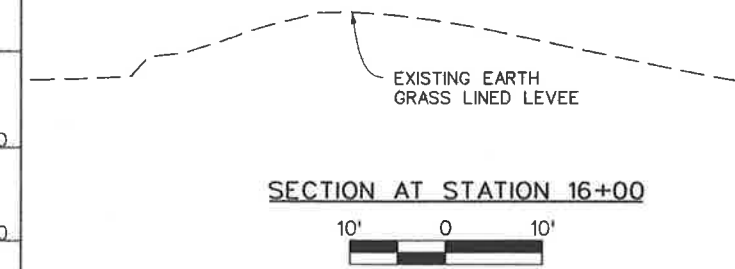
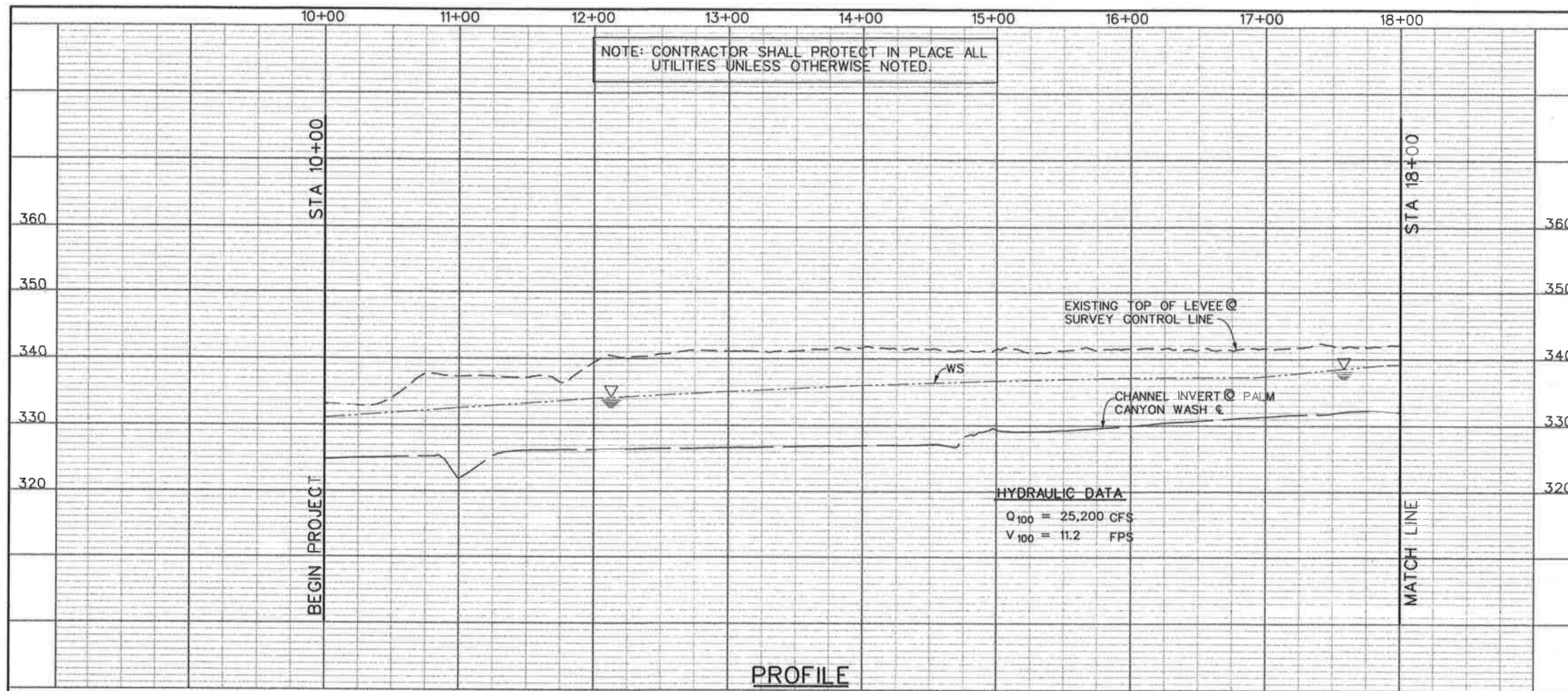
RECOMMENDED FOR APPROVAL BY:  
*[Signature]*  
DATE: 26-11-11 R.E. No. 44684

APPROVED BY:  
*[Signature]*  
DATE: 5/26/11 R.E. No. 32336

PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91  
TITLE SHEET

PROJ 6  
DRAW 6  
SHEET 1

8/16/2011



**(A) SURVEY CONTROL LINE CURVE DATA**

- Δ = 03° 00' 28"
- R = 11742.17'
- L = 616.41'
- T = 308.28'
- BC = STA 10+22.37
- EC = STA 16+38.78
- PI = N 2233960.34  
E 6491030.23

