

**SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT**



BID BOOK

FOR

**Las Vegas and San Pedro Creeks Capacity Improvement Project,
Conform Grading and Floodwall**

FIN PROJECT NO. SC8322

BID OPENING LOCATIONS:

Attention: Front Counter

**Santa Barbara County Flood Control and Water Conservation District Offices:
Naomi Swartz Building, 130 E. Victoria Street, Suite 200, Santa Barbara, CA 93101
North County Public Works Office, 620 West Foster Road, Santa Maria, CA 93455**

BIDS OPEN: 2:00 P.M.

MAY 19, 2015

Electronic Advertising Contract

**SCOTT D. McGOLPIN
DIRECTOR OF PUBLIC WORKS**

PROPOSAL

**TO THE HONORABLE BOARD OF DIRECTORS
OF THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT, STATE OF CALIFORNIA
FIN PROJECT NO. SC8322**

NAME OF BIDDER _____

BUSINESS P.O. BOX _____

CITY, STATE, ZIP _____

BUSINESS STREET ADDRESS _____
(include even if P.O. Box used)

CITY, STATE, ZIP _____

TELEPHONE NO: _____ **AREA CODE (_____)** _____

FAX NO: _____ **AREA CODE (_____)** _____

CONTRACTOR LICENSE NO. _____ **LICENCE CLASSIFICATION** _____

BUSINESS TYPE (Check one): **Corporation** _____ **Partnership** _____ **Sole Proprietorship** _____

CONTACT PERSON NAME _____ **CONTACT PERSON PHONE No.** _____

CONTACT PERSON E-MAIL _____

EMPLOYER'S TAX IDENTIFICATION NUMBER _____

- 1. Bidder agrees, if this bid is accepted, to enter into a contract with the District, to perform the work provided in the Contract under the terms of the Contract for the price or prices bid.

For a lump sum or unit price based bid, Bidder additionally agrees to perform the work within the number of working days shown on the *Notice to Bidders*.

For a cost plus time based bid on a contract without a plant establishment period, Bidder additionally agrees to perform the work within the number of working days bid.

For a cost plus time based bid on a contract with plant establishment period, Bidder additionally agrees to perform the non-plant establishment work with the number of working days bid for non-plant establishment work.

- 2. For a lump sum based bid, Bidder submits this bid with a total price in the total bid space provided on the Bid Item List

For a unit price or cost plus time based bid, Bidder submits this bid with a unit price and the item total (the product of the unit price and the quantity) for each item and a total price (the sum of the item totals) in the spaces provided on the attached Bid Item List.

For a cost plus time based bid, Bidder submits this bid with working days bid for non-plant establishment work, total bid for time, and total bid for bid comparison in the spaces provided on the Bid Item List.

Bidder agrees:

- 2.1. If a discrepancy between the unit prices and the item total exists, the unit price prevails except:

- 2.1.1. If the unit price is illegible, omitted, or the same as the item total, item total prevails and the unit price is the quotient of the item total and the quantity.

- 2.1.2. If a decimal error is apparent in the product of the unit price and the quantity, the District will use either the unit price or item total based on the closest by percentage to the unit price or item total in the District's Final Estimate.

- 2.2. If the unit price and the item totals are illegible or are omitted, the bid may be determined nonresponsive. If a lump sum total price is illegible or is omitted, the bid may be determined nonresponsive.
 - 2.3. Bids on lump sum items are item totals. If a unit price of a lump sum item is entered and it differs from the item total, the item total prevails.
 - 2.4. Entries are to be express in dollars or decimal fractions of a dollar. Symbols such as commas and dollar signs are ignored and have no significance in establishing unit price or item total.
 - 2.5. Unit prices and item totals are interpreted by the number of digits and decimal placement. Do not round item totals or the total bid.
 - 2.6. Bid comparisons are prescribed in Section 3-1.02 of the Standard Specification as amended by the Special Provisions.
 - 2.7. The District's decision on the bid amount is final.
3. Bidder has read and acknowledges the following addenda:
-
4. Bidder submits this bid with one of the following forms of bidder security equal to at least 10 percent of the bid:
- Cash \$ _____ , Cashier's Check, Certified Check, Bidder's Bond
5. Bidder's signature is an affirmation of the included certifications. Bidder is cautioned that making a false certification ay result in one or more of the following:
- 5.1. Criminal prosecution
 - 5.2. Rejection of Bid
 - 5.3. Rescission of the award
 - 5.4. Termination of the Contract

BY *(Authorized Signature)*

DATE SIGNED *(Do not type)*

PRINTED NAME AND TITLE OF PERSON SIGNING

BID ITEM LIST

Item No.	F ¹	Item Code	Description	Unit	Quantity	Unit Price	Item Total
1		050000A	Railroad Relations and Insurance	L.S.	1		
2		051260A	Construction Survey	EA.	1		
3		120090	Construction Area Signs	LS	1		
4		120100	Traffic Control System	L.S.	1		
5		130100	Job Site Management	L.S.	1		
6		130100A	Temporary Clear Water Diversion System	L.S.	1		
7		130310	Rain Event Action Plan	EA.	4	\$ 500.00	\$ 2,000.00
8		130320	Storm Water Sampling and Analysis Day	EA.	4		
9		130330	Storm Water Annual Report	EA.	1	\$ 2,000.00	\$ 2,000.00
10		130620	Temporary Drainage Inlet Protection	EA.	2		
11		130640	Temporary Fiber Roll	L.F.	1,190		
12		130660	Temporary Large Sediment Barrier	L.F.	1,620		
13		130680	Temporary Silt Fence	L.F.	870		
14		130710	Temporary Construction Entrance /Exit	EA.	3		
15		130900	Temporary Concrete Washout	L.S.	1		
16		141000	Temporary Fence (Type ESA)	L.F.	1,620		
17		150190	Inject Crack (Epoxy)	LF	622		
18		150209A	Remove Lake Liner and Aeration System (Twin Lakes Golf Course)	L.S.	1		
19		150312	Repair Spalled Surface Area	SF	622		
20		150241	Abandon Sewer Main	EA.	1		
21		150605	Remove Fence	L.F.	330		
22		150605A	Remove Wood Piles	L.S.	1		
23		150820	Remove Concrete Outlet Structure (Twin Lakes Golf Course)	L.S.	1		
24		152440	Adjust Manhole to Grade	EA.	1		
25		152660A	Trim Drainage Pipe	EA.	2		
26		153220	Remove Concrete (Channel)	C.Y.	114		
27		160103	Clearing and Grubbing	AC.	0.74		
28		190101	Roadway Excavation	C.Y.	6,320		
29		192037	Structure Excavation (Retaining Wall)	CY	1,536		
30		193013	Structure Backfill (Retaining Wall)	CY	577		
31		193119	Lean Concrete Backfill	CY	616		
32		198050	Embankment Fill (Twin Lakes Golf Course)	C.Y.	2,445		
33		210010A	High Performance Turf Reinforcement Mats	S.Y.	700		

BID ITEM LIST CONTINUED,

Item No.	F ¹	Item Code	Description	Unit	Quantity	Unit Price	Item Total
34		210270	Rolled Erosion Control Product (Netting)	S.F.	9,550		
35		210300	Hydromulch	S.F.	14,130		
36		210430	Hydroseeding	S.F.	14,130		
37		406050	Drill & Bond Dowels (#3 bar) Epoxy Coated	EA	159		
38	F	510060	Structural Concrete, Retaining Wall	CY	480		
39		510502	Minor Concrete (Minor Structure - Concrete Cutoff Wall)	C.Y.	2		
40		510502	Minor Concrete (Minor Structure, Concrete Swale)	LF	845		
41	F	520103	Bar Reinforcing Steel (Retaining Wall)	LB	50,000		
42		641100A	3-in Dia SDR 35 PVC Pipe (Twin Lakes Golf Course)	L.F.	38		
43		641101A	12-in Dia SDR 35 PVC Pipe (Twin Lakes Golf Course)	L.F.	306		
44		705500A	15-in Dia Drain Basin (Twin Lakes Golf Course)	EA.	1		
45		705700A	Outlet Structure and Flap Gate	EA	3		
46		72000A	Fabric Formed Concrete Revetment Mat + RSP Fabric	SF	300		
47		721013	Rock Slope Protection (1/4 Ton, Method B)	C.Y.	1,460		
48		721014A	24" - 36" Rock Weir	C.Y.	600		
49		721015A	Clay Barrier	C.Y.	20		
50		721015	Rock Slope Protection (Light, Method B)	C.Y.	674		
51		721026	Rock Slope Protection (Backing No. 1, Method B)	C.Y.	50		
52		721430	Cast-in-place Concrete (Slope protection)	CY	72		
53		729012	Rock Slope Protection Fabric (Class 10)	S.Y.	4,240		
54		750497	Miscellaneous Metal (Anchor Assemblies and Anchor Pins)	LB	733		
55		770010A	Remove Existing Fire Hydrant, Lateral, Assembly and Valves	LS	1		
56		770020A	Cut, Cap and Abandon Existing 8" Cast Iron Water Main	LS	1		
57		770030A	Water Main Lowering	LS	1		
58		770040A	Tie-in To Existing Water Main	LS	1		
59		770050A	6" Mechanical Joint Gate Valve	EA.	1		
60		770060A	Fire Hydrant Assembly, Gate Valve and Lateral	LS	1		

BID ITEM LIST CONTINUED,

Item No.	F ¹	Item Code	Description	Unit	Quantity	Unit Price	Item Total
61		770070A	1" Mechanical Joint Combination Air Valve	EA.	1		
62		770080A	Temporary Water Service Connection	LS	1		
63		800001A	Post Rail Fence	L.F.	98		
64		800360	Chain Link Fence (Type CL-6)	LF	138		
65		881020A	Biaxial Geogrid	S.Y.	13		
66		999990	Mobilization	L.S.	1		
CONTRACTOR'S BID ITEMS SUBTOTAL							
67			Supplemental Work (Additional Water Pollution Control)	LS	1		\$3,000.00
68			Supplemental Work (Storm Water Sampling and Analysis)	LS	1		\$2,700.00
69			Supplemental Work (Treated Wood Waste Disposal)	LS	1		\$3,500.00
70			Supplemental Work (Relocate Irrigation Facilities)	LS	1		\$10,500.00
SUPPLEMENTAL BID ITEMS SUBTOTAL							
TOTAL BID ITEMS AND SUPPLEMENTAL BID ITEMS							

EXPERIENCE STATEMENT

The following outline is a record of your experience in construction of a type similar in magnitude and character to that contemplated under this contract and performed within the last five (5) years. Attach additional sheets if necessary.

PROJECT TITLE, DESCRIPTION (TYPE WORK)	CUSTOMER/ AGENCY	CONTACT PERSON PHONE NUMBER	YEAR COMPLETED	DOLLAR VALUE
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LIST OF PROPOSED MATERIAL MANUFACTURERS AND SUPPLIERS

Bidder shall indicate the names of the material manufacturers and suppliers proposed to be furnished under the contract. Awarding of the contract based on this bid will not imply approval by the Owner of the manufacturers or suppliers listed by the Bidder, however, no substitution of approved manufacturers and suppliers will be permitted after award of the contract except upon written approval of the Owner.

MATERIAL

MANUFACTURER\SUPPLIER

Portland Cement

LIST OF SUBCONTRACTORS

FOR THE

LAS VEGAS SAN PEDRO CREEKS CAPACITY IMPROVEMENT PROJECT CONFORM GRADING AND FLOODWALL

F.I.N. PROJECT NO. **SC8322**

In compliance with the provisions of Sections 4100-4107 of the Government Code of the State of California, and any amendments, thereof, the undersigned bidder has set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work to be performed. That percentage of the work which will be done by each subcontractor who will perform work or labor or render service to the undersigned in or about the construction done by each subcontractor for each subcontract in excess of one-half of one percent of the undersigned's total aggregate bid shall be listed below or submitted within 24 hours after bid opening.

	<u>Subcontr.</u> <u>License</u> <u>Number</u>	<u>Percent</u> <u>of Total</u> <u>Bid</u>	<u>Subcontractor's</u> <u>Name and Address</u>
1. _____	_____	_____	_____ _____ _____
2. _____	_____	_____	_____ _____ _____
3. _____	_____	_____	_____ _____ _____
4. _____	_____	_____	_____ _____ _____
5. _____	_____	_____	_____ _____ _____

By: _____
(Bidder's signature)

Note: Attach additional sheets if required.

BIDDER'S BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
_____ as Principal, and
_____ as Surety

(hereinafter referred to as Surety), are held firmly bound unto the Santa Barbara County Flood Control and Water Conservation District of the State of California (hereinafter called "Owner") in the penal sum of 10 percent of the total aggregate amount of the bid of the Principal above named, submitted by said Principal to Owner for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. Surety shall be and hereby warrants that it is listed in the Insurance Organizations Authorized By The Insurance Commissioner To Transact Business of Insurance In The State Of California During 1995 (including changes effective January 1, 1996), published by the Department of Insurance, State of California or successor publications. In no case shall the liability of the Surety hereunder exceed the sum of

_____ DOLLARS (\$ _____).

The condition of this obligation is such that a bid to Owner for certain construction specifically described as follows:

LAS VEGAS SAN PEDRO CREEKS CAPACITY IMPROVEMENT PROJECT CONFORM GRADING AND FLOODWALL

FIN PROJECT NO. SC8322

for which bids are to be opened on **MAY 19, 2015**, has been submitted by Principal to Owner.

NOW, THEREFORE, if the aforesaid Principal shall not withdraw said bid within the period therein specified after the opening of the same, or, if no period be specified within sixty (60) days after said opening and shall within the period specified therefor, or, if no period be specified, within eight (8) days after the prescribed forms are presented to him for signature, enter into a written Contract with Owner, in the prescribed form, in accordance with the bid as accepted, and file the two Bonds with Owner, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall remain in full force, virtue and affect.

Said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any change, extension, alteration, or addition.

It is hereby agreed that any progress payment made after the scheduled completion date will not constitute a waiver of any liquidated damages heretofore agreed upon.

In the event suit is brought upon said Bond by Owner and judgment is recovered, the Surety shall pay all costs incurred by Owner in such suit, including a reasonable attorney's fee to be fixed by the Court.

BIDDER'S BOND

Death, Bankruptcy, Receivership, Going Out of Business for any reason, or incompetency of the Principal shall not relieve the Surety of its obligations hereunder.

	Name of Principal
Date	Signature of Principal
	(Seal)
	Name of Surety
	Address
	City, State & Zip
	(Seal)
Date	Signature of Surety's Attorney-in-fact

Surety's Agent for Service of Process (located within the State of California)

	Name of Agent
	Address
	City, State & Zip
	Telephone Number
	FAX Number

NOTE: Signatures of those executing for Surety MUST be properly acknowledged as shown in the attached Required Notarial Acknowledgement.

Note: This form may be reproduced for transmittal to the Surety for execution and attached to the front of this the original Bid Bond Form.

REQUIRED NOTARIAL ACKNOWLEDGEMENT FORMAT

State of California)
County of _____)

On ___(date)___ before me, *(here insert name and title of the signing officer)*, personally appeared _____, 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 _____ (Seal)

OPT OUT OF PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS

DES-OE-0102.12A (NEW 3/2011)

You may opt out of the payment adjustments for price index fluctuations specified in section 9-1.07 of the specifications. To opt out, complete this form and submit it with your bid.

Bidder's Name: _____ **CONTRACT NO.** ____ - _____

I opt out of the payment adjustments for price index fluctuations.

Date: _____

Signature: _____

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT**

**CONTRACT
FOR**

**LAS VEGAS SAN PEDRO CREEKS CAPACITY IMPROVEMENT PROJECT
CONFORM GRADING AND FLOODWALL**

FIN PROJECT NO. SC8322

**SCOTT D. McGOLPIN
DIRECTOR OF PUBLIC WORKS**

**SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT AGREEMENT FOR:
County Project No. SC8322**

Auditor – Controller Contract No. _____

THIS AGREEMENT is made by and between the Santa Barbara County Flood Control and Water Conservation District, a political subdivision of the State of California, hereinafter called **DISTRICT**, and _____ hereinafter referred to as **CONTRACTOR**, for the completion of the work identified herein, on the following terms, conditions and provisions:

1. CONTRACT

This agreement includes and incorporates by reference all Contract Documents.

The Contract is comprised of all documents distributed to bidders as part of the Bid Package, including, but not limited to:

1. Special Provisions
2. Project Plans
3. State of California, Department of Transportation 2010 Standard Specifications
4. State of California, Department of Transportation 2010 Standard Plans
5. State of California, Department of Transportation 2010 Revised Standard Specification
6. County of Santa Barbara, Department of Public Works, Standard Details dated September 2011
7. Santa Barbara County Code
8. Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished
9. The Proposal executed and submitted by the Contractor
10. Notice to Bidders
11. The Faithful Performance and Payment Bonds, and
12. Any Addenda

The Contractor acknowledges receipt of all such documents as were not already in the Contractor's possession. Said incorporated documents are referred to herein as the "Contract" or "Contract Documents"

Copies of all said documents are on file in the Santa Barbara County Flood Control District's Santa Barbara office and have been and will be made available to the CONTRACTOR during the term of this Agreement.

