

NOTICE INVITING BIDS

DUE: / /2011

TIME: 2:00 PM

SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

**STREET, STORM DRAIN, TRAFFIC SIGNAL, AND SIGNING & STRIPING
IMPROVEMENT FOR**

PYRITE STREET

FROM JURUPA ROAD TO MISSION BOULEVARD

IN THE CITY OF JURUPA VALLEY

RIVERSIDE COUNTY

DATED: 6/8/2011

THE REDEVELOPMENT AGENCY

FOR THE

COUNTY OF RIVERSIDE

FORM APPROVED COUNTY COUNSEL

BY Marshall Victor
MARSHAL L. VICTOR

6/14/11
DATE

JUN 28 2011

4.7 p/s

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RIVERSIDE COUNTY

DATED: 6/8/2011

**THE REDEVELOPMENT AGENCY FOR THE
COUNTY OF RIVERSIDE**

Prepared by:

**ALBERT A. WEBB ASSOCIATES
3788 McCray Street
Riverside, CA 92506
(951) 686-1070**

Approved by: Dilesh Sheth, P.E.
RCE No. 65078

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NOTICE INVITING BIDS

The Redevelopment Agency for the County of Riverside, herein called Owner, invites sealed proposals for the construction of:

**STREET, STORM DRAIN, TRAFFIC SIGNAL, AND SIGNING & STRIPING
IMPROVEMENT FOR
PYRITE STREET
FROM JURUPA ROAD TO MISSION BOULEVARD**

Proposals shall be delivered to the Clerk of the Board, County of Riverside 4080 Lemon Street, 1st Floor, Riverside, CA 92501, not later than 2 p.m., May ____, 2011,
to be promptly opened in public at said address.

A non-mandatory pre-bid meeting is scheduled for 1:00 PM, May ____, 2011 at Albert A. Webb Associates offices located at 3788 McCray Street, Riverside, CA 92506.

Each proposal shall be in accordance with Plans, Specifications and other Contract Documents dated _____ and prepared by Albert A. Webb Associates, whose address is 3788 McCray Street, Riverside, CA 92506, from whom they may be obtained for a NON-REFUNDABLE charge of \$ ____ for each set of plans and specifications picked up and \$ ____ for each set sent out. Make checks payable to Albert A. Webb Associates.

Pursuant to the Labor Code, the Governing Board of the Owner has obtained from the Director of Industrial Relations, State of California, his determinations of general prevailing rates of per diem wages applicable to the work, and for holiday and overtime work, including employee payments or health and welfare, pension, vacation and similar purposes, as set forth on schedule which is on file at the principal office of the Owner, and which will be made available to any interested person upon request.

To be considered, a potential bidder must have a Class A license, as required under provisions of the Public Contracts Code Section 3300, and the California Business and Professions Code, for work covered in its proposal when a bid is submitted. This includes a joint venture formed to submit a bid.

REDEVELOPMENT AGENCY FOR THE COUNTY OF RIVERSIDE

Nancy Romero, Clerk

By: _____
Deputy

Dated: _____

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**DUST ABATEMENT
SPECIAL PROVISIONS**

DA1-DA26

INSTRUCTIONS TO BIDDER

- A. **FORM OF THE PROPOSAL:** The proposal must be made on the attached Contractors Proposal form, which must be filled out completely, dated and signed by the bidder or duly authorized agent in accordance with the directions on the Proposal form.

Each proposal shall include a Non Collusion Affidavit (for either Individual Contractor, Joint Venture/Copartnership, or Corporate Contractor as appropriate); and shall include a complete list of the subcontractors proposed for every portion of the work, in accordance with Public Contract Code Sections 4100 - 4114, inclusive.

- B. **SUBMISSION OF PROPOSAL:** Signed copies of each Proposal shall be sealed in an opaque envelope. The envelope shall bear the bidders name and shall be marked:

**STREET, STORM DRAIN, TRAFFIC SIGNAL, AND SIGNING & STRIPING
IMPROVEMENT FOR
PYRITE STREET
FROM JURUPA ROAD TO MISSION BOULEVARD**

Proposals shall be submitted at the place designated in the Notice Inviting Construction Bids at, or before, the time specified in said Notice. Before that time a proposal may be withdrawn, but only in person by the bidder or someone authorized by him in writing, and not by telephone or telegram.

- C. **INTERPRETATION OF THE DOCUMENTS:** Discrepancies in and omissions from the plans, specifications or other contract documents, or questions as to their meaning shall, at once, be brought to the attention of the Engineer. Any interpretation of the documents will be made only by addenda duly issued and a copy of such addenda will be mailed or delivered to each person or firm receiving a set of such documents. The Owner will not be responsible for any other explanations or interpretations. Should anything in the scope of the work or any of the sections of the specifications be of such nature as to be apt to cause disputes between the various trades involved, such information shall be promptly called to the attention of the Engineer.
- D. **ADDENDA TO THE DOCUMENTS:** The Owner reserves the right to issue such addenda to the documents as it may desire at any time prior to the time fixed for receiving proposals. A copy of all such addenda will be promptly mailed or delivered to each bidder. The number and date of each addendum shall be listed on the Contractors Proposal in the space provided.
- E. **OWNERS RESERVATION OF RIGHTS:** The Owner reserves the right to reject any or all proposals and to waive any informalities in a bid or in the bidding. No bidder may withdraw his bid for a period of sixty (60) days after the time set for the opening thereof.
- F. **BIDDERS CHECK OR BOND:** Each proposal must be accompanied by a certified or cashiers check, or by a bid bond on the form supplied by the Owner, drawn in favor of the Owner in an amount not less than ten percent (10%) of the total proposal. This check or bond shall be given as a guarantee that the bidder, if awarded the contract, will execute and deliver the contract documents and the required Payment & Performance bonds in accordance with his proposal accepted by the Owner.

In default of execution of the contract upon award and/or delivery of said Payment and Performance Bonds, such proposal bond or check shall be held subject to payment to the Owner of the difference in money between the amount of the bidders proposal and the amount for which the Owner may legally contract with another party to perform the said work together with the costs to the Owner of redrafting, redrawing and publishing documents and papers necessary to obtain new bids on the said work. The check or bond shall, in addition, be held subject to all other damages suffered by the Owner, as set forth in the contract documents. Said check or bond will be returned upon the close of the period mentioned in Paragraph E above, and to the successful bidder upon execution o the contract documents.

NO BONDS WILL BE ACCEPTED UNLESS SUBMITTED ON FORM SUPPLIED BY OWNER.

- G. AWARD OF CONTRACT: The contract shall be awarded upon a resolution or minute order to that effect duly adopted by the governing board of the Owner. Execution of the contract documents shall constitute a written memorial thereof.
- H. ADDITIONAL INFORMATION: The Owner reserves the right to require of a bidder information regarding financial responsibility or such other information as the Owner determines is necessary to ascertain whether a bid is in fact the lowest responsible bid submitted. All references to an Architect shall be deemed to refer to the Owner where no Architect has been employed by the Owner.
- I. PROMPT ACTION BY CONTRACTOR: After the award of the Contract by the Owner, and within four (4) days after the Agreement Forms are presented to the Contractor for signing, he shall return to the Owner the signed Agreements, along with all necessary Bonds and Certificates of Insurance.
- J. CAUTION TO BIDDERS: Prospective bidders are cautioned not to merely examine the plans and specifications in making their bid, since requirements are imposed upon the contractor by various other portions of the Contract Documents.
- K. PERFORMANCE AND PAYMENTS BONDS: Bidders attention is directed to the requirement that both the Performance and Payment Bonds are one hundred percent (100%) of the contract price.
- L. BIDDERS QUALIFICATIONS: To be considered, a potential bidder must have a Class A License, as required under provisions of Public Contracts Code Section 3300, and the California Business and Professions Code, for work covered in its proposal when a bid is submitted. This includes a joint venture formed to submit a bid.
- M. TIME OF COMPLETION: Time of completion of project is one hundred eighty (180) calendar days from the date specified in the NOTICE TO PROCEED issued by the Owner.
- N. BIDS: Bids are required for the entire work, including all alternate bid schedules, if applicable, unless otherwise explicitly allowed in the bid documents. The amount of the bids for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item/unit price bid on the basis of the estimated quantity set for the item.

The bidder shall set forth for each item of work in clearly legible figures, and item/unit price and a total for the item in the respective spaces provided for this purpose. In the case of the unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item/unit price and the total set forth for the item, the item/unit price shall prevail, provided, however, if the amount set forth as an item/unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or in case of unit basis items, is the same amount as the entry in the "Total" column, then the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- a. As to lump sum items, the amount set forth in the "Total" column shall be the item price.
 - b. As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item unit price.
- O. QUANTITIES: The amount of work to be done or materials to be furnished under the Contract as shown in Contractor's proposal are but estimates and are not to be taken as an expressed or an implied statement that the actual amount of work of materials will correspond to the estimate.

Owner reserves the right of increase or decrease or to entirely eliminate certain items from work of materials to be furnished if such action is found to be desirable or expedient.

Contractor is cautioned against the unbalancing of his bids by prorating his overhead only into one or two items when there are a number of items listed in the schedule.

CONTRACTORS PROPOSAL

TO THE GOVERNING BOARD OF
THE
REDEVELOPMENT AGENCY
FOR THE COUNTY OF RIVERSIDE

Date _____

Bidder

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions and the Supplementary General Conditions for the Pyrite Street Improvement Project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the construction in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Addendum No. _____ Date

Addendum No. _____ Date

Addendum No. _____ Date

for the total sum, including all applicable taxes, permits and licenses as follows:

**STREET, STORM DRAIN, TRAFFIC SIGNAL, AND SIGNING & STRIPING IMPROVEMENT FOR
PYRITE STREET
FROM JURUPA ROAD TO MISSION BOULEVARD
PROPOSAL**

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (In Figures)	TOTAL (In Figures)
1	DUST ABATEMENT	LS	1		
2	WATER POLLUTION CONTROL	LS	1		
3	TRAFFIC CONTROL SYSTEM	LS	1		
4	MOBILIZATION	LS	1		
5	ENCROACHMENT PERMIT	FA	1		
6	CLEARING AND GRUBBING	LS	1		
7	ROADWAY EXCAVATION	CY	8,000		
8	HOT MIX ASPHALT (TYPE A)	TON	6,671		
9	ASPHALT OR CEMENT TREATED BASE	S.Y.	17,200		
10	CLASS 2 AGGREGATE BASE	C.Y.	4,250		
11	MINOR CONCRETE (TYPE "A-6" CURB & GUTTER) (PER RIV. CO. STD. NO. 200)	L.F.	5,060		
12	MINOR CONCRETE (TYPE "D" 8" CURB) (PER RIV. CO. STD. NO. 204)	L.F.	212		
13	PLACE ASPHALT CONCRETE DIKE (6") (PER RIV. CO. STD. NO. 212)	L.F.	312		
14	MINOR CONCRETE (4" THICK SIDEWALK) (PER RIV. CO. STD. NO. 400 & 401)	S.F.	14,400		
15	CONSTRUCT AC SIDEWALK (W=5', D=4")	S.F.	1,135		
16	MINOR CONCRETE (CURB RAMP) (PER RIV. CO. STD. NO. 403, CASE A)	EA	11		
17	MINOR CONCRETE (CURB RAMP) (PER RIV. CO. STD. NO. 403, CASE B)	EA	2		
18	MINOR CONCRETE (CURB RAMP) (APWA STD. PLAN 111-4, TYPE 5)	L.F.	1		
19	MINOR CONCRETE (DRIVEWAY APPROACH) (PER RIV. CO. STD. NO. 207)	S.F.	1,150		
20	MINOR CONCRETE (DRIVEWAY APPROACH) (PER RIV. CO. STD. NO. 207 MODIFIED)	S.F.	375		
21	MINOR CONCRETE (DRIVEWAY APPROACH) (PER RIV. CO. STD. NO. 207A)	S.F.	694		
22	MINOR CONCRETE (DRIVEWAY APPROACH) (PER RIV. CO. STD. NO. 213)	S.F.	108		
23	MINOR CONCRETE (CROSS GUTTER AND SPANDRELS) (PER RIV. CO. STD. NO. 209)	S.F.	3,800		
24	INSTALL 4" RED CONCRETE	S.F.	874		
25	REMOVE EXISTING DRAINAGE INLET	EA	2		
26	REMOVE AND REPLACE EXISTING FENCE	L.F.	500		
27	REMOVE AND REPLACE EXISTING GATE	EA	5		
28	RELOCATE EX. WROUGHT IRON FENCE/GATE TO PROPOSED R/W	L.F.	460		
29	REMOVE EXISTING TREE	EA	11		
30	RELOCATE EXISTING MAILBOX	EA	6		
31	REMOVE AND RELOCATE EXISTING SIGN	EA	18		
32	CONSTRUCT CURB INLET CATCH BASIN PER RIV. CO. STD. NO. 300 (SIZE PER PLAN) AND GUTTER DEPRESSION PER RIV. CO. STD. NO. 311 (CASE C)	EA	4		
33	CONSTRUCT UNDER SIDEWALK DRAIN PER RIV. CO. STD. NO. 309	EA	1		

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (In Figures)	TOTAL (In Figures)
34	CONSTRUCT CONCRETE PAVEMENT SECTION	S.F.	6,840		
35	INSTALL 3" DECOMPOSED GRANITE	C.Y.	200		
36	SIGNING,	L.S.	1		
37	TRAFFIC SIGNAL MODIFICATION (MISSION BLVD. AND PYRITE STREET INTERSECTION)	L.S.	1		
38	INSTALL SCHOOL FLASHING BEACON COMPLETE IN PLACE	L.S.	1		
39	54" REINFORCED CONCRETE PIPE	L.F.	43		
40	60" REINFORCED CONCRETE PIPE	L.F.	1,531		
41	6W x 2.5H PRECAST REINFORCED CONCRETE BOX	L.F.	26		
42	6W x 4H PRECAST REINFORCED CONCRETE BOX	L.F.	4		
43	PRECAST TRANSITION STRUCTURE	EA	6		
44	JUNCTION STRUCTURE 1	EA	1		
45	CONCRETE BULKHEAD	EA	1		
46	REMOVE EXISTING PIPE	L.S.	1		
47	STEEL ENCASEMENT (R/R RIGHT OF WAY)	L.F.	27		
48	JUNCTION STRUCTURE 2	EA	2		
49	MANHOLE 2	EA	3		
50	6W x 3H PRECAST REINFORCED CONCRETE BOX	L.F.	52		
51	INLET STRUCTURE	L.S.	1		
52	REMOVE AND REPLACE TRANSITION STRUCTURE	L.S.	1		
53	REMOVE AND REPLACE BLOCK WALL	L.S.	1		
54	REMOVE AND REPLACE EXISTING FENCE	L.S.	1		
55	18" REINFORCED CONCRETE PIPE (CLASS IV)	L.F.	32		
56	30" REINFORCED CONCRETE PIPE	L.F.	56		
57	ADJUST EXISTING DTSC SEWER MANHOLE TO GRADE	E.A.	1		
58	ADJUST EXISTING DTSC FLOW METER TO GRADE	E.A.	1		

Project total _____
Items 1-59 "words"

\$ _____

The Redevelopment Agency also reserves the right to reject all bids received.

BID GUARANTEE

The enclosed certified or cashier's check or bidder's bond on approved form, made payable to the Owner, in the amount of ten percent (10%) of the total bid submitted herewith, is hereby given as guarantee that the bidder will execute and deliver the above mentioned written memorial and required bonds if awarded the contract, and in the event that the undersigned fails or refuses to execute and deliver said documents, such check or bond is to be charged with the costs of the damages experienced by the Owner as a result of such failure or refusal, including, but not limited to publication costs, the difference in money between the amount of the bid of the said principal and the amount for which obligee may legally contract with another party to perform the said work if such amount be in excess of the former, building lease or rental costs, transportation costs and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event, however, shall the Surety's liability exceed the penal sum hereof.

Name of Bidder _____

Type of Organization _____

Signed By _____

Title of Signer _____

Address of Bidder _____

Telephone Number _____

Contractor's License _____ Classification _____

If bidder is a corporation, and signer is not President or Secretary, attach certified copy of Bylaws or resolution authorizing execution. If bidder is a corporation, affix corporate seal. If signer is an agent, attach Power of Attorney. If bidder is not an individual, list names of other persons authorized to bind the organization.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____, as Principal : and _____, as Surety, are hereby held and firmly bound unto the Redevelopment Agency for the County of Riverside, hereinafter called the "Owner", in the sum of _____ dollars (\$ _____) for the payment of which sum, well and truly to be made, were hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

WHEREAS, the said Principal is herewith submitting its proposal for the construction of

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that if the aforesaid Principal shall be awarded the contract upon said proposal and shall, within the required number of days after the notice of such award, execute a written memorial of the awarded contract and submit the required labor and material and faithful performance bond, then this obligation shall be null and void; and in the event that the principal fails and/or refuses to execute and deliver said documents this bond will be charged with the costs of the damages experienced by the Owner as a result of such refusal, including but not limited to, publication cost, the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if such amount be in excess of the former; building lease or rental costs, transportation costs, and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event however, shall the Surety's liability exceed the penal sum hereof.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this ____ day of _____, 20__, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

In the presence of:

_____(Seal)
Individual Principal

Address

Business Address

_____(Seal)
Individual Principal

Address

Business Address

Attest:

Corporate Principal

Business Address

By _____
(Affix Corporate Seal)

Attest:

Corporate Principal

Business Address

By _____
(Affix Corporate Seal)

The rate of premium on this bond is _____ per thousand. Total amount of premium charged, \$ _____.

(The above must be filled in by corporate surety.)

AFFIDAVIT FOR INDIVIDUAL CONTRACTORS

_____ declares as follows:

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

I declare under penalty of perjury, that the foregoing is true and correct.

Dated this _____(day) of _____(month), _____(year)
at _____, California

Signature of affiant:

Note: Notarization of signature required

AFFIDAVIT FOR JOINT VENTURE OR COPARTNERSHIP CONTRACTOR

_____ declares as follows:

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

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

_____ who constitute the other members of the joint venture or copartnership.

I declare under penalty of perjury, that the foregoing is true and correct.

Dated this _____ (day) of _____ (month), _____ (year)
at _____, California

Signature of affiant:

Note: Notarization of signature required

AFFIDAVIT FOR CORPORATE CONTRACTOR

_____ declares as follows:

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

I declare under penalty of perjury, that the foregoing is true and correct.