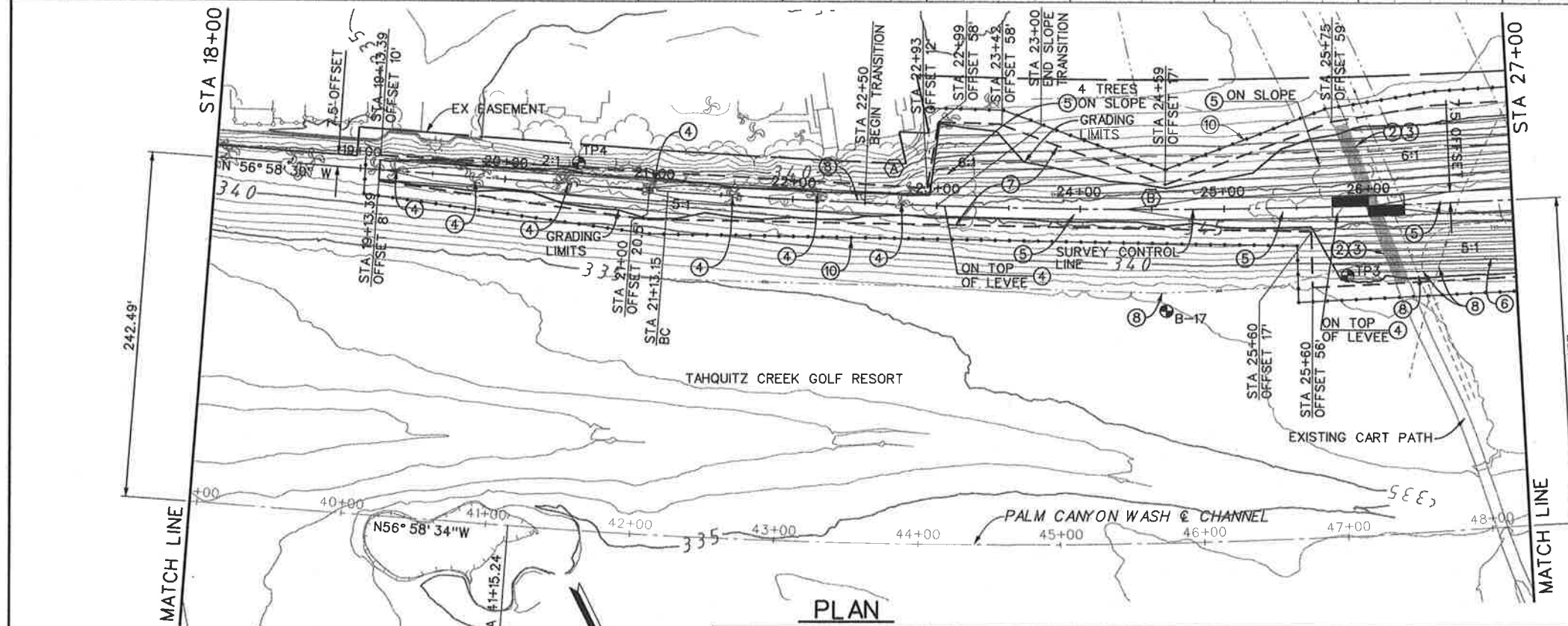
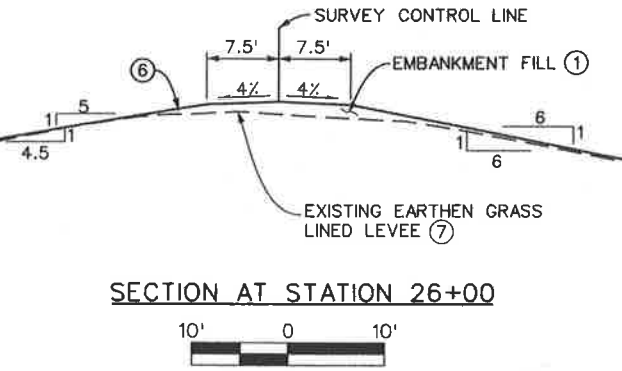
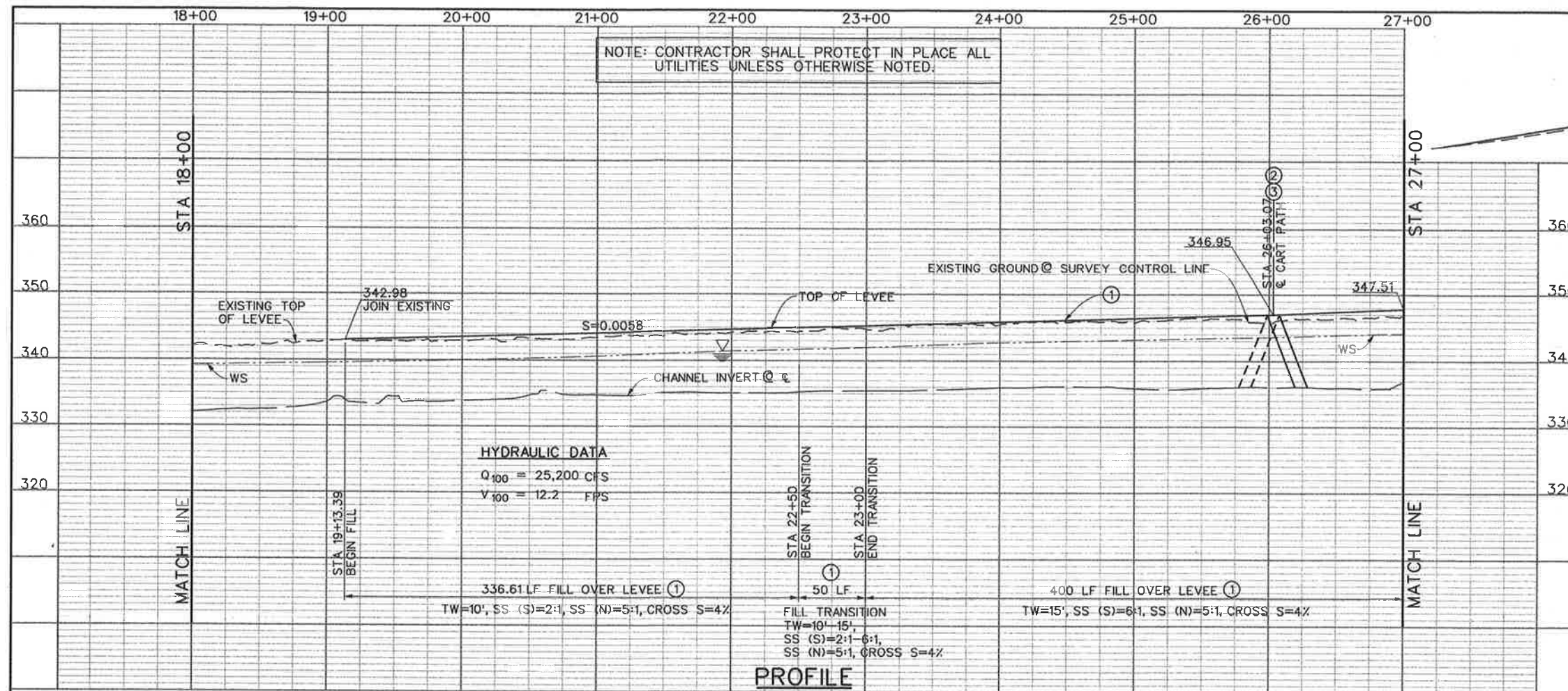