The Special Provisions for the work to be done are entitled:

**SANTA BARBARA FLOOD CONTROL AND WATER CONSERVATION DISTRICT; NOTICE TO
BIDDERS AND SPECIAL PROVISIONS FOR
LAS VEGAS SAN PEDRO CREEKS CAPACITY IMPROVEMENT PROJECT CONFORM
GRADING AND FLOODWALL**

The project plans for the work to be done are entitled:

SANTA BARBARA FLOOD CONTROL AND WATER CONSERVATION DISTRICT

2. WORK

CONTRACTOR agrees, at his own proper cost and expense, to do all the work and furnish all equipment and materials, except such as mentioned in the specifications to be furnished by the District, necessary to perform and complete the work described in the documents referred to above, in a good and workmanlike manner to the satisfaction of the Director of Public Works of said DISTRICT, all in strict accordance with the Plans and the Contract Documents provided.

The bidder shall perform all of its services under this Agreement as an independent contractor and not as an employee of DISTRICT. CONTRACTOR understands and acknowledges that it shall not be entitled to any of the benefits of a DISTRICT employee, including but not limited to vacation, sick leave, administrative leave, health insurance, disability insurance, retirement, unemployment insurance, workers' compensation and protection of tenure.

3. PAYMENTS NOT ACCEPTANCE

No certificate given or payments made under this Contract shall be evidence of the performance of this Contract, either wholly or in part, against any claim upon CONTRACTOR. Final payment for the work performed under this Contract shall not be made until the lapse of thirty (30) days after the Notice of Completion of said work has been filed for record and no payment shall be construed to be acceptance of any defective work or improper materials. CONTRACTOR's acceptance of payment for final quantities due under this Contract and the payment of undisputed contract amounts due for any work in accordance with any amendments of this Contract, shall release the Santa Barbara County Flood Control District from any and all claims or liabilities on account of work performed under this Contract or any amendments thereof related to those amounts. In addition to guarantees required elsewhere, CONTRACTOR shall and does hereby guarantee all workmanship and material to be free of defects for a period of one year from and after the recordation of the Notice of Completion by the DISTRICT, and CONTRACTOR shall repair or replace any or all work and material, together with any other portions of the work which may be displaced in so doing, that in the opinion of the Engineer, is or becomes defective during the period of said guarantee without expense whatsoever to the DISTRICT.

4. EXECUTION OF COUNTERPARTS This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original; and all such counterparts, or as many of them as the parties shall preserve undestroyed, shall together constitute one and the same instrument.”

5. RECORDS, AUDIT, AND REVIEW CONTRACTOR shall keep such business records pursuant to this Agreement as would be kept by a reasonably prudent practitioner of CONTRACTOR'S profession and shall maintain such records for at least four (4) years following the termination of this Agreement. All accounting records shall be kept in accordance with generally accepted accounting practices. District shall have the right to audit and review all such documents and records at any time during CONTRACTOR'S regular business hours or upon reasonable notice.

6. PAYMENT As full compensation for furnishing all labor, supervision, overhead, materials and equipment and for doing all the work completed and embraced in this Agreement and subject to adjustments and liquidated damages, if any, as provided in the Contract Documents, the base amount to be paid to the CONTRACTOR for satisfactory completion of all requirements of the CONTRACTOR under this Agreement is and shall be \$Bid Amount, to be paid as provided in the Contract Documents.

The Engineer is authorized to order the performance of supplemental work. In no event shall the District be liable for the cost of any supplemental work unless approved in advance and in writing by the Engineer.

The Engineer is authorized to order, as change order work, changes and additions to the work being performed under this contract in an amount not to exceed \$Award Contig (Contingency) in accordance with California Public Contract Code Sections 20142 and 20395, as applicable, to be paid as provided in the Contract Documents. In no event shall the District be liable for the cost of any changes or additions to work being performed under this contract unless approved in advance and in writing by the Engineer.

7. COMPLIANCE WITH LAW, AMENDMENTS CONTRACTOR shall keep fully informed of all laws, ordinances and regulations which do or may affect the conduct of the work, the materials used therein or persons engaged or employed thereon and all such orders of bodies and tribunals having any jurisdiction over same. If it be found that the Special Provisions or Standard Specifications for the work conflict with any such law, ordinance or regulation, the CONTRACTOR shall immediately report same to the Engineer in writing. CONTRACTOR shall at all times observe and comply with and shall cause all agents and employees to observe and comply with all such laws, ordinances, regulations or decrees as the same now exists or may be hereafter amended and all superseding provisions thereof. CONTRACTOR acknowledges, particularly, the provisions of Sections 9100 through 9510, inclusive, of the Civil Code of California. CONTRACTOR shall protect and indemnify the Santa Barbara County Flood Control District, the Board of Directors, the Flood Control Engineer, and/or any officer, agent or employee of the DISTRICT against any claims or liability arising from or based on the violation of any such law, ordinance, regulation or decree whether by CONTRACTOR, or a subcontractor, agent or employee.

8. DISPUTES Should any dispute arise which the parties are unable to resolve by negotiation respecting the interpretation, construction or meaning of any of the plans or specifications or provisions affecting the work or respecting the true value of any extra work or work omitted, the dispute shall be submitted to arbitration. Such arbitration shall be carried out in accordance with provisions of the Public Contract Code,

any applicable provision of County ordinance, regulation or standard and in accordance with standards of the American Arbitration Association. Any resulting arbitration ruling or result shall be binding on the parties, unless there is a mutual written agreement to litigate the matter.

The Contractor's attention is directed to the provisions of Public Contract Code 20104 for resolutions of claims of \$375,000 or less. The claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.

9. ASSIGNMENTS You must not assign any rights nor transfer any of your obligations under this contract without the District's prior written consent, and any attempt to so assign or so transfer without such consent shall be void and without legal effect and shall constitute grounds for termination.

10. REGISTRATION. DISTRICT hereby notifies CONTRACTOR that no contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code § 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code § 1771.1(a)]; no contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code § 1725.5; and this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

IN WITNESS WHEREOF, the parties have executed this Agreement to be effective on the date executed by DISTRICT.

SANTA BARBARA COUNTY FLOOD CONTROL
& WATER CONSERVATION DISTRICT

CONTRACTOR

By: _____
Janet Wolf, Chair
Board of Directors

Date: _____

By: _____

License No. _____

ATTEST:
MONA MIYASATO, COUNTY EXECUTIVE OFFICER
CLERK OF THE BOARD

By: _____
Deputy Clerk

APPROVED TO AS FORM
MICHAEL C. GHIZZONI
COUNTY COUNSEL

APPROVED AS TO ACCOUNTING
FORM:
ROBERT W GEIS, CPA
AUDITOR-CONTROLLER

By: _____
Deputy County Counsel

By: _____
Deputy

APPROVED AS TO FORM:
RAY AROMATORIO, ARM, AIC
RISK MANAGER

APPROVED AS TO FORM:
SCOTT D. MCGOLPIN
PUBLIC WORKS DIRECTOR

By: _____
Risk Manager

By: _____
Public Works Director

CERTIFICATE OF COMPLIANCE

This is to certify that all requirements for insurance of subcontractors as specified for this project have been met.

Firm

By

Title

Date

CALIFORNIA LABOR CODE SECTION 1860 AND 1861 CERTIFICATION

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for worker's 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.

Firm

By

Title

Date

(Submit completed form with your Agreement, Bonds and Certificates of Insurance)

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That the Santa Barbara County Flood Control District and Water Conservation District of the State of California (hereinafter referred to as the District) and _____ (hereinafter referred to as Principal) have by written agreement entered into a Contract identified as:

Project Title: **Las Vegas and San Pedro Creeks Capacity Improvement Project Conform Grading and Floodwall**

FIN Project No. **SC8322**

(Hereinafter referred to as the Contract) and

That, pursuant to law and to said Contract, and before entering upon the performance of said Contract, the principal is required to file with the District a good and sufficient bond to secure the payment of labor and materials claims.

NOW, THEREFORE, said Principal and _____

as corporate surety (hereinafter referred to as Surety), are held firmly bound unto the District in the amount of _____ for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns both jointly and severally. Surety shall be and hereby warrants that it is currently listed as an insurer authorized and admitted by the California Insurance Commissioner to issue surety insurance in the State of California, in the list published by the California Department of Insurance.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said principal, his or its subcontractors, heirs, executors, administrators, successors, or assigns, shall fail to pay any of the persons named or referred to in Section 9100 of the California Civil Code, or amounts due under Unemployment Insurance Code with respect to work or labor performed by any such claimant, or for any amounts required to be deducted, withheld and paid over to the Employment Development Department from the wages of employees of the Contractor and his Subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work and labor as required by Division 4, Part 6, Title 3, Chapter 5 (commencing at Section 9550) of the California Civil Code, or this bond, then said Surety will pay for the same, in an amount not to exceed the amount hereinafter set forth.

This bond shall insure to the benefit of any and all persons, entities, companies and corporations named or referred to in Section 9100 of the California Civil Code, so as to give a right of action to them or their assign in any suit brought upon this bond.

And the said Surety, for value received, hereby agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder, or the Specifications accompanying the same, shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Specifications.

In the event suit is brought upon this Bond by District and judgment is recovered, Surety shall pay all costs incurred by the District in such suit, including a reasonable attorney's fee to be fixed by the court.

Death, illness, disability or disqualification of the Principal shall not relieve Surety of its obligations hereunder.

Principal

Surety

By

Signature of Attorney-in-fact

DATED:

Address

Surety's Agent for Service of Process (located within the State of California):

Name of Agent

Address

City, State & Zip

FAX Number

NOTE: Signatures of those executing for Surety and Power of Attorney MUST have notarial acknowledgement in the format shown in the Bid Book.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That the Santa Barbara County Flood Control and Water Conservation District of the State of California (hereinafter referred to as the District) and _____ (hereinafter referred to as Principal) have by written agreement entered into a Contract identified as:

Project Title: **Las Vegas San Pedro Creeks Capacity Improvement Project Conform Grading and Floodwall**

FIN_Project No. **SC8322**

(Hereinafter referred to as the Contract) and

That, the Principal is required under the terms and conditions of said Contract to furnish a bond for the faithful performance of Contract.

NOW, THEREFORE, said Principal and _____

as corporate surety (hereinafter referred to as Surety), are held firmly bound unto the District in the amount of _____ for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns both jointly and severally. Surety shall be and hereby warrants that it is currently listed as an insurer authorized and admitted by the California Insurance Commissioner to issue surety insurance in the State of California, in the list published by the California Department of Insurance.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Principal, his heirs, executors, administrators, successors, or assigns, shall perform all of the covenants, conditions and agreements in said Contract and any alteration thereof made as herein provided, in his or their part, to be kept and performed at the time, and in the manner therein specified, and shall indemnify and save harmless District, its officers, agents, and employees, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force, virtue and effect.

And the said Surety, for value received, hereby agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder, or the specifications accompanying the same shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or additions to the terms of the Contract or to the work or to the specifications.

In the event suit is brought upon this Bond by District and judgment is recovered, Surety shall pay all costs incurred by the District in such suit, including a reasonable attorney's fee to be fixed by the court.

Death, illness, disability or disqualification of the Principal shall not relieve Surety of its obligations hereunder.

Principal

Surety

By

Signature of Attorney-in-fact

DATED:

Address

Surety's Agent for Service of Process (located within the State of California):

Name of Agent

Address

City, State & Zip

FAX Number

NOTE: Signatures of those executing for Surety and Power of Attorney MUST have notarial acknowledgement in the format shown in the Bid Book.

STATEMENT OF

UNLAWFUL DISCRIMINATION IN EMPLOYMENT PRACTICES

(SANTA BARBARA COUNTY CODE, SECTION 2-95)

The party contracting with the Santa Barbara County Flood Control and Water Conservation District agrees that it will not discriminate against any employee or applicant for employment in violation of any applicable State or Federal laws, rules or regulations which may now or hereafter specifically prohibit such discrimination on such grounds as race, religion, sex, color, national origin, physical or mental disability, Vietnam era veteran/disabled, age, medical condition, marital status, ancestry, sexual orientation, or other legally protected status. If it is determined by the Board of Directors upon recommendation of the Affirmative Action Officer and the County Counsel that during the life of this agreement any such unlawful discriminations have occurred, the Board of Directors may forthwith terminate this agreement. Said party contracting with the District further agrees that whether or not the term of this agreement is still in existence at the time of final determination of such unlawful discrimination, that it will forthwith reimburse the District for any and all damages, costs and expenses incurred in connection with such unlawful discrimination, including but not limited to damages from loss of Federal or State grants, subventions or loans; costs of processing, investigating and reporting complaints of unlawful discrimination; additional costs of expenses incurred in completion of this agreement by another party if this agreement is terminated before completion; all costs of suit including reasonable attorney's fees incurred in collecting any such damages, costs and expenses; and interest at on all such damages, costs and expenses from the date they are incurred to date of payment.

Employment practices shall include, but are not limited to employment, promotion, demotion, transfer, recruitment and advertising for recruitment, layoff or other termination, rates of pay, employee benefits and all other forms of compensation, selection for training and apprenticeship and probationary periods.

Said party contracting with the District further agrees to permit access at all reasonable times and places to all of its records of employment advertising, application forms, tests and all other pertinent employment data and records, to the Santa Barbara County Flood Control and Water Conservation District, its officers, employees and agents for the purpose of investigation to ascertain if any unlawful discrimination as described herein has occurred or is being practiced.

Failure to fully comply with any of the foregoing provisions relating to unlawful discrimination in employment practices shall be deemed to be a material breach of this agreement.

**SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT**



**NOTICE TO BIDDERS
AND
SPECIAL PROVISIONS**

FOR

**Las Vegas and San Pedro Creeks Capacity Improvement Project,
Conform Grading and Floodwall**

FIN PROJECT NO. SC8322

BID OPENING LOCATIONS:

Attention: Front Counter

**Santa Barbara County Flood Control and Water Conservation District Offices:
Naomi Swartz Building, 130 E. Victoria Street, Suite 200, Santa Barbara, CA 93101
North County Public Works Office, 620 West Foster Road, Santa Maria, CA 93455**

BIDS OPEN: 2:00 P.M.

MAY 19, 2015

Electronic Advertising Contract

**SCOTT D. McGOLPIN
DIRECTOR OF PUBLIC WORKS**

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**SANTA BARBARA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
NOTICE TO BIDDERS**

Sealed bids will be received until 2:00 PM, Tuesday, May 19, 2015, for the LAS VEGAS AND SAN PEDRO CREEKS CAPACITY IMPROVEMENTS PROJECT, CONFORM GRADING and FLOODWALL at the front counter of the;

Santa Barbara County Flood Control and
Water Conservation District office
Naomi Schwartz Building
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93101
Tel. (805) 568-3440

or

North County Public Works office
620 West Foster Road
Santa Maria, CA 93455
Tel. (805) 739-8750

Each bid will be publicly opened and read at or about that time.

GENERAL WORK DESCRIPTION: The Project generally consists of providing water pollution control; channel excavation and backfill; rock slope protection; placement of High Performance Turf Reinforcement Mats; placement of a rock weir and clay barrier; construction of minor cast-in-place reinforced concrete structures; grading existing lakes on golf course; construction of a floodwall; relocation of a water main and appurtenances; protection of existing facilities and utilities; hydroseeding.

PROJECT LOCATION DESCRIPTION: The WORK occurs in and along the banks of San Pedro and Las Vegas Creeks, in the city of Santa Barbara, Santa Barbara County, California, within private properties owned by the City of Santa Barbara, Caltrans, Hayward Lumber Company, Union Pacific Railroad (UPRR) and Southern California Gas Company.

Complete the work within **sixty (60) working days**.

Dodge Green Sheet Value Code H.

A non-mandatory pre-bid job walk is scheduled for 10:00AM, Tuesday, May 12, 2015. Bidders interested in attending are to meet at the Twin Lakes Golf Course parking lot located at 6034 Hollister Ave., Goleta, CA 93117.

The Plans, Specifications, Bid Book and other Contract Documents are available at no charge at:

<http://www.countyofsb.org/pwd/pwwater.aspx?id=3600>.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

For each bid all forms must be filled out as indicated in the bid documents. The entire Bid Book must be submitted. Proposals by Bidder(s) not listed as a holder of plans and specifications on the Plan Holders of Record Sheets will be returned unopened.

Submit your bid with bidder's security equal to at least 10 percent of the Bid.

Pursuant to the provisions of Section 1770 et seq. of the California Labor Code, the Prime Contractor shall pay not less than the prevailing rate of per diem wages as determined by the Director of the Department of Industrial Relations. A copy of the prevailing rate of per diem wages is on file at the office of the Santa Barbara County Flood Control and Water Conservation District. In addition, the Prime Contractor shall be responsible for

compliance with the requirements of Section 1777.5 of the California Labor Code relating to use of apprentice labor on public works contracts. The OWNER policy is to encourage the employment and training of apprentices on its construction contracts as may be permitted under local apprenticeship standards.

Pursuant to Section 22300 of the Public Contract Code, and the project specifications, the Contractor may substitute securities for monies withheld to ensure contract performance.

The Contractor shall be subject to the provisions of Article XIII, Chapter 2, of the Santa Barbara County Code, prohibiting unlawful discrimination of employment practices.