Dated this _____ (day) of _____ (month), _____ (year)
at _____, California

Signature of affiant:

Note: Notarization of signature required

AGREEMENT FORM

THIS AGREEMENT entered into this ____ day of _____, 20__, by and between _____, hereinafter called the "Contractor" and the Redevelopment Agency for the County of Riverside, hereinafter called the "Owner".

WITNESSETH

That the parties hereto have mutually covenanted and agreed as follows:

CONTRACT: The complete Contract includes all of the Contract Documents, to wit: The Notice Inviting Bids, the Instructions to Bidders, the Contractor's Proposal, the Payment and Performance Bonds, the Plans and Specifications plus any Addenda thereto, the General Conditions, Specific Conditions, and this Agreement. All contract documents are intended to cooperate and be complementary so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all contract documents.

STATEMENT OF WORK: The Contractor hereby agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor, and materials for the construction of:

_____ I in strict accordance with the plans and specifications dated, _____, prepared by _____, hereinafter called the "Engineer", including Addenda thereto as listed in the Contractor's Proposal, all of which are made a part hereof.

TIME FOR COMPLETION: The work shall be commenced on a date to be specified in a written order of the Engineer and shall be completed within one hundred (180) calendar days from and after said date. It is expressly agreed that except for extensions of time duly granted in the manner and for the reasons specified in the General Conditions, time shall be of the essence.

COMPENSATION TO BE PAID TO CONTRACTOR: The Owner agrees to pay and the Contractor agrees to accept in full consideration for the performance of the Contract, subject to additions and deductions as provided in the General Conditions, the sum _____ of Dollars (\$ _____), being the total of the Base Bid.

The sum is to be paid according to the schedule as provided in the General Conditions.

Pursuant to Labor Code Section 1861, the Contractor gives the following certifications: I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workmens' 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.

IN WITNESS WHEREOF, the parties hereto on the day and year first above written have executed this agreement in _____ counterparts.

Type of Contractor's organization

If other than individual or corporation, list names of all members who have authority to bind firm.

IF OTHER THAN CORPORATION EXECUTE HERE

Attest: Firm Name _____

Signature _____

Address _____

Contractor's License No. _____

IF CORPORATION, FILL OUT FOLLOWING AND EXECUTE

Name of President of Corporation _____

Name of Secretary of Corporation _____

Corporation is organized under the laws of the state of _____

Firm Name _____

Signature _____

AFFIX
SEAL

Title of Office _____

Address _____

Contractor's License No. _____

Attest:

Deputy

By

Owner

Seal

Chairman, Board of Directors

PAYMENT BOND

(Public Work - Civil code Section 3247 et seq.)

The makers of this bond are _____, as Principal and Original Contractor, and _____, a corporation, authorized to issue Surety Bonds in California, as Surety, and this bond is issued in conjunction with that certain public works contract dated _____, between Principal and _____, a public entity, as Owner, for \$ _____, the total amount payable. THE AMOUNT OF THIS BOND IS 100% OF SAID SUM. Said contract is for public work generally consisting of _____.

The beneficiaries of this Bond are as is stated in 3248 of the Civil Code and the requirements and conditions of this Bond are as is set forth in Sections 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time or performance, change in requirements, amount of compensation, or repayment under said contract.

DATED: _____

Original Contractor - Principal

Surety

By _____

By _____
Its Attorney in Fact
(Corporate Seal)

Title _____
(If corporation , affix seal)

STATE OF CALIFORNIA)
COUNTY OF _____)

SURETYS ACKNOWLEDGMENT

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

Notary Public (Seal)

Approved as to form:

Agency Counsel

PERFORMANCE BOND

The makers of this bond, _____, as Principal, and _____, as Surety, are held and firmly bound unto _____, hereinafter called the Owner, in the sum of \$ _____, _____ dollars for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

The condition of this obligation is such, that whereas the principal entered into a certain contract, hereto attached, with the Owner, dated _____, 20____, for the construction of _____ in accordance with plans and specifications, dated _____, 20____.

Now, therefore, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of said contract during the original term of said contract and any extension thereof that may be granted by the Owner, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, then this obligation to be void, otherwise to remain in full force and virtue. Without notice, Surety consents to extension of time for performance, change in requirements, change in compensation or prepayment under said contract.

DATED:

PRINCIPAL

By _____

Title _____

SURETY

(If corporation, affix seal)

By _____

Its Attorney in Fact

(NOTE: This bond must be executed by both parties, with corporate seals affixed. All signatures must be acknowledged. Attach acknowledgments.)

**CONTRACTOR'S CERTIFICATE REGARDING WORKER'S
COMPENSATION INSURANCE**

Section 3700 of the Labor Code provides, in part, as follows:

"Every employer except the State and all political subdivision or institutions thereof, shall secure the payment of compensation in one (1) or more of the following ways:

- a) by being insured against liability to pay compensation with one (1) or more insurers duly authorized to write compensation insurance in this State; or
- b) by securing from the Director of Industrial Relations, a Certificate of Consent to Self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees ..."

The undersigned is aware of the provisions of Section 3700 of the Labor Code that 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 will comply with such provisions before commencing the performance of the work of this Contract.

Signature: _____ Date: _____

Printed Name: _____ Title: _____

Company: _____

Address: _____

(In accordance with Article 5 [commencing at Section 1860], Chapter 1, Part 7, Division 2, of the Labor Code, the above Certificate must be signed by Contractor and filed with the awarding body prior to Contractor performing any work under this Contract.)

CONTRACTOR'S CERTIFICATE REGARDING
WORKER'S COMPENSATION INSURANCE

GENERAL CONDITIONS OF THE CONTRACT

ARTICLE 1

GENERAL PROVISIONS

1.1 DEFINITIONS

THE CONTRACT DOCUMENTS - The Contract Documents consist of the Contract, the Performance Bond and Payment Bond and any other bond required by the Contract, the drawings, the specifications, addenda issued prior to execution of the Contract, and all modifications thereto.

THE CONTRACT - The Contract Documents form the Contract. The Contract represents the entire and integrated agreement between the parties hereto, and supersedes all prior negotiation, representations, or agreements, either written or oral, including the bidding documents.

ACT OF GOD - An Act of God is an earthquake of magnitude 4.5 or greater on the Richter scale, flood, tornado, or other cataclysmic phenomenon of nature, or rain, snowstorm, windstorm, high water, or other natural phenomenon in excess of the normal as established by National Oceanic and Atmospheric Administration weather data.

ACCEPTANCE - Acceptance is when the Agency determines all of the Contract requirements have been completed. Execution of the Notice of Completion will signify acceptance. A copy of the Notice of Completion will be sent to the Contractor after execution by the Agency. Upon receipt of the Notice of Completion, the Contractor will be relieved of the duty of protecting the work, and the Agency will initiate final settlement and payment.

AGENCY - The term Agency when used herein shall mean the Board of Directors of the Redevelopment Agency for the County of Riverside, a public body corporate and politic in the State of California.

COUNTY - The term County when used herein shall mean the Board of Supervisors of the County of Riverside, a political subdivision of the State of California.

CHANGE ORDER - A Change Order is the document issued by the Agency authorizing any change or adjustment to the Contract Documents in accordance with Article 19 of this Contract.

CONSULTANT - The use of the term Consultant shall mean the Engineering individual, partnership, corporation, association or joint venture contracted by the Agency for the design of this Work, as designated on the title sheet of these specifications and Contract Documents.

CONTRACT DRAWINGS - "Contract drawings" or "drawings" means and includes (a) all drawings which have been prepared on behalf of the Agency, and are included in the Contract Documents and all clarification drawings issued by notice to the bidders thereto; (b) all drawings submitted pursuant to the terms of the Contract by the Contractor to the Agency during

the progress of the Work, which are accepted by the Agency. A schedule of said drawings which constitutes the plans as of the execution of the Agreement is set forth in the Special Provisions and is supplemented by the Standard Plans referred to in the Special Provisions.

CONTRACTOR'S AGENT - The representative of the Contractor, approved by the Agency, who shall be present at the Work and be authorized to receive and act upon instructions from the Agency and to execute and direct the Work on behalf of the Contractor.

CONTRACTOR - When used herein, Contractor means the prime or principal Contractor licensed to perform work in the State of California, including all joint ventures. References to subcontractor or others are only for convenience and all such references shall be considered to refer to the Contractor. The prime or principal Contractor shall be responsible for all subcontractors, and all subcontractors shall require their subcontractors to comply with the relevant provisions of the prime or principal contract.

CRITICAL PATH METHOD (CPM) - "Critical Path Method" is a schedule technique.

DAY - The use of "day" herein means calendar day and shall include every day including Saturdays, Sundays, and legal holidays.

DIRECTOR - The use of "Director" shall mean the Executive Director of the Redevelopment Agency for the County of Riverside or designated representative.

INSTALL - When used herein, "install" shall mean the complete installation, in place, of any item, equipment or material.

MATERIAL - Material shall be construed to include machinery, equipment, manufactured articles, or construction such as form work, fasteners, etc., and any other classes of material to be furnished in connection with the Contract. All materials shall be new.

NOTICE OF COMPLETION - The Notice of Completion ("NOC") shall be issued at that point in the Contract when the Contractor has completed all Work required in the Contract Documents. The time for issuance shall be determined by the Agency through a final inspection. The NOC shall be issued by the Board of Supervisors.

NOTICE TO PROCEED - The Notice to Proceed is the written notification from the Agency giving the Contractor notice to commence with the Work. The Notice to Proceed will specify the start date for the Work and the completion date.

REQUEST FOR INFORMATION - (RFI) The form and procedure established for communication between the Contractor and the Agency to clarify or interpret the Contract Documents.

REQUEST FOR QUOTATION - (RFQ) A document consisting of supplemental details, instruction, or information issued by the Consultant, through the Agency, for the purpose of obtaining price quotations for possible changes in the Work.

SHALL - When used herein, "shall" means anything, which is mandatory to be performed by the Contractor.

SPECIFICATIONS - The term "Specifications" means that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work.

SUBCONTRACTOR - The term "Subcontractor" means a person or firm that has a contract with Contractor or with another subcontractor to perform a portion of the Work. Unless otherwise specifically provided, the term Subcontractor includes Subcontractors of any tier, suppliers, manufacturers, and distributors. The term Subcontractor is referred to throughout the Contract Documents as if singular in number.

WORK - The term "Work" comprises the services and materials required by the Contract Documents, as may be amended, and includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.

1.2 STANDARD SPECIFICATIONS

The Standard Specifications of the State of California Department of Transportation, edition of May 2006 hereinafter called "Standard Specifications", are modified in these General Conditions. The "Amendments to May 2006 Standard Specifications, as published by the Department of Transportation is also incorporated herein. That document is available as a free download at Caltrans' web site:

http://www.dot.ca.gov/hq/esc/oe/specs_html/2006_specs.html

The following subsections of the Standard Specifications are deleted:

1-1.13, 1-1.15, 1-1.18, 1-1.25, 1-1.37, 1-1.40, 2-1.01, 2-1.05, 2-1.07, 5-1.14, 7-1.165, 8-1.03, 9-1.05, 9-1.065, 9-1.10, 12-2.02.

Section 3 of the Standard Specifications is deleted.

The following deletions and additions are made from the following subsections of the Standard Specifications.

Subsection 5-1.04, add to the second paragraph at its end the following sentence: "The General Conditions govern over all of the Contract Documents except the Special Provisions, the Agreement and Bonds."

Subsection 7-1.01A (2), strike the last sentence of the second paragraph and in its place read: "These wage rates are on file in the Office of the County Clerk and are a part of the Contract."

Subsection 7-1.15, for "Director" read "Agency"

Subsection 7-1.16, delete references to Subsection 7-1.165.

Subsection 8-1.06, strike the last paragraph.

Subsection 8-1.08, strike "as provided in the State Contract Act".

1.3 AUTHORITIES AND LIMITATIONS

1.3.1 The Board of Directors alone has the power to bind the Agency and to exercise the rights, responsibilities, authorities, and functions vested herein by the Contract Documents, except that they shall have the right to designate authorized representatives to act for them. Agency, under the authority of the Board of Directors, shall monitor the contract work and determine the amount, quality, acceptability and fitness of all parts of the work, and interpret the Contract Documents as needed.

1.3.2 Neither the Contract, nor any part thereof, nor moneys due or to become due there under may be assigned by the Contractor without the prior written approval of the Agency, with the exception of the assignments to Agency which may be required under the terms of this Contract.

1.4 LEGAL REQUIREMENTS

1.4.1 Contractor shall keep informed of, and comply with, all federal, state and county laws, ordinances, rules, and regulations applicable to the Work or to those engaged or employed in the Work of this Contract, especially (but not limited to) those laws relating to hours of employment, prevailing wages, payment of wages, sanitary and safety conditions for workers, workers' compensation insurance, type and kind of materials that can be used, non-discrimination in employment and affirmative action programs. Failure to identify a specific provision in these Contract Documents shall not excuse the Contractor from complying with such applicable statutory requirements.

1.4.2 If conflict arises between provisions of the Contract Documents and any such laws, rules, or regulations, the Contractor shall notify the Agency at once in writing. If, before receiving clarification, Contractor performs any portion of the Work affected by such apparent conflict, such performance shall be at Contractor's own risk. Contractor shall not be entitled to any additional compensation or time by reason of the conflict or its later correction.

1.4.3 All work and materials shall be in full accordance with the latest applicable (or otherwise noted) codes, rules, and regulations including, but not limited to, the following:

- Uniform Building Code
- Uniform Plumbing Code
- Uniform Mechanical Code
- Uniform Fire Code
- State Fire Marshal
- State Industrial Accident Commission's Safety Orders
- Rules of Local Utilities
- Ordinances of the County of Riverside

1.4.4 Nothing in the specifications is to be construed to permit work not conforming to the above, and expense incurred complying with the above shall be borne by the Contractor. Whenever the specifications and working details require higher standards than those required by the ordinances, codes and statutes, the specifications and working details shall take priority over the ordinances, codes and statutes.

1.4.5 In submitting a bid on this public works projects, or any subcontractor agreeing to supply goods, services, or materials, and entering a contract pursuant thereto, the Contractor and/or subcontractor do offer and agree to assign the Agency all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final acknowledgement by the parties.

1.5 STANDARD REFERENCES

1.5.1 All documents and publications (such as, but not limited to, manuals, handbooks, codes, standards, and specifications) which are cited in this Contract for the purpose of establishing technical (non-administrative) requirements applicable to equipment, materials, or workmanship under this Contract, shall be deemed to be incorporated herein as though fully set forth.

1.5.2 Whenever reference is made to any particular document or publication, the Contractor shall comply with the requirements set out in the edition specified in this Contract, or if not specified, the latest edition or revision thereof, in effect on the date of the solicitation of bid on this project, except as modified by, as otherwise provided in, or as limited to type, class, or grade, in the specifications of this Contract.

1.6 PERMITS, LICENSES, FEES & TAXES

1.6.1 AGENCY'S RESPONSIBILITIES

a. The Agency will apply for all plan checks and will apply for and obtain the Grading Permit and Construction Permits required by the County of Riverside, paying all fees in connection therewith.

b. The Agency will furnish, at no expense to the Contractor, all on-site inspection of the Work and will pay for off-site inspection only as noted in the Contract Documents.

1.6.2 CONTRACTOR'S RESPONSIBILITIES

a. The Contractor shall obtain and pay for all other permits and licenses required for the Work, including excavation permit and for plumbing, mechanical and electrical work and for operations in or over public streets or right of way under jurisdiction of public agencies other than the County.

b. Exclusive of off-site inspection specified herein to be the Agency's responsibility, the Contractor shall arrange and pay for all off-site inspection of the Work, including certification, required by the specifications, drawings, or by governing authorities.

c. Before Acceptance of the project by the Agency, the Contractor shall submit all licenses, permits, and certificates of inspection to the County and Agency.

1.7 SEPARATE CONTRACTS

1.7.1 The Agency reserves the right to perform work related to this project with its own forces, and to award separate contracts in connection with other portions of the project or other work on the site. The Contractor shall cooperate with others in the execution of all work and shall not interfere with material, appliances or workmen of the Agency or any other contractor engaged by the Agency at the site of the Work. In case of disagreement regarding such use, the matter shall be referred to the Agency whose decision relative to said use shall govern.

1.7.2 The Contractor shall afford the Agency and separate contractors' reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work, and shall properly connect and coordinate Contractor's Work with theirs.

1.7.3 If any part of the Contractor's Work depends on the proper execution or results upon the work of the Agency or any separate contractor, the Contractor shall inspect and promptly report to the Agency any discrepancies or defects in such other work that render it unsuitable for such proper execution and results. Failure of the Contractor to so inspect and report shall constitute an acceptance of the Agency's or the separate contractor's work as fit and proper to receive the Work, except as to defects which may develop in the other separate contractor's work after the execution of the Contractor's Work.

1.7.4 Should the Contractor cause damage to the work or property of any separate contractor on the Project, the Contractor shall, upon due notice, settle with such other contractor by agreement, if both will so settle. If such separate contractor sues the Agency because of any damage alleged to have been so sustained, the Contractor agrees to indemnify and defend the Agency in such proceedings with the Agency retaining the right to select and hire independent counsel for the Agency paid by the Contractor.

1.7.5 Any cost caused by defective or ill-timed work shall be borne by the party responsible therefore.

1.8 AGENCY'S AUTHORIZED REPRESENTATIVES

1.8.1 AUTHORIZED REPRESENTATIVE

The Agency shall designate a representative during the Work, who shall have the right to be present at the job site during construction and shall supervise any additional representatives appointed by the Agency.

1.8.2 INSPECTOR(S)

The Inspector(s) shall have the right to observe the installation of all materials and equipment to be incorporated into the Work and the placing of such material and equipment to determine in general if the Work is proceeding in accordance with the Contract Documents. The Inspector(s) is not authorized to make changes in the Contract Documents. On the basis of his observations, he shall keep the Agency informed as to the progress of the Work. The Inspector shall not be responsible for means, methods, techniques, sequences, or procedures of construction nor for safety precautions and programs in connection with the Work. Nor will the inspector be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents.