NO.	REVISIONS	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>[Signature]</i>
DRAWN BY: T. DECKER	APPROVED BY: <i>[Signature]</i>
DATE DRAWN: MAY 2011	DATE: 5/26/11
	DATE: 20 May 2011

**PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91  
PLAN & PROFILE  
STA 10+00 TO STA 18+00**





**(A) SURVEY CONTROL LINE CURVE DATA**

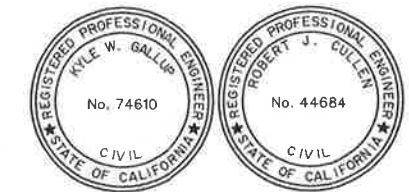
$\Delta = 02^\circ 25' 32''$   
 $R = 4507.38'$   
 $L = 190.82'$   
 $T = 95.42'$   
 $BC = STA 21+13.15$   
 $PCC = STA 23+03.97$   
 $PI = N 2234438.89$   
 $E 6490294.03$

BEARING  $N 59^\circ 24' 02'' W$   
 DISTANCE = 0.01'

**(B) SURVEY CONTROL LINE CURVE DATA**

$\Delta = 06^\circ 52' 03''$   
 $R = 4507.38'$   
 $L = 540.25'$   
 $T = 270.45'$   
 $PCC = STA 23+03.98$   
 $EC = STA 28+44.23$   
 $PI = N 2234625.14$   
 $E 6489979.10$

- NOTES**
- ① PLACE EMBANKMENT FILL OVER EXISTING LIMITS SHOWN ON PLAN, PROFILE AND SHEET 5.
  - ② REMOVE EXISTING CART PATH PER SHOWN.
  - ③ RECONSTRUCT 10' WIDE 124' LENGTH OF PATH PER SHADED LIMITS SHOWN AND ON SHEET 5.
  - ④ PROTECT TREE IN PLACE.
  - ⑤ REMOVE TREE.
  - ⑥ PLACE SOD OVER FILL PER LIMITS SHOWN.
  - ⑦ REMOVE EXISTING GRASS AND SCARIFY EARTHEN LEVEE PER LIMITS SHOWN.
  - ⑧ PROTECT EXISTING UTILITIES IN-PLACE.
  9. CONTRACTOR SHALL PROTECT OR REPLACE KIND IRRIGATION SYSTEM. IDENTIFY AND SPRINKLERS TO GRADE.
  - ⑩ PLACE TEMPORARY ORANGE SILT FENCE SHOWN ON PLANS.