The Bidder shall possess a Class A General Engineering Contractor license or a combination of Class C licenses which constitute the majority of the work in accordance with the provisions of Chapter 9, Division III of the Business and Professions Code at the time that the Bid is submitted. Failure to possess the required license(s) shall render the Bid as non-responsive and shall act as a bar to award of the Contract to any bidder not possessing said license.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications or estimate must be submitted as a bidder inquiry prior to 2:00 p.m. on the Friday of the week preceding bid opening. Submittals after this date will not be addressed. Questions pertaining to this Project prior to Award of the Contract shall be directed to:

ksulliv@cosbpw.net or (805) 568-568-3458

Include "Project No. SC8322" in the subject field.

Bidders (Plan Holders of Record) will be notified by electronic mail if addendums are issued. The addendums, if issued, will only be available on the County Website:

<http://www.countyofsb.org/pwd/pwwater.aspx?id=3600>

Bidders are required to acknowledge receipt of all addendums where noted on the Bid Form.

The OWNER reserves the right to reject any or all bids, to waive any informalities and/or inconsistencies in a bid, and to make awards to the lowest responsive, responsible bidder as it may best serve the interest of the OWNER.

Date: 4-13-15

OWNER: The Santa Barbara County Flood Control and Water Conservation District

By: 
Thomas D. Fayram
Deputy Director, Public Works
Water Resources Division

**SPECIAL PROVISIONS
FOR
Las Vegas and San Pedro Creeks Capacity
Improvements Project,
Conform Grading and Floodwall**

FIN PROJECT NO. SC8322

The special provisions contained herein have been prepared under the direction of the following Registered Persons.

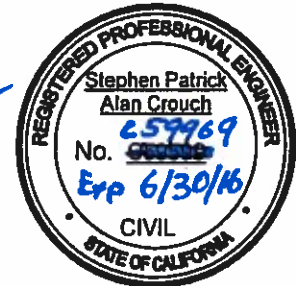
KMSullivan
REGISTERED CIVIL ENGINEER
FLOOD CONTROL DISTRICT PROVISIONS

4-13-15
DATE



Stephen Crouch
REGISTERED CIVIL ENGINEER
TECHNICAL PROVISIONS

4/15/15
DATE



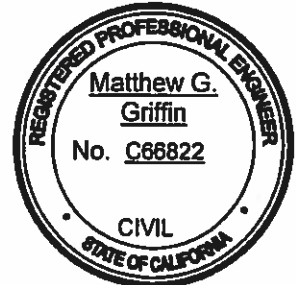
KMSullivan
REGISTERED CIVIL ENGINEER
TECHNICAL PROVISIONS

4-15-15
DATE



Matthew Griffin
REGISTERED CIVIL ENGINEER
TECHNICAL PROVISIONS

4-13-15
DATE



Ken Sullivan
PROJECT MANAGER

4-13-15
DATE

Matthew S. Paul
APPROVAL RECOMMENDED - ENGINEERING MANAGER

4-14-15
DATE

[Signature]
APPROVED BY DEPUTY DIRECTOR OF PUBLIC WORKS,
WATER RESOURCES

4-13-15
DATE

COPY OF BID ITEM LIST

Item No.	F ₁	Item Code	Description	Unit	Quantity	Unit Price	Item Total
1		050000A	Railroad Relations and Insurance	L.S.	1		
2		051260A	Construction Survey	EA.	1		
3		120090	Construction Area Signs	LS	1		
4		120100	Traffic Control System	L.S.	1		
5		130100	Job Site Management	L.S.	1		
6		130100A	Temporary Clear Water Diversion System	L.S.	1		
7		130310	Rain Event Action Plan	EA.	4	\$ 500.00	\$ 2,000.00
8		130320	Storm Water Sampling and Analysis Day	EA.	4		
9		130330	Storm Water Annual Report	EA.	1	\$ 2,000.00	\$ 2,000.00
10		130620	Temporary Drainage Inlet Protection	EA.	2		
11		130640	Temporary Fiber Roll	L.F.	1,190		
12		130660	Temporary Large Sediment Barrier	L.F.	1,620		
13		130680	Temporary Fiber Rolls	L.F.	870		
14		130710	Temporary Construction Entrance /Exit	EA.	3		
15		130900	Temporary Concrete Washout	L.S.	1		
16		141000	Temporary Fence (Type ESA)	L.F.	1,620		
17		150190	Inject Crack (Epoxy)	LF	622		
18		150209A	Remove Lake Liner and Aeration System (Twin Lakes Golf Course)	L.S.	1		
19		150312	Repair Spalled Surface Area	SF	622		
20		150241	Abandon Sewer Main	EA.	1		
21		150605	Remove Fence	L.F.	330		
22		150605A	Remove Wood Piles	L.S.	1		
23		150820	Remove Concrete Outlet Structure (Twin Lakes Golf Course)	L.S.	1		
24		152440	Adjust Manhole to Grade	EA.	1		
25		152660A	Trim Drainage Pipe	EA.	2		
26		153220	Remove Concrete (Channel)	C.Y.	114		
27		160103	Clearing and Grubbing	AC.	0.74		
28		190101	Roadway Excavation	C.Y.	6,320		
29		192037	Structure Excavation (Retaining Wall)	CY	1,536		
30		193013	Structure Backfill (Retaining Wall)	CY	577		
31		193119	Lean Concrete Backfill	CY	616		
32		198050	Embankment Fill (Twin Lakes Golf Course)	C.Y.	2,445		
33		210010A	High Performance Turf Reinforcement Mats	S.Y.	700		

34	210270	Rolled Erosion Control Product (Netting)	S.F.	9,550		
35	210300	Hydromulch	S.F.	14,130		
36	210430	Hydroseeding	S.F.	14,130		
37	406050	Drill & Bond Dowels (#3 bar) Epoxy Coated	EA	159		
38	510060	Structural Concrete, Retaining Wall	CY	480		
39	510502	Minor Concrete (Minor Structure - Concrete Cutoff Wall)	C.Y.	2		
40	510502	Minor Concrete (Minor Structure, Concrete Swale)	LF	845		
41	520103	Bar Reinforcing Steel (Retaining Wall)	LB	50,000		
42	641100A	3-in Dia SDR 35 PVC Pipe (Twin Lakes Golf Course)	L.F.	38		
43	641101A	12-in Dia SDR 35 PVC Pipe (Twin Lakes Golf Course)	L.F.	306		
44	705500A	15-in Dia Drain Basin (Twin Lakes Golf Course)	EA.	1		
45	705700A	Outlet Structure and Flap Gate	EA	3		
46	72000A	Fabric Formed Concrete Revetment Mat + RSP Fabric	SF	300		
47	721013	Rock Slope Protection (1/4 Ton, Method B)	C.Y.	1,460		
48	721014A	24" - 36" Rock Weir	C.Y.	600		
49	721015A	Clay Barrier	C.Y.	20		
50	721015	Rock Slope Protection (Light, Method B)	C.Y.	674		
51	721026	Rock Slope Protection (Backing No. 1, Method B)	C.Y.	50		
52	721430	Cast-in-place Concrete (Slope protection)	CY	72		
53	729012	Rock Slope Protection Fabric (Class 10)	S.Y.	4,240		
54	750497	Miscellaneous Metal (Anchor Assemblies and Anchor Pins)	LB	733		
55	770010A	Remove Existing Fire Hydrant, Lateral, Assembly and Valves	LS	1		
55	770020A	Cut, Cap and Abandon Existing 8" Cast Iron Water Main	LS	1		
57	770030A	Water Main Lowering	LS	1		
58	770040A	Tie-in To Existing Water Mains	LS	1		
59	770050A	6" Mechanical Joint Gate Valve	EA.	1		
60	770060A	Fire Hydrant Assembly, Gate Valve and Lateral	LS	1		
61	770070A	1" Mechanical Joint Combination Air Valve	EA.	1		
62	770080A	Temporary Water Service Connection	LS	1		
63	800001A	Post Rail Fence	L.F.	98		

64		800360	Chain Link Fence (Type CL-6)	LF	138			
65		881020A	Biaxial Geogrid	S.Y.	13			
66		999990	Mobilization	L.S.	1			
CONTRACTOR'S BID ITEMS SUBTOTAL								
67			Supplemental Work (Additional Water Pollution Control)	LS	1		\$3,000.00	
68			Supplemental Work (Storm Water Sampling and Analysis)	LS	1		\$2,700.00	
69			Supplemental Work (Treated Wood Waste Disposal)	LS	1		\$3,500.00	
70			Supplemental Work (Relocate Irrigation Facilities)	LS	1		\$10,500.00	
SUPPLEMENTAL BID ITEMS SUBTOTAL								
TOTAL BID ITEMS AND SUPPLEMENTAL BID ITEMS								

"F" denotes Final Pay Item

FLOOD CONTROL DISTRICT PROVISIONS

The work provided herein must be performed in accordance with the Caltrans Standard Specifications 2010 edition (Standard Specifications). The Standard Specifications is incorporated herein by reference.

MODIFICATIONS TO STANDARD SPECIFICATIONS

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to the 1st table in section 1-1.06:

AA	Aluminum Association
AMS	Aerospace Material Specifications
APWA	The American Public Works Association
SAE	Society of Automotive Engineers

Acceptance: The formal written approval by the Agency of a project which has been completed in all respects in accordance with the plans and specifications and any modifications thereof.

Agency: The Santa Barbara County (CA) Flood Control and Water Conservation District.

APWA Standard Plans: Standard Plans for Public Works Construction, promulgated by the American Public Works Association (Southern California Chapter)/Associated General Contractors of California (Southern California Districts) Joint Cooperative Committee, published by Building News Inc., 3055 Overland Avenue, Los Angeles, California 90034, 2009 edition.

Board: The Governing Board of Directors of the Santa Barbara County (CA) Flood Control and Water Conservation District.

Caltrans: State of California, Business & Transportation Agency, Department of Transportation

business day: Day on the calendar except Saturday, Sunday or holiday.

County: The County of Santa Barbara, a political subdivision of the State of California.

County Clerk: The County Clerk of the County of Santa Barbara.

County Standard Details: Standard Details of the County of Santa Barbara Department of Public Works Roads Division, dated September, 2011.

Department: The Santa Barbara County Flood Control District acting by and through its Department of Public Works; its authorized representatives.

Department of Transportation: The Santa Barbara County (CA) Flood Control and Water Conservation District

District: The Santa Barbara County (CA) Flood Control and Water Conservation District

District Office: The Santa Barbara County (CA) Flood Control and Water Conservation District Office

Director: Director of Public Works of the County of Santa Barbara, or the Director's duly authorized representative.

Engineer: The Flood Control District Engineer acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

Flood Control: The Santa Barbara County (CA) Flood Control and Water Conservation District

Green Book: Standard Specifications for Public Works Construction, 2006 edition, including supplements published by Building News, Inc., Los Angeles, CA.

High Risk Facilities: Facilities conducting the following materials, whether encased or not, are considered to be High Risk facilities:

1. Petroleum Products,
2. Oxygen,
3. Chlorine,
4. Toxic or flammable gases,
5. Natural gas in pipelines greater than 150 mm (6 inches) nominal pipe diameter, or pipelines with normal operating pressures greater than 415 kPa gauge (60 p.s.i.g.),
6. Underground electric supply lines, conductors or cables that have a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do not have concentric grounded or other effectively grounded metal shields or sheaths.

holiday: Holiday shown in the following table:

Holidays	
Holiday	Date observed
Every Sunday	Every Sunday
New Year's Day	January 1st
Birthday of Martin Luther King, Jr.	3rd Monday in January
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving Day	Day after Thanksgiving Day
Christmas Day	December 25th

If January 1st, February 12th, March 31st, July 4th, November 11th, or December 25th falls on a Sunday, the Monday following is a holiday. If November 11th falls on a Saturday, the preceding Friday is a holiday.

Low Risk Facilities: Facilities conducting the following materials are considered to be Low Risk facilities:

1. Natural gas in pipelines 150 mm (6 inches) or smaller (nominal pipe diameter) with normal operating pressures of 415 kPa gauge (60 p.s.i.g.) or less.
2. Underground electric supply lines, conductors or cables with a potential to ground of more than 300 volts, either directly buried or in duct or conduit, which do have concentric grounded or other effectively grounded metal shields or sheaths, and for which the utility owner furnished location information in conformance with the requirements of Article 17.7, "Location Information" of General Order No. 128 of the California Public Utility Commission, or electrical underground conductors with a potential to ground of 300 volts or less.

Owner: Same meaning as Agency.

Prompt: The briefest interval of time required for a considered reply, including time required for approval by governing body.

State: The State of California and its political subdivisions; The Santa Barbara County (CA) Flood Control and Water Conservation District

State Highway Engineer: The Santa Barbara County (CA) Flood Control and Water Conservation District

State Standard Plans: Standard plans prepared by State of California, Business & Transportation Agency, Department of Transportation (Caltrans).

Supplemental Work: Change Order Work.

made shall be subject to extension for such further period as may be agreed upon in writing between the Department and the bidder concerned.

Replace section 3-1.05 with:

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The successful bidder must furnish 2 bonds:

- 1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the total bid. The payment bond must also contain provisions which automatically increase amounts thereof and/or time of completion or both for all change orders, extensions and additions to the work provided pursuant to this Agreement.
- 2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the total bid.

You may provide alternative securities for monies withheld to ensure performance per the terms of Public Contract Code § 22300.

The District furnishes the successful bidder with bond forms.

Both the payment and performance bonds must be executed by one and only one surety. That Surety must be admitted and listed in the Insurance Organizations Authorized By The Insurance Commissioner To Transact Business Of Insurance In The State Of California for the current year, and must be further authorized by the commissioner to issue surety insurance.

Replace section 3-1.18 with:

The successful bidder must sign the District Agreement (Contract).

Deliver to the District:

- 1. Three (3) copies of the District Agreement (Contract) bearing original signatures.
- 2. Two (2) copies of the Performance and Payment Bonds.
- 3. Insurance Certificates.
- 4. Taxpayer identification and certification (IRS Form W-9).
- 5. For a federal-aid contract, Caltrans Bidder - DBE Information form.
- 6. A copy of your company's policy on drugs and alcohol.
- 7. A copy of your Injury and Illness Prevention Program.

The District must receive these documents before the 8th business day after the bidder receives the Contract.

^^

4 SCOPE OF WORK

Add to list in the 1st paragraph of section 4-1.06B:

- 3. Material differing from that represented in the Contract which you believe may be hazardous waste;
- 4. Subsurface or latent physical conditions at the site differing from those described by and shown in information available to bidders prior to submitting bids;

Add to end of section 4-1.06B:

The local public entity will promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in your cost of, or the time required for performance of any part of the work will issue a change order under the procedures described in the Contract.

You must notify the Owner, in writing, when you desire to change the Project Manager and Superintendent for the Project, and must provide in writing the name, qualifications, and experience statements of the personnel proposed by you to be used.

Add to section 5-1.17:

You must implement a policy on drugs and alcohol conforming to 49 CFR 40.

Submit a copy of your policy at the preconstruction meeting.

Add to section 5-1.23:

Make all submittals to the Engineer.

Materials must not be furnished or fabricated, nor any work done for which shop drawings or submittals are required, before those shop drawings or submittals have been reviewed, as provided herein. Neither review nor approval of shop drawings or submittals by the Engineer will relieve you from responsibility for errors, omissions, or deviations from the Bid Documents, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal. You will be responsible for the correctness of the submittals and shop drawings, including shop fits, field connections, and results obtained by use of such drawings.

You must pay Flood Control for review of any submission that varies from what the plans and specifications have called for, and/or for the review of any submission that is redundant (for example, submitting similar portland cement concrete mix designs from more than one supplier).

Add to list under the 3rd paragraph of section 5-1.23A:

5. Federal Project Number, if any

Add section 5-1.23B(2)(a):

5-1.23B(2)(a) Record Drawings

You must maintain a complete and accurate record of all changes of construction from that shown in these plans and specifications for the purpose of providing a basis for construction record drawings. No changes must be made without prior written approval of the Engineer.

Upon completion of the project, you must deliver a reproducible print record of all of the approved construction changes to the Engineer along with a separate letter certifying that other than the noted changes on this record, the project was constructed in conformance with the Bid Documents. Failure to submit the final record drawing may result in final payment request not being processed.

Add to section 5-1.23C:

Where the manufacturer of any material or equipment provides written recommendations or instructions for its use or method in installation (including labels, tags, manuals, or trade literature), such recommendations or instructions must be complied with except where the contract documents specifically require deviations. Copies of such manufacturer's recommendations must be provided by you to the Engineer.

Replace "3" in the second paragraph of section 5-1.27B with "4"

Add to section 5-1.30

The Agency will not be precluded or stopped by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefor from showing the true quantity and character of the work performed and materials furnished by you, nor from showing that any such measurement, estimate, or certificate is untrue or is incorrectly made, nor that the work or materials do not in fact conform to the contract.

The Agency will not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from you, your surety, or both, such damages as it may sustain by reason of your failure to comply with the terms of the contract.

The failure of the Engineer to observe or to notify you of deviations from the approved plans and specifications, whether or not such deviations could have been corrected if such notification had been given, will in no way relieve you of any responsibility or liability for your failure to complete, and you will be required to repair and complete the work covered by this contract in exact accordance with the approved plans and specifications and

Project Number, Item Number, and Statement of Compliance with the Project Specification must appear on all Certificates of Compliance.