1.8.3 CONSULTANT

a. The Agency has retained a Consultant for this project. The Consultant will advise the Agency, and the Agency will issue instructions to which the Contractor will complete. The Consultant will be requested to interpret the requirements of the Contract. When requested by the Agency, the Consultant will, within a reasonable time, render such interpretations as he may deem necessary for the proper execution of the Work.

b. The Consultant will make periodic visits to the job site to familiarize himself generally with the progress and quality of the Work and to determine in general whether the work is proceeding in accordance with the Contract Documents. Based on such observations he will recommend approval of applications for progress payments made by Contractor. The Consultant shall not be responsible for means, methods, techniques, sequences, or procedures of construction nor for safety precautions and programs in connection with the Work. Nor will the Consultant be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents.

ARTICLE 2 BONDS AND INSURANCE

2.1 BIDS OF \$25,000 OR LESS

2.1.1 If the total amount bid on the Work is \$25,000 or less, the payment bond and performance bond are not required, provided that one payment of all compensation shall be made following Acceptance of all work.

2.2 BONDS

2.2.1 GENERAL REQUIREMENTS

a. Before commencing any Work under this Contract, the Contractor shall file four of each bond with the Agency. These bonds shall be in the amounts and for the purposes specified below. They shall be surety bonds issued by:

(1) Either a California Admitted Surety OR a current Treasury Listed Surety (Federal Register).

And

(2) Either a current A.M. Best A VIII rated Surety OR an admitted surety insurer which complies with the provisions of the Code of Civil Procedure, § 995.660.

b. Should any surety or sureties upon said bonds or any of them become insufficient, Contractor shall renew said bond or bonds with good and sufficient sureties within ten (10) calendar days after receiving notice from the Agency that the surety or sureties are insufficient. Cost of bonds shall be included in the bid price.

2.2.2 PERFORMANCE BOND

The successful bidder shall deliver to the Agency an executed Performance Bond on the attached form in an amount equal to 100% of the accepted bid as security for the faithful performance of the Contract.

2.2.3 PAYMENT BOND

The successful bidder shall deliver to the Agency an executed Payment Bond on the attached form in an amount equal to 100% of the accepted bid as security for the payment of all persons performing labor and furnishing materials in connection with the Work.

2.3 INSURANCE

2.3.1 GENERAL REQUIREMENTS

Before commencing this Work under the Contract, and without limiting or diminishing Contractor's obligation to indemnify and hold the County and Agency harmless, the Contractor shall procure and maintain, or cause to be maintained at its sole cost and expense, the following insurance coverages during the term of this Contract.

2.3.2 WORKERS' COMPENSATION INSURANCE

Contractor shall secure Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per

accident. Policy shall be endorsed, if applicable, to provide a Borrowed Servant/Alternate Employer Endorsement, and contain a Waiver of Subrogation in favor of the Redevelopment Agency for the County of Riverside, and the County of Riverside, pursuant to Section 3700 of the Labor Code of the State of California, Contractor shall file with the Agency before commencing the Work the following signed certification:

"I am aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I shall comply with such provisions before commencing the performance of the Work of this Contract."

2.3.3 COMMERCIAL GENERAL LIABILITY:

Commercial General Liability insurance coverage, including but not limited to, premises liability, contractual liability, products/completed operations if applicable, personal and advertising injury – which may arise from or out of Contractor's operations, use, and management of the premises, or the performance of its obligations hereunder. Policy shall name the County, the Agency, their Director's, Officers, special Districts, Board of Supervisors, employees, agents or representatives as Additional Insured, and contain a Waiver of Subrogation in favor of the Redevelopment Agency for the County of Riverside, and the County of Riverside. Policy limits shall not be less than \$1,000,000 per occurrence combined single limits. If such insurance contains a general aggregate limit, it shall apply separately to this agreement or be no less than two (2) times the occurrence limit. Policy shall also contain coverage for \$5,000 Medical Payments coverage per accident, per person, and Fire Legal Liability in an amount not less than \$50,000.

2.3.4 VEHICLE LIABILITY:

If Contractor's vehicles or licensed mobile equipment are used on County or Agency property, or used in any manner on behalf of the Agency, Contractor shall maintain auto liability insurance for all owned, non-owned and hired automobiles in an amount not less than \$1,000,000 per occurrence combined single limit, \$2,000,000 in the aggregate. Policy shall name the County of Riverside, Agency, their Director's Officers, Special Districts, Board of Supervisors, employees, agents, or representatives as Additional Insured, and provide a Waiver of Subrogation in favor of the Agency and County of Riverside.

2.3.5 PROPERTY (PHYSICAL DAMAGE):

All-Risk property insurance coverage for the full replacement value of all Contractor's equipment, improvements/alterations, temporary structures, and systems (Care, Custody, and Control of Contractor) used on County or Agency property, or used in any way connected with the accomplishment of the Work performed in this contract.

2.3.6 GENERAL INSURANCE PROVISION – ALL LINES:

a. Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California unless waived, in writing, by the County Risk Manager. Carrier(s) shall have an A.M. BEST rating of not less than an A: VIII. Insurance deductibles or self-insured

retentions must be declared by the carrier(s), and such deductibles and retentions shall have the prior written consent from the County Risk Manager. At the election of the Risk Manager, carriers shall provide written notification, and shall either 1) reduce or eliminate such deductibles or self-insured retentions, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses. If no written notice is received from the County Risk Manager within ten (10) days of the acceptance of agreement, then such deductibles or self-insured retentions shall be deemed acceptable.

b. Cause its insurance carrier(s) to furnish the Redevelopment Agency for the County of Riverside with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, or 2) if requested to do so in writing by the County Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. The County of Riverside, the Redevelopment Agency for the County of Riverside, their Director's and Officers, Special Districts, Board of Supervisors, elected officials, employees, agents or representatives are named as Additional Insureds. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that shall provide no less than thirty (30) days written notice be given to the Redevelopment Agency for the County of Riverside prior to any material modification or cancellation of such insurance. In the event of a material modification or cancellation of coverage, this Agreement shall terminate forthwith, unless the Redevelopment Agency for the County of Riverside receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverages set forth herein and the insurance required herein is in full force and effect. **Contractor shall not commence operations under this Agreement until the Redevelopment Agency for the County of Riverside has been furnished original Certificate(s) of Insurance and certified original copies of Endorsements or policies of insurance including all Endorsements and any and all other attachments as required in this Section. The original Endorsements for each policy and the Certificate of Insurance shall be signed by an individual authorized by the insurance carrier to do so on its behalf.**

c. It is understood and agreed to by the parties hereto and the insurance company(s), that the Certificate(s) of Insurance and policies shall so covenant and shall be construed as primary, and the Agency's insurance and or deductibles and or self-insured retentions or self-insured programs shall not be construed as contributory.

The Redevelopment Agency for the County of Riverside's Reserved Rights-Insurance. The Redevelopment Agency for the County of Riverside reserves the right to adjust the monetary limits of insurance coverage's during the term of this agreement or any extension thereof-if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the Contractor becomes inadequate.

d. Contractor shall pass down the insurance obligations contained herein to all tiers of sub-consultants working under this Agreement.

2.4

INDEMNITY AND HOLD HARMLESS

2.4.1 Contractor agrees to and shall indemnify and hold the County and Agency, their officers, employees and agents free and harmless from any and all claims, actions, damages and liabilities of whatsoever kind and nature arising from death, personal injury, property damage or other cause asserted or, based upon any negligent act or omission of Contractor, its employees, agents, invitees, or any subcontractor of Contractor relating to or in any way connected with the accomplishment of the work or performance of services under this Agreement, regardless of the existence or degree of fault or negligence on the part of the Agency, County, or any officer or employee of said County, other than the sole active negligence or willful misconduct of Agency-its Directors and Officers, Special Districts, Board of Supervisors, elected officials, employees, agents or representatives. As part hereto of the foregoing indemnity Contractor agrees to protect and defend at its own expense, including attorneys' fees the County and Agency-its Directors and Officers, Specials Districts, Board of Supervisors, elected officials, employees, agents or representatives from any and all legal action based upon any acts or omissions, as stated hereinabove, by any person or persons.

2.4.2 If any such claim, action, or proceeding is brought against Agency, County, or their officers, agents, employees, or independent contractors, Contractor, upon notice from Agency, shall defend the same at Contractor's expense by counsel satisfactory to Agency.

2.4.3 Agency shall promptly notify Contractor of any claim, action, or proceeding against Agency, County, or their officers, agents' employees, independent contractors, and consultants relating to the performance, or omission to perform, any term or condition of this Contract. Agency shall cooperate fully in the defense of such claim, action, or proceeding.

2.4.4 Neither the County nor the Agency shall be liable or responsible for any accident, loss or damage occurring to the Work prior to the completion and Acceptance of same, unless otherwise specifically agreed to at the time of occupancy by the Agency.

ARTICLE 3 SITE CONDITIONS

3.1 DIFFERING SITE CONDITIONS

3.1.1 The Contractor shall have reviewed and ascertained pertinent local conditions such as location, accessibility, and general character of the site and satisfy himself as to the conditions under which the Work is to be performed. No claim for allowances shall be made because of Contractor's error or negligence in acquainting himself with the conditions at the site.

3.1.2 The Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Agency. The Contractor shall promptly report in writing to Agency any errors, inconsistencies, or omissions in the Contract Documents or inconsistencies with applicable code requirements observed by Contractor.

3.1.3 If Contractor performs any construction activity which it knows or should know involves an error, inconsistency, or omission without notifying and obtaining the written consent of Agency, Contractor shall be responsible for the resultant losses, including, without limitation, the costs of correcting defective work.

3.1.4 The Agency will furnish surveys necessary to properly locate the property and establish the boundaries thereof with general reference points as well as to enable the Contractor to proceed with the Work.

3.1.5 The Contractor shall provide competent engineering services to lay out the Work and all parts thereof and to establish all grades and elevations in accordance with the Contract requirements. The Contractor shall verify the figures shown on the survey and approach drawings before undertaking any construction work and shall be responsible for the accuracy of the finished work.

3.1.6 The Contractor shall protect and preserve established bench marks and monuments and shall make no changes in locations without the written approval of the Agency. Any bench marks or monuments that are lost or destroyed shall be replaced by the Contractor subsequent to notification and approval from Agency.

3.2 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK

3.2.1 The Contractor acknowledges by submission of his/her bid that he is satisfied as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including any exploratory work deemed necessary by the Contractor. Any failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating the difficulty and cost of successfully performing the Work, or for proceeding to successfully perform the Work without additional expense to the Agency.

3.2.2 Elsewhere in the Contract Documents reference may be made, graphically, descriptively or both, to the existence or possible existence of other improvements affecting the site and the prosecution of the work such as surface and subsurface utilities, drainage ditches and courses, buildings, fencing, retaining walls, roadways, curbs, trees, shrubs, and similar matters. Such matters are included to be used by Contractor to the extent he deems appropriate. However, it is expressly understood and agreed:

1. Showing or describing such items does not mean that it is an exhaustive and complete presentation and that as to matters shown or described that they necessarily exist.
2. All graphic presentations are schematic only unless the contrary is clearly set out elsewhere as to a particular matter.
3. Whenever in the plans survey markers are shown, boundaries of the site are shown or contour lines are shown, Contractor may assume that such matters are shown in accordance with acceptable standards. All improvements of the nature above described, whether elsewhere shown or described or not, shall, unless the contrary is elsewhere specifically directed, remain in place, undisturbed and suitably protected during the course of the work.

4. Whenever during the course of the work a subsurface improvement is discovered which Contractor believes is unknown to Agency or County, he shall immediately so inform the Consultant and Agency. Except as elsewhere provided, whenever in the course of the work it becomes apparent that the work cannot proceed without the destruction or relocation of any improvement, whether shown or described or not, Contractor shall immediately cease work affecting such improvements and notify the Consultant and Agency as to such circumstance and await instructions as to how to proceed.
5. All dimensions shown for existing conditions and all dimensions required for work that is to connect with work now in place, shall be verified and calculated by the Contractor by actual measurement of the existing work. Any discrepancies between the Contract Documents and the existing conditions shall be referred to the authorized representative of the Agency before any work affected thereby has been performed. Failure to notify the Agency before starting work will be considered acceptance by the Contractor. Where doubts as to dimensions exist, Agency shall determine the correct dimensions.
6. The Contractor shall be required to cooperate fully with all utility forces or forces of other public agencies engaged in relocation, lowering, altering or otherwise rearranging any facilities interfering with the progress of work or installing any facilities thereon.

The Contractor will also be required to cooperate fully with any Agency, County, or State forces working on or near the project, or requiring access to the work in the performance of their duties.

3.3 DIMENSIONS AND MEASUREMENTS

All dimensions shown for existing conditions and all dimensions required for work that is to connect with work now in place, shall be verified and calculated by the Contractor by actual measurement of the existing work. Any discrepancies between the Contract Documents and the existing conditions shall be referred to the authorized representative of the Agency before any work affected thereby has been performed. Failure to notify the Agency before starting work will be considered acceptance by the Contractor. Where doubts as to dimensions exist, Agency shall determine the correct dimensions.

ARTICLE 4 SPECIFICATIONS AND DRAWINGS

4.1 GENERAL

4.1.1 SUBDIVISIONS

For convenience, the specifications are arranged into several sections, but such separation shall not be considered as the limits of the work required of any separate trade. The terms and conditions of such limitations are wholly between the Contractor and his subcontractors. Requirements contained in any section are required as if contained in all

sections and are the responsibility of the Contractor. The Contractor, prior to awarding subcontracts, will assure the Work required as a whole has been coordinated among the subcontracts.

4.1.2 RECORD DOCUMENTS

a. The Contractor will be given one set of drawings and specifications which shall be kept at the site of the Work at all times and updated weekly, and shall give the Agency and Consultant access thereto. Payment may be withheld if drawings are not kept current. Exact locations of all pipes and conduits and all changes in construction and details shall be indicated and dimensions provided upon these drawings, and all changes in materials and equipment installed shall be indicated in these specifications. Upon completion and prior to Acceptance of the Work, two final sets of mylars of project record documents and specifications shall be submitted to the Agency by the Contractor.

b. The working details will indicate dimensions, position, kind of construction, specifications, qualities, and methods. Any Work indicated on the working details and not mentioned in the specifications, or vice versa, shall be furnished as though fully set forth in both. Work not particularly detailed, marked, or specified shall be the same as similar work that is detailed, marked, or specified.

c. In case of discrepancy in the documents, the matter shall be promptly submitted to the Agency, who shall make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Agency shall furnish from time to time such detailed information as considered necessary to clarify the Work.

d. Where the word "similar" occurs on the drawings, it shall have a general meaning and not be interpreted as meaning identical, and all details shall be worked out in relation to their location and their connection with other parts of the work.

e. Standard details or specification drawings are applicable when listed, bound with specifications, noted on the drawings or referenced elsewhere in the specifications. Where the notes on the drawings indicate modifications, such modifications shall govern.

f. All drawings, specifications and copies thereof furnished to the Contractor are the property of the Agency and shall not be used on other work without its consent. Upon completion of this project, all copies of the drawings and specifications shall be returned to the Agency.

4.2 SUMMARY OF THE ORDER OF THE PROCEDURE

4.2.1 In case of conflicts between the Contract Documents, the order of precedence shall be as follows:

- 1) Modifications or changes last in time are first in precedence.
- 2) Addenda.
- 3) Agency-Contractor agreement.

- 4) General Conditions except for specific modifications thereto stated in the Supplementary Conditions.
- 5) Supplementary Conditions.
- 6) Division One Specifications.
- 7) Division Two through Sixteen Specifications.
- 8) Drawings - as between figured dimensions given on drawings and the scaled measurements, the figured dimension shall govern; as between large-scale drawings and small-scale drawings, the larger scale shall govern.
- 9) Structural drawings
- 10) Architectural drawings.
- 11) As between detailed drawings and typical details bound within the specifications, the detailed drawings govern.
- 12) In the event provisions of codes, safety orders, contract documents, referenced manufacturer's specifications or industry standards are in conflict, the more restrictive and higher quality shall govern.
- 13) Schedules shown on the drawings take precedence over conflicting information given on other drawings.
- 14) Mechanical drawings.
- 15) Electrical drawings.

4.3 CLARIFICATIONS/REQUEST FOR INFORMATION AND ADDITIONAL INSTRUCTIONS

4.3.1 NOTIFICATION BY CONTRACTOR

a. Should Contractor discover what he perceives to be conflicts, omissions, or errors in the Contract Documents, or have any question concerning interpretation or clarification of the Contract Documents, or if it appears that the work to be done or any matters relative thereto are not sufficiently detailed or explained in the Contract Documents, then, before proceeding with the work affected, Contractor shall notify Agency's authorized representative in writing, and request interpretation, clarification, or additional detailed information concerning the work. The Contractor shall ask for the clarification (Request for Information) immediately upon discovery but no less than 14 calendar days prior to the start date of the activities related to the clarification, based on the latest updated version of the accepted Progress Schedule. Agency, whose decision shall be final and conclusive, shall resolve such questions and issue instructions to Contractor. Should Contractor proceed with work affected before receipt of instructions from Agency, Contractor shall remove and replace or adjust work which is not in accordance with the instructions from Agency and shall be responsible for resultant damage, defect or added cost. In event of failure to agree as to scope of Contract requirements, Contractor shall follow the procedure set forth in the DISPUTES article.

b. The Contractor shall not be entitled to any compensation for delays, disruptions, inefficiencies or additional administrative effort caused by the Contractor's untimely review of the Contract Documents for potential conflicts, omissions, discrepancies or ambiguities.

c. Agency may charge back to the Contractor, time and expense associated with RFI's, as may be reasonably determined by the Agency to be unnecessary.

4.3.2 ADDITIONAL DETAILED INSTRUCTIONS

a. The Agency may furnish additional detailed written instructions on any Request for Information to further explain the Work. If in the opinion of Contractor, the additional detailed instructions constitute work in excess of the scope of the Contract, he must submit written notice thereof immediately to the Agency, but no later than seven (7) calendar days following receipt of such instruction(s), and in any event prior to commencement of work thereon. The Contractor shall not be entitled to additional compensation due to any additional instructions unless the Contractor shall have given the appropriate written notice. Agency will then consider such notice and, if in its judgment it is justified, the Agency instructions will be revised or extra work shall be authorized by Change Order. In the event of a dispute hereunder, attention is directed to the DISPUTES article.

ARTICLE 5 SHOP DRAWINGS AND SUBMITTALS

5.1 SHOP DRAWINGS, PRODUCT DATA, COORDINATION DRAWINGS AND SCHEDULES

5.1.1 Shop drawings are drawings submitted to the Agency by the Contractor showing the details of the proposed fabrication, assembly of structural elements, and the installation of materials or equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, fabrication, setting drawings, manufacturers' scale drawings, wiring and control diagrams, cuts or entire catalogs, pamphlets, and performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the Work required by the Contract. The Agency may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this Contract.