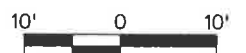
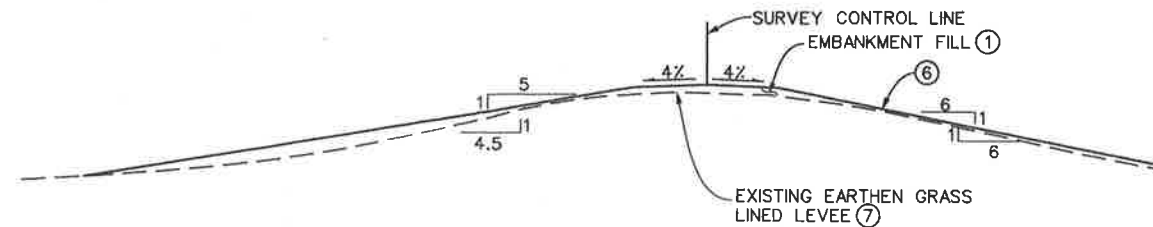
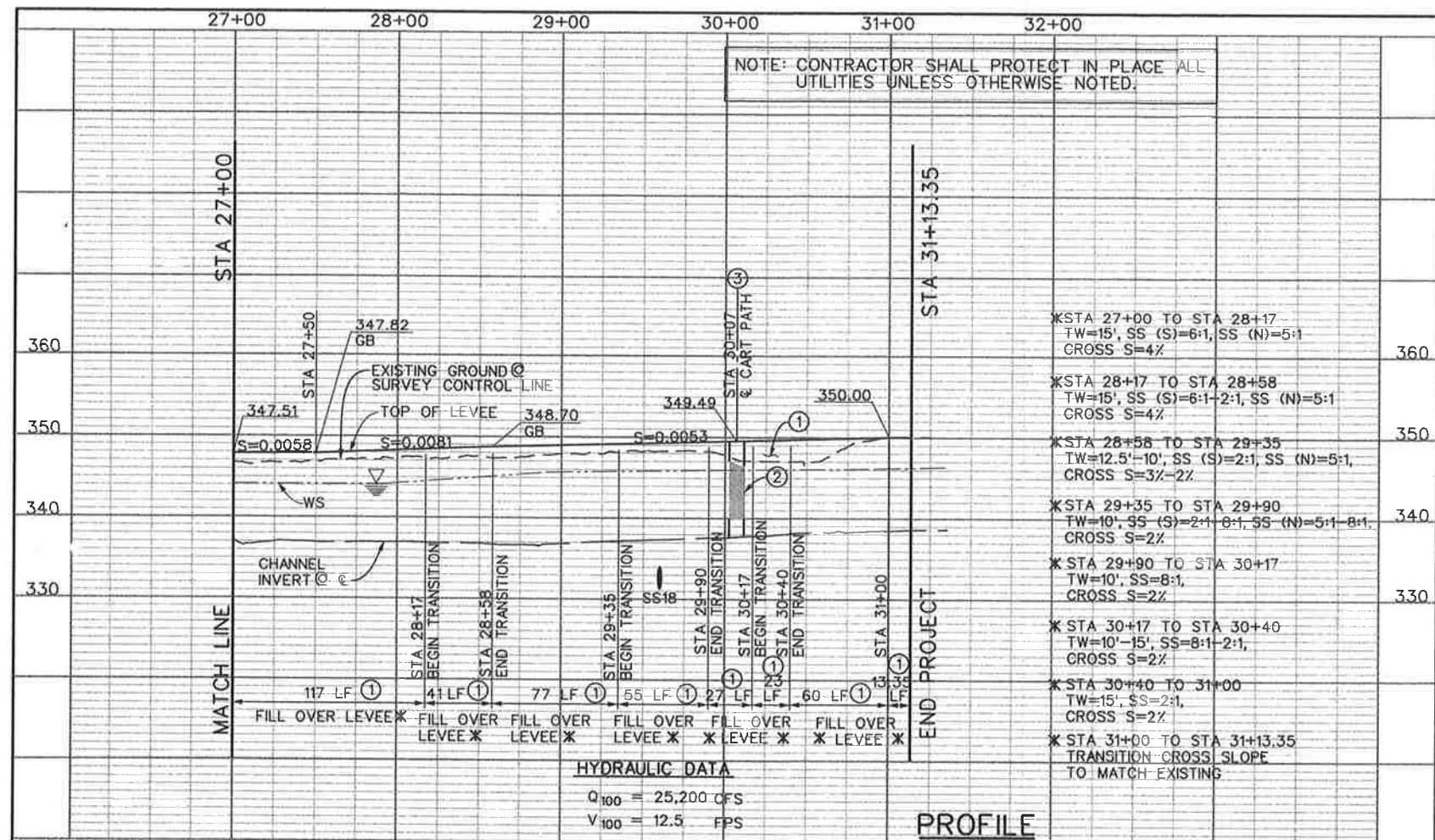
REVISIONS		APPROVALS	
NO.	DESCRIPTION	DATE	BY

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>
DRAWN BY: T. DECKER		DATE DRAWN: MAY 2011	DATE: 5/24/11	DATE: 26-may-2011

**PALM CANYON WASH  
 STAGE 4  
 LEVEE RESTORATION  
 STAGE 91  
 PLAN & PROFILE  
 STA 18+00 TO STA 27+00**





**C SURVEY CONTROL LINE CURVE DATA**

$\Delta = 10^\circ 49' 39''$   
 $R = 45.00'$   
 $L = 8.50'$   
 $T = 4.26'$   
 $BC = STA 28+66.45$   
 $EC = STA 28+74.96$   
 $PI = N 2234744.64$   
 $E 6489707.27$

**D SURVEY CONTROL LINE DATA**

BEARING = N  $55^\circ 26' 26''$  W  
 DISTANCE = 0.78'

**E SURVEY CONTROL LINE CURVE DATA**

$\Delta = 12^\circ 14' 33''$   
 $R = 45.00'$   
 $L = 9.62'$   
 $T = 4.83'$   
 $BC = STA 28+75.74$   
 $EC = STA 28+85.35$   
 $PI = N 2234750.24$   
 $E 6489699.14$

**F SURVEY CONTROL LINE DATA**

BEARING = N  $67^\circ 41' 00''$  W  
 DISTANCE = 131.63'

**G SURVEY CONTROL LINE CURVE DATA**

$\Delta = 21^\circ 12' 38''$   
 $R = 75.00'$   
 $L = 27.76'$   
 $T = 14.04'$   
 $BC = STA 30+16.99$   
 $EC = STA 30+44.75$   
 $PI = N 2234807.39$   
 $E 6489559.91$

**H SURVEY CONTROL LINE DATA**

BEARING = N  $46^\circ 28' 22''$  W  
 DISTANCE = 2.87'