Any attempts to incorporate material without certified release tags, or acceptable Certificates of Compliance, must be just cause for immediate suspension of the construction operation involved. All materials that are untagged or do not have Certificates of Compliance, that are placed or installed in the Project by you or your subcontractor must be considered as placed or installed at your own expense and the County must not be charged therefor.

Materials incorporated into the Project without the required release tags or Certificates of Compliance must be removed, if directed by the Engineer, at no cost to the District.

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7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace section 7-1.02I(1) with:

7-1.02I(1) Santa Barbara County Code, Chapter 2, Article XIII

Sec. 2-94. - Exceptions.

The provisions of this article shall not apply to contracts or agreements for the acquisition, exchange or disposition of real property or interests therein, nor to contracts or agreements with the State of California, or its political subdivisions, or with the United States of America.

Sec. 2-95. - Prohibition of unlawful discrimination in employment practices.

The County of Santa Barbara reserves the right to terminate forthwith each and every written contract and agreement (except purchase orders) respecting real property, goods and/or services entered into by the County of Santa Barbara including but not limited to concessions, franchises, construction agreements, leases, whether now in effect or hereinafter made if the County finds that the Contractor is discriminating or has discriminated against any person in violation of any applicable state or federal laws, rules or regulations which may now or hereafter specifically prohibit such discrimination on such grounds as race, religion, sex, color, national origin, physical or mental disability, Vietnam era veteran/disabled, age, medical condition, marital status, ancestry, sexual orientation, or other legally protected status. This right of termination extends to contracts entered into by the County of Santa Barbara or by its joint powers, agencies or agents so long as the County obtains the consent of those parties.

Such finding may only be made after Contractor has had a full and fair hearing on notice of thirty days before an impartial hearing officer at which hearing Contractor may introduce evidence, produce witnesses and have the opportunity to cross-examine witnesses produced by the County. Further, any finding of discrimination must be fully supported by the facts developed at such hearing and set forth in a written opinion; and in addition, Contractor may move in the appropriate court of law for damages and/or to compel specific performance of a Contractor or agreement if any of the above procedures are not afforded to the Contractor. If Contractor is not found to have engaged in unlawful discriminatory practices, County shall pay all costs and expenses of such hearing, including reasonable attorneys' fees, to Contractor in accordance with current Santa Barbara County Superior Court schedule of attorneys' fees for civil trials. If Contractor is found to have engaged in such unlawful discriminatory employment practices, Contractor shall pay all such costs, expenses and attorneys' fees.

Whether or not a contract or agreement is still in existence at the time of final determination of such unlawful discrimination, the Contractor shall forthwith reimburse the County for all damages directly stemming from such discrimination; however, those damages shall not exceed and are not reimbursable in an amount which exceeds amounts paid to Contractor under the terms of the contract or agreement.

Nothing in this section 2-95 shall directly or by interpretation give a private cause of action to any third party (not a signatory to the contract or agreement) including employees past or present, or applicants for employment to Contractor, it being the sole purpose of this clause to administratively assure compliance with the nondiscrimination clauses contained herein.

With respect to employment discrimination, employment practices shall include, but are not limited to, employment, promotion, demotion, transfer, recruitment and advertising for recruitment, layoff or other termination, rate of pay, employee benefits and all other forms of compensation or selection for training and apprenticeship and probationary periods.

Contractor shall permit access at all reasonable times and places to all of its records of employment, advertising, application forms, tests and all other pertinent employment data and records, to the County of Santa Barbara, its officers, employees and agents for the purpose of investigation to ascertain if any unlawful discrimination as described herein has occurred or is being practiced, provided that such records are relevant to a complaint of an unlawful discriminatory practice which has been forwarded to Contractor reasonably prior to the time Contractor is asked to make such records available. In addition, all such records shall be deemed "Confidential" by the officers, employees and agents of the County. No records or copies of such records may be removed from the premises of Contractor, and no disclosure, oral or written, of such record may be made to third parties except as provided within the agreement. Provided, however, that in the event of a hearing to determine whether or not Contractor is engaging in unlawful discrimination in employment practices as defined herein, the Board of Supervisors of Santa Barbara County may issue subpoenas to require that certified copies of such records be made available to the hearing.

Failure to fully comply with any of the foregoing provisions shall be deemed to be a material breach of any contract or agreement with the County of Santa Barbara. All persons contracting with or who have contracts for goods or services with the County shall be notified that this chapter applies to their contract or agreement with the County of Santa Barbara.

Sec. 2-95.5. - Exceptions.

Notwithstanding any other provisions in this article, any party contracting with the County of Santa Barbara having an affirmative action program which has been approved within twelve months from the date of the contract by an agency of the federal government shall be deemed to be in compliance with the provisions of this article upon furnishing documentary evidence of such approval satisfactory to the County Affirmative Action Officer. Loss of such approval shall be immediately reported by such party to the County Affirmative Action Officer.

Sec. 2-96. - Purchase orders.

Purchase orders shall contain the following clause as grounds for termination of such purchase order.

"If complaint is made that seller is engaging in discriminatory employment practices made unlawful by applicable state and federal laws, rules or regulations, and the State Fair Employment Practice Commission or the Federal Equal Employment Opportunities Commission determines that such unlawful discrimination exists, then the County of Santa Barbara may forthwith terminate this order."

Sec. 2-97. - Affirmative Action Officer.

At the discretion of the County Affirmative Action Officer, he or she shall promptly and thoroughly investigate, or cause to be investigated reports and complaints from whatever source, that any party contracting with the County of Santa Barbara is engaging, or during the term of a contract or agreement with the County of Santa Barbara has engaged, in any unlawful discriminatory employment practices as described in section 2-95 of this Code. If the investigation discloses reason to believe such unlawful discrimination does exist or has existed and the conditions giving rise thereto have not been changed so as to prevent further such unlawful discrimination, and the said party shall not forthwith terminate such unlawful discrimination, take all appropriate steps to prevent a recurrence of such or other unlawful practices, and compensate the person or persons unlawfully discriminated against for any and all loss incurred by reason of such unlawful discrimination, all to the satisfaction of the Affirmative Action Officer, then the Affirmative Action Officer shall cause the matter to be presented for action to the State Fair Employment Practices Commission or the Federal Equal

Employment Opportunities Commission, or both, and to any other concerned state or federal agencies or officers.

If and when it has been finally determined by the Affirmative Action Officer, County Counsel, or state or federal regulatory agencies that such unlawful discriminatory employment practice has in fact so occurred or are being carried on, then the Affirmative Action Officer shall forthwith present the entire matter to the Board of Supervisors of the County, together with all damages, costs and expenses related thereto and incurred by County, for appropriate action by the Board of Supervisors in accord with the intent and purposes of this article and of the affirmative action program of the County of Santa Barbara.

Sec. 2-98. - Youth group anti-discrimination.

- (a) Neither the County of Santa Barbara, nor any of its agencies, departments, affiliates, or political subdivisions over which it exercises jurisdiction, shall:
 - (1) Deny any youth group equal access to, or fair opportunity to conduct meetings or other events at, or otherwise utilize any public facility;
 - (2) Deny any youth group use permits or licenses regarding, or otherwise withhold from any youth group permission to use, any public facility; or
 - (3) Otherwise discriminate against any youth group; on the basis of the membership or leadership criteria of such youth group.
- (b) For purposes of this section, a public facility shall include any public forum, limited public forum, public property, or public area including any public building, park, beach, campground, or any other area controlled or operated by the County of Santa Barbara.
- (c) For purposes of this section, a youth group means any group or organization intended to serve young people under the age of twenty-one.

Add to section 7-1.02K(1):

No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

7-1.02K(1)(a) Joint Labor Compliance Monitoring Program

The Joint Labor Compliance Monitoring Program monitors labor compliance by conducting interviews with construction workers at the job site. You, and all subcontractors, must cooperate in allowing approved Compliance Group Representatives along with a County employee access to the project employees and work site for the purpose of conducting worker interview to ensure compliance with the requirement to pay prevailing wages on County projects. This will be done in order to comply with the Board of Supervisors July 10, 2012 adoption of a Joint Labor Compliance Monitoring Program.

Each Compliance Group Representative will always be accompanied with a County employee for a joint contractor worker interview. The Compliance Group Representative will be issued an identification card by the County at the job site. Compliance Group Representatives must restrict their actions to interviewing workers employed on the project. A copy of the Joint Labor Compliance Monitoring Program and Board Letter adoption from July 10, 2012 is available on request.

Add to section 7-1.02K(5):

Working hours on working days, will be from 7:00 a.m. to 5:00 p.m. No work will be done or noise generated outside those hours except such work as is necessary for the proper care and protection of the work already performed or in case of an emergency.

You must be responsible for overtime compensation of inspection personnel for their work that occurs outside the above stated hours. The actual costs will be deducted from your payment.

Add to section 7-1.02K(6)(a):

Your Injury and Illness Prevention Program must include:

1. Safety manual
2. Jobsite checklist
3. Equipment safety checklist
4. Tailgate safety meetings
5. Permit application and job notification form (Construction, Demolition, Trenches, Excavation, Building, Structures, Falsework, Scaffolding) Form Cal/OSHA S-691, latest edition

Add to section 7-1.02K(6)(b):

You must obtain a State Division of Industrial Safety Permit for excavations and trenches prior to commencement of any excavation or trench of 5 feet or more in depth per California Code of Regulations, Title 8, Chapter 3.2, Article 2, Section 341 and Title 8, Division 1, Chapter 4, Subchapter 4 of the California Occupational Safety and Health Regulations (Cal/OSHA). A copy of the permit must be submitted to the Engineer. All excavations must be completed and maintained in a safe and stable condition throughout the total construction phase in order to protect persons, property, trees and improvements. Structure and trench excavations must be completed to the specified elevations and to the length and width required to safely install, adjust, and remove any forms, bracing, or supports necessary for the installation of the work and/or protection of existing features. Excavations outside of the lines and limits shown on the drawings or specified herein required to meet safety requirements must be your responsibility in constructing and maintaining a safe and stable excavation.

Replace section 7-1.02P with:

7-1.02P County Ordinance

7-1.02P(1) General

Comply with County Ordinances.

Copies of County Ordinances are available at http://www.municode.com/library/CA/Santa_Barbara_County, and at County offices located at 123 East Anapamu Street, Santa Barbara, CA 93101.

Any references in State Standard Specifications to statutory provisions applicable only to state contracts or which are inconsistent with statutory provisions applicable to County or local agency contracts, will not prevail over, and will be superseded by, any statutory provisions applicable to County or local agency contracts.

7-1.02P(2) Grading

Comply with section 13.

Santa Barbara County Grading Ordinance and Santa Barbara Flood Control and Water Conservation District Ordinance No. 35 prohibits the dumping of debris or other materials in a watercourse so as to obstruct or impede normal flow of water therein.

7-1.02P(3) Preservation of Monuments

Comply with Ordinance 1491, in particular, County Code Chapter 28, Article I, Section 49.

Replace section 7-1.05 with:

7-1.05 INDEMNIFICATION

Indemnification and liability coverage in this section, Indemnification and Insurance, will mean the County of Santa Barbara, the Santa Barbara County Flood Control District, Designated Representative, Architect/Engineer, and their officials, agents and employees.

To the maximum extent permitted by law, you must fully defend, indemnify and hold harmless the County and its board, departments, officers, officials, employees, agents and volunteers (collectively, "INDEMNITEE"), from and against any and all third party claims, allegations, suits, actions, legal or administrative proceedings, judgments, debts, demands, damages, including those involving injury or death to any person or persons, and damage to any property including loss of use resulting therefrom, incidental and consequential damages, liabilities, interest, costs, attorneys' fees and expenses of whatsoever kind of nature whether arising before, during or after commencement or completion of this Contract, whether against you or the INDEMNITEE which are in any manner, directly, indirectly, in whole or in part, arising from breach of any provision of the Contract,

or any act, omission, fault or negligence, whether active or passive, of you, a subcontractor or anyone directly or indirectly employed by them or anyone for whose acts they may be liable in connection with or incident to the Contract, even though the same may have resulted from the joint, concurring or contributory negligence, or from the passive negligence, of the INDEMNITEE or any other person or persons, unless the same be caused by the sole negligence or willful misconduct of the INDEMNITEE, or except to the extent caused by the active negligence of INDEMNITEE. In instances where the INDEMNITEE'S active negligence accounts for a percentage of the liability involved, the obligation of you to defend, indemnify and hold harmless must be for the entire percentage of liability not attributable to that active negligence.

You must notify the County immediately in the event of any accident or injury arising out of or in connection with this Agreement.

Replace section 7-1.06 with:

7-1.06 INSURANCE

Additional Insured – All policies, except for the Workers' Compensation, Errors and Omissions and Professional Liability and Automobile Liability policies, must contain endorsements naming the County and its officers, employees, agents and volunteers as additional insureds with respect to liabilities arising out of the performance of services hereunder. The additional insured endorsements must not limit the scope of coverage for the County to vicarious liability but must allow coverage for the County to the full extent provided by the policy. Such additional insured coverage must be at least as broad as Additional Insured (Form B) endorsement form ISO, CG 2010.11 85.

Waiver of Subrogation Rights – You must require the carriers of required coverages to waive all rights of subrogation against the County, its officers, employees, agents, volunteers, contractors and subcontractors. All general or auto liability insurance coverage provided must not prohibit you and your employees or agents from waiving the right of subrogation prior to a loss or claim. You hereby waives all rights of subrogation against the County.

Policies Primary and Non-Contributory – All policies required herein are to be primary and non-contributory with any insurance or self-insurance programs carried or administered by the County.

Severability of Interests – You agree to ensure that coverage provided to meet these requirements is applicable separately to each insured and there will be no cross liability exclusions that preclude coverage for suits between you and the County or between the County and any other insured or additional insured under the policy.

Proof of Coverage – You must furnish Certificates of Insurance to the County Department administering the Agreement evidencing the insurance coverage, including Additional Insured Endorsements and Waiver of Subrogation Endorsements (a.k.a.: Waiver of Transfer Rights of Recovery Against Other, Waiver of Our Right to Recover from Others), as required, prior to the commencement of performance of services hereunder, which certificates must provide that such insurance must not be terminated or expire without thirty (30) days written notice to the Department, you must maintain such insurance from the time you commence performance of services hereunder until the completion of such services. Within fifteen (15) days of the commencement of this Agreement, You must furnish a copy of the Declaration page for all applicable policies and will provide complete copies of the policies and endorsements immediately upon request.

Acceptability of Insurance Carrier – Unless otherwise approved by Risk Management, insurance shall be written by insurers authorized to do business in the State of California and with a minimum A.M. Best's Insurance Guide rating of "A- VII".

Deductibles and Self-Insured Retention – Any and all self-insured retentions of any limit or deductibles exceeding \$10,000 must be declared to and approved by Risk Management.

Failure to Procure Coverage – In the event that any policy of insurance required under this Agreement does not comply with the requirements, is not procured, or is canceled and not replaced, the County has the right but not the obligation or duty to cancel the Agreement or obtain insurance if it deems necessary and any premiums paid by the County will be promptly reimbursed by you or the County payments you will be reduced to pay for the County purchased insurance.

Insurance Review – Insurance requirements are subject to periodic review by the County. The Risk Manager or designee is authorized, but not required, to reduce, waive or suspend any insurance requirements whenever Risk Management determines that any of the required insurance is not available, is unreasonably priced, or is not needed to protect the interests of the County. In addition, if the Division of Risk Management determines that heretofore unreasonably priced or unavailable types of insurance coverage or coverage limits become reasonably priced or available, the Risk Manager or designee is authorized, but not required, to change the above insurance requirements to require additional types of insurance coverage or higher coverage limits, provided that any such change is reasonable in light of past claims against the County, inflation, or any other item reasonably related to the County's risk.

Any change requiring additional types of insurance coverage or higher coverage limits must be made by amendment to this Agreement. You agree to execute any such amendment within thirty (30) days of receipt.

Any failure, actual or alleged, on the part of the County to monitor or enforce compliance with any of the insurance and indemnification requirements will not be deemed as a waiver of any rights on the part of the County.

Insurance Specifications – You agree to provide insurance set forth in accordance with the requirements herein. If you use existing coverage to comply with these requirements and that coverage does not meet the specified requirements, you agree to amend, supplement or endorse the existing coverage to do so. The type(s) of insurance required is determined by the scope of the contract services.

Without in any way affecting the indemnity herein provided and in addition thereto, you must secure and maintain throughout the Agreement term the following types of insurance with limits as shown:

7-1.06A Workers' Compensation/Employers Liability

A program of Workers' Compensation insurance or a state-approved, self-insurance program in an amount and form to meet all applicable requirements of the Labor Code of the State of California, including Employer's Liability with one million dollar (\$1,000,000) limits covering all persons including volunteers providing services on your behalf and all risks to such persons under this Agreement.

If you have no employees, you may certify or warrant to the County that you do not currently have any employees or individuals who are defined as "employees" under the Labor Code and the requirement for Workers' Compensation coverage will be waived by the County's Risk Manager.

With respect to the Contractors that are non-profit corporations organized under California or Federal law, volunteers for such entities are required to be covered by Workers' Compensation insurance.

7-1.06B. Commercial/General Liability Insurance

You must carry General Liability Insurance on an "occurrence" basis, covering all operations performed by or on your behalf providing coverage for bodily injury and property damage, including products and completed operations, with a combined single limit of not less than one million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) in the aggregate.