5.1.2 The Contractor shall coordinate all shop drawings and review them for accuracy, completeness, and compliance with Contract requirements, and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Agency without evidence of the Contractor's approval shall be returned for resubmission. The Consultant will indicate review for compliance of the shop drawings, and if not in compliance as submitted, shall indicate the reasons therefore. Any work done before such review shall be at the Contractor's risk. Review by the Consultant shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this Contract, except with respect to variations described and approved in accordance with paragraph 5.1.3.

5.1.3 If shop drawings show any variations from the Contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Consultant approves any such variation, no change in time or price will be allowed for Contractor changes. Should the Consultant make changes on the shop drawings which affect time and or cost, the Contractor will immediately notify the Agency with a Request for Information. If the Contractor fails to issue the Request for Information within seven (7) calendar days from receipt of the returned shop drawing, the Contractor shall have waived his right to any potential Change Order.

5.1.4 The Contractor shall submit shop drawings, coordination drawings, and schedules for review as required by the Contract Documents. The Contractor will provide a submittal schedule listing all shop drawings and submittals, the submission dates by the Contractor, and return dates from the Consultant. This schedule will be provided fourteen (14) calendar days after the Notice to Proceed.

5.1.5 Shop drawings and schedules, other than catalogs, pamphlets, and similar printed material, shall be submitted with one reproducible plus one copy.

5.1.6 Each shop drawing or coordination drawing shall have a blank area 4 by 4 inches located adjacent to the title block. The title block shall display the following:

- 1) Number and title of drawing
- 2) Date of drawing or revision
- 3) Name of project
- 4) Name of Contractor and (if appropriate) name of subcontractor submitting drawings
- 5) Clear identity of contents and location on the work
- 6) Project title and project number
- 7) Submittal number

5.1.7 Unless otherwise provided in this Contract or otherwise directed by Agency, shop drawings, coordination drawings, and schedules shall be submitted to the Consultant with a letter, sufficiently in advance of construction requirements to permit no less than twenty (21) calendar days for checking and appropriate action.

5.2 SAMPLES

5.2.1 After the award of the Contract, the Contractor shall deliver samples required by the specifications to the Agency for approval. The Contractor shall prepay any shipping charges. Any materials or equipment for which samples are required shall not be used in the Work until reviewed by Agency.

5.2.2 Each sample shall have a label indicating:

- 1) Name of project building or facility, project title, and project number.
- 2) Name of Contractor and, if appropriate, name of subcontractor.
- 3) Identification of material or equipment with specification requirement.
- 4) Place of origin.
- 5) Name of manufacturer and brand (if any).
- 6) Identify by specification section.

5.2.3 Samples of finished materials shall have additional markings that will identify them in reference to the finish schedules.

5.2.4 The Contractor shall mail a letter in triplicate under separate cover submitting each shipment of samples and containing the information required in paragraph 5.2.2. He shall enclose a copy of this letter with the shipment and send a copy to the Agency representative on the project.

Approval of a sample shall be only for the characteristics or use named in such review and shall not be construed to change or modify any Contract requirement. Substitutions will not be permitted unless they are approved under paragraph 5.3.

5.2.5 Approved samples not destroyed in testing will be sent to the Agency. Approved samples of hardware in good condition will be marked for identification and may be used in the Work. Materials and equipment incorporated in the Work shall match the approved samples. Other samples not destroyed in testing or not approved will be returned to the Contractor at his expense if so requested at time of submission.

5.2.6 Failure of any material to pass the specified tests will be sufficient cause for refusal to consider any further samples of the same brand or make of that material or equipment under this Contract.

5.2.7 Samples of various materials or equipment delivered on the site or in place, may be taken by the Agency for testing. Samples failing to meet Contract requirements will automatically void previous approvals of the items tested. The Contractor shall replace such materials or equipment found not to have met Contract requirements, or there shall be a proper adjustment of the Contract price as determined by the Agency.

5.2.8 Unless otherwise specified, when tests are required, only one test of each sample proposed for use will be made at the expense of the Agency. Samples which do not meet specification requirements will be rejected. Requests for testing of additional samples by Contractor may be made by the Agency at the expense of the Contractor.

5.3 SUBSTITUTIONS

Section 3400 of the Public Contracts Code, which is by this reference incorporated herein with like effect as if here set forth in full.

5.3.1 Wherever the name, or brand, or manufacturer of an article is specified in the Contract Documents, it is used as a measure of quality and utility or a standard. Except in those instances where the product is designated to match others presently in use, specifications calling for a designated material, product, thing or service by specific brand or trade name shall be deemed to be followed by the words "or equal" so that bidders may propose any equal material, product, thing or service in their bid. If the Contractor desires to use any other brand or manufacturer of equal quality and utility to that specified, he shall list definite particulars of that which he considers equivalent to the specified item in his bid. The Contractor shall have thirty-five (35) days after the award of the Contract for submission of data substantiating substitution of "equal" items. The Agency will then determine whether or not the proposed name brand or article is equal in quality and utility to that specified in the Contract Documents, and its written decision shall be final.

5.3.2 No proposal will be considered unless accompanied by complete information and descriptive data necessary to determine the equality of the offered materials, articles, or equipment. Samples shall be provided when requested by the Agency.

5.3.3 The burden of proof as to the comparative quality or suitability of the offered materials, articles, or equipment shall be upon the Contractor. The Agency shall be the sole judge as to such

matters. In the event that the Agency rejects the use of such alternative materials, articles, or equipment, then one of the particular products designated by brand name in the specifications shall be furnished.

5.3.4 The Agency will examine Contractor's submittals with reasonable promptness. Return of the submittals to the Contractor shall not relieve the Contractor from responsibility for deviations and alternatives from the Contract Documents nor shall it relieve him from responsibility for errors in the submittals. A failure by the Contractor to identify, in his letter of transmittal, material deviations from the Contract Documents shall void the submittal and any action taken thereon by the Agency. When specifically requested by the Agency, the Contractor shall resubmit such shop drawing(s), descriptive data, and samples as may be required.

5.3.5 If any mechanical, electrical, structural, or design revisions are required for the proper installation and fit of alternative materials, articles, or equipment, or because of deviations from the Contract Documents, such changes shall not be made without the consent of the Agency's authorized representative, and shall be made without additional cost to the Agency, such costs, including the fees of the Consultant, to be borne by the Contractor.

ARTICLE 6 SCHEDULES

6.1 CONSTRUCTION SCHEDULE

6.1.1 The Contractor shall prepare and submit to the Agency a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the salient features of the work (including acquiring materials and equipment). The schedule shall be in the form of a CPM (critical path method) schedule, of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. The scheduled completion date shall be the same as the contractual completion date, for the initial schedule and subsequent updates. Any proposed early completion date shall show the difference between that date and the contract completion date as Float, which shall belong to both the Agency and Contractor.

6.1.2 If, in the opinion of the Agency, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, without additional cost to the Agency. The Contractor shall submit any supplementary schedule or schedules in CPM form as the Agency deems necessary to demonstrate how the approved rate of progress will be regained.

6.1.3 All schedule updates must accurately reflect the as-built schedule. There shall be no change to the Critical Path without the Agency's written consent.

ARTICLE 7 TIME, LIQUIDATED DAMAGES AND EXTENSIONS

7.1 TIME OF WORK

The Contractor shall commence work on this project immediately upon receipt of the written Notice to Proceed and shall perform the work diligently to completion within the number of calendar days specified in the Contract. Neither site access nor physical work shall be commenced before the Contract is fully executed, and bonds, insurance and the schedule are submitted as

required by the Contract Documents. No work shall be done on Saturday, Sunday and holidays and no work shall be performed outside of normal working hours without the prior written consent of the Agency, unless required by these Specifications. See: Working Hours.

7.2 LIQUIDATED DAMAGES

If the Work is not completed within the time required, damage will be sustained by the Agency. It is and will be impracticable and extremely difficult to ascertain and determine actual damage which Agency will sustain by reason of such delay; and it is therefore agreed that Contractor will pay to Agency the sum of **\$1,000.00 per day** for each and every day's delay in finishing the Work beyond the time prescribed. If the Contractor fails to pay such liquidated damages, the Agency may deduct the amount thereof from any money due or that may become due the Contractor under the Contract.

7.3 UNAVOIDABLE DELAYS

7.3.1 TIME EXTENSION

a. The Contractor will be granted an extension of time for completion of the Work beyond that named in the Contract Documents, for delays which may result through causes beyond the control of the Contractor and which he could not have avoided by the exercise of care, prudence, foresight and diligence. The appropriate extension of time shall constitute full compensation. Costs associated with extended overhead will not be considered.

b. If the Contractor is allowed extensions of time in which to complete the Work equal to the sum of all unavoidable delays, plus any adjustments of contract time due to contract change orders, during such extension of time liquidated damages shall not be charged to the Contractor.

c. Unavoidable delays within the meaning of this section shall be those caused by Acts of God or of the public enemy, fire, epidemics, or strike. There will be no liquidated damages for delays as described within this paragraph.

d. Delays in the performance of parts of the work which may in themselves be unavoidable, but do not necessarily prevent or delay the performance of critical activity(s) while the activity(s) is on the Critical Path, will not be considered as unavoidable delays within the meaning of the contract and shall not be the basis of a claim for delay.

7.3.2 WEATHER

Inclement weather shall not be a prima facie reason for granting a time extension. The Contractor shall make every effort to continue work under prevailing conditions. However, if the inclement weather prevents the Contractor from beginning at the usual starting time, or prevents the Contractor from proceeding with seventy-five percent (75%) of the normal labor and equipment force towards completion of the day's current Critical Path activities (shown on the most current, and accepted schedule update) for a period of at least five (5) hours, and the crew is

dismissed as a result thereof, the Agency will designate such time as unavoidable delay and grant a one (1) calendar day, non-compensable, time extension.

7.3.3 NOTICE OF DELAYS

a. Whenever the Contractor foresees any delay in the performance of a Critical Path work activity, and in any event immediately upon the occurrence of any delay which he regards as an unavoidable delay, the Contractor shall notify the Agency in writing of such delay and its cause, in order that the Agency may take immediate steps to prevent, if possible, the occurrence or continuance of the delay, and may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the work are to be delayed thereby.

b. After the completion of any part or the whole of the Work, the Agency, in calculating the amount due the Contractor, will assume that any and all delays which have occurred have been avoidable delays, except such delays as shall have been called to the attention of the Agency at the time of their occurrence and found by the Agency to have been unavoidable as substantiated by a change order. The Contractor shall make no claims that any delay not called to the attention of the Agency in writing at the time of its occurrence has been an unavoidable delay.

7.4 REQUEST FOR TIME EXTENSION

7.4.1 In the event the Contractor requests an extension of contract time for unavoidable delay, justification shall be submitted no later than seven (7) calendar days after the initial occurrence of any such delay. When requesting time for proposed change orders, the request(s) must be submitted with the proposed change order with full justification. If the Contractor fails to submit justification he shall waive his right to a time extension at a later date. Justification must be based on the currently accepted contract schedule as updated at the time of occurrence of delay or execution of work related to any change(s) in the scope of work. The justification must include a schedule, including, but not limited to, the following information:

a. The duration to perform the activity relating to the change(s) in the work and the resources (manpower, equipment, material, etc.) required to perform these activities within the stated duration.

b. Logical activity ties to the contract schedule for the proposed changes and or delay showing the activity/activities in the schedule whose start or completion dates are affected by the change and or delay.

7.4.2 The Agency, after receipt of such justification and supporting evidence, shall make its finding of fact. The Agency's decision shall be final and conclusive and the Agency will advise the Contractor in writing of such decision. If the Agency finds that the Contractor is entitled to any extension of Contract time, the Agency's determination as to the total number of days of extension shall be based upon the latest updated version of the approved contract schedule.

7.4.3 In the event the Contractor disagrees with the Agency's decision, the Contractor shall be required to submit a claim pursuant to the DISPUTE article.

ARTICLE 8 PERFORMANCE

8.1 SUPERVISION & CONSTRUCTION PROCEDURES

8.1.1 The Contractor shall supervise and direct the work. The Contractor shall be solely responsible for all construction means, methods, techniques, sequences, procedures, project safety, and shall coordinate all portions of the Work under the Contract, including the relations of the various trades to the progress of the Work, in accordance with the provisions of the Contract Documents.

8.1.2 The Contractor shall be responsible to the Agency for the acts and omissions of the Contractor's employees, subcontractors, and their agents and employees, and any other persons performing any of the work under a contract with the Contractor.

8.1.3 The Contractor is an independent contractor and nothing in the Contract Documents shall be interpreted to make the Contractor an agent of the Agency.

8.2 SUPERVISION

8.2.1 Within seven (7) days after the Notice to Proceed, the Contractor shall provide to the Agency an organization chart outlining key job personnel. The Contractor will also provide a Letter of Authority or Corporate Resolution for the individual(s) authorized to sign documents on its behalf, i.e., payment requests, change orders, inspection reports, etc.

8.2.2 The Contractor shall employ, during the progress of the Work, a competent Project Superintendent and any necessary assistants, as approved by the Agency. The Project Superintendent shall not be changed except with the consent of the Authorized Representative of Agency, unless the Superintendent proves to be unsatisfactory to the Contractor or ceases to be in his employ. The Agency shall be notified immediately of any new Superintendent appointed to the Work and the Contractor shall submit qualifications for approval. The Superintendent shall represent the Contractor and all directions given to him shall be as binding as if given to the Contractor.

8.2.3 The Agency shall be supplied at all times with the name and telephone number of a person in charge of or responsible for the Work, who can be reached for emergency work twenty-four (24) hours a day, seven (7) days a week.

8.3 CONDUCT OF WORK

8.3.1 In connecting one kind of work with another, marring or damaging same will not be permitted and, in the event such occurs, shall be corrected by the Contractor at its cost prior to acceptance by the Agency. Should improper work of any trade be covered by another which results in damage or defects, the whole work affected shall be made good by the Contractor without expense to Agency.

8.4 PROTECTION OF WORK & PROPERTY

8.4.1 The Contractor shall continuously maintain adequate protection of the Work from damage and shall protect the Agency's property from injury or loss in connection with this Contract. He shall make good any such damage, injury, or loss, except what may be directly due to errors in the Contract Documents or caused by agents or employees of the Agency. He shall adequately protect adjacent property as provided by law and the Contract Documents.

8.4.2 The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the Work sites which are not to be removed unless authorized in writing by Agency to do so, and which do not unreasonably interfere with the work required under this Contract.

8.4.3 The Contractor shall protect from damage all existing improvements, benchmarks, monuments, and utilities at or near the Work site and on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this Contract or failure to exercise reasonable care in performing the Work. If the Contractor fails to repair the damage promptly, the Agency may have the necessary work performed and charge the cost to the Contractor.

8.4.4 Before final payment remove all surplus materials, false work, temporary structures, debris, and similar matter resulting from his operations from the site and to put the site in an orderly condition.

8.4.5 Construct, operate, secure, and maintain all passageways, guard fences, lights, barricades and other facilities required for protection by State or municipal laws and regulations and local conditions during the course of the work.

8.5 CONTRACTOR'S RESPONSIBILITY FOR WORK

8.5.1 Until Acceptance of the Work by the Agency, Contractor shall have the charge and care thereof and shall bear risk of injury or damage to any part of the Work by action of the elements. If a separate Contractor sues the Owner, on account of any loss so sustained, the Agency shall notify the Contractor, who shall indemnify and hold harmless the Agency against any expenses, or judgment arising there from.

8.5.2 Contractor, at its cost, shall rebuild, repair, restore and make good all damages from the elements to any portion of the Work occasioned by such causes before its Acceptance.

8.5.3 No advertising of any description will be permitted in or about the Work, except by order of the Agency.

8.5.4 Contractor shall not create or permit the continued existence of any nuisance in or about the Work.

8.6 UTILITIES

8.6.1 Unless otherwise provided for under separate sections herein, Contractor will arrange all water, gas, and electricity required for construction purposes until acceptance of the Work. Contractor shall pay for such services unless otherwise specifically noted.

8.6.2 Utilities shall not be interrupted except with the approval of the Agency. A two (2) work day written notice is required prior to any and all interruptions. Interruptions shall be scheduled so as to minimize duration and disruption to existing operations.

8.6.3 a. The Contractor shall send notices, make all necessary arrangements, and perform all other services required in the care and maintenance of all public utilities.

b. Enclosing or boxing in, for protection of any public utility equipment, shall be done by the Contractor. Upon completion of the Work, the Contractor shall remove all enclosures, and leave in a finished condition.

c. All connections to public utilities shall be made and maintained in a manner so as not to interfere with the continuing use of same by the Agency during the entire progress of the Work.

8.7 WORKING HOURS

8.7.1 All work shall be performed on a calendar day basis during the customary working hours of the trades involved unless otherwise specified in this Contract. Work performed by the Contractor of his own volition outside such established working hours shall be at no additional expense to the Agency and without Agency approval.

8.7.2 It is expressly stipulated that no laborer, workman, or mechanic employed at any time by the Contractor or by any subcontractor(s) under this Contract upon the Work or any part thereof, shall be required or permitted to work thereon more than eight (8) hours during any one calendar day and forty (40) hours during any one calendar week, except, as provided by Section 1815 of the California Labor Code. It is further expressly stipulated that for each and every violation of Sections 1811-1815, inclusive, of the California Labor Code, all the provisions of which are deemed to be incorporated herein, said contractor shall forfeit, as a penalty to Agency, twenty-five dollars (\$25.00) for each laborer, workman, or mechanic employed in the execution of this Contract by contractor for each calendar day during which said laborer, workman, or mechanic is required or permitted to work more than eight hours in any one calendar day and forty hours in any one calendar week in violation of the provisions of said Sections of the Labor Code.

8.7.3 The Contractor, and each subcontractor, shall keep an accurate record showing the names of and actual hours worked each calendar day and each calendar week by all laborers, workmen, and mechanics employed by them in connection with the Work contemplated by this Contract, which record shall be open at all reasonable hours to the inspection of the Agency or its officers or agents and to the Division of Labor Standards Enforcement of the Department of Industrial Relations.