**I SURVEY CONTROL LINE CURVE DATA**

$\Delta = 22^\circ 37' 12''$   
 $R = 75.00'$   
 $L = 29.61'$   
 $T = 15.00'$   
 $BC = STA 30+47.62$   
 $EC = STA 30+77.23$   
 $PI = N 2234829.37$   
 $E 6489536.77$

**J SURVEY CONTROL LINE DATA**

BEARING = N  $69^\circ 05' 34''$  W  
 DISTANCE = 49.14'

**A SURVEY CONTROL LINE CURVE DATA**

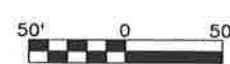
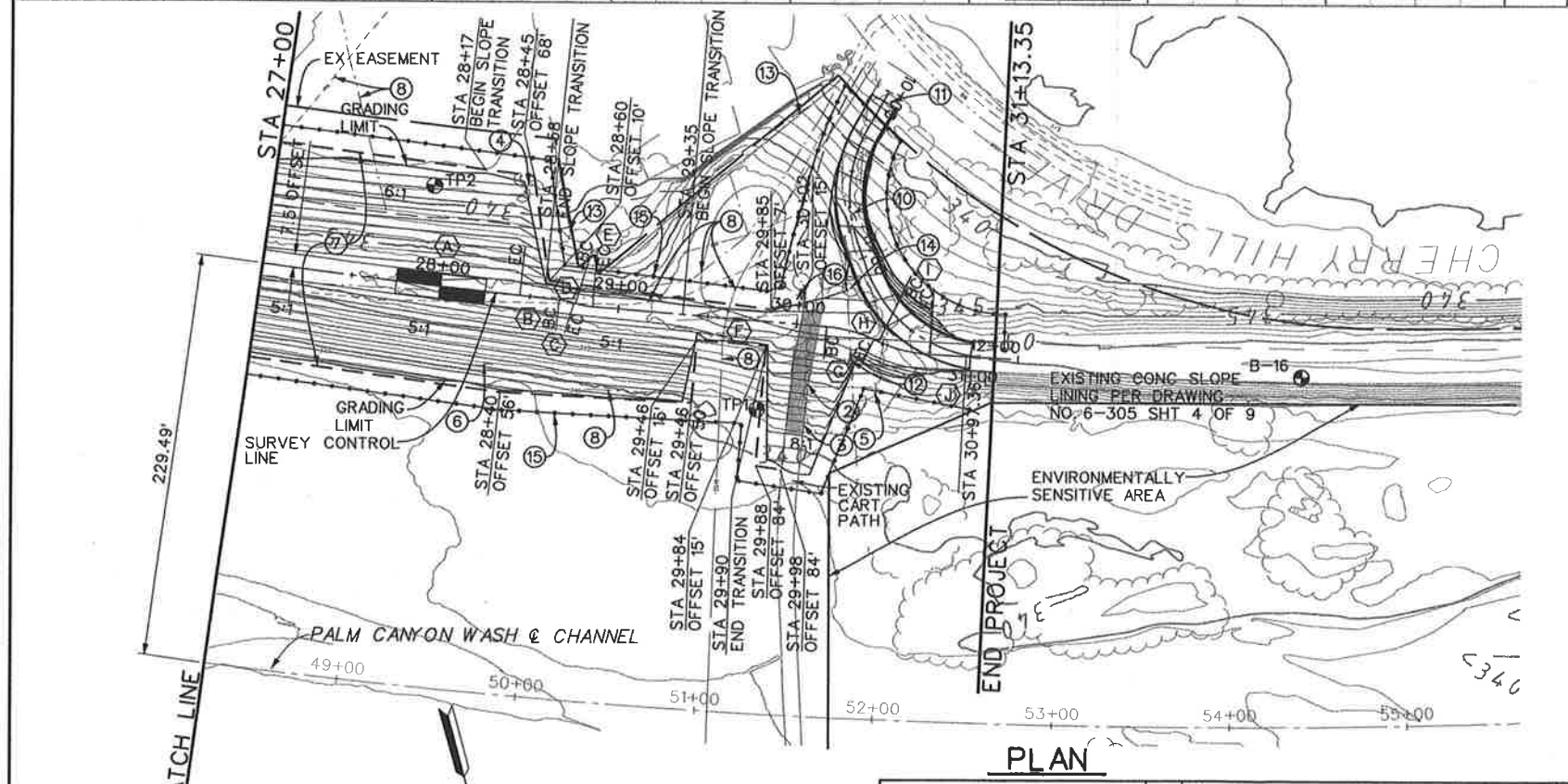
$\Delta = 6^\circ 52' 03''$   
 $R = 4507.38'$   
 $L = 540.25'$   
 $T = 270.45'$   
 $BC = STA 23+03.98$   
 $EC = STA 28+44.23$   
 $PI = N 2234625.14$   
 $E 6489979.10$

**B SURVEY CONTROL LINE DATA**

BEARING = N  $66^\circ 16' 05''$  W  
 DISTANCE = 22.22'