7-1.06C. Automobile Liability Insurance

Primary insurance coverage must be written on ISO Business Auto coverage form for all owned, hired and non-owned automobiles or symbol 1 (any auto). The policy must have a combined single limit of not less than one million dollars (\$1,000,000) for bodily injury and property damage, per occurrence.

If you do not own any autos, a non-owned auto endorsement to the General Liability policy described above is acceptable.

7-1.06D. Umbrella/Excess Liability Insurance

You must carry an umbrella (over primary) or excess policy of five million dollars (\$5,000,000). The umbrella policy shall apply to bodily injury/property damage, personal injury/advertising injury and must include a "dropdown" provision providing primary coverage for any liability not covered by the primary policy. The coverage must also apply to automobile liability. An Additional Insured Endorsement must be provided on the Umbrella policy as it relates to the primary policies requiring an Additional Insured Endorsement.

7-1.06E. Enforcement

Pursuant to Section 22300 of the Public Contract Code, and the project specifications, the Contractor may substitute securities for monies withheld to ensure contract performance.

Upon your request, the District will make payment of funds withheld to ensure performance of the Contract if you deposit in escrow with the Santa Barbara County Treasurer, or with a bank acceptable to the District, securities eligible for investment under Government Code Section 16430, or bank or savings and loan certificates of deposits, upon the following conditions;

1. You must bear the expense of the District and the escrow agent, either the County Treasurer or the bank, in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow will be of a value at least equivalent to the quantities of retention to be paid to you pursuant to this Section.
3. You must enter into an escrow agreement satisfactory to the District, which agreement must include provisions governing inter alia:
 - 1.1. The quantity of securities to be deposited.
 - 1.2. The providing of powers of attorney, or other documents necessary for the transfer of the securities to be deposited
 - 1.3. Conversion to cash to provide funds to meet defaults by you, including but not limited to the termination of your control over the work, stop notices filed pursuant to law, assessment of liquidated damages, or other quantities to be kept or retained under the provisions of the contract
 - 1.4. Decrease in value of securities on deposit.
 - 1.5. The termination of the escrow upon completion of the contract.
4. You must obtain the written consent of the surety to such agreement.

Add to section 9-1.17C:

Submit all outstanding extra work billing no later than 15 days after acceptance by the Director of Public Works.

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**DIVISION II GENERAL CONSTRUCTION
10 GENERAL**

Add to section 10-1.04 of the RSS:

A weekly construction meeting may be held at a time and place designated by the Engineer with your representatives and other affected parties.

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12 TEMPORARY TRAFFIC CONTROL

Replace section 12-1.03 with:

You must pay for all costs associated with flagging.

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13 WATER POLLUTION CONTROL

Add to list in the 1st paragraph of section 13-1.01A:

Foundation stabilization material, when required and ordered by the Engineer to provide suitable subgrade, must be gravel, crushed aggregate or other free-draining cohesionless material, must be suitable for the field conditions to which it is to be applied and must be approved by the Engineer.

Foundation stabilization material must be wrapped in a geotextile fabric, if, in the opinion of the Engineer, the foundation stabilization material approved for use is subject to piping. Geotextile fabric material and installation must conform to the provisions of Section 88, "Geosynthetics".

The quantity of additional overexcavation to be paid for will be the amount of compacted in-place cubic yards as ordered by the Engineer. No payment will be made for additional overexcavation unless removed as ordered by the Engineer. The quantity shown on the Bid Item List is a nominal allowance since no additional overexcavation is shown on the plans, and no adjustment of the unit bid price will be made for a variation in the actual versus the bid quantity. When there is no Bid Item for Additional Overexcavation, Additional Overexcavation is ordered by the Engineer, and the necessity for Additional Overexcavation was not caused by you, Additional Overexcavation is paid for as Change Order Work.

Replace the 1st paragraph of section 19-5.03B with:

Obtain a relative compaction of at least 95 percent for at least a depth of 0.75 foot below the grading plane for widths between the outer edges of shoulder, or between existing curbs or curb and gutter.

TECHNICAL PROVISIONS
DIVISION I GENERAL PROVISIONS
1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
050000A	RAILROAD RELATIONS AND INSURANCE	5
051260A	CONSTRUCTION SURVEY	5
130100A	TEMPORARY CLEAR WATER DIVERSION SYSTEM	13
150209A	REMOVE LAKE LINER AND AERATION SSYSTEM (TWIN LAKES GOLF COURSE)	15
150605A	REMOVE WOOD PILES	15
152660A	TRIM DRAINAGE PIPE	15
210010A	HIGH PERFORMANCE TURF REINFORCEMENT MAPS	21
641100A	3-IN DIA SDR 35 PVC PIPE (TWIN LAKE GOLF COURSE)	64
641101A	12-IN DIA SDR 35 PVC PIPE (TWIN LAKE GOLF COURSE)	64
705500A	15-IN DIA DRAIN BASIN (TWIN LAKE GOLF COURSE)	70
705700A	OUTLET STRUCTURE AND FLAP GATE	70
720000A	FABRIC FORMED CONCRETE REVETMENT MAT & RSP FABRIC	72
721014A	24" - 36" ROCK WEIR	72
721015A	CLAY BARRIER	72
770010A	REMOVE EXISTING FIRE HYDRANT, LATERAL, ASSEMBLY AND VALVES	77
770020A	CUT, CAP AND ABANDON EXISTING 8" CAST IRON WATER MAIN	77
770030A	WATER MAIN LOWERING	77
770040A	TIE-IN TO EXISTING WATER MAINS	77
770050A	6" MECHANICAL JOINT GATE VALVE	77
770060A	FIRE HYDRANT ASSEMBLY, GATE VALVE AND LATERAL	77
770070A	1" MECHANICAL JOINT COMBINATION AIR VALVE	77
770080A	TEMPORARY WATER SERVICE CONNECTION	77
800001A	POST RAIL FENCE	80
881020A	BIAXIAL GEOGRID	88

AA

2 BIDDING

Add to section 2-1.06B:

Add to section 5-1.20A:

During the progress of the work under this Contract, work under the following contracts may be in progress at or near the job site of this Contract:

Location
UPRR, MP 358.48 to MP358.73 Bridge Replacement
Caltrans Project Plans for Construction on State Highway, in Santa Barbara County, In Goleta, From 0.2 Mile East to 0.7 Mile West of Fairview Avenue Overcrossing

Work under the following contracts may also be in progress at or near the job site of this Contract:

Coincident or Adjacent Contracts

Contract no.	County–Route–Post Mile	City	Type of work
05-0S2504	SB-101-12.8/26.4	Goleta	Roadside Safety Improvements
05-1A7204	SB-101-21.0/27.1	Goleta	Pavement Preservation (CAPM)
Permit No. 0511 NMC 0258	SB-101-	Goleta	Los Carneros Road Overhead Bridge Replacement Project

Add to Section 5-1.20B(1):

Caltrans has issued an Encroachment Permit for this project. You are required to obtain a Double Permit prior to the start of work in the State right-of-way. A copy of the Encroachment Permit and the partially completed Double Permit are located in the Information Handout. Submit Double Permit to Caltrans District 5 Office, 50 Higuera St., San Luis Obispo, (805) 546-3152, and to follow the requirements of the permit.

You will pay all fees/deposits for the Caltrans Double Permit, and you will be reimbursed by the District for the permit fee.

You must obtain haul permits from the County of Santa Barbara and the City of Santa Barbara. Permit applications and permit conditions are located in the Information Handout.

Submit County Haul Route application to County of Santa Barbara Transportation Division, 4417 Cathedral Oaks, Santa Barbara, CA 93110, Tel (805) 681-4990 Fax (805) 681-4991, PWRDPERMIT@COSBPW.NET.

Submit City Haul Route application to Mark Wilde at mwilde@santabarbaraca.gov.

Add section 5-1.20B(5):

Periods of construction must comply with the PLACs and as provided in the CEQA and Permits Conditions Table located in the Information Handout. Timing is to be coordinated with the District Biologist.

Replace RSS section 5-1.20C:

This project includes work within the Union Pacific Railroad (UPRR) right-of-way. The document entitled, "Railroad Relations and Insurance Requirements" are located in the Information Handout.

You are responsible for obtaining a right-of-entry agreement from UPRR and supplementary insurance, including Railroad Protective Liability Insurance. Time is of the essence in obtaining these items. It may take up to 60 calendar days for UPRR to execute the right-of-entry agreement. You should submit the

right-of-entry agreement application immediately after the award of this contract. A partially filled-out right-of-entry agreement application is located in the Information Handout.

Vertical shoring within the UPRR right-of-way may be required for this project. Refer to UPRR Bridge Standards, "General Shoring Requirements" exhibit in the Information Handout.

You and your personnel will be required to complete a UPRR "Orientation for Contractor Safety" course prior to working on UPRR property.

Replace section 5-1.26:

The location and elevation of benchmarks and horizontal control points are shown on the plans. The Contractor must furnish all the necessary labor, equipment, and materials to accurately layout the work and set the required elevations from the information provided. All survey services must be performed by a professional surveyor who is licensed by the State of California or by personnel under the Licensed Surveyor's direct supervision. Review and approval of the surveyor's qualifications will be at the discretion of the Engineer. The Engineer will not provide any additional survey services for the project. One (1) legible copy of all survey notes must be provided, at no cost to the Engineer, and in a timely manner.

All conflicts between the construction drawings and the actual field conditions must be brought to the attention of the Engineer for review prior to work continuing in the area of conflict.

Revise section 5-1.32 to read:

Occupy property within the UPRR and Caltrans, City of Santa Barbara and Southern California Gas Company rights-of-way only for purposes necessary to perform the work.

Occupy Twin Lakes Golf Course property only for purposes necessary to perform the work. The timing of your activities on golf course property must comply with section 10-1.03. The areas allowed for your use only include access routes (for access purposes only), the lake boundaries, and as needed to install plastic pipe associated with the Twin Lake Golf Course Grading plan and the Las Vegas Creek conform grading work.

The golf course will be active and open to the public during construction. You are responsible to provide for public safety.

You must coordinate the access routes with golf course management and clearly delineate your access routes for the public.

You are not responsible for repair of landscaping within the approved areas of use on Twin Lakes Golf Course property. You are responsible for repair of landscaping and other golf course improvements beyond the approved areas of use that are damaged by you.

Copies of Temporary Rights of Entry permits permitting work on these private properties are located in the Information Handout.

Staging will not be permitted within the UPRR or Southern California Gas Company right of way. Staging may be available within the Caltrans and City of Santa Barbara rights-of way upon permission of property owner.

Add to the list in the 1st paragraph of section 5-1.36A:

11. Irrigation Facilities

Add to section 5-1.36A:

Cover irrigation boxes in access route with traffic-rated plates.

Add to section 5-1.36D:

You must provide the Underground Service Alert "Inquiry Identification" number and start date to the District prior to starting excavation. You must keep the USA request number valid throughout the duration of the construction contract.

The locations of all public and private utilities shown on the plans are approximate.

You must protect and/or coordinate the protection of the various existing facilities including but not limited to facilities owned by Goleta Sanitary District and the Goleta Water District. Prior to any excavation within

Las Vegas Creek, call the Goleta Sanitary District facility operator and the Goleta Water District Operations Manager.

Proposed methods of protection must be to the satisfaction of the facility owner. Submit a detailed description of the proposed methods of protection, when requested by the Engineer.

The utilities shown in the following table will not be rearranged. The utilities may interfere with excavation or substructure construction.

Utilities Not Rearranged for Excavation or Substructure Construction	
Utility	Location
Goleta Sanitary District: Luis Astorga (805) 967-4519	Las Vegas Creek
Goleta Water District: Tom Bunosky, 805) 964-6761, tbunosky@goletawater.com	San Pedro Creek STA 73+75+-

^^

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Add section 7-1.03A:

7-1.03A STANDARD NOTIFICATIONS

You must deliver notices to each residence and business within 100 feet of the Work two weeks minimum prior to commencement of project activities. The format and content of each notice must be approved by the Engineer (see example below).

Such notice must at minimum give the name of the Project, the duration of the Contract period, daily work hours for the proposed work, typical parking and access restrictions anticipated for the work the Contractor's representative and phone number, the County representative and phone number, along with any other information requested by the Engineer. All notices shall be approved by the Engineer for content and delivery schedule prior to actual delivery.

All notices must be in the format of door hangers (14 inches by 4 inches, 110 Springhill Index or approved equal) and be hung at the main door of each residence or business affected. The text of such notices must have one side printed in English with the reverse side printed in Spanish.

The following is an example of language required:

NOTICE

TO AREA RESIDENCES / BUSINESSES

The Santa Barbara County Flood Control District hereby informs you that (Contractor) will be constructing the Name of Project. The contract period is from (date) to (date).

Work on the Project will typically be performed between the hours of 8:00 AM and 5:00 PM.

We appreciate your patience and cooperation during this Project. If you have any questions, or require additional information please contact the following:

Contractor, Contact's Name and Telephone Number

Santa Barbara County Flood Control District, Contact's Name and Telephone Number

13 WATER POLLUTION CONTROL

Add section 13-1.03A(1):

13-1.03A(1) Drainage Control

The proposed project is located within San Pedro Creek and Las Vegas Creek. San Pedro Creek is likely to be actively flowing. You are fully responsible for continually accepting and discharging water from any source in a manner that causes no damage to existing or partially completed proposed improvements, in a manner that causes no ponded water to accumulate at low points, and in a manner which poses no potential hazard to persons or property and is conformance with all permits required for this project. You will not be allowed to divert stormwater to surface streets. Damage to existing or partially completed proposed improvements caused by lack of drainage control shall be repaired, or removed and replaced, at your expense.

It shall be understood and agreed that you must hold the Owner and the Engineer harmless from legal action taken by any third party with respect to construction and operation of temporary drainage control works.

You must submit your proposed methods for storm water and erosion control to the Engineer.

All work required for Storm Water Pollution Prevention Plan implementation will be paid for as Job Site Management.

Add to section 13-3.01:

The District has developed a Stormwater Pollution Prevention Plan for this project and will provide it to you. The SWPPP includes erosion control plans and maps and the Information Handout contains additional erosion control plans. You are responsible for implementing the SWPPP, including submitting all action plans, inspection and monitoring reports, annual reports, sampling and analysis results.

Add to section 13-3.01A:

The project is risk level 2.

You may be directed to perform additional Water Pollution Control. This only applies in the event that change order work that requires Water Pollution Control is ordered by the Engineer. This work is Supplemental Work and will be paid in accordance with section 9-1.04. In no case will additional Water Pollution Control be paid for unless the project scope has changed.

Delete section 13-3.01B(1) through 13-3.01B(2)(d)

Add to section 13-4.03G

Groundwater was encountered during the geotechnical explorations near Las Vegas Creek to depths of about 20 feet below ground, and about 8 feet below ground in the area of San Pedro Creek. The extent of dewatering needed will depend on the groundwater present at the time of construction. Surface water and shallow groundwater should be expected in and adjacent to San Pedro Creek, and may be present in and adjacent to Las Vegas Creek.

Replace section 13-4.03H with:

13-4.03H Temporary Clear Water Diversion System

13-4.03H(1) General

Temporary clear water diversion system must be furnished, installed, maintained, and later removed.

You will be required to use pumps to remove water from the worksite if the water diversion system does not perform adequately.

You must submit the design of the proposed temporary clear water diversion system to the Engineer within 7 calendar days of contract approval.

Design, installation and maintenance of the temporary clear water diversion system must conform to the environmental permits and mitigation measures in the Information Handout, and it must include:

1. Prior to entering the creek, a water diversion made of sand bags, plastic sheeting must be installed, and the water will be pumped or gravity drained around the site through a pipe or hose. The water intakes will be screened with mesh with openings no larger than 0.25 inches to prevent aquatic wildlife from entering the diversion system. Creek flow must be pumped around the site and released in the downstream of the project, so as not to interfere with the proposed work.
2. The water diversion method must be sized to accommodate the field conditions, and must be capable of sustaining the intended load and of discharging a quantity of water required to accommodate the site conditions. Adequacy as to equivalent strength and capacity will be subject to approval, in writing, by the Engineer.

Used materials may be installed provided the used materials are good, sound and are suitable for the purpose intended, as determined by the Engineer.

13-4.03H(2) Materials

Not Used

13-4.03H(3) Construction

Not Used

13-4.03H(4) Payment

Not Used



14 ENVIRONMENTAL STEWARDSHIP

Add to section 14-1.01:

Comply with all environmental regulatory permits associated with this project and which are located in the Information Handout.

Add to section 14-1.02:

An ESA exists on this project. Location of ESA fencing is shown in the *ESA Fencing and Erosion Control Plans* in the Information Handout.

Before start of work, protect the ESA by installing temporary fence (Type ESA).

No ESA fencing is allowed within the Caltrans U.S. Hwy 101 and UPRR travel corridors.

Replace section 14-6.02 with:

14-6.02 SPECIES PROTECTION

Section 14-6.02 includes specifications for protecting regulated species or their habitat.

This project is within or near habitat for regulated species shown in the following table:

Species Name
California red-legged frog
Steelhead trout
Southwestern Willow Flycatcher
Least Bell's Vireo
Southwestern Pond turtle
Two-Striped Garter snake
Swallows
Bats
Nesting birds

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 15 to September 15.

14-6.02B Material

Not Used.

14-6.02C Construction

14-6.02C(1) General

Not Used.