8.7.4 No construction work shall be done on Saturdays, Sundays or Agency holidays and no work shall be performed outside of normal working hours without the prior written consent of the Agency. In any event, all work shall be subject to approval of the Agency. Prior to start of such work, the Contractor shall arrange with the Agency for the continuous or periodic inspection of the Work and testing of materials, when necessary. If requests are made by the Contractor for permission to work overtime, nights, Saturdays, Sundays or Agency holidays, and such requests are granted, the Contractor shall bear all extra expense to the Agency for inspection and other incidental expenses caused by such overtime work. If contractors are requested, in the interest of the Agency, to work overtime by the Agency, or if overtime work is specifically required by these specifications, all extra expense of inspection will be paid by the Agency.

8.8 MATERIAL & EQUIPMENT

8.8.1 Materials, equipment, and articles incorporated into the Work shall be new and of equal quality to the types and grades specified. When not particularly specified, the Contractor shall submit for approval satisfactory evidence as to the kind and quality of material. See SUBSTITUTION provision 5.3 concerning "or equal" requirements and procedure for submitting alternative material, articles, or equipment. Contractor agrees to submit bid proposal for the Engineer's established materials and quantity plus ten percent (10%).

8.8.2 All materials shall be delivered so as to insure a speedy and uninterrupted progress of the Work. All materials shall be stored so as to cause no obstruction and so as to prevent overloading of any portion of the structure on the Work site, and the Contractor shall be entirely responsible for damage or loss by weather, theft, vandalism, or other cause.

8.8.3 Materials shall be stored to assure the preservation of their quality and fitness for the Work. Stored materials shall be reasonably accessible for inspection. When considered necessary by the Agency, stored materials shall be placed on wooden platforms or on other hard, clean surfaces and not directly on the ground, and shall be placed under cover when so directed.

8.9 LAYOUT OF WORK

8.9.1 The Contractor shall lay out its work from established base lines and bench marks indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, material, and labor required to lay out any part of the Work. The Contractor shall be responsible for executing the Work to the lines and grades that may be established or indicated in the Contract Documents. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the County or Agency until authorized to remove them. If such marks are destroyed by the Contractor before their removal is authorized, the Agency may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

8.10 USE OF PREMISES

8.10.1 The Contractor shall maintain the entire premises under his control in an orderly condition. He shall store his apparatus, materials, supplies and equipment in such a manner as will not

interfere with the progress of his work or the work of other contractors. The Agency is not liable for the theft or damage to Contractor's or subcontractor's materials and equipment.

8.11 OPERATIONS & STORAGE

8.11.1 The Contractor shall confine all operations (including storage of materials) on Agency premises to areas authorized or approved by the Agency.

8.11.2 Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the Agency and shall be built with labor and materials furnished by the Contractor without expense to the Agency. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at his expense upon completion of the work.

8.11.3 The Contractor shall, under regulations prescribed by the authority having jurisdiction, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the authority having jurisdiction. When materials are transported in performance of the Work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or County regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair, or pay for the repair, of any damaged curbs, sidewalks, or roads.

8.12 HEAT/POWER/LIGHT

8.12.1 Unless otherwise specified or already provided by the Agency, the Contractor shall:

- a. Provide heat, as necessary to protect all work, materials, and equipment against injury from dampness and cold;
- b. Provide heat as necessary in the area where work is to be done to provide the minimum temperature recommended by the supplier or manufacturer of the material;
- c. Provide electric power and light as required for performance of the Work.

8.13 CLEANING UP

8.13.1 The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. Before completing the Work, the Contractor shall remove from the work and premises any weeds, rubbish, tools, scaffolding, equipment, and materials that are not the property of the Agency. Upon completing the Work, the Contractor shall leave the work area in a clean, neat, and orderly condition satisfactory to the Agency.

ARTICLE 9 SAFETY & HEALTH

9.1 ACCIDENT PREVENTION

9.1.1 In performing this Contract, the Contractor shall provide for protecting the lives and health of employees and other persons; preventing damage to property, materials, supplies, and

equipment; and avoiding work interruptions. For these purposes, the Contractor shall:

- a. Provide a copy of its safety program;
- b. Provide appropriate safety barricades, signs, and signal lights;
- c. Comply with standards issued by the U.S. Government, State, County and City, and other governing agencies having jurisdiction;
- d. Ensure that any additional measures the Agency determines to be reasonably necessary for this purpose are taken.

9.1.2 The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this Contract resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment. The Contractor shall report this data in the manner prescribed by the Agency.

9.1.3 Before beginning excavation for a trench 5 feet or more in depth, Contractor shall provide evidence of having obtained a permit from the authority having jurisdiction.

9.1.4 Nothing herein shall be deemed to allow use of shoring, sloping, or protective systems less effective than those required by the Construction Safety Orders of the California Division of Industrial Safety.

9.2 SANITARY FACILITIES

9.2.1 Contractor shall supply and maintain at its expense such toilets and other sanitary facilities including those which are accessible by the disabled as per ADA and Title 24 requirements necessary for use by visitors and workers employed at the job site. Such facilities shall be approved by the County and Agency.

9.3 RESPONSIBILITY FOR COMPLIANCE WITH CAL-OSHA

9.3.1 All work, materials, work safety procedures and equipment shall be in full accordance with the latest Cal-OSHA rules and regulations.

9.3.2 Contractor warrants that he and each of his subcontractors shall, in performance of this Contract, comply with each and every compliance order issued pursuant to Cal-OSHA. The Contractor assumes full and total responsibility for compliance with Cal-OSHA standards by his subcontractors as well as himself. The cost of complying with any order and or payment of any penalty assessed pursuant to Cal-OSHA shall be borne by the Contractor. Nothing contained therein shall be deemed to prevent the Contractor and his subcontractors from otherwise allocating between themselves responsibility for compliance with Cal-OSHA requirements; provided, however, that the Contractor shall not thereby, in any manner whatsoever, be relieved of his responsibility to the Agency as herein set forth.

9.4 TOXIC AND HAZARDOUS MATERIALS AND WASTE

9.4.1 ASBESTOS

Operations which may cause release of asbestos fibers into the atmosphere shall meet the requirements of Title 8 CCR General Industrial Safety Orders, Section 5208 and California law. Some operations which may cause such concentrations include sanding, grinding, abrasive blasting, sawing, drilling, shoveling, or otherwise handling materials containing asbestos so that dust will be raised.

9.4.2 TOXIC MATERIALS

Operations which release toxic materials into the atmosphere shall meet the requirements of Title 8 CCR. General Industrial Safety Orders. Some operations which may release such materials include use of adhesives, sealants, paint, and other coatings.

9.4.3 LEAD-BASED PAINT

Lead-based paint is prohibited. Lead-based paint is defined as:

- a. Any paint containing more than five-tenths of one percentum lead by weight (calculated as lead metal in the total non-volatile content of the paint) or the equivalent measure of lead in the dried film of paint applied or both; or
- b. For paint manufactured after June 22, 1977, any paint containing more than six one-hundredths of one per centum lead by weight (calculated as lead metal) in the total content of the paint or the equivalent measure of lead in the dried film or paint already applied.

9.4.4 HAULING AND DISPOSAL

All hauling and disposal shall meet requirements of Title 22 CCR, Division 4. Chapter 30, "Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes."

9.4.5 ASBESTOS PROHIBITED

No products or materials containing asbestos shall be incorporated into the Work without the prior written approval of the Agency.

ARTICLE 10 AGENCY/COUNTY-FURNISHED PROPERTY

10.1 AGENCY/COUNTY -FURNISHED PROPERTY

10.1.1 The Agency may furnish to the Contractor property as identified in the specification(s) to be incorporated or installed into the Work or used in performing the Contract. The listed property will be furnished f.o.b. railroad cars at the place specified in the Contract or f.o.b. truck at the project site. The Contractor is required to accept delivery. When the property is delivered, the Contractor

shall verify its quantity and condition and acknowledge receipt in writing to the Agency within twenty-four (24) hours of delivery, also specifying any damage to or shortage of the property as received. All such property shall be installed or incorporated into the Work at the expense of the Contractor, unless otherwise indicated in this Contract.

10.1.2 Each item of property to be furnished under this clause shall be identified by the Contractor in a schedule by quantity, item, and description. Schedule form will be provided by the Agency.

10.1.3 The Contractor shall be held responsible for all material delivered to him and deductions will be made from any moneys due him to make good any shortages and deficiencies, from any cause whatsoever, which may occur after such delivery.

10.1.4 The Contractor shall set up accounting records and establish an inspection procedure as approved by the Agency.

ARTICLE 11 BENEFICIAL OCCUPANCY

11.1 BENEFICIAL OCCUPANCY

11.1.1 The Agency shall have the right to take possession of or use any completed or partially completed portion of the Work. The Agency's possession or use shall not be deemed an acceptance of any Work under the Contract. The Contractor will continue to pay for any portion of the utilities which he is using.

11.1.2 While the Agency has such possession or use, the Contractor shall be relieved of the responsibility for the loss of or damage to that portion of the Work resulting from the Agency's possession or use. If Contractor believes the partial possession or use by the Agency will delay the progress of the Work or will cause additional expense to the Contractor, Contractor shall immediately submit a written request for an equitable adjustment in the Contract price or the time of completion. Agency will then consider such request and, if in its judgment it is justified, the Agency will modify the contract in writing accordingly. In the event the Contractor disagrees with the Agency's decision, the Contractor shall be required to submit a claim pursuant to the DISPUTE article.

ARTICLE 12 INSPECTION AND TESTING

12.1 INSPECTION AND TESTING

12.1.1 The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work called for by this Contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Agency. The Agency shall at all times have access to the Work, and the Contractor shall provide proper facilities for such access and for inspection.

12.1.2 Agency inspections and tests are for the sole benefit of the Agency and do not:

- a. Relieve the Contractor of responsibility for providing adequate quality control measures;

- b. Relieve the Contractor of responsibility for damage to or loss of the material before Acceptance;
- c. Constitute or imply Acceptance; or
- d. Affect the continuing rights of the Agency after Acceptance regarding latent defects, gross mistakes, fraud or the Agency's rights under any warranty or guarantee.

12.1.3 The presence or absence of an Agency inspector does not relieve the Contractor from any Contract requirement, nor is the inspector authorized to change any term or condition of the specifications without the Agency's written authorization.

12.1.4 The Contractor shall promptly furnish, without additional charge, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Agency. The Agency may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. Special, full size, and performance tests shall be performed as described in the Contract.

12.1.5 The Contractor shall, without charge, replace or correct work found by the Agency not to conform to contract requirements, unless in the public interest the Agency consents to accept the work with an appropriate adjustment in Contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

12.1.6 If, before Acceptance of the Work, the Agency decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet Contract requirements, the Agency shall issue a Change Order for such removal and reinstallation.

12.1.7 The Contractor shall at all times maintain proper facilities and provide safe access for inspection by the Agency to all parts of the work, and to the shops wherein the work is in preparation. Where the specifications require work to be specially tested or approved, it shall not be tested or covered up without timely notice to the Agency of its readiness for inspection and without the approval or consent of Agency. Should any such work be covered up without such notice, approval, or consent, it must, if required by Agency, be uncovered for examination at the Contractor's expense.

12.1.8 The Contractor shall notify the Agency at least one (1) work day in advance of the time scheduled for the inspection. Should the Contractor fail to notify the Agency and proceed with work requiring inspection, all such work is rejected, and no further work shall be done on that portion of the project until the rejected work is accepted by the Agency. Should the Contractor request acceptance of such rejected work the Agency shall, at the Contractor's expense, secure the services of private material testing laboratories, consulting engineers or licensed land surveyors,

who shall certify that said work does in fact conform to the requirements of the Contract Documents. The work previously rejected shall be accepted by the Agency after receipt of such certification if the Agency approves of such certification.

12.1.9 If the Contractor does not promptly replace or correct rejected work, the Agency may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor or (2) terminate for default the Contractor's right to proceed.

12.1.10 Construction review of the Contractor's performance by the Agency is not intended to include the review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

12.1.11 The Agency will pay for initial testing services specified to be performed by the Agency. When initial tests indicate non-compliance with the Contract Documents, subsequent retesting occasioned by the non-compliance shall be performed by the same testing agency, and costs thereof will be deducted by the Agency from the Contract sum.

12.2 INSPECTION BY OTHER JURISDICTIONS

Whenever any part of the Work to be performed is under the jurisdiction or control of another public entity, including but not limited to: The United States Government, State of California, County of Riverside or City, such work shall be subject to inspection by the officials of such entities and it must pass inspection, in addition to Agency inspection, and such other inspections as may otherwise be provided for in the Contract Documents.

12.3 FINAL INSPECTION AND TESTS

The Contractor shall give the Agency at least ten (10) calendar days advance written notice of the date the Work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started within ten (10) calendar days from the date specified in the aforementioned notice unless the Agency determines that the Work is not ready for final inspection and so informs the Contractor.

ARTICLE 13 ACCEPTANCE

13.1 ACCEPTANCE OF THE WORK

13.1.1 After the final inspection by Agency and all the contract documentation has been received, it will be recommended to the Agency Board of Directors to accept the Work and file a Notice of Completion. Upon approval of the Notice of Completion, a copy will be sent to the Contractor. (See final payment clause.) Upon Acceptance of the Work, Contractor will be relieved of the duty of maintaining and protecting the Work. Neither determination by the Agency that the Work is complete, nor Acceptance thereof, shall operate as a bar to Agency's claim against Contractor pursuant to Contractor's warranty and guarantees.

13.1.2 Partial payments shall not be construed as acceptance of any part of the Work.

13.1.3 In judging the Work, no allowance for deviations from the drawings and specifications will be made, unless already approved in writing at the time and in the manner as called for herein.

13.1.4 The Acceptance of the Work will not be recommended until all requirements of the Contract Documents are complete and approved by the Agency. This shall include, but is not limited to, all construction, guarantee forms, parts lists, schedules, tests, operating instructions, as-built drawings, and all other documentation identified by the Contract Documents.

ARTICLE 14 WARRANTY AND GUARANTEES

14.1 CONTRACTOR'S WARRANTY AND GUARANTEE

14.1.1 Contractor warrants that all materials and equipment furnished under this Contract shall be new unless otherwise specified, and that all Work performed under this Contract conforms to the Contract requirements and is free of any defect whether performed by the Contractor or any subcontractor or supplier.

14.1.2 This warranty shall continue for a period of one (1) year from the date of filing of Notice of Completion on the Work. The Performance Bond shall remain in force during the warranty period.

14.1.3 The Contractor shall remedy at the Contractor's expense any damage to the Agency and County-owned or controlled real or personal property, when that damage is the result of:

- a. The Contractor's failure to conform to Contract requirements or
- b. Any defect of equipment, material, workmanship, or design furnished by the Contractor.

14.1.4 The Contractor shall restore any work damaged in fulfilling the terms and conditions of this Article. The Contractor's warranty with respect to work repaired or replaced will run for one (1) year from the date of repair or replacement.

14.1.5 The Agency shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage. The Contractor shall within ten (10) calendar days after being notified in writing by the Agency of any work not in accordance with the requirements of the Contract or any defects in the Work, commence, and perform with due diligence, all work necessary to fulfill the terms of this Article. If the Contractor fails to remedy any defect, or damage within fourteen (14) calendar days after receipt of notice, the Agency shall have the right to replace, repair, or otherwise remedy the defect, or damage at the Contractor's expense. Payment due to the Consultant from the Agency for extra design services required in the enforcement of Contractor's guarantee after Acceptance of the Work shall be paid to the Agency by the Contractor.

14.1.6 In the event of any emergency constituting an immediate hazard to health or safety of County and Agency employees, property, or licensees, when caused by work of the Contractor that is not in accordance with the Contract requirements, the Agency may undertake at Contractor's expense and without prior notice, all work necessary to correct such hazardous condition(s).

14.1.7. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this Contract, the Contractor shall:

- a. Obtain all warranties that would be given in normal commercial practice;
- b. Require all warranties to be executed, in writing, for the benefit of the County and Agency, unless directed otherwise by the Agency; and
- c. Enforce all warranties for the benefit of the County and Agency, unless otherwise directed by the Agency.

14.1.8 This warranty shall not limit the Agency's rights under the Inspection and Acceptance section(s) of this Contract with respect to latent defects, gross mistakes, or fraud.

ARTICLE 15 ENVIRONMENTAL PROTECTION

15.1 DUST CONTROL

15.1.1 The Contractor shall provide any and all dust control required.

15.1.2 Whenever the Contractor is negligent in providing dust control, the Agency shall order the Contractor to provide such dust control. If the Contractor does not comply promptly with such order, the Agency shall have the authority to provide such dust control and charge the Contractor therefore by deducting the cost from progress payments to the Contractor as such costs are incurred by the Agency. The Agency shall not be held responsible for schedule delays due to actions taken by Agency to mitigate the failure of the Contractor in providing dust control.

The Contractor is cautioned that failure to control fugitive dust may result in fines being levied by the South Coast Air Quality Management District to both the Contractor and the County of Riverside, as owner. The Contractor shall be fully responsible for payment of all fines pertaining to air pollution control violations, resulting from Contractor's operations related to the construction contract, which may be levied against both the Contractor and the County of Riverside by the AQMD or other regulatory agencies. The contractor's attention is directed to Section 7-1.01 "Laws to be Observed" of the Standard Specifications. The cost of all fines levied against the County of Riverside will be deducted from any moneys due or which may become due to the Contractor, unless other payment arrangements are made by the Contractor.

Dust control of all of the Contractor's operations is required 24 hours per day, 7 days a week for the duration of the contract, and until the disturbed soil is permanently stabilized. The Contractor shall take every precaution to prevent emissions of fugitive dust from the project site, from locations of stockpiled materials, from unpaved driving surfaces, from haul vehicles, from inactive construction areas, and from all other operations of the Contractor. The Contractor shall plan for and carry out proper and efficient measures to prevent his operations from producing dust in amounts damaging to property or which constitute a public nuisance, or which cause harm to persons living or working in the vicinity of the work. Of particular concern are emissions of PM10 particles, which are fine particulate matter of 10 microns or less and which are associated with sickness and death from respiratory disease.

The Contractor shall furnish and post dust mitigation signs, which shall be, at a minimum, in accordance with the "AQMD Signage Recommendations", attached hereto. Additional copies are available upon request from the Engineer. The sign shall include the Contractor's phone number which shall be maintained on a 24 hour basis. The sign message, size and design, including any deviations from the signage recommendations, shall be approved by the engineer prior to fabrication. The Contractor shall respond to complaints by mobilizing equipment and personnel at the construction site within 2 hours of each complaint to control fugitive dust.