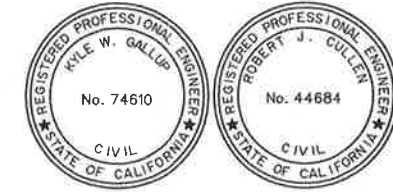
**NOTES**

- 1 PLACE EMBANKMENT FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAIL ON SHEET 5.
- 2 REMOVE EXISTING CART PATH PER SHADED LIMITS SHOWN.
- 3 RECONSTRUCT 10'-8" WIDE 72' LENGTH CONCRETE CART WITH CURB TYPE "D-1" ON EAST SIDE PER SHADED LIMITS SHOWN AND DETAIL "B" ON SHEET 5.
- 4 PROTECT TREE IN PLACE.
- 5 REMOVE TREE.
- 6 PLACE SOD OVER FILL PER LIMITS SHOWN.
- 7 REMOVE EXISTING GRASS AND SCARIFY EXISTING EARTHEN LEVEE PER LIMITS SHOWN.
- 8 PROTECT EXISTING UTILITIES IN-PLACE.
- 9 CONTRACTOR SHALL PROTECT OR REPLACE IN KIND IRRIGATION SYSTEM. IDENTIFY AND ADJUST SPRINKLERS TO GRADE.
- 10 CONSTRUCT ACCESS ROAD PER DETAIL ON SHEET 6.
- 11 WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL ON SHEET 6 AND COUNTY ROAD IMPROVEMENT STD 207.
- 12 REMOVE INTERFERING PORTION OF ABANDONED PIPE AND VALVES.
- 13 PROTECT IN-PLACE EXISTING CONCRETE MOW STRIP.
- 14 PROTECT IN-PLACE EXISTING POWER POLE.
- 15 PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- 16 PROTECT IN-PLACE EXISTING UTILITY CONTROL BOX.



NO.	REVISIONS	DATE

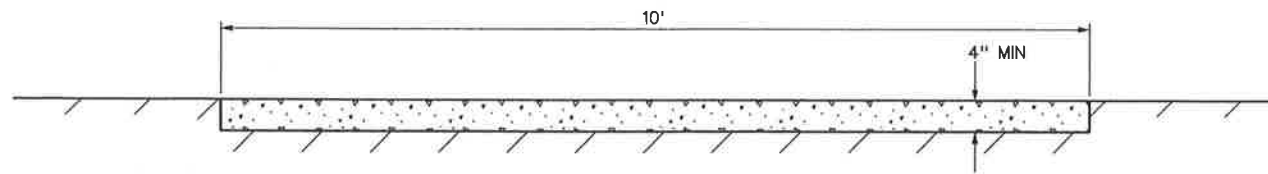
DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>Kyle W. Gallup</i>	APPROVED BY: _____
DRAWN BY: T. DECKER	DATE: 5/26/11	DATE: _____
DATE DRAWN: MAY 2011		



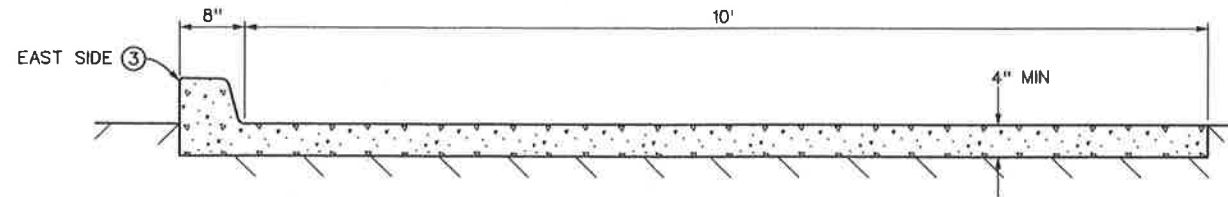
**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT**

**PALM CANYON WASH STAGE 4 LEVEE RESTORATION STAGE 91 PLAN & PROFILE STA 27+00 TO STA 31+13.35**

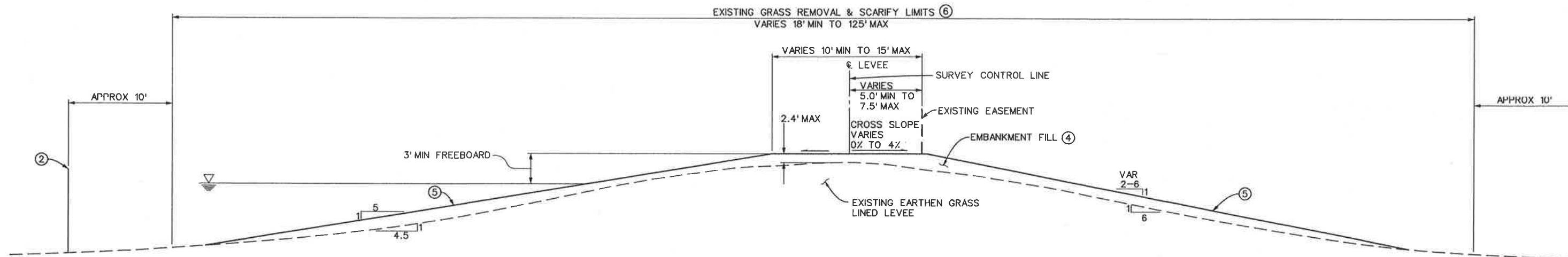
PROJECT NO. 6 DRAWING SHEET 4



**A**  
**3** CONCRETE CART PATH ①  
NEAR STA 26+03



**B**  
**4** CONCRETE CART PATH ① ②  
NEAR STA 30+07



**TYPICAL LEVEE SECTION**



**NOTES**

- ① ALL CONSTRUCTION TO BE OF CLASS "B" CONCRETE 4" MINIMUM THICKNESS.
- ② PLACE TEMPORARY ORANGE SILT FENCE PER LIMITS SHOWN ON PLANS.
- ③ CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD PLAN 203.
- ④ PLACE EMBANKMENT FILL OVER EXISTING PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- ⑤ PLACE SOD OVER FILL PER LIMITS SHOWN ON PLAN.
- ⑥ REMOVE EXISTING GRASS AND RELOCATE IRRIGATION LINES. SCARIFY EARTHEN LEVEE PER LIMITS SHOWN AND PREPARE SUBGRADE PER SPECIFICATIONS.