14-6.02C(2) Protective Radius

Upon discovery of a regulated species, stop construction activities within a 100' radius of the discovery or as defined in the table below. Immediately notify the Engineer. Do not resume activities until receiving notification from the Engineer.

Regulated species name	Protective radius
Breeding Passerine birds	150 feet
Nesting raptors	300 feet

14-6.02C(3) Protocols

Use protocols required by PLACs

14-6.02C(4) Biological Resource Information

Not Used.

14-6.02C(5) Protection Measures

Within species protection area 1, implement the following protection measures:

1. Follow all protective measures outlined in PLACs.
2. Notify the District Biologist in the event a regulated species is discovered.
3. The Flood Control District biologist will immediately halt any activity found to be in conflict with the terms of the PLACs. All environmentally sensitive areas (ESAs) delineated on the plans shall be inspected to ensure ESA and exclusionary fencing is intact and no impacts have occurred inside the ESAs.
4. Concrete pouring shall be prohibited when a 70 percent or greater chance of rainfall is predicted within 72 hours.
5. No staging or storage of equipment or materials is allowed within the banks of either stream. All equipment and materials shall be removed from the stream channels at the end of every work shift.
6. All equipment that will be stationary for more than 12 hours shall have catch or drip pans placed underneath them. All compressors, pumps and fuel tanks shall be placed inside fuel spill containment system.

14-6.02C(6) Monitoring Schedule

Monitor according to the following schedule:

Monitoring type	Schedule
Stream Diversion and Dewatering activities	Duration of all stream diversion and dewatering installation and removal activities
Vegetation trimming and removal	Duration of all vegetation trimming and removal activities
Initial ground disturbance	Duration of all initial ground disturbances
Entire project survey	Twice weekly

14-6.02D Payment

Not Used.

Replace 3rd paragraph of section 14-6.03A with:

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 15 to September 15.

Replace "reserved" in section 14-6.05 with:

The District will provide a Biologist for this project. Fully coordinate project activities with the Biologist and the Engineer. You may be directed to perform work associated with the Biologist's monitoring. This work is Supplemental Work and will be paid in accordance with section 9-1.04.

Replace section 14-11.09 with:

14-11.09 TREATED WOOD WASTE

14-11.09A General

14-11.09A(1) Summary

Section 14-11.09 includes specifications for handling, storing, transporting, and disposing of treated wood waste (TWW).

Wood piles removed from project site may be TWW. Notify the Engineer prior to disposing TWW.

Manage TWW under 22 CA Code of Regs, Div. 4.5, Chp. 34. TWW disposal is Supplemental Work and will be paid in accordance with section 9-1.04.

14-11.09A(2) Submittals

For disposal of TWW, submit as an informational submittal a copy of each completed shipping record and weight receipt within 5 business days.

14-11.09B Materials

Not Used

14-11.09C Construction

14-11.09C(1) General

14-11.09C(2) Training

Provide training to personnel who handle TWW or may come in contact with TWW. Training must include:

1. All applicable requirements of 8 CA Code of Regs
2. Procedures for identifying and segregating TWW
3. Safe handling practices
4. Requirements of 22 CA Code of Regs, Div. 4.5, Chp. 34
5. Proper disposal methods

Maintain records of personnel training for 3 years.

14-11.09C(3) Storage

Store TWW before disposal using the following methods:

1. Elevate on blocks above a foreseeable run-on elevation and protect from precipitation for no more than 90 days.
2. Place on a containment surface or pad protected from run-on and precipitation for no more than 180 days.
3. Place in water-resistant containers designed for shipping or solid waste collection for no more than 1 year.
4. Place in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C).

Prevent unauthorized access to TWW using a secured enclosure such as a locked chain link fenced area or a lockable shipping container located within the job site.

Resize and segregate TWW at a location where debris from the operation including sawdust and chips can be contained. Collect and manage the debris as TWW.

Provide water-resistant labels that comply with 22 CA Code of Regs, Div. 4.5, Chp. 34, §67386.5, to clearly mark and identify TWW and accumulation areas. Labels must include:

1. Caltrans, District number, Construction, Construction Contract number
2. District office address
3. Engineer's name, address, and telephone number
4. Contractor's contact name, address and telephone number
5. Date placed in storage

14-11.09C(4) Transporting and Disposal

Before transporting TWW, obtain an agreement from the receiving facility that the TWW will be accepted. Protect shipments of TWW from loss and exposure to precipitation. For projects with 10,000 pounds or more of TWW, request a US EPA Generator Identification Number from the Engineer at least 5 business days before the first shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

1. Caltrans with district number
2. Construction Contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's contact name and telephone number
6. Receiving facility name and address
7. Waste description: Treated Wood Waste with preservative type if known or unknown/mixture
8. Project location
9. Estimated quantity of shipment by weight or volume
10. Date of transport
11. Date of receipt by the receiving TWW facility
12. Weight of shipment as measured by the receiving TWW facility
13. For projects with 10,000 pounds or more of TWW include the USA EPA Generator Identification Number.

The shipping record must be at least a 4-part carbon or carbonless 8 1/2 by 11-inch form to allow retention of copies by the Engineer, transporter, and disposal facility.

Dispose of TWW at an approved TWW facility. A list of currently approved TWW facilities is available at:

<http://www.dtsc.ca.gov/HazardousWaste/upload/lanfillapr11pdated1.pdf>

Dispose of TWW within:

1. 90 days of generation if stored on blocks
2. 180 days of generation if stored on a containment surface or pad
3. 1 year of generation if stored in a water-resistant container, or within 90 days after the container is full, whichever is shorter.
4. 1 year of generation if storing in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C)

14-11.09D Payment

Not Used

^^

15 EXISTING FACILITIES

Replace section 15-2.02M with:

15-2.02M Remove Wood Piles

The existing wood piles that interfere with the Work must be removed and disposed of. Existing wood piles must be removed to a depth of not less than two feet below new creek invert.

The existing wood piles may contain creosote or other wood preservative(s). Removed wood piles determined to be treated wood waste must be disposed of at an approved disposal facility in accordance with section 14-11.09.

Replace section 15-2.02N with:

15-2.02N Remove Lake Liner and Aeration System

Remove and dispose of existing lake liner and aeration system to the limits shown on the plans. As built drawings of the lake liner and aeration system are available upon request.

You must coordinate with the Twin Lakes Golf Course management regarding the abandonment of any portion of aeration system located beyond the limits of removal.

Add to section 15-2.05A

Section 15.2.05 includes specifications for abandoning sanitary sewer pipes.

Replace section 15-2.05C with:

15-2.05C Abandon Culverts and Pipelines

15-2.05C(1) General

Abandon culverts or pipelines by removing portions of the culverts or pipelines, filling the inside, and backfilling the depressions and trenches to grade. As an alternative to abandoning a culvert or pipeline, you may remove the culvert or pipeline, dispose of it, and backfill.

Notify the Engineer before abandoning a culvert or pipeline.

15-2.05C(2) Materials

Openings into existing structures that are to remain in place must be plugged with minor concrete under section 90.

15-2.05C(3) Construction

Wherever culverts or pipelines intersect side slopes, remove them to a depth of at least 3 feet. Measure the depth normal to the plane of the finished side slope. Abandon the remaining portion of the culvert or pipeline.

Culverts or pipelines that are 12 inches or more in diameter must be completely filled by authorized methods. Backfill with sand that is clean, free draining, and free from roots and other deleterious substances. As an alternative to sand, you may backfill with one of the following:

1. Controlled low-strength material under section 19-3.02F
2. Slurry cement backfill under section 19-3.02D

Ends of culverts and pipelines must be securely closed by a 6-inch-thick, tight-fitting plug or wall of commercial-quality concrete.

15-2.05C(4) Payment

If backfilling inside the culvert or pipeline is required, payment for backfilling inside the culverts or pipelines is included in the payment for abandon culvert or abandon pipeline. Payment for backfilling outside the culvert or pipeline is included in the payment for abandon culvert or abandon pipeline. [Payment for removing and disposing of pipe encasement is included in the payment for abandon pipeline.](#)

Add section 15-2.07C(1)

15-2.07C(1) Trim Pipes

Trimming pipes includes cutting pipes so that they are flush with re-graded channel banks.

Replace "Reserved" in section 15-2.08D with:

Payment for removing and resetting chain link fencing for access is included in the payment for various items of work.

Delete RSS Section 15-2.09D

Add to Section 15-2.09D

Irrigation facility relocation work is Supplemental Work and will be paid in accordance with section 9-1.04.

Add to section 15-2.10B

Adjust sewer manhole per the detail shown on the plans. Coat manhole interior per Section 12, "Manhole Rehabilitation," of the Goleta Sanitary District Standard Specifications which are included in the Information Handout.

Salvage and reuse existing manhole cover. Contractor must install new frame unless use of salvaged frame is acceptable to the Engineer.

Replace section 15-3.01 with:

15-3.01 GENERAL

Types of concrete facilities to be removed includes the concrete channel, walls, and other minor concrete structures,

Broken concrete must be removed from the job site.

Add to section 15-5.03A(1):

15-5.03A(1) Summary

Section 15-5.03 includes specifications for removing and patching spalled concrete surfaces of existing concrete slope lining.

Add to section 15-5.08A(1):

15-5.08A(1) Summary

Section 15-5.08 includes specifications for filling cracks in existing concrete slope lining with pressure-injected epoxy.



DIVISION III GRADING

19 EARTHWORK

Add to section 19-2.01A

Section 19-2 includes specifications for excavating and grading to construct the channels.

Roadway excavation is synonymous with channel excavation.

Excavate to the grade that rock slope protection is to be placed, including excavation required for the rock slope protection footing. Excavated material may be used to fill rock slope protection voids, and for native material.

Excavated material may be used to fill rock slope protection voids, and for native material, native streambed material, backfill, 6" and 18" soil cover.

Replace the 2nd, 3rd, and 4th paragraphs of section 19-2.03B with:

Dispose of surplus material. Ensure enough material is available to complete the embankments before disposing of it.

If surplus material cannot be stored on the job site in such a manner as to maintain access to property alongside of the work, the surplus material shall be removed from the work and stored until needed for backfill at which time it shall be brought back. The cost of removing and returning material shall be at the Contractor's expense.

Add to section 19-2.03G:

Roughen embankment slopes to receive erosion control materials by either track-walking or rolling with a sheepsfoot roller. Track-walk slopes by running track-mounted equipment perpendicular to slope contours.

Add to section 19-6.03A:

Dewater lakes prior to placement of fill material. Dewatering must comply with section 13-4.03G.

Abandon PVC pipes. Abandonment of PVC pipes must comply with section 15-2.05.

^^

21 EROSION CONTROL

Add to section 21-1.02G:

21-1.02G Seed

Seed mixture must comply with the **Erosion** Control Plans in the Information Handout.

Add section 21-1.02O(6)

21-1.02O(6) High Performance Turf Reinforcement Mats (HPTRM)

High performance turf reinforcement mat must be a nondegradable, woven textile made of synthetic fibers, filaments, nets, wire mesh or other elements, processed into a permanent, three-dimensional matrix. High performance turf reinforcement mat must comply with requirements shown in the following table:

High Performance Turf Reinforcement Mat (HPTRM)

Property	Type	Requirements	Test Method
Classification	--	ECTC Type 5	--

Net type	--	Synthetic	--
Number of nets	--	Per manufacturer's specifications	--
Minimum thickness	--	0.4 inch	ASTM D 6525
Minimum roll width	--	72 inches	--
Mesh opening size (max)	--	5 mm ²	--
Elongation	--	40 x 35%	ASTM D 6818
Limiting velocity (min) unvegetated at 50 hours	--	10 ft/sec	ASTM D 6460
Limiting shear stress (min) unvegetated at 50 hours	--	3 psf	ASTM D 6460
Tensile strength (Grab)	--	4000 x 3000 lb/ft	ASTM D 6818
Color	--	Green	--
UV stability	--	85% at 10000 hours	ASTM D 4355

Add section 21-1.03R HPTRM

21-1.03R HPTRM

Install per manufacturer's published installation guidelines for placement, overlapping, anchoring, etc. Apply seed mixture in compliance with section 21-1.02G to all HPTRM installations by hydroseeding and hydromulching. Include fertilizer, fiber, tackifier and seed mix in hydroseeding and hydromulching.



DIVISION VII DRAINAGE

64 PLASTIC PIPE

Replace the first paragraph of section 64-1.02A with:

Plastic pipe must conform with Section 207-17, "PVC Plastic Pipe," of the Greenbook (Standard Specifications for Public Works Construction), 2013 Edition.

Add to section 64-1.02B:

Structure backfill material for plastic pipe consists of Bedding and Pipe Zone, as shown the plans.

Trench backfill material must comply with section 19-6.02.

Add to section 64-1.03A:

Remove and dispose of existing lake leveling pipe. Removal of lake leveling pipe must comply with Section 15.

Add to section 64-1.03B:

Excavation beyond the limits shown on the plans is prohibited without prior approval by the Engineer. Trench backfill must comply with section 19-6.

^^

70 MISCELLANEOUS DRAINAGE FACILITIES

Add to section 70-5.01A:

Drain appurtenances include drain basins and outlet structures

Replace section 70-5.03 Minor Concrete Drainage Appurtenances with:

70-5.03 Minor Concrete Drainage Appurtenances

Minor concrete drainage appurtenances must comply with section 51-7. Minor concrete drainage appurtenances include concrete foundations, bases, basin floors, outlet structures and reinforced concrete pipe risers.

Outlet structure is to be constructed according to the plans. Installation of Tideflex Series 37G Check Valve and the Hydro Gate Model 50C round opening flap gate or approved equal is to be included in price paid for Outlet Structure and Gate Valve.

Add section 70-5.09 Drain Basin

70-5.09 Drain Basins

Drain basins and grates must be Nyoplast or approved equivalent and installed per the manufacturer's instructions. Drain basin grates must be pedestrian style.

Vertical portion of drain basin pipe below the design flow line must be backfilled with pea gravel of type approved by the Engineer.

^^

DIVISION VIII MISCELLANEOUS CONSTRUCTION

72 SLOPE PROTECTION

Add to section 72-1.04:

Payment for rock slope protection fabric is not included in the payment for rock slope protection.

Add to section 72-2.01:

Native backfill includes native material, native streambed material, 6" and 18" soil cover.

Backfilling with native stream bed material and soil cover is included in this item of work.

Replace section 72-2.02B with:

72-2.02B Fabric

Geotextile fabric shall comply with Section 88-1.02I Rock Slope Protection Fabric and meet Class 10 fabric properties except with the following changes to Class 10 properties:

Mass (oz/sq yd) min shall be 12

Permittivity (sec⁻¹) min shall be 0.8

Apparent Opening Size (U.S. Standard Sieve size) min = 100, max = 80

Porosity (%) shall be greater than or equal to 30

Add to section 72-2.03A General:

Excavations must comply with Section 19-3.03D.

Rock Slope Protection covered with a soil surface is to be roughened is to be compacted by track-walking.

Stream bed material and soil cover must comply with Section 19-6.

Replace section 72-2.03C Placement Method B with:

Rocks may be placed by dumping and may be spread in layers by bulldozers or other suitable equipment. Place rocks so that:

1. Voids can be backfilled and covered with excavated material acceptable to the District Biologist where noted on the plans.
2. Larger rocks are in the toe course and on the outside surface of the slope protection

72-7 FABRIC FORMED CONCRETE REVETMENT MAT

72-7.01 DESCRIPTION

This work consists of constructing fabric formed concrete revetment mats.

The fabric formed revetment shall consist of specially woven, double-layer synthetic forms filled with a pumpable, fine aggregate concrete (concrete grout) in such a way as to form a stable revetment of required thickness, weight, and configuration. Openings in the mat allow for topsoil and seeding to be applied for better aesthetics once vegetation is established.

The configuration of fabric formed revetment on this project shall be 'Filter Point Mat'.

72-7.02 MATERIALS

72-7.02 A Concrete Grout for Fabric Formed Revetment

Materials for fine aggregate concrete (concrete grout) shall meet the requirements of the following Sections of the Standard Specifications:

<u>Item</u>	<u>Section</u>
Portland Cement	90-1.02B(2)
Fine Aggregate	90-1.02C(3)
Water	90-1.02D
Admixtures	90-1.02E

The concrete grout shall consist of a mixture of Portland cement, fine aggregate, and water so proportioned and mixed as to provide a pumpable slurry. Pozzolan and grout fluidizer may be used at the option of the Contractor.

The consistency of the concrete grout delivered to the concrete pump shall be proportioned and mixed as to have an efflux time of 9 to 12 seconds when passed through the 0.75 inch orifice of the standard flow cone that is described in ASTM C 939.

The concrete grout shall have an air content of not less than 5% nor more than 8% of the volume of the grout. The mix shall obtain a compressive strength of 2,000 pounds per square inch at 28 days.

Mix proportions shall be similar to Section 90-1.02G of the Standard Specifications. The Contractor shall supply a mix design to the Engineer that will meet the above requirements. The Contractor shall submit samples of fine aggregate, cement, and fly ash intended for use to the Engineer before the work begins. After the mix has been designated, it shall not be changed without approval of the Engineer.

72-7.02 . Fabric Forms

72-7.02 B (1) Manufacturers and Products.

Acceptable manufacturers and products are as follows:

- Donnelly Fabricators, Inc., 970 Henry Terrace, Lawrenceville, GA 30045, telephone 770.339.0108. Product: Texicon™ Vegetated Mat Lining.