Attention is directed to AQMD Rule 403.1, which applies to all contracts within the Coachella Valley area of Riverside County. That AQMD rule requires the Contractor to take specified dust control actions when prevailing wind speeds exceed 25 miles per hour. Wind forecasts, AQMD Rules and other related information are provided by AQMD at 1-800-CUT-SMOG and at www.aqmd.gov.

Any days on which the Contractor is prevented from working, due to the requirements of AQMD rules, will be considered as non-working days, in accordance with Section 8-1.06 "Time of Completion" of the Standard Specifications.

The Contractor shall utilize the "Best Available Control Measures" of controlling fugitive dust, as prepared by the AQMD. For projects within the Coachella Valley, the "Reasonably Available Control Measures" may be employed, if effective within the context of the AQMD rules. However, if fugitive dust crosses the project boundary, more effective control measures, including the "Best Available Control Measures" shall be implemented.

A site-specific fugitive dust control plan shall be submitted to the Consultant and Agency for review and approval at least **10 days** prior to the start of construction. Additionally, for projects outside of the Coachella Valley which meet the criteria for AQMD plan approval, the Contractor shall submit the dust control plan to AQMD for approval. AQMD plan submittal criteria is defined in AQMD Rule 403 as being for projects that will have disturbed surface area in excess of 100 acres, or for projects with a scope of work which requires the movement of more than 10,000 cubic yards of soil on each of any three working days.

A sample plan and other pertinent information is attached, and additional copies are available from the Engineer upon request. The fugitive dust control plan shall include the "Reasonably Available Control Measures" and "Best Available Control Measures" of controlling fugitive dust, as may be appropriate and necessary, including but not limited to watering, application of chemical dust suppressants, wind fencing, covering of haul vehicles, haul vehicle bed-liners, covering or chemically stabilizing stored materials, phased grading, planting of vegetation, the use of a 24 hour environmental observer, and track-out controls at locations where unpaved construction accesses intersect with paved roads. The use of chemical stabilizers, which are approved by all environmental regulatory agencies, and the use of reclaimed water is encouraged. If water is intended as a primary dust control tool, the dust control plan shall provide for at least one 2,000 gallon water truck for every 4 acres of disturbed soil, unless otherwise approved by the Engineer.

If the Construction Engineer determines that the project scope and the forecasted weather conditions are such that the Contractor's work is unlikely to be a source of dust emissions, the Construction Engineer has the authority to waive the requirements for submittal of a dust

control plan and for placement of the dust control signs described herein. However, the Contractors responsibilities for the control of fugitive dust and the other requirements of this section may not be waived.

A completion notice will not be filed, and final payment will not be made to the Contractor until the areas of disturbed soil on the construction site, including roadway shoulders, are suitably stabilized for long term control of fugitive dust. **The successful contractor shall attend an AQMD PM10 Dust Control Program training session, and furnish evidence of attendance to the Engineer.** Attendance at AQMD training seminars can be scheduled through AQMD at 1-866-861-DUST (1-866-861-3878) or by email to dustcontrol@aqmd.gov . Current AQMD certification of previous attendance will be accepted. At that training session, the successful Contractor will be furnished with the AQMD prepared Rule 403 and Rule 403.1 implementation handbooks, which include the "Best Available Control Measures" and "Reasonably Available Control Measures", and other associated information, including a listing of suggested dust control related devices, materials and chemicals.

The signature of the Contractor on the Proposal constitutes acknowledgement by the Contractor of the dust control requirements established by law and described herein, and the enforceability of those requirements.

When the contract includes a bid item for Dust Abatement, full compensation for conformance with these dust abatement requirements, including labor, equipment, materials, developing water supply and incidentals, shall be paid under the Bid Item "Dust Abatement" on a lump sum basis, up to the fixed bid price, for the work performed.

When the contract does not include a bid item for Dust Abatement, full compensation for conformance with these dust abatement requirements, including labor, equipment, materials, developing water supply and incidentals, shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

15.2 EXCESSIVE NOISE

15.2.1 The Contractor shall use only such equipment on the Work and in such state of repair that the emission of sound therefrom is within the noise tolerance level of that equipment as established by CAL-OSHA.

15.2.2 Should the Agency determine that the muffling device on any equipment used on the Work is ineffective or defective so that the noise tolerance of such equipment is exceeded, such equipment shall not, after such determination by the Agency, be used on the Work until its muffling device is repaired or replaced so as to bring the noise tolerance level of such equipment within such standards.

15.3 POLLUTION CONTROL, CLEANING

15.3.1 The Contractor shall not, in connection with the Work, discharge any smoke, dust, or other contaminants into the atmosphere which are in violation of South Coast Air Quality Management District standards or discharge any fluids or materials into any lake, river, stream, or channel as will violate regulations of State of California Water Resources Board. The Contractor shall control

accumulation of waste materials and rubbish and dispose of waste materials and rubbish off-site at a minimum of weekly intervals. Burning of materials is not permitted.

ARTICLE 16 EMPLOYMENT PRACTICES

16.1 QUALIFICATIONS FOR EMPLOYMENT AND APPRENTICESHIP STANDARDS

16.1.1 In accordance with Section 1735 of the California Labor Code, no person under the age of 16 years and no person currently serving sentence in a penal or correctional institution shall be employed to perform any Work under this Contract. No person whose age or physical condition is such as to make his employment dangerous to his health or safety or to the health or safety of others shall be employed to perform Work under this Contract; provided that this requirement shall not operate against any physically handicapped persons otherwise employable where such persons may be safely assigned to Work which they ably perform.

16.1.2 This contract is subject to the provisions of Sections 1777.5 and 1777.6 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under him. Section 1777.5 as amended, requires the Contractor or subcontractor employing tradesmen in any apprenticeable occupation to apply to the Joint Apprenticeship Committee nearest the site of this project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used in the performance of the Contract.

16.1.3 The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making contributions.

16.1.4 All employees engaged in work on the project under this Contract shall have the right to organize and bargain collectively through representatives of their own choosing, and such employees shall be free from interference, restraint, and coercion of employers in the designation of such employees for the purpose of collective bargaining or other mutual aid or protection, and no person seeking employment under this Contract shall be required as a condition of initial or continued employment to join any company, union, or to refrain from joining, organizing, or assisting a labor organization of such person's own choosing. No person in the employment of the Agency or County shall be employed by this contractor.

16.2 WAGES & RECORDS

16.2.1 WAGE RATES

a. Pursuant to Section 1770 and 1773 et seq. of the Labor Code of the State of California, the Director of Industrial Relations has ascertained the general prevailing rate of per diem wages and the rates for overtime and holiday work in the locality in which the work is to be performed for each craft, classification, or type of workman needed to execute the contract which will be awarded to the successful bidder, copies of which are on file and available upon request at the Clerk of the Board, Board of Supervisors, 4080 Lemon St., 1st Floor, Riverside, CA 92501-3655, and shall be posted at the job site.

b. It shall be mandatory upon the Contractor and upon any subcontractor under him, to pay not less than the said specified rates to all laborers, workmen, and mechanics employed in the execution of the Contract. It is further expressly stipulated that the Contractor shall, as a penalty to Agency, forfeit twenty-five dollars (\$25.00) for each calendar day, or portion thereof, for each laborer, workman, or mechanic paid less than the stipulated prevailing rates for any work done under this Contract by him or by any subcontractor under him; and Contractor agrees to comply with all provisions of Section 1770 et. seq. of the Labor Code.

c. In case it becomes necessary for the Contractor or any sub-contractor to employ on the project under this Contract any person in a trade or occupation (except executives, supervisory, administrative, clerical, or other non-manual workers as such) for which no minimum wage rate is herein specified, the Contractor shall immediately notify the Agency who will promptly thereafter determine the prevailing rate for such additional trade or occupation and shall furnish the Contractor with the minimum rate based thereon. The minimum rate thus furnished shall be applicable as a minimum for such trade or occupation from the time of the initial employment of the person affected and during the continuance of such employment.

d. The Agency will not recognize any claim for additional compensation because of the payment by the Contractor of any wage rate in excess of the prevailing wage rate set forth as provided herein. The possibility of wage increases is one of the elements to be considered by the Contractor in determining his bid, and will not under any circumstances be considered as the basis of a claim against the Agency or County on the Contract.

16.2.2 WAGE RECORDS

a. The Contractor and each subcontractor shall keep or cause to be kept an accurate record (certified payroll) showing the names and occupations of all laborers, workers, and mechanics employed by him in connection with the execution of this Contract or any subcontract thereunder. The record shall show the actual per diem wages paid to each of said workers, which records shall be provided to the Agency, and to the Division of Labor Standards Enforcement upon its request. Copies provided will include one which has the name and social security numbers marked out.

16.3 NOTICE OF LABOR DISPUTES

16.3.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this Contract, the Contractor shall immediately give notice, including all relevant information, to the Agency.

16.3.2 The Contractor agrees to insert the substance of this clause, including this paragraph into any subcontract in which a labor dispute may delay the timely performance of this Contract; except that each subcontract shall provide that in the event its timely performance is delayed or threatened by delay by any actual or potential labor dispute, the subcontractor shall immediately notify the next higher tier subcontractor or the prime Contractor, as the case may be, of all relevant information concerning the dispute.

16.4 NONDISCRIMINATION

16.4.1 EQUAL EMPLOYMENT OPPORTUNITY

a. Contractor agrees for the duration of this Contract that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, age, political affiliation, marital status, or handicap. The Contractor will take affirmative action to insure that employees are treated during employment or training without regard to their race, color, religion, sex, national origin, age, political affiliation, marital status, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

b. The Contractor will in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, political affiliation, marital status, or handicap.

c. The Contractor will send to each labor union or other representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the workers' representative of the Contractor commitments under this agreement.

d. The Contractor agrees that it will comply with the provisions of Titles VI and VII of the Civil Rights Act, Revenue Sharing Act Title 31, U.S. Code Section 2716, and California Government Code Section 12990.

e. The Contractor agrees that it will assist and cooperate with the Agency, County, the State of California and the United States Government in obtaining compliance with the equal opportunity clause, rules, regulations, and relevant orders of the State of California and United States Government issued pursuant to the Acts.

f. In the event of the Contractor's non-compliance with the discrimination clause, the affirmative action plan of this contract, or with any of the said rules, regulations or orders, this Contract may be canceled, terminated, or suspended in whole or in part by the Agency.

16.4.2 HANDICAPPED NON-DISCRIMINATION

This project is subject to Section 504 of the Rehabilitation Act of 1973 as amended, (29 U.S.C. 794), and the Americans with Disabilities Act of 1990, as amended, and all requirements imposed by the guidelines and interpretations issued thereto. In this regard, the Agency and all of its contractors and subcontractors will take all reasonable steps to ensure that handicapped individuals have the maximum opportunity for the same level of aid, benefit or service as any other individual.

16.4.3 FAIR EMPLOYMENT AND HOUSING ACT ADDENDUM

In the performance of this Contract, the Contractor will not discriminate against any employee or Applicant for employment because of race, sex, color, religion, ancestry, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, sex, color, religion, ancestry, or national origin. Such action shall include, but not limited to, the following: employment, upgrading, promotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State or local agency setting forth the provisions of this Fair Employment and Housing Section.

16.4.4 ACCESS TO RECORDS

The Contractor will permit access to its records of employment, employment advertisements, application forms, and other pertinent data and records by the State Fair Employment and Housing Commission, or any other agency of the State of California designated by the awarding authority, for the purposes of investigation to ascertain compliance with the Fair Employment and Housing section of this Contract.

16.4.5 REMEDIES FOR WILLFUL VIOLATION

The State or local agency may determine a willful violation of the Fair Employment and Housing provision to have occurred upon receipt of a final judgment having that effect from a court in an action to which Contractor was a party, or upon receipt of a written notice from the Fair Employment and Housing Commission that it has investigated and determined that the Contractor has violated the Fair Employment and Housing Act and has issued an order or obtained an injunction under Government Code Sections 12900, et seq.

ARTICLE 17 SUBCONTRACTING

17.1 SUBCONTRACTORS

17.1.1 A subcontractor is an individual, firm or corporation having a direct contract with the Contractor or with any other subcontractor for the performance of a part of the Work. In accordance with Section 4104 of the Public Contract Code, each Contractor, in his bid, shall include the name and location of each subcontractor who will perform work or labor, or render services to the Contractor in or about the Work in an amount in excess of one half of 1% of the Contractor's total bid.

17.1.2 The Agency reserves the right to approve all subcontractors. Such approval shall be a consideration to the awarding of the Contract and unless notification to the contrary is given to the Contractor prior to the signing of the Contract, the list of subcontractors which is submitted with his proposal will be deemed to be acceptable.

17.1.3 The Contractor shall be as fully responsible to the Agency for the acts and omissions of his subcontractors and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

17.1.4 Nothing contained in the Contract Documents shall create any contractual relationship between any subcontractor and the Agency.

17.1.5 The divisions or sections of the specifications are not intended to control the Contractor in dividing the Work among subcontractors or to limit the work performed by any trade.

17.2 RELATIONS OF CONTRACTOR AND SUBCONTRACTOR

17.2.1 The Contractor agrees to bind every subcontractor by the terms of the Contract with the Agency, the General Conditions, Supplementary Conditions, and the drawings and specifications as far as applicable to his work, unless specifically noted to the contrary in a subcontract approved in writing as adequate by the Agency.

17.3 SUBCONTRACTS

17.3.1 Pursuant to the provisions of Sections 4100 to 4114 of the California Public Contract Code, inclusive, the Contractor shall not, without the consent of the Agency, either:

a. Substitute any persons as subcontractors in place of the subcontractors designated in his original bid without the consent of Agency. (The Agency's consent can only be given in cases permitted by Public Contract Code Section 4107.)

b. Permit any subcontract to be assigned or transferred or allow any work to be performed by anyone other than the original subcontractor listed in his bid.

c. Sublet or subcontract any portion of the work in excess of one-half of one percent of his bid to which his original bid did not designate a subcontractor.

Should the Contractor violate any of the provisions of Sections 4100 to 4114, inclusive, of the Public Contract Code, his so doing shall be deemed a violation of this Contract, and the Agency may either cancel the contract, or assess the Contractor a penalty in the amount of not more than ten (10) percent of the amount of the subcontract involved, or both.

ARTICLE 18 TAXES

18.1 SALES AND PAYROLL TAXES

18.1.1 Each Contractor, subcontractor, and material dealer shall include in their bid all applicable taxes including but not limited to sales tax and payroll taxes required by law.

ARTICLE 19 CHANGES

19.1 CHANGE ORDER WORK

19.1.1 The Agency reserves the right to make changes in the work without impairing the validity of the Contract. The Agency may make changes to the work, or suspend the work, and all such changes or suspension are within the contemplation of the parties and will not be a basis for compensable delay. Such changes may be made in accordance with any of the following methods:

- a. By written change order to the Contract ordered by the Board of Supervisors.
- b. By written change order, signed by the Executive Director of the Redevelopment Agency for the County of Riverside in the manner and amounts specified by Board Policy B-11.
- c. By written authorization, issued by the Executive Director of the Redevelopment Agency for the County of Riverside, for items of work done under unit prices. The cost or credit for such added or omitted work shall be determined by multiplying the number of units added to or omitted from the work by the applicable unit price.

19.1.2 Upon receipt of a proposed Change Order from Agency, the Contractor shall submit a proposal in accordance with the requirements and limitations set forth in this "Change Orders" article, for work involved in the contemplated change.

19.1.3 The Contractor must submit a cost proposal within fifteen (15) calendar days after receipt of the proposed change order. The Contractor must submit cost proposals in less than fifteen (15) calendar days if requested by the Agency or if required by schedule limitations.

19.1.4 If the Contractor fails to submit the cost proposal within the 15-day period (or as requested), the Agency has the right to order the Contractor in writing to commence the work immediately on a force account basis and or issue a lump sum change to the contract price in accordance with the Agency 's estimate of cost. If the change is issued based on the Agency estimate, the Contractor will waive his right to dispute the action unless within fifteen (15) calendar days following completion of the added/deleted work, the Contractor presents proof that the Agency 's estimate was in error.

19.1.5 If the Agency disagrees with the proposal submitted by Contractor, it will notify the Contractor in writing and the Contractor may elect to proceed under the DISPUTE article of this Contract, or, in the event either party contests the price or time extension of Change work, or time is of the essence, the Agency may issue a Construction Change Directive and the contractor shall proceed with the work. The Agency will provide its opinion of the appropriate price and or time extension in a "Response to Change Order Request." If the contractor agrees with the Agency's estimate, a change order will be issued by the Agency. If no agreement can be reached, the Agency shall have the right to issue the Change Order Directive setting forth its unilateral determination of the reasonable additions or savings in costs and time attributable to the extra or deleted work. Such determination shall become final and binding if the Contractor fails to submit a Claim in writing to the Agency, within twenty-one (21) days of the Change Order Directive, disputing the terms of such Directive. No dispute, disagreement or failure of the parties to reach agreement regarding the amount, if any, of any adjustment to the contract sum or contract time shall relieve

the Contractor from the obligation to proceed with performance of the work, including extra work, promptly and expeditiously.”

19.1.6 The Contractor will give notice of a requested change on his letterhead within seven (7) calendar days of discovery and, if the Agency agrees, a proposed change order will be issued on the Agency's standard change order form.

19.1.7 If any change involves an increase or decrease in the cost of the Contractor's work, a change order shall state the amount to be added or deducted from the Contract amount, and the additional time, if any, needed for the performance of such work.

19.1.8 Any changes to the Contract amount shall be in a lump sum mutually agreed to by the Contractor and the Agency, except that when, in the opinion of the Agency, such basis is not feasible the change to the Contract amount shall be determined upon a cost-plus-percentage basis with a guaranteed maximum lump sum cost within the limitations provided by law.

19.1.9 Each lump sum quotation from the Contractor shall be accompanied by sufficiently detailed estimates to permit verification of totals in accordance with (a) through (d) in 19.1.11 below.

19.1.10 When the work is to be done on a cost-plus-percentage basis, the Contractor shall submit statements as required by the Agency showing all labor, material, and equipment costs incurred, and upon completion of the work, a summary of costs, including overhead and profit, and in accordance with Item (a) through (d) in 19.1.11 below.