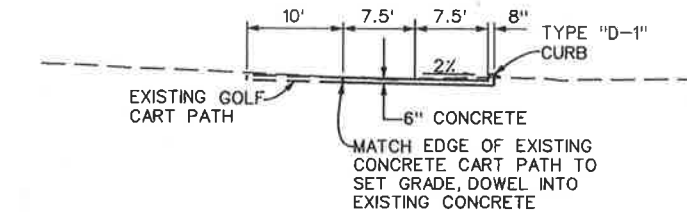
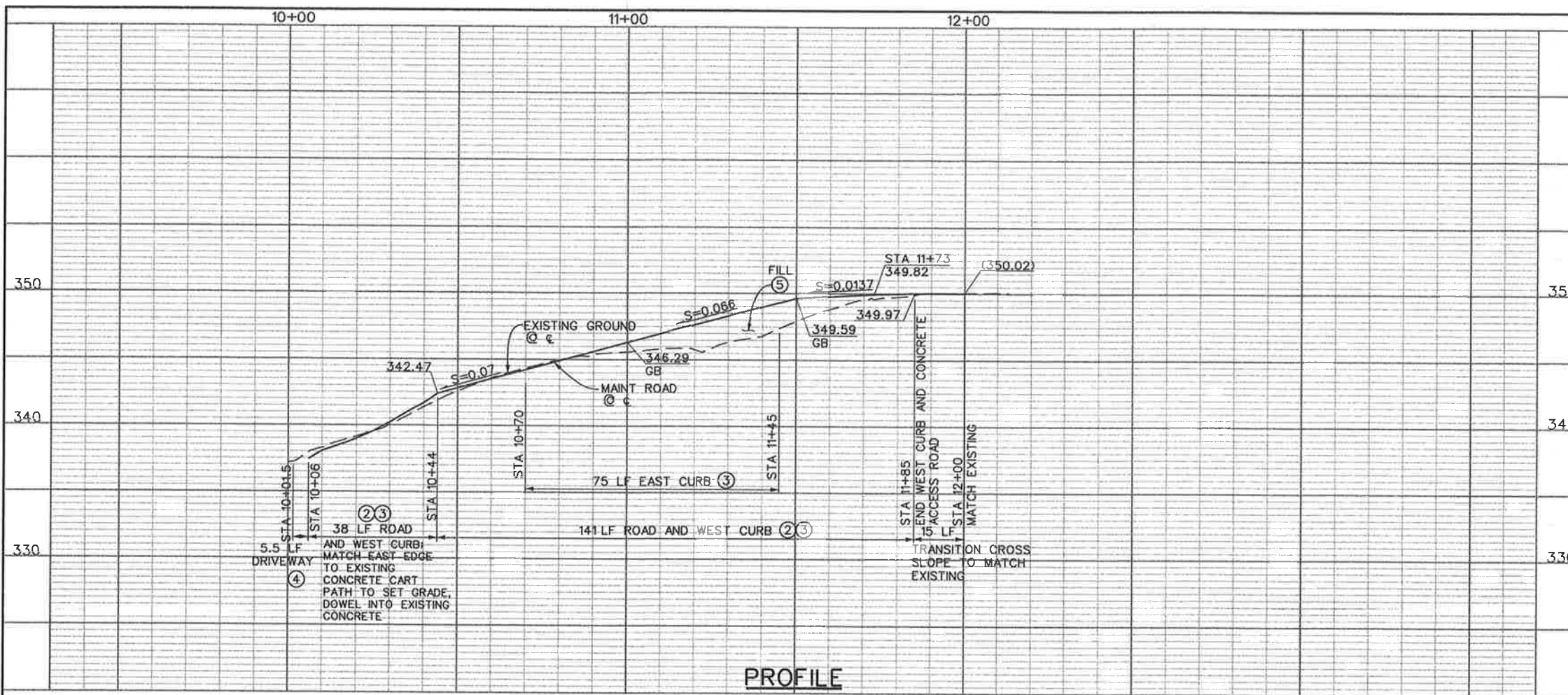


REF.	DESCRIPTION	APPR.	DATE

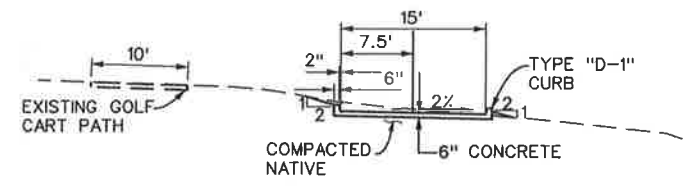
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>
DRAWN BY: T. DECKER	DATE: 5/26/11	DATE: 7-6-11

**PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91**

DETAILS



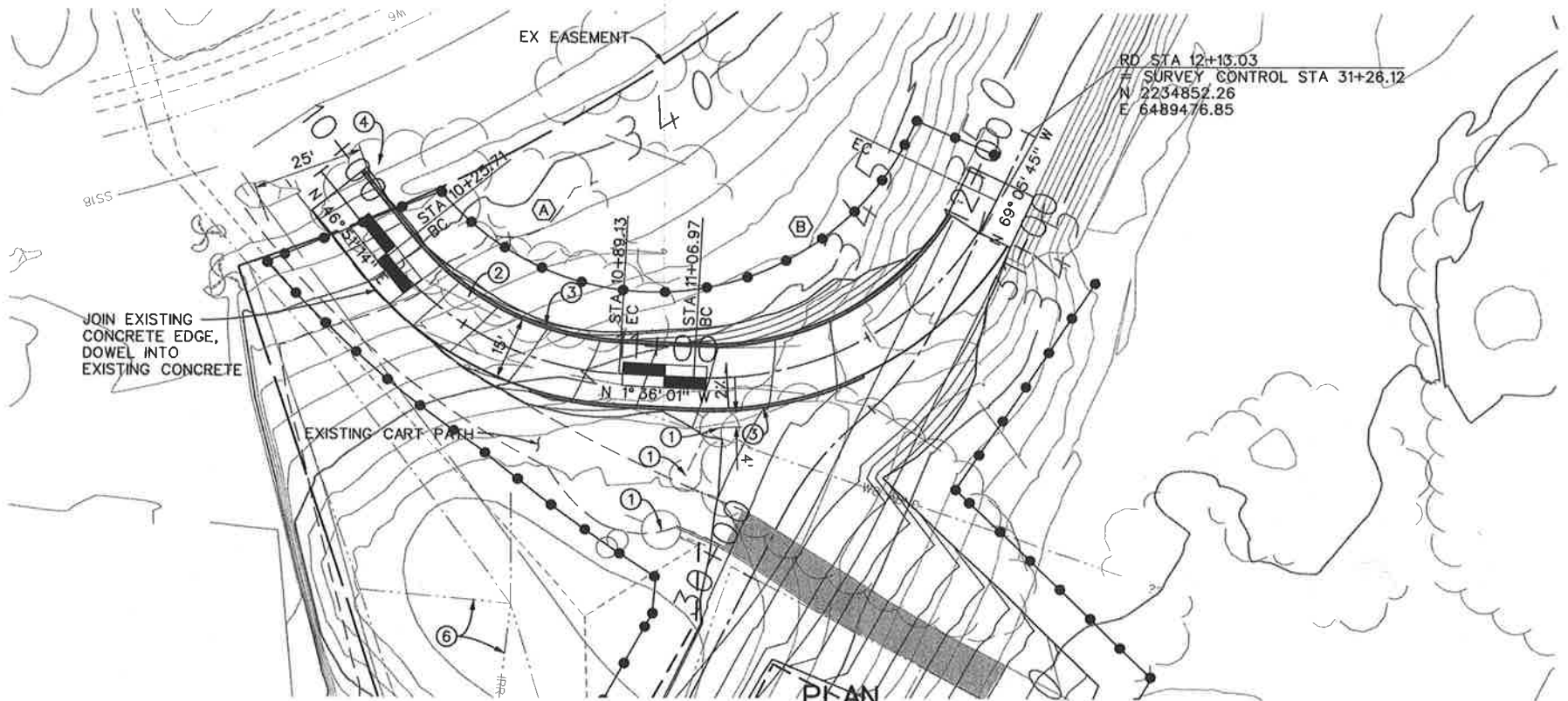
SECTION AT STATION 10+25



SECTION AT STATION 11+00



PROFILE



A) MAINTENANCE RD CURVE DATA

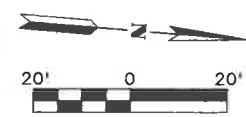
- Δ = 48° 27' 15"
- R = 75.00'
- L = 63.43'
- T = 33.75'
- BC = STA 10+25.71
- EC = STA 10+89.13
- PI = N 2234726.41
- E 6489543.05

B) MAINTENANCE RD CURVE DATA

- Δ = 67° 29' 44"
- R = 75.00'
- L = 88.35'
- T = 50.11'
- BC = STA 11+06.97
- EC = STA 11+95.32
- PI = N 2234828.06
- E 6489540.21

NOTES

- 1) PROTECT IN-PLACE EXISTING POWER POLE.
- 2) CONSTRUCT 15' WIDE ACCESS ROAD 6" THICK CONCRETE.
- 3) CONSTRUCT TYPE "D-1" CURB PER COUNTY ROAD IMPROVEMENT STD NO. 203.
- 4) REMOVE INTERFERING PORTION OF EXISTING NORTH APRON. WIDEN EXISTING DRIVEWAY APPROACH W=25' PER DETAIL HEREON AND COUNTY ROAD IMPROVEMENT STD 207.
- 5) PLACE FILL OVER EXISTING LEVEE PER LIMITS SHOWN ON PLAN, PROFILE AND DETAILS HEREON.
- 6) PROTECT IN-PLACE EXISTING UTILITY LINES.



Don't Dig...Until You Call U.S.A. Toll Free  
1-800-227-2600  
for the location of buried utility lines.  
Don't disrupt vital services.  
TWO WORKING DAYS BEFORE YOU DIG

NO.	REVISIONS	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
DESIGNED BY: D. DE CHAMBEAU	RECOMMENDED FOR APPROVAL BY: K.W. Gallup	APPROVED BY: [Signature]
DRAWN BY: T. DECKER	DATE: 5/26/11	DATE: 26-May 2011

PALM CANYON WASH  
STAGE 4  
LEVEE RESTORATION  
STAGE 91  
ACCESS ROAD DETAILS