<http://www.texicon.com/texicon.html>

- Hydrotex Synthetics, Inc., 74 Perimeter Center East, Suite 7420, Atlanta, GA 30346-1803, telephone 800.225.0023. Product: Hydrotex™ Enviromat™ Lining.

<http://www.hydrotex.com/>

- Or approved equal.

The fabric forms supplied shall meet the details and specifications of the above named products as modified by this specification.

72-7.02 B (2) Materials

Fabric forms shall be fabricated to the dimensions shown in the contract documents. The dimensions shown in the contract documents reflect the size of the fabric form prior to filling with concrete grout and are exclusive of form material in anchor, terminal, or toe trenches unless otherwise noted. Where the plan indicates a finished dimension, the fabric form dimension shall be adjusted to provide the finished dimension shown following filling with concrete grout.

The fabric forms shall be composed of synthetic yarns formed into a woven fabric. Yarns used in the manufacture of the fabric shall be composed of nylon and/or polyester. Forms shall be woven with a minimum of 50% textured yarns (by weight) to improve adhesion to the concrete grout and to improve filtration. Each layer of fabric shall conform to the physical, mechanical, and hydraulic requirements referenced herein. The fabric forms shall be free of defects or flaws that significantly affect their physical, mechanical, or hydraulic properties.

Fabric used to fabricate the fabric forms shall meet or exceed the values shown for the properties shown in Table A.

Table A - Fabric Form Minimum Property Requirements				
Property		Test Method	Units	Filter Point Mat
Composition of Yarns				Nylon or Polyester
Mass Per Unit Area (double-layer)		ASTM D 5261	oz/yd ²	12
Thickness		ASTM D 5199	Mils	25
Mill Width			In	76
Wide-Width Strip Tensile Strength	-machine	ASTM D 4595	lbf/in	140
	-cross	ASTM D 4595	lbf/in	110
Elongation at Break	-machine	ASTM D 4595	%	20
	-cross	ASTM D 4595	%	30
Trapezoidal Tear Strength	-machine	ASTM D 4533	lbf	150
	-cross	ASTM D 4533	lbf	100
Apparent Opening Size (AOS)		ASTM D 4751	U.S. Std Sieve	40
Flow Rate		ASTM D 4491	gal/min/ft ²	90
Flow Rate Through Filter Point		ASTM D 4491	gal/min/ft ²	7
Notes:				
1. Conformance of fabric to specification property requirements will be based on ASTM D 4759.				
2. Numerical values represent minimum average roll values (i.e., average of test results from any sample roll in a lot shall meet or exceed the minimum values). Lots shall be sampled according to ASTM D 4354.				

Mill widths of fabric shall be a minimum of 76 inches. Each selvage edge of the top and bottom layers of fabric shall be reinforced for a width of not less than 1.35 inches by adding a minimum of 6 warp yarns to each selvage construction. Mill width rolls shall be cut to the length required, and the double-layer fabric separately joined, bottom layer to bottom layer, and top layer to top layer, by means of sewing thread, to form multiple mill width panels with sewn seams on not less than 72 inch centers.

All factory-sewn seams shall be downward facing upon completion of the revetment. All seams sewn in the factory shall be not less than 90 lbf/in when tested in accordance with ASTM D 4884. All sewn seams and zipper attachments shall be made using a double line of U.S. Federal Standard Type 401 stitch. All stitches shall be sewn simultaneously and be parallel to each other, spaced between 0.25 inches to 0.75 inches apart. Each row of stitching shall consist of 4 to 7 stitches per inch. Thread used for seaming shall be nylon and/or polyester. Field sewing will be permitted only to join the factory assembled fabric form panels together.

Fabric forms shall consist of double-layer woven fabric joined together by spaced, interwoven filter points to form a concrete lining with a finished average thickness of 10 inches, a nominal mass per unit area of 113 pounds per square foot, and a deeply cobbled surface appearance. After the form has been filled with fine aggregate concrete, the filter points shall be on approximately 14 inch spacing when measured along a diagonal. Filter points shall be formed by interweaving the double layer fabric to form water permeable drains and attachment points for the control of concrete lining thickness. The interweaving of the fabric layers shall form an area of double density, high strength, single-layer fabric with an area of approximately 12.2 square inches and a perimeter of approximately 15 inches. All filter points shall be cross shaped and shall have twill weave centers designed to function as drains to relieve hydrostatic uplift pressure.

Grout stops shall be installed at predetermined mill width intervals to regulate the distance of lateral flow of concrete grout. The grout stop material shall be nonwoven filter fabric. The grab tensile strength of the filter fabric shall be not less than 90 pounds-force per inch when tested in accordance with ASTM D 4632.

72-7.03 CONSTRUCTION

Not Used.

72-7.04 PAYMENT

Not Used

Add section 72-8:

72-8 ROCK WEIR WETLAND FEATURE

72-8.01 GENERAL

Section 72-8 includes specifications for constructing the rock weir:

1. Excavating trench
2. Placing rock courses
3. Filling voids and backfilling trench
4. Construction of clay barrier

72-8.02 MATERIALS

72-8.02(A) ROCK

Comply with the rock grading shown in the following table:

Rock Grading

Rock size (in)	Percentage larger than ^a
36	0
24	50

18	100
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^aFor any class, the percentage of rock smaller than the smallest rock size must be determined on the basis of size. For all other rock sizes within a class, the percentage must be determined on the basis of the ratio of the number of individual rocks larger than the smallest size shown for that class compared to the total number of rocks.

Rock material properties shall comply with Section 72-2.02A. Rounded boulders are not be used.

72-8.02(B) NATURAL CLAY

Clay material for clay barrier shall meet the properties in Table 1:

Table 1 Required Physical Properties of Clay

Property	Test Value	In-situ Test Method
Max. particle size (inches)	1	ASTM D422
Min. percent passing No. 4 sieve	80	ASTM D422
Min. percent passing No. 200 sieve	50	ASTM D1140
Min. liquid limit	35	ASTM D4318
Min. plasticity index	12	ASTM D4318
Max. plasticity index	40	ASTM D4318
Hydraulic conductivity	≤1 x 10 ⁻⁷ cm/sec	Lab Test

72-8.02(C) CLAY MIXTURE

Alternatively, a soil-bentonite mixture may be used on approval by the engineer.

72-8.03 CONSTRUCTION

72-8.03(A) GENERAL

Excavate weir trench along the alignment per construction plans as necessary for rock weir construction and clay barrier.

Rock weir to be constructed in two courses: a footer course and a top course.

Footer course and top course shall be installed in layers. Footer course shall overlap top course by 1/3 diameter minimum.

Footer and top course rocks are to be positioned with long axis in line with flow direction.

All large rocks used in structures and in the channel should be individually placed by hand and/or machine and secured in desired position by machine tamping of rock and surrounding support material.

Large rocks forming the rock weir should be placed tightly together to minimize gaps, and each rock should have a minimum of three contact points with adjacent rocks.

Rocks will be individually selected for best fit.

Sluice sand into voids of all layers of RSP to obtain uniform placement. Use hand-held vibratory equipment to ensure that all voids are thoroughly filled with sand. Water may be used to assist sluicing. Fill to top of RSP as shown on plans. Filling voids with sand shall not remove requirement that each rock has a 3-point bearing on underlying rocks.

Large voids may be filled using alternate fill material, such as clean graded aggregate or native stream bed material, only if approved by the Engineer.

Small rocks and fines shall be hand compacted as layers of streambed sediment are added.

72-8.03(B) CLAY BARRIER

Placement

A crushed rock and geogrid base will be placed at the bottom of the excavated trench in order to provide stability for compaction of the subsequent clay layers. A biaxial geogrid (Tensar BX1100 type S1, Mirafi BXG 10, or equivalent) shall be placed on the neat, excavated subgrade. One, 12-inch lift of 2- to 3-inch crushed rock is placed on top of the geogrid. Adjustments to the depth of crushed rock may be necessary based on field performance.

The clay barrier shall be placed in lifts. The thickness of each lift before compaction shall not exceed 8 inches.

If the surface of any layer becomes too hard and smooth for proper bond with the succeeding layer, it shall be scarified to a depth of not less than 6 inches before the next layer is placed. The distribution of materials throughout the clay liner shall be essentially uniform, and the clay liner shall be free from lenses, pockets, streaks, or layers of material differing substantially in texture or moisture content.

Scarification shall be performed on all areas of the upper surface of each clay lift prior to placement of the next.

Control of Moisture Content

During placement and compaction of the clay barrier, the moisture content of the clay being placed shall be maintained above optimum moisture as determined by the Modified Proctor Test (ASTM D1557).

The application of water to the clay shall be accomplished at the borrow areas insofar as practicable. Water may be applied by sprinkling the clay after placement and before compaction of the liner, if necessary. Uniform moisture distribution shall be obtained by disking.

Compaction

The minimum allowable moisture content shall be no less than the optimum moisture content based on ASTM D1557.

The minimum allowable density shall be no less than 90 percent of maximum dry density based on ASTM D1557.

Reworking or Removal And Replacement of Defective Clay Barrier

Clay placed at densities lower than the specified minimum density or at moisture contents lower than optimum moisture content or otherwise not conforming to the requirements of the specifications shall be reworked to meet the specifications or removed and replaced. The replacement clay and the foundation and fill surfaces upon which it is placed shall conform to all requirements of this specification for foundation preparation, approval, placement, moisture control, and compaction.

Testing and Documentation Requirements

Clay barrier construction shall be tested and documented as specified below. Copies of the documentation report, including test locations and test results, shall be provided to the owner.

Field and laboratory soil tests shall be completed on the clay barrier by a third party engineering or testing firm retained by the contractor to document compliance with this specification. Testing shall be completed as the liner is being placed. The following tests shall be completed at the specified frequency.

Modified Proctor Test (ASTM D1557)

Atterberg Limit tests (ASTM D4318)

Grain size distribution (ASTM D422)

Permeability (ASTM D5084)

Modified Proctor, Atterberg limits, grain size distribution, and permeability tests shall be completed on undisturbed samples obtained from the constructed clay liner. A minimum of one of each of the laboratory tests specified above shall be completed per clay barrier.

Field density tests ASTM D2922 or D1556 shall be completed once every 18" of compacted material.

PAYMENT

Measurement and payment for rock placement shall refer to Section 72-2.04. Measurement and payment for the clay barrier layer shall be based on the unit price schedule for each cubic yard of clay in place. This unit price shall include the cost for development of the clay borrow source, cost of clay, excavation, hauling, equipment, placement, testing, and other incidental work required to construct the clay barrier.

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75 MISCELLANEOUS METAL

75-1.03C(5) Anchor Rod for RSP and FCR Mat

RSP anchor rods shall be at least 0.20 in (5mm) diameter galvanized steel with a 1-1/2 in (38 mm) galvanized steel washer at the head of the pin. Anchor pins shall be at least 18 in (450 mm) long and shall be driven flush with the soil surface. Anchor pins shall have sufficient ground penetration to resist pullout. Longer anchors may be required for loose soils.

FCR Mat anchor rods shall be 3/8" diameter galvanizes threaded rod with 6" square galvanized washer and double hex galvanized nuts.

Add to section 75-1.06:

75-1.06 PAYMENT

Except for final-pay-item miscellaneous metal materials, miscellaneous metal materials are determined from scale weighing.

The cost of the concrete for the anchor rods is included in the cost for the anchor rods.

^^

77 LOCAL INFRASTRUCTURE – WATER

Replace Reserved with:

77-1 WATER MAINS, LATERALS, SERVICES AND APPURTENANCES

77-1.01 GENERAL

Section 77-1.01A Summary

Section 77 includes specifications for work on the City of Santa Barbara water system, including excavation and backfill, removal of existing concrete thrust blocks if encountered, , tie-ins at each end, installation of new fire hydrant assembly, water main lowering, water valves, combination valves, disinfection, pressure testing, abandoning existing mains and pavement restoration.

Section 77-1.01B Submittals

The Contractor must submit four (4) sets of the following items to the Engineer for review at least five (5) working days prior to the pre-construction meeting. Submittals must include, but are not limited to:

- Temporary Water By-pass Plan
- Shoring Plan
- Method of Compaction
- Business/Residence Notification Letter
- Pipe bedding Material
- Trench Backfill Material
- Portland Cement
- Pipe Specifications
- Pipe Fittings

- Copper Tubing
- Gate Valves
- Combination Air Valve
- Catalog Cuts and Affidavits of Compliance.

Manufacturer's catalogs (or excerpts thereof) and affidavits of compliance with the contract documents must be submitted for all materials to be used on the project.

Section 77-1.01C Standard Specifications for Public Works Construction

The work provided herein must be performed in accordance with the Standard Specifications and with the 2006 edition of the Standard Specifications for Public Works Construction (SSPWC) of the Southern California Chapter American Public Works Association (Greenbook Specifications). Part 1 (General Provisions), Part 2 (Construction Materials), Part 3 (Construction Methods) and Part 4 (Alternate Products) of the SSPWC are incorporated herein by reference. In case of conflict between the SSPWC and the Special Provisions, the Special Provisions must control.

Section 77-1.02 MODIFICATIONS TO GREENBOOK

Greenbook Section 201-1 "PORTLAND CEMENT CONCRETE"

Modify Greenbook Paragraph 201-1.1.2, "Concrete Specified by Class and Alternate Class":
Concrete for thrust blocks must be Class 520-C-2500, unless otherwise shown or specified.

Concrete thrust blocks must be provided sufficient time to develop concrete strength prior to allowing the waterline to return to operating pressure.

Greenbook Section 207-9, "IRON PIPE AND FITTINGS"

Add the following to Greenbook Paragraph 207-9.2.1, "General":

Ductile iron pipe must meet the requirements of AWWA C150 and AWWA C151 unless otherwise shown or specified, and must be Pressure Class 350. Ductile iron pipe must not be used as sewer pipe unless approved by the Engineer.

The manufacturer must furnish an affidavit indicating that all materials delivered comply with the requirements of AWWA C150 and C151, and those of the City.

Ductile Iron pipe must be used between all Ductile Iron Mechanical Joint fittings less than 10-feet apart.

Add the following to Greenbook Paragraph 207-9.2.2, "Pipe Joints": Unless otherwise noted on the plans or specifications, ductile iron pipe joints must be Push-on joints, (e.g. "Tyton" joint pipe by U.S. Pipe or approved equal). Ductile iron pipe joints must be restrained with a locking gasket, (e.g. "Field-Lok" gaskets by U.S. Pipe, or approved equal) only as indicated on the plans.

Pipe retainers for bell and coupled PVC pipe joints must be manufactured of ductile iron and must be used where indicated on the plans to restrain pipe joints adjacent to the restrained fittings. These retainers must be EBAA Iron, Inc. Series 1600, ROMAC Series 600, Uni-Flange Series 1350, or approved equal.

Add the following to Greenbook Paragraph 207-9.2.3, "Fittings":

All fittings must be Mechanical Joint, pressure class 350, ductile iron, conforming to the requirements of AWWA C110 or C153, and C111. "Megalug" by U.S. Pipe or approved equal, locking wedge-type retainer glands must be used instead of the standard mechanical joint gland. Locking retainer glands must be specifically manufactured for use with PVC or ductile iron pipe, as applicable.

An alternative to using a short piece of pipe or pup between mechanical joint fittings, the City will except the use of the epoxy coated "Foster Adaptor" by Infact Inc. or approved equal as appropriate. For more information on the Foster Adaptor call Infact Inc. at (615) 206-9113 or Ventura Pipe & Supply (local distributor) at (805) 658-0839.

Add the following to Greenbook Paragraph 207–9.2.4, “Lining and Coating”:

All interior surfaces of ductile iron fittings must be coated with fully cured–in–place coating material that meets all of the requirements of AWWA C550 and AWWA C213, as specified below. The exterior surface must be coated with bituminous coating approximately 1-mil thick.

Interior Coating for Fittings:

Material: The coating material must be a 100% solid, thermosetting, fusion–bonded, dry–powder epoxy coating such as Scotchkote 206N or 134 coating, or approved equal.

Surface Preparation: All surface irregularities, welds, and weld spatter must be ground smooth to a 1/8-inch (3.18 millimeter) radius. All surfaces must be blasted to near–white metal in accordance with Steel Structures Painting Council Surface Preparation Specification SSPC-SP10 or NACE No. 2 near-white finish.

Application: Apply coating by the fluidized bed process to a thickness of not less than 12-mils (305 microns). The parts must be heated and cured in accordance with the manufacturer's specifications.

Inspection: The coating should be pinhole–free and tested with a low voltage, wet sponge holiday detector. All pinholes should be marked, repaired and retested to insure a pinhole–free coating.

Add the following to Greenbook Paragraph 207–9.2.6 Polyethylene Encasement for External Corrosion Protection:

Polyethylene encasement must be furnished and installed in accordance with the requirements of AWWA C105. All ductile iron pipe, gray iron and ductile iron fittings, and valves must be encased with 8–mil thick polyethylene film.

Greenbook Section 207–17, “PVC PLASTIC PIPE”

Add the following to Greenbook Paragraph 207–17.1.0, “General”:

PVC Water Pressure Pipe PVC pipe must be manufactured by J–M Manufacturing Co. (J–M Pipe), or approved equal. The manufacturer must furnish an affidavit indicating that all materials delivered comply with the requirements of AWWA C900 or C905, and those of the City.