19.1.11 Estimates for lump sum quotations and accounting for cost-plus-percentage work shall be limited to direct expenditures necessitated specifically by the subject extra work, and shall be segregated as follows:

a. Labor. The costs of labor will be the actual cost for wages prevailing locally for each craft or type of worker at the time the extra work is done, plus employer payments of payroll taxes and insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State or local laws, as well as assessment or benefits required by lawful collective bargaining agreements. The use of a labor classification which would increase the extra work cost will not be permitted unless the contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental.

b. Materials. The cost of materials reported shall be at invoice or lowest current price at which such materials are locally available in the quantities involved, plus sales tax, freight and delivery.

c. Tool and Equipment Use. No payment will be made for the use of tools which have a replacement value of \$100 or less. Regardless of ownership, the rates to be used in determining equipment use costs shall not exceed listed rates prevailing locally at equipment rental agencies, or distributors, at the time the work is performed.

d. Overhead, Profit and Other Charges. The mark-up for overhead and profit on work added to the Contract shall be according to the following Schedule.

(1) For work performed by the Contractor's forces the added cost for overhead and profit shall not exceed fifteen (15%) percent of the net cost of the work, equipment, labor and materials.

(2) For work performed by a subcontractor, the added cost for overhead and profit shall not exceed fifteen (15%) percent of the net cost of the work, equipment, labor and materials, to which the Contractor may add five (5) percent of the subcontractor's price of the work.

(3) For work performed by a sub-subcontractor the added cost for overhead and profit shall not exceed fifteen (15 %) percent of the net cost for work, equipment, labor and materials to which sub-contractor and general contractor may each add an additional five (5 %) percent of the total price from the lower tier subcontractor.

(4) "Net Cost" is defined as consisting of costs of labor, materials and equipment use and or rental only. The costs of applicable insurance and bond premium will be reimbursed to the Contractor and subcontractors at cost only, without mark-up.

(5) The cost of direct supervision, except when provided by working foreman whose time is included above, of change order work when done exclusively, and not in conjunction or at the same time as, other work performed on the job and when approved in advance by the Agency's authorized representative, including only payroll taxes, insurance, pension and direct costs for the labor of supervision may be charged to the change order. The cost of transportation, use of vehicle and other costs incurred by supervision will not be allowed.

19.1.12 For added or deducted work by subcontractors, the Contractor shall furnish to the Agency the subcontractor's signed detailed estimate of the cost of labor, material and equipment, including the markup by such subcontractor for overhead and profit. The same requirement shall apply to sub-subcontractors.

19.1.13 For added or deducted work furnished by a vendor or supplier, the Contractor shall furnish to the Agency a detailed estimate or quotation of the cost to the Contractor for such work, signed by such vendor or supplier.

19.1.14 Any change in the work involving both extras and credits shall show a new total cost, including subcontracts. Allowance for overhead and profit, as specified therein, shall be applied if the net total cost is an extra; overhead and profit allowances shall not be applied if the net total cost is a credit. The estimated cost of deductions shall be based on labor and material prices on the date the Contract was executed.

19.1.15 The Contractor shall identify any adjustment in time of the final completion of the Work as a whole which is directly attributable to the changed work within fifteen (15) calendar days of receipt of the proposed change order. The Contractor's request for a change in time will be supported by a detailed schedule analysis including a schedule indicating the activities which have been affected and the additional time being requested.

a. For a change in time for the Work, the Contractor shall be entitled only to such adjustments where completion of the entire Work (critical path) is delayed due to the performance of the changed work. Failure to request extra time when submitting such estimate shall constitute waiver of the right to subsequently claim adjustment in time for final completion based upon such changed work.

b. If the Agency and the Contractor fail to arrive at an agreement on the amount of extra cost, credit or time extension for a proposed change, a change order will be processed in the amount believed by the Agency to be reasonable, and the Contractor shall proceed with the work. If the Contractor believes that the amount or time stipulated in the change order is not reasonable for the work required, he may elect to issue a notification in accordance with the DISPUTES article for review by the Agency, stating therein the basis for his dispute with such change order.

19.1.16 Any change in the Work shall conform to the original Contract Documents insofar as they may apply without conflict to the conditions involved in the change.

19.1.17 Payment for additional work or extras, if any, shall become due and payable in accordance with the provisions for payment in the Contract.

19.1.18 Contractor shall not reserve a right to assess impact cost, extended job site costs, extended overhead, and or constructive acceleration at a later date as related to any and all changes. All costs or estimated costs must be supported with full schedule and cost documentation with each proposed change within the prescribed submission times. If a request for a change is denied and the Contractor disputes the denial, the Contractor must supply the aforementioned documentation to support his claim under the DISPUTES article of this Contract. No claims shall be allowed for impact, extended overhead costs, and or construction acceleration due to the multiplicity of changes and or clarifications. Any attempt by Contractor to change or modify the change order form (sample included herein) shall void the form, including any letters the Contractor may issue in conjunction therewith.

19.1.19 All alterations, extensions of time, extra and additional work and other changes authorized by these specifications or any part of the Contract may be made without securing consent of the surety or sureties on the contract bonds.

19.1.20 Quantities are estimates and must be verified by the contractor. If there is a discrepancy between the plans and the bid schedule, the plans prevail. Estimates are plus or minus 10% and adjustments to the contract for amounts over or under the estimate will only be made when the quantity adjustments exceed the 10% threshold. Change Orders shall be established through a mutually agreed upon change order to the work.

19.2 CHANGE ORDERS AND LABOR RATES GUIDELINES

19.2.1 The following are guidelines for preparing change orders:

a. Labor Rates:

- (1) To establish the labor rate for each classification and trade, a breakdown shall be submitted to the Agency.

- (2) Labor rates are based on current prevailing state and federal wages. Only those benefits mandated by law or a valid labor contract are paid by the Agency.
- (3) Payroll taxes shall be paid as mandated by law. Labor related insurances shall be paid according to industry standard average.
- (4) No other costs related to labor shall be paid by Agency.

b. Change Orders:

- (1) Change orders shall be prepared in accordance with the project contract.
- (2) No insurance costs are paid by Agency, except for labor insurances specified in this guideline under section 1 titled "LABOR RATES".
- (3) Material cost shall be broken down on a separate sheet, and for those jobs designated as time and material shall be supported by valid invoices from suppliers.
- (4) Hours for non-productive labor, such as non-working foremen or general foremen, shall be paid only when justified in the opinion of the Agency, and approved by the Agency. The total number of nonproductive labor hours shall be limited to a maximum of 15% of the total number of productive labor hours.
- (5) Cost of use of special equipment shall be paid when justified in the opinion of the Agency, and approved by the Agency. Equipment refers to special equipment that is needed to perform that specific job, and does not include the usual tools customarily required for that trade. Small tools costs are not paid by Agency.
- (6) Material transportation costs are paid by Agency when justified in the opinion of the Agency, and approved by the Agency's authorized representative.
- (7) Overhead, profit and fees on subcontracts, are paid according to the contract.
- (8) No costs other than those designated above shall be paid by Agency. The percentages of overhead and fee allowed with change orders have been established to account for any other direct or indirect costs that might be incurred due to the change order.

19.3 AUDIT

19.3.1 The Agency shall have the right to examine and audit all books, estimates, records, contracts, documents, bid documents, subcontracts, and other data of the Contractor (including computations and projections) related to negotiating, pricing, or performing the modification in order to evaluate the accuracy and completeness of the cost or pricing data at no additional cost to the Agency.

19.3.2 The Contractor shall make available at its office at all reasonable times the materials described in paragraph 19.3.1 above, for examination, audit, or reproduction, until 4 years after final payment under this Contract.

19.3.3 The Contractor shall insert a clause containing all the provisions of this 19.3, including this paragraph, in all subcontracts over \$10,000 under this contract.

ARTICLE 20 PAYMENT

20.1 PROGRESS PAYMENTS

20.1.1 The Agency shall pay the Contractor the price as provided in this Contract.

20.1.2 The Agency shall make progress payments monthly as the Work proceeds, on estimates approved by the Agency. The Contractor shall furnish a breakdown of the total contract price, in a format provided by the Agency, showing the amount included therein for each principal category of the work, in such detail as requested, to provide a basis for determining progress payments.

20.1.3 Contractor shall submit to the Agency vouchers, schedule activities, or other satisfactory proof of the value of any work for which he claims payment on such account, and receipts showing that progress payments have been duly made on such contracts, and for materials furnished.

20.1.4 In the preparation of estimates, the Agency may authorize 75% of the value of material delivered and satisfactorily stored on the site, and preparatory work done to be taken into consideration for major equipment if:

- a. Consideration is specifically authorized by this Contract; and
- b. The Contractor furnishes certified receipt that it has acquired title and paid invoices for such material and that the material will be used to perform this Contract.

20.1.5 On the 25th of each month the Contractor will submit his request for payment. Prior to that submittal the Agency will review the requested percentage of completion for each activity. The payment request will be in the format as provided by the Agency and will refer to the schedule.

20.1.6 Upon receipt of a payment request, the Agency shall:

- a. Review that request as soon as practicable after receipt for the purpose of determining that the payment request is a proper payment request; and

- b. Any payment request determined not to be a proper request suitable for payment shall be returned to the Contractor as soon as practicable, but not later than seven (7) calendar days after receipt. The returned request for payment shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper.

20.1.7 Any progress payment which is undisputed and properly submitted and remains unpaid for thirty (30) calendar days after receipt by Agency shall accrue interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the California Code of Civil Procedure. The number of days available to the Agency to make a payment without incurring interest pursuant to this section shall be reduced by the number of days by which the Agency exceeds the seven-day return requirement set forth in 20.1.6 above.

20.1.8 In making these progress payments, there shall be retained ten percent (10%) from the amount of each progress payment until the work is 50% complete. After the 50% completion point, if satisfactory progress is being made and at the sole discretion of the Agency, the retention may be reduced to a minimum of 5% of the contract.

20.1.9 Except as otherwise prohibited by law, the Contractor may elect to receive all payments due under the contract pursuant to this section without any retention, by posting securities in accordance with Public Contract Code Section 22300.

20.1.10 Contractor and each subcontractor shall pay each of its employees engaged in work under this Contract in full (less deductions made mandatory by law) in accordance with California law.

20.1.11 The Agency may withhold (in excess of retentions) or, on account of subsequently discovered evidence, nullify the whole or a part of any certificate to such extent as may be necessary to protect the Agency from loss on account of:

- a. Defective work not remedied.
- b. Claims filed or reasonable evidence indicating probable filing of claims.
- c. Failure of the Contractor to make payments properly to subcontractors or for material or labor.
- d. Damage to another Contractor.
- e. Delays in progress toward completion of the work, with the stipulated amount of liquidated damages being withheld for each day of delay for which no extension is granted.
- f. Default of the Contractor in the performance of the terms of the Contract.

20.1.12 Should stop notices be filed with the Agency, the Agency shall withhold the amount required plus 25% from certificates until such claims shall have been resolved pursuant to applicable law. California Civil Code Section 3179 et seq.

20.1.13 Contractor shall provide (1) forms of conditional releases of stop notice and bond rights upon progress payment, complying with California Civil Code Section 3262(d)(1), for all work performed during the time period covered by the current Application for Payment, signed by the Contractor and the subcontractors of every tier; and (2) forms of unconditional release of stop notice and bond rights upon progress payment, complying with Civil Code Section 3262(d)(2) for all work performed during the time period covered by previous Application for Payment, signed by Contractor and the subcontractors of every tier.

20.1.14 All material and work covered by progress payments made shall, at the time of payment, become the sole property of the Agency, but this shall not be construed as:

- a. An acceptance of any work not in accordance with the Contract Documents; or
- b. Waiving the right of the Agency to require the fulfillment of all of the terms of the contract.

20.2 FINAL PAYMENT

20.2.1 GENERAL

- a. The County shall pay the amount due the Contractor under this Contract after:
 - 1.) The Acceptance of all work and Notice of Completion per the terms of this Contract;
 - 2.) Presentation of a properly executed voucher;
 - 3.) Submission of conditional releases and waivers of stop notice and bond rights upon final payment in the form required by California Civil Code Section 3262(d)(3) executed by Contractor and by all the subcontractors of every Tier.
 - 4.) Presentation of release of all claims against the County arising by virtue of this Contract, other than claims and disputes in stated amounts, that the Contractor has specifically excepted from the operation of the release.

b. The Contractor may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the County, to indemnify him against any lien.

20.2.2 FINAL CERTIFICATE FOR PAYMENT

a. When the work is ready for acceptance by the County, the Economic Development Agency will certify and submit to the Board of Supervisors a Notice of Completion. Upon approval of the Notice of Completion, a copy will be sent to the Contractor.

- b. Notice of Completion will be recorded by the County upon completion and

Acceptance of the Work. Providing no stop notices have been filed, thirty-five (35) calendar days after filing of such Notice of Completion, payment due under the contract will become due to the Contractor and the County shall so certify authorizing the final payment.

20.2.3 FINAL PAYMENT

a. After Acceptance of Work, the Agency will submit to Contractor a statement of the sum due Contractor under this contract, together with Agency payment in the amount thereof. Said statement shall take into account the contract price, as adjusted by any change orders; amounts already paid; sums to be withheld for incomplete work; liquidated damages; and for any other cause under the Contract.

b. The Contractor shall, from the effective date of Acceptance until the expiration of four years after final settlement under this Contract, preserve and make available to the Agency, all its books, records, documents, and other evidence bearing on the costs and expenses of the Contractor under this Contract.

ARTICLE 21 SUSPENSION OF WORK/TERMINATION

21.1 NON-COMPLIANCE WITH CONTRACT REQUIREMENTS

21.1.1 In the event the Contractor, after receiving written notice from the Agency of non-compliance with any requirement of this Contract, fails to promptly initiate appropriate action to comply with the specified requirement, the Agency shall have the right to withhold payment for work completed under the Contract until the Contractor has complied with the notice or has initiated such action as may be appropriate to comply, within a reasonable period of time. The Contractor shall not be entitled to any extension of contract time or payment for any costs incurred for work under this article.

21.1.2 Should the Contractor abandon the Work called for under the Contract, or assign his Contract, or unnecessarily and unreasonably delay the work, or willfully violate or perform the work in bad faith, the Agency shall have the power to notify the Contractor to discontinue all work or any part thereof under this Contract, and thereupon the Contractor shall cease to continue said work or such part thereof as the Agency may designate, and the Agency shall have the power to employ such persons as it may consider desirable, and to obtain by contract, purchase, hire or otherwise, such implements, tools, material or materials as the Agency may deem advisable to work at and be used to complete the work herein described, or such part thereof as shall have not been completed, and to use such material as it may find upon the site of the work, and to charge the expense of such labor and material, implements and tools to the Contractor, and the expense so charged shall be deducted and paid by the Agency out of such monies as may either be due, or may at any time thereafter become due to the Contractor under the Contract.

21.2 TERMINATION

21.2.1 TERMINATION FOR BREACH

If the Contractor should be adjudged bankrupt or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or

if he or any of his subcontractors should violate any of the provisions of the Contract, the Agency may serve written notice upon him and his surety of its intention to terminate Contractor's performance hereunder, said notice shall contain the reasons for such intention to terminate Contractor's performance, and, unless within ten (10) calendar days after serving of said notice, such violation shall cease and satisfactory arrangements for correction thereof be made, Contractor's performance shall, upon the expiration of said ten (10) calendar days, cease and terminate. In the event of any such termination, the Agency shall immediately serve written notice thereof upon the surety and the Contractor, and the Agency may take over the Contractor's work and prosecute the same to completion by contract or by any other method it may deem advisable, for the account and at the expense of the Contractor, and the Contractor and his surety shall be liable to the Agency for any excess cost occasioned the Agency thereby, and in such event the Agency may without liability for so doing take possession of and utilize in completing the work, such materials, appliances, plants, and other property belonging to the Contractor as may be on the site of the work and necessary therefore.

21.2.2 TERMINATION FOR CONVENIENCE

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

b. The Agency may terminate performance of work under this Contract in whole or in part, if the Agency determines that a termination is in the Agency's interest. The Agency shall terminate by delivering to the Contractor a Notice to Terminate specifying the extent of termination and the effective date.

c. After receipt of such Notice, and except as directed by the Agency, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:

- (1) Stop work as specified in the notice.
- (2) Place no further subcontracts or orders (referred to as subcontracts in this clause) for materials, services, or facilities, except as necessary to complete any continued portion of the Contract.
- (3) To terminate all subcontracts to the extent they relate to the work terminated.
- (4) With approval or ratification to the extent required by the Agency, settle all outstanding liabilities and termination settlement proposals arising from termination of subcontracts; the approval or ratification will be final for purposes of this clause.

- (5) As directed by the Agency, transfer title and deliver to the Agency (1) the fabricated or unfabricated parts; work in progress, completed work, supplies, and other material produced or acquired for the work terminated; and (2) the completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Agency.
- (6) Complete performance of work not terminated.
- (7) Take any action that may be necessary, or that the Agency may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Agency has or may acquire an interest.
- (8) Use its best efforts to sell, as directed or authorized by the Agency, any property of the types referred to in subparagraphs above; provided, however, that the Contractor (1) is not required to extend credit to any purchaser and (2) may acquire the property under the conditions prescribed by, and at prices approved by the Agency. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Agency under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Agency.

d. After termination, the Contractor shall submit a final termination settlement proposal to the Agency in the form and with the certification prescribed by the Agency. The Contractor shall submit the proposal promptly, but no later than thirty (30) days from the effective date of termination. If the Contractor fails to submit the proposal within the time allowed, the Agency may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.

e. Subject to subparagraph (2) above, the Contractor and the Agency may agree upon the whole or any part of the amount to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. However, the agreed amount, may not exceed the total contract price as reduced by:

- (1) The amount of payments previously made
- (2) The contract price of work not terminated. The contract shall be amended with a Change Order, and the Contractor paid the agreed amount.

f. If the Contractor and Agency fail to agree on the whole amount to be paid the Contractor because of the termination of work, the Agency shall pay the Contractor the amounts determined as follows:

- (1) For contract work performed before the effective date of termination, the total (without duplication of any terms) of:
 - (i) The cost of this work
 - (ii) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subdivision (i) above
 - (iii) A sum, as profit on (i) above, determined by the Agency to be fair and reasonable; however, if it appears that the Contractor would have sustained a loss on the entire contract had it been completed, the Agency shall allow no profit under this subdivision (iii).
- (2) The reasonable costs of settlement of the work terminated including:
 - (i) Accounting, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data
 - (ii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.

g. Except for normal spoilage, the Agency shall exclude from the amounts payable to the Contractor the fair value, as determined by the Agency, of defective work, and of property that is destroyed, lost, stolen, or damaged so as to become undeliverable.

h. The Contractor shall have the right to make a claim under the DISPUTES article, from any determination made by the Agency.