All PVC pressure pipe in sizes up to 12-inches must be in conformance with AWWA C900 and must be Class 200 (DR 14) as shown on the plans and details.

Ductile Iron pipe may be used in situations where PVC pipe length does not exceed 10-feet in length. The manufacturer must furnish an affidavit indicating that all materials delivered comply with the requirements of the City.

Greenbook Section 207-24, “WATER MAIN VALVES”

Add the following:

Paragraph 207–24.2 Resilient Wedge Gate Valves

Resilient wedge gate valves and operators must be rated to a minimum working pressure of 200 psi, and must conform to the provision and requirements of AWWA C509. Gate valves must be used for sizes 8–inch or less.

Gate valves must be resilient rubber wedge on disc, cast or ductile iron body, mechanical joint type, with non–rising stem and parallel seats conforming to the latest revision of AWWA C509. Gate valves must be manufactured by AVK or approved equal.

Paragraph 207–24.3 Valve Coatings

Interior Coating All interior coatings must be fully cured–in–place coating material that meets all of the requirements of AWWA C550 and AWWA C213. Applications must be at the place of manufacture.

Exterior Coating Exterior coating must meet the requirements of AWWA C504 and C509. Application must be at the place of manufacture.

Greenbook Section 306-1, “OPEN TRENCH OPERATIONS”

Add the following to Greenbook Paragraph 306-1.3.4, "Backfill and Densification":

Pipe shall be bedded and backfilled per the trench details shown on the plans.

Trench dewatering may be required.

Payment for trench dewatering including all time and materials necessary to remove excessive water infiltration and dispose of it properly, is included in the payment for Water Main Lowering.

Add the following to Greenbook Paragraph 306-1.3.4, "Compaction Requirements":

All trench bedding and backfill material must be compacted as required in the City Construction Standard Details. Backfill material in unpaved areas must be compacted to a minimum of 90 percent of maximum dry density.

The maximum laboratory density of compacted backfill must be determined by ASTM Test Method D 1557.

Section 77-2.01 WATER MAIN CONSTRUCTION METHODS

Section 71-2.01(A) Installation of Water Pipe

All water mains must be constructed in accordance with the plans, details, the Greenbook and Special Provisions unless otherwise directed by the Engineer.

The Contractor must push (or "bar") the plain end of pipe into the bell end from the bell end only. In no case must the Contractor push the pipe from the plain end.

The Contractor must obtain approval and coordinate with the Engineer any temporary cutting and capping of existing water mains, the installation of blow-offs or flush lines not shown on contract drawings.

Buried Bolted Connections: All buried bolted connections, including flanged and mechanical joints, restraining harnesses, and locking retainer glands, must be thoroughly and completely coated with a heavy film of no-oxide grease and wrapped with 8-mil thick polyethylene encasement and taped as specified in AWWA C105.

Assemblies must be made with new gaskets, nuts, and bolts of the proper size. Bolt heads must be positioned to ensure free movement of nuts after installing concrete thrust blocks.

Cover. The Contractor must install water pipe with a minimum cover of 32-inches, unless other indicated on the plans, or if valve minimum cover requirements are greater.

Deflections and Offsets: When it is necessary to deflect the pipe from a straight line, either horizontally or vertically, the pipe must be assembled in a straight line, then deflected to the required degree of deflection in accordance with the manufacturer's recommendations. In the case of mechanical joints, the joint must be loosely assembled, deflected to the required degree of deflection (not exceeding manufacturer's recommendations), and the joint assembled tightly.

Offsets may be used to correct misalignments of main line or fire lines of up to 12 inches per the direction of the Engineer.

Detectable Tape: A continuous length of 3-inch wide detectable tape must be centered over the PVC water pipe at the top of the compacted backfill and must be protected from damage or displacement during pavement resurfacing.

Debris in Pipe: At times when water main pipe laying is not in progress, the open ends of the pipe must be closed with a water tight plug. This provision must apply during worker breaks as well as overnight, or any other time the pipe is unattended. If water is in the trench, the seal must remain in place until the trench is free of water. Trench water must be kept out of the pipe at all times.

Field Cutting Pipe: The cutting of pipe for inserting valves, fittings, or tie-in sections must be done in a neat and professional manner without damage to the pipe, or any pipe coatings and linings. The

Contractor must cut the pipe so as to leave a smooth end at right angles to the axis of the pipe. Flame cutting of the pipe by means of oxyacetylene cutting equipment must not be allowed. To assure a square cut, the pipe must be marked around its entire circumference prior to cutting.

Torque Settings for Saddles: Nuts for saddles installed on C906 HOPE pipe must be tightened to manufacturer's recommendations and directions. Contractor to provide submittal of process used to torque the saddle nuts and evidence that the tools used result in the specified torque values.

Section 71-2.01(B) Thrust Blocks

All plugs, caps, tees, wyes, unbalanced crosses, and horizontal and vertical bends equal to or greater than 11 ¼ degrees must be provided with concrete thrust blocks in accordance with the details in the plans. Thrust block concrete must be poured against plywood or approved alternative surfaces with half-rounds cut out against the pipe surface. Concrete must not be in contact with bolts or extend into the tee bolt area. Joints must remain capable of disconnection without interference of the concrete thrust block. Vertical bends and horizontal bends which are "rolled" vertically more than 45 degrees, must be vertically retained with thrust blocks and/or anchor rods as approved by the Engineer.

Section 77-2.01(C) Removal of Existing Water Mains and Appurtenances

Existing water mains that are to be abandoned or are encountered in excavations for the new mains must, to the extent feasible, remain in place, and be capped or plugged with concrete and abandoned in place after all services have been connected to the new water mains. Abandonment of water mains must include end thrust blocks and removal of any valve cans or appurtenances deemed necessary by the Engineer.

Section 77-2.01(D) Removal of Existing Fire Hydrant Assembly

Remove the existing fire hydrant assembly, lateral, gate valve, frame and cover. Backfill and compact to 95% relative compaction. Salvage the existing hydrant and water meter and deliver to the City of Santa Barbara Corporation Annex Yard at 401 East Yanonali St., Santa Barbara.

77-2.01(E) Waterline Shutdowns

The Contractor must notify the Engineer one-week in advance of any waterline shutdown. No shutdowns will be permitted on Mondays or Fridays. The Engineer will, upon notification by the Contractor and in accordance with the requirements of these specifications, notify customers of scheduled shutdowns and turnoffs, and request City forces to operate valves necessary for the Contractor to complete the work.

The Contractor must provide temporary water to customers as necessary. The Contractor must not operate any existing valves to shut-off or turn on the water except in an emergency situation. When valves do not seal properly, the City does not guarantee a dry shutdown in which case the Contractor must, at the Contractor's expense, provide for dewatering the trench.

The Contractor must obtain approval and coordinate with the Engineer and Water Resources all temporary high-lining of water line(s).

Plans for high-lining for temporary water service during main replacements must be reviewed and approved by the Engineer, prior to scheduling of shut-downs. High-line(s) must be disinfected with 25 mg/L free chlorine, using Table 4 of these specifications.

The maximum amount of time allowed for Goleta Building Supply and Goleta Water District services shut down is one 24 hour period.

77-2.01(F) Disinfection of Water Mains

Prior to connecting new water mains and appurtenances to the active water system (including installation of valve clusters, fire hydrants, and service saddles/corporation stops), disinfection must be completed to the satisfaction of the Engineer, including passing the bacteriological test. The Contractor must tie into the water system as soon as reasonably possible, but not more than 72 hours after the bacteriological test has been passed.

The Contractor must use the Continuous-Feed Method for disinfecting water mains. This section references AWWA C651-86.

The Contractor must use liquid chlorine or sodium hypochlorite or calcium hypochlorite in the disinfection operations.

- Liquid chlorine contains 100% available chlorine and is packaged in steel containers usually of 100-pound, 150-pound or 1-ton net chlorine weight. Liquid chlorine must be used only (1) in combination with appropriate gas-flow chlorinators and ejectors to provide a controlled high-concentration solution feed to the water to be chlorinated; (2) under the direct supervision of a person who is familiar with the physiological, chemical, and physical properties of liquid chlorine, and who is trained and equipped to handle any emergency that may arise; and (3) when appropriate safety practices are observed to protect working personnel and the public.
- Sodium hypochlorite or calcium hypochlorite is available in liquid form in glass, rubber-lined, or plastic containers typically ranging in size from 1 quart to 5 gallons; containers of 30 gallons or larger sizes may be available in some areas. Sodium Hypochlorite contains approximately 5% to 15% available chlorine, but care must be used in control of conditions and length of storage to minimize its deterioration.

Water from the existing distribution system must be made to flow at a constant, measured rate (measured by City water meter) into the newly laid water main.

At a point not more than 10 feet downstream from the beginning of the new main, water entering the new main must receive a dose of chlorine fed at a constant rate such that the water will have not less than 25 mg/L free chlorine.

To assure that this concentration is provided, the Contractor must use Table 4, which gives the amount of chlorine required for each 100 feet of pipe of various diameters. Solutions of 1 % chlorine may be prepared with sodium hypochlorite or calcium hypochlorite. The latter solution requires 1 pound of calcium hypochlorite in 8 gallons of water.

TABLE 4
Chlorine Required to Produce 25-mg/L Concentration in 100 feet of Pipe (by Diameter)

Pipe Diameter (inches)	100% Chlorine (pounds)	1% Chlorine Solution (gallons)
4	0.013	0.16
6	0.030	0.36
8	0.054	0.65
10	0.085	1.02
12	0.120	1.44
16	0.217	2.60

During the application of chlorine, no part of the main being tested must be connected to existing valves. Chlorine application must not cease until the entire main is filled with heavily chlorinated water. The chlorinated water must be retained in the main for at least 24 hours, during which time all valves and hydrants in the treated section must be operated to ensure disinfection of the appurtenances.

At the end of this 24-hour period, the treated water in all portions of the main must have a residual of not less than 10 mg/l free chlorine.

Direct feed chlorinators, which operate solely from gas pressure in the chlorine cylinder, must not be used for application of liquid chlorine. The preferred equipment for applying liquid chlorine is a solution-feed, vacuum operated chlorinator and a booster pump. The vacuum-operated chlorinator mixes the chlorine in solution water; the booster pump injects the chlorine solution into the main to be disinfected. Sodium Hypochlorite solutions may be applied to the water main with a gasoline or electrically powered chemical feed pump designed for feeding chlorine solutions.

When the 24-hour contact time has elapsed, the main must be flushed until the chlorine, as measured by a comparator in the discharge of the pipe, is 1.5 PPM or less. Adequate precaution must be taken during flushing of the main to preclude property damage or saturation of the surrounding material, and under no circumstance can flushing water be allowed to discharge to the creek.

Upon completion of flushing, a sample of the discharge must be collected in a bacteriological test bottle for testing by the City. The Contractor must comply with the County Health Department requirements for conducting the test. The City, upon notification by the Contractor, must arrange for the taking of the sample and must notify the Contractor of the results as soon as they are available.

If the test fails (results are positive), the main must be disinfected, flushed, and sampled again. Such operations must be repeated until results are negative.

Payment for disinfection is included in the various items of work that require disinfection.

77-2.01(G) Pressure Testing Pipeline

Modify Section 306-1.4, "Testing Pipelines," of the Greenbook as follows:

Pressure Testing Pipeline must take place after water main disinfection and bacteriological testing, and must be conducted per these specifications.

Full compensation for pressure testing the pipeline must be considered as incidental to the project and no separate payment must be made. All costs related to pressure testing the pipeline must be included in the various other applicable items of work.

Water Pressure Test: The water pressure test, or leakage test, must establish that the section of line to be tested, including all joints, fittings and other appurtenances, will not leak within the limits of the applicable leakage allowance.

The Contractor must provide all necessary apparatus for testing. A double check valve assembly meeting the requirements of the County of Santa Barbara Health Department must be used at all times. All necessary taps on the main for testing purposes must be provided and installed by the Contractor at locations designated by the Engineer.

All service saddles, corporation stops, fire hydrants, fire lines, blow-offs, air vacuum valves and appurtenances are to be installed on the main pipeline prior to testing. Tie-ins must be observed by the Engineer at operating pressure prior to backfill. The Contractor must apply a pressure of 50 psi above normal operating pressure for all tests. This pressure must be maintained as constant as possible throughout the period of test. All additional water pumped in during the testing period must be measured and recorded. The Contractor must provide and use an air relief valve so air trapped in the line during test will not affect test results. The test duration must be two-hours, and the allowable leakage must be determined by the formula:

$$L = \frac{(ND\sqrt{P})}{7400}$$

where:

- L = allowable leakage (gallons per hour)
 - N = number of joints in the length of pipeline tested
 - D = nominal diameter of the pipe (inches)
 - P = average test pressure during the test (pounds per square inch gauge)
- Leakage values determined by the above formula are shown in the table below:

**Leakage Allowable (Gallons per 1,000 feet per hour)
(1,000 feet =50 joints)**

Pipe Size	Test Pressure (psi)

(inches)	50	100	150	200	250
4	0.19	0.33	0.37	0.38	0.43
6	0.29	0.41	0.50	0.57	0.64
8	0.38	0.54	0.66	0.76	0.85
10	0.48	0.68	0.83	0.96	1.07
12	0.57	0.81	0.99	1.15	1.28

Should the test of the pipe installed disclose leakage in excess of the specified allowable, the Contractor must, at the Contractor's expense, locate and repair the defective joints until the leakage is within the specified allowance.

77-2.01(H) Main Line Valves

All valves must conform to the provisions herein.

All main line water valves must be pressure rated to a minimum 200 psi. Valves involved in service connections must meet the specifications of the standard details.

All water valves 8–inches in diameter or less must be Resilient Wedge Gate Valves. All water valves greater than 8–inches must be Pratt or Mueller Butterfly Valves.

Valves 12-inch and greater must be Class 250 to allow for adequate clearance for the butterfly valve to fully open.

Fittings and valves must be provided with support such that the pipe will not support their weight.

A valve box must be provided for every valve in accordance with the details in the plans. The valve box must not transmit shock or stress to the valve and must be centered and plumb over the wrench nut of the valve, with the box cover flush with the surface of the finished pavement or such other level that may be indicated by the plans or directed by the Engineer.

Cover: No portion of the installed valve stem must be permitted to encroach into the existing pavement structural section or to be closer than 15 inches from the finished pavement grade, whichever results in greater cover requirements. In cases where a gate valve stem does not meet these depth requirements, the Engineer may approve the use of a butterfly valve.

77-3.01 PAYMENT

Payment for each of the following items includes the costs for excavation, bedding, backfill, disposal, restoring the street structural section where required, shoring and anything else not listed but required to complete the work.

The payment for Remove Fire Hydrant Lateral, Assembly and Valves includes removing and disposing of guard posts, gate valve, riser, abandoning existing lateral in place and salvaging the fire hydrant and water meter.

The payment for Cut, Cap and Abandon Existing 8" Cast Iron Water Main includes, thrust block, restraint, end cap and removing and disposing of existing pipe in conflict with improvements.

The payment for Water Main Lowering includes removing and disposing of existing pipe and concrete encasement, installing 6" C900 PVC pipe, thrust blocks and collars, fittings, restraints, bedding and 2-sack slurry cement in the pipe zone.

The payment for Tie-in to Existing Water Mains includes thrust collars, restraints, reducers, tees pressure testing and disinfection.

STANDARD DETAILS AND PLANS LIST

STATE DEPARTMENT OF TRANSPORTATION

The Standard Plan sheets (dated 2010) applicable to this contract include, but are not limited to those indicated below.

ABBREVIATIONS, LINES, SYMBOLS AND LEGEND

A10A	Abbreviations (Sheet 1 of 2)
A10B	Abbreviations (Sheet 2 of 2)
A10C	Lines and Symbols (Sheet 1 of 3)
A10D	Lines and Symbols (Sheet 2 of 3)
A10E	Lines and Symbols (Sheet 3 of 3)

EXCAVATION AND BACKFILL

A62A	Excavation and Backfill - Miscellaneous Details
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TEMPORARY WATER POLLUTION CONTROL

T56	Temporary Water Pollution Control Details (Temporary Fiber Roll)
T58	Temporary Water Pollution Control Details (Temporary Construction Entrance)
T59	Temporary Water Pollution Control Details (Temporary Concrete Washout Facility)
T61	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)
T62	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)
T65	Temporary Water Pollution Control Details [Temporary Fence (Type ESA)]
T66	Temporary Water Pollution Control Details (Temporary Large Sediment Barrier)

GOLETA SANITARY DISTRICT

Description	Standard Number
36" Manhole Frame and Cover	7
Remote Area Manhole Jacket	8
Standard Manhole	10
Manhole Frame & Cover	12

CITY OF SANTA BARBARA

Description	Standard Number
Fire Hydrant Installation Notes	W-01.0
Fire Hydrant Installation	W-01.1
Fire Hydrant Guard Post	W-03.0
Valve Box	W-04.0
Air/Vacuum Valve	W-08.0
Concrete Thrust Collar	W-10.0
Concrete Thrust Block	W-11.0
Trench Bedding and Backfill Notes	U-01.0
Trench Bedding and Backfill	U-01.1
Trench Paving Requirements	U-01.3

COUNTY OF SANTA BARBARA

Description	Standard Number
Pipe Bedding Details	2-020