- i. In arriving at the amount due the Contractor, there shall be deducted:
 - (1) All unliquidated advance or other payments to the Contractor under the terminated portion of this Contract
 - (2) Any claim which the Agency has against the Contractor under this Contract
 - (3) The agreed price for, or the proceeds of sale of, materials, supplies, or other things acquired by the Contractor or sold under the provisions of this clause and not recovered by or credited to the Agency.

j. If the termination is partial, the Contractor may file a proposal with the Agency for a Change Order of the price(s) of the continued portion of the Contract. The Agency shall process any Change Order agreed upon. Any proposal by the Contractor for an equitable adjustment under this clause shall be requested within thirty (30) days from the effective date of termination unless extended in writing by the Agency.

k. The Agency may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the Contract, if the Agency believes the total of these payments will not exceed the amount to which the Contractor will be entitled. If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Agency upon demand, together with interest.

l. Unless otherwise provided in this Contract or by statute, the Contractor will maintain all records and documents relating to the terminated portion of this Contract for 4 years after final settlement. This includes all books and other evidence bearing on the Contractor's costs and expenses under this Contract. The Contractor shall make these records and documents available to the Agency, State and or the U.S. Government or their representatives at all reasonable times, without any direct charge.

ARTICLE 22 DISPUTES/CLAIMS

22.1 CLAIMS RESOLUTION

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

- a. All claims shall be submitted in writing and accompanied by substantiating documentation. Claims must be filed on or before the date of final payment unless other notice requirements are provided in the contract. "Claim" means a separate demand by the claimant for (1) a time extension, (2) payment of money or damages arising from work done by or on behalf of the claimant and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled, or (3) an amount the payment of which is disputed by the Owner.
- b. Claims Under \$50,000. The Owner shall respond in writing to the claim within 45 days of receipt of the claim, or, the Owner may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the Owner may have. Of additional information is needed thereafter, it shall be provided upon mutual agreement of the Owner and the claimant. The Owner's written response shall be submitted 15 days after receiving the additional documentation, or within the same period of time taken by the claimant to produce the additional information, whichever is greater.

- c. Claims over \$50,000 but less than or equal to \$375,000. The Owner shall respond in writing within 60 days of receipt, or, may request in writing within 30 days of receipt of the claim, any additional documents supporting the claim or relating to defenses or claims the Owner may have against the claimant. If additional information is needed thereafter, it shall be provided pursuant to mutual agreement between the Owner and the claimant. The Owner's response shall be submitted within 30 days after receipt of the further documents, or within the same period of time taken by the claimant to produce the additional information or documents, whichever is greater. The Contractor shall make these records and documents available to the Agency, County, State and or the U.S. Government or their representatives at all reasonable times, without any direct charge.
- d. If the claimant disputes the Owner's response, or if the Owner fails to respond within the statutory time period(s), the claimant may so notify the Owner within 15 days of the receipt of the response or the failure to respond, and demand an informal conference to meet and confer for settlement. Upon such demand, the Owner shall schedule a meet and confer conference within 30 days.
- e. If following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Government Code 900 et seq. and Government Code 910 et seq. For purposes of those provisions, the time within which a claim must be filed shall be tolled from the time the claimant submits the written claim until the time the claim is denied, including any time utilized for the meet and confer conference.
- f. If a civil action is filed to resolve any claim, the provisions of Public Contract Code 20104.4 shall be followed, providing for nonbinding mediation and judicial arbitration.

22.2 CLAIM FORMAT/REQUIREMENTS

22.2.1 The Contractor will submit the claim justification in the following format:

- a. Summary of claim merit and price plus clause under which the claim is made.
- b. List of documents relating to claim
 - (a) Specifications
 - (b) Drawings
 - (c) Clarifications (RFIS)
 - (d) Schedules
 - (e) Other
- c. Chronology of events and correspondence

20.1.13 Contractor shall provide (1) forms of conditional releases of stop notice and bond rights upon progress payment, complying with California Civil Code Section 3262(d)(1), for all work performed during the time period covered by the current Application for Payment, signed by the Contractor and the subcontractors of every tier; and (2) forms of unconditional release of stop notice and bond rights upon progress payment, complying with Civil Code Section 3262(d)(2) for all work performed during the time period covered by previous Application for Payment, signed by Contractor and the subcontractors of every tier.

20.1.14 All material and work covered by progress payments made shall, at the time of payment, become the sole property of the Agency, but this shall not be construed as:

- a. An acceptance of any work not in accordance with the Contract Documents; or
- b. Waiving the right of the Agency to require the fulfillment of all of the terms of the contract.

20.2 FINAL PAYMENT

20.2.1 GENERAL

- a. The Agency shall pay the amount due the Contractor under this Contract after:
 - 1.) The Acceptance of all work and Notice of Completion per the terms of this Contract
 - 2.) Presentation of a properly executed voucher
 - 3.) Release of all liens and Stop Notices
 - 4.) Presentation of release of all claims against the Agency arising by virtue of this Contract, other than claims and disputes in stated amounts that the Contractor has specifically excepted from the operation of the release.

b. The Contractor may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Agency, to indemnify him against any lien.

20.2.2 FINAL CERTIFICATE FOR PAYMENT

a. When the work is ready for acceptance by the County, the Economic Development Agency will certify and submit to the Board of Supervisors a Notice of Completion. Upon approval of the Notice of Completion, a copy will be sent to the Contractor.

b. Notice of Completion will be recorded by the County upon completion and Acceptance of the Work. Providing no stop notices have been filed, thirty-five (35) calendar days after filing of such Notice of Completion, payment due under the contract will become due to the Contractor and the County shall so certify authorizing the final payment.

20.2.3 FINAL PAYMENT

a. After Acceptance of Work, the Agency will submit to Contractor a statement of the sum due Contractor under this contract, together with Agency payment in the amount thereof. Said statement shall take into account the contract price, as adjusted by any change orders; amounts already paid; sums to be withheld for incomplete work; liquidated damages; and for any other cause under the Contract.

b. The Contractor shall, from the effective date of Acceptance until the expiration of four years after final settlement under this Contract, preserve and make available to the Agency, all its books, records, documents, and other evidence bearing on the costs and expenses of the Contractor under this Contract.

ARTICLE 21 SUSPENSION OF WORK/TERMINATION

21.1 NON-COMPLIANCE WITH CONTRACT REQUIREMENTS

21.1.1 In the event the Contractor, after receiving written notice from the Agency of non-compliance with any requirement of this Contract, fails to promptly initiate appropriate action to comply with the specified requirement, the Agency shall have the right to withhold payment for work completed under the Contract until the Contractor has complied with the notice or has initiated such action as may be appropriate to comply, within a reasonable period of time. The Contractor shall not be entitled to any extension of contract time or payment for any costs incurred for work under this article.

21.1.2 Should the Contractor abandon the Work called for under the Contract, or assign his Contract, or unnecessarily and unreasonably delay the work, or willfully violate or perform the work in bad faith, the Agency shall have the power to notify the Contractor to discontinue all work or any part thereof under this Contract, and thereupon the Contractor shall cease to continue said work or such part thereof as the Agency may designate, and the Agency shall have the power to employ such persons as it may consider desirable, and to obtain by contract, purchase, hire or otherwise, such implements, tools, material or materials as the Agency may deem advisable to work at and be used to complete the work herein described, or such part thereof as shall have not been completed, and to use such material as it may find upon the site of the work, and to charge the expense of such labor and material, implements and tools to the Contractor, and the expense so charged shall be deducted and paid by the Agency out of such monies as may either be due, or may at any time thereafter become due to the Contractor under the Contract.

21.2 TERMINATION

21.2.1 TERMINATION FOR BREACH

If the Contractor should be adjudged bankrupt or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he or any of his subcontractors should violate any of the provisions of the Contract, the Agency may serve written notice upon him and his surety of its intention to terminate Contractor's performance hereunder, said notice shall contain the reasons for such intention to terminate Contractor's performance, and, unless within ten (10) calendar days after serving of said notice,

such violation shall cease and satisfactory arrangements for correction thereof be made, Contractor's performance shall, upon the expiration of said ten (10) calendar days, cease and terminate. In the event of any such termination, the Agency shall immediately serve written notice thereof upon the surety and the Contractor, and the Agency may take over the Contractor's work and prosecute the same to completion by contract or by any other method it may deem advisable, for the account and at the expense of the Contractor, and the Contractor and his surety shall be liable to the Agency for any excess cost occasioned the Agency thereby, and in such event the Agency may without liability for so doing take possession of and utilize in completing the work, such materials, appliances, plants, and other property belonging to the Contractor as may be on the site of the work and necessary therefore.

21.2.2 TERMINATION FOR CONVENIENCE

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

b. The Agency may terminate performance of work under this Contract in whole or in part, if the Agency determines that a termination is in the Agency's interest. The Agency shall terminate by delivering to the Contractor a Notice to Terminate specifying the extent of termination and the effective date.

c. After receipt of such Notice, and except as directed by the Agency, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:

- (1) Stop work as specified in the notice.
- (2) Place no further subcontracts or orders (referred to as subcontracts in this clause) for materials, services, or facilities, except as necessary to complete any continued portion of the Contract.
- (3) To terminate all subcontracts to the extent they relate to the work terminated.
- (4) With approval or ratification to the extent required by the Agency, settle all outstanding liabilities and termination settlement proposals arising from termination of subcontracts; the approval or ratification will be final for purposes of this clause.
- (5) As directed by the Agency, transfer title and deliver to the Agency (1) the fabricated or unfabricated parts; work in progress, completed work, supplies, and other material produced or acquired for the work terminated; and (2) the completed or partially completed plans, drawings, information, and other

property that, if the contract had been completed, would be required to be furnished to the Agency.

- (6) Complete performance of work not terminated.
- (7) Take any action that may be necessary, or that the Agency may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Agency has or may acquire an interest.
- (8) Use its best efforts to sell, as directed or authorized by the Agency, any property of the types referred to in subparagraphs above; provided, however, that the Contractor (1) is not required to extend credit to any purchaser and (2) may acquire the property under the conditions prescribed by, and at prices approved by the Agency. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Agency under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Agency.

d. After termination, the Contractor shall submit a final termination settlement proposal to the Agency in the form and with the certification prescribed by the Agency. The Contractor shall submit the proposal promptly, but no later than thirty (30) days from the effective date of termination. If the Contractor fails to submit the proposal within the time allowed, the Agency may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.

e. Subject to subparagraph (2) above, the Contractor and the Agency may agree upon the whole or any part of the amount to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. However, the agreed amount, may not exceed the total contract price as reduced by:

- (1) The amount of payments previously made
- (2) The contract price of work not terminated. The contract shall be amended with a Change Order, and the Contractor paid the agreed amount.

f. If the Contractor and Agency fail to agree on the whole amount to be paid the Contractor because of the termination of work, the Agency shall pay the Contractor the amounts determined as follows:

- (1) For contract work performed before the effective date of termination, the total (without duplication of any terms) of:
 - (i) The cost of this work

(ii) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subdivision (i) above

(iii) A sum, as profit on (i) above, determined by the Agency to be fair and reasonable; however, if it appears that the Contractor would have sustained a loss on the entire contract had it been completed, the Agency shall allow no profit under this subdivision (iii).

(2) The reasonable costs of settlement of the work terminated including:

(i) Accounting, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data

(ii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.

g. Except for normal spoilage, the Agency shall exclude from the amounts payable to the Contractor the fair value, as determined by the Agency, of defective work, and of property that is destroyed, lost, stolen, or damaged so as to become undeliverable.

h. The Contractor shall have the right to make a claim under the DISPUTES article, from any determination made by the Agency.

i. In arriving at the amount due the Contractor, there shall be deducted:

(1) All unliquidated advance or other payments to the Contractor under the terminated portion of this Contract

(2) Any claim which the Agency has against the Contractor under this Contract

(3) The agreed price for, or the proceeds of sale of, materials, supplies, or other things acquired by the Contractor or sold under the provisions of this clause and not recovered by or credited to the Agency.

j. If the termination is partial, the Contractor may file a proposal with the Agency for a Change Order of the price(s) of the continued portion of the Contract. The Agency shall process any Change Order agreed upon. Any proposal by the Contractor for an equitable adjustment under this clause shall be requested within thirty (30) days from the effective date of termination unless extended in writing by the Agency.

k. The Agency may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the Contract, if the Agency believes the total of these payments will not exceed the amount to which the Contractor will be entitled. If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Agency upon demand, together with interest.

l. Unless otherwise provided in this Contract or by statute, the Contractor will maintain all records and documents relating to the terminated portion of this Contract for 4 years after final settlement. This includes all books and other evidence bearing on the Contractor's costs and expenses under this Contract. The Contractor shall make these records and documents available to the Agency, State and or the U.S. Government or their representatives at all reasonable times, without any direct charge.

ARTICLE 22 DISPUTES/CLAIMS

22.1 CLAIMS RESOLUTION

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

- a. All claims shall be submitted in writing and accompanied by substantiating documentation. Claims must be filed on or before the date of final payment unless other notice requirements are provided in the contract. "Claim" means a separate demand by the claimant for (1) a time extension, (2) payment of money or damages arising from work done by or on behalf of the claimant and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled, or (3) an amount the payment of which is disputed by the Owner.
- b. Claims Under \$50,000. The Owner shall respond in writing to the claim within 45 days of receipt of the claim, or, the Owner may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the Owner may have. Of additional information is needed thereafter, it shall be provided upon mutual agreement of the Owner and the claimant. The Owner's written response shall be submitted 15 days after receiving the additional documentation, or within the same period of time taken by the claimant to produce the additional information, whichever is greater.
- c. Claims over \$50,000 but less than or equal to \$375,000. The Owner shall respond in writing within 60 days of receipt, or, may request in writing within 30 days of receipt of the claim, any additional documents supporting the claim or relating to defenses or claims the Owner may have against the claimant. If additional information is needed thereafter, it shall be provided pursuant to mutual agreement between the Owner and the

claimant. The Owner's response shall be submitted within 30 days after receipt of the further documents, or within the same period of time taken by the claimant to produce the additional information or documents, whichever is greater. The Contractor shall make these records and documents available to the Agency, County, State and or the U.S. Government or their representatives at all reasonable times, without any direct charge.

- d. If the claimant disputes the Owner's response, or if the Owner fails to respond within the statutory time period(s), the claimant may so notify the Owner within 15 days of the receipt of the response or the failure to respond, and demand an informal conference to meet and confer for settlement. Upon such demand, the Owner shall schedule a meet and confer conference within 30 days.
- e. If following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Government Code 900 et seq. and Government Code 910 et seq. For purposes of those provisions, the time within which a claim must be filed shall be tolled from the time the claimant submits the written claim until the time the claim is denied, including any time utilized for the meet and confer conference.
- f. If a civil action is filed to resolve any claim, the provisions of Public Contract Code 20104.4 shall be followed, providing for nonbinding mediation and judicial arbitration.

22.2 CLAIM FORMAT/REQUIREMENTS

22.2.1 The Contractor will submit the claim justification in the following format:

- a. Summary of claim merit and price plus clause under which the claim is made.
- b. List of documents relating to claim
 - (a) Specifications
 - (b) Drawings
 - (c) Clarifications (RFIS)
 - (d) Schedules
 - (e) Other
- c. Chronology of events and correspondence
- d. Analysis of claim merit
- e. Analysis of claim cost
- f. Analysis of Time in CPM format

- g. Cover letter and certification (form included herein)

22.2.2 If any claim submitted includes a request for overhead, the Agency may request a Profit & Loss statement and supporting documentation from Contractor. If requested, such documentation must be submitted for the Agency to consider the claim.

22.2.3 Submission of a claim, properly certified, with all required supporting documentation, and written rejection or denial of all or part of the claim by Agency, is a condition precedent to any action, proceeding, litigation, suit, general conditions claim, or demand for arbitration by Contractor.

22.3 NOTICE OF THIRD PARTY CLAIMS

The Agency shall provide notification to the Contractor within a reasonable time after receipt of any third-party claim relating to the Construction Contract.

- d. Analysis of claim merit
- e. Analysis of claim cost
- f. Analysis of Time in CPM format
- g. Cover letter and certification (form included herein)

22.2.2 If any claim submitted includes a request for overhead, the Agency may request a Profit & Loss statement and supporting documentation from Contractor. If requested, such documentation must be submitted for the Agency to consider the claim.

22.2.3 Submission of a claim, properly certified, with all required supporting documentation, and written rejection or denial of all or part of the claim by Agency, is a condition precedent to any action, proceeding, litigation, suit, general conditions claim, or demand for arbitration by Contractor.

22.3 NOTICE OF THIRD PARTY CLAIMS

The Agency shall provide notification to the Contractor within a reasonable time after receipt of any third-party claim relating to the Construction Contract.

Dust Abatement Attachments

1. Signage recommendations (AQMD document, modified)
2. Sample Dust Control Plan (AQMD sample)
3. Dust Control Plan Review Checklists (AQMD document)
4. Reasonably Available Control Measures
(from Rule 403 Implementation Handbook)
5. Best Available Control Measures
(from Rule 403 Implementation Handbook)
6. Best Reasonably Available Control Measures for High Wind Conditions
(from Rule 403 Implementation Handbook)
7. Track Out Control Options
(from Rule 403 Implementation Handbook)

AQMD SIGNAGE RECOMMENDATIONS

November, 2001

Plan holder shall post signage at specified locations on the subject property in accordance with the standards specified below. The exception to the standards is that all letters shall be 4 inches high, with the names and telephone numbers of appropriate contacts and services in bold print, as indicated in the standards. These signs shall also include the SCAQMD toll free complaint line 1-800-CUT-SMOG (1-800-288-7664) and the telephone number for the Environmental Observer. These signs shall be posted within 50 feet of the curb on all four (4) corners of the subject property.

For each Dust Control Plan aggregating less than, or equal to, ten (10) acres:

1. The applicant shall install a sign on such property which is visible to the public that meets the following requirements:
 - (a) Such sign shall measure at least four (4) feet wide by four (4) feet high and conform to the specifications in 1 (a) below.

For each Dust Control Plan aggregating over ten (10) acres:

2. The applicant shall install a sign on such property which is visible to the public that meets the following requirements:
 - (a) Such sign shall measure at least eight (8) feet wide by four (4) feet high and conform to the specifications in 1 (b) below.

THE SIGN SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

1. **The sign boards shall be constructed with materials capable of withstanding the environment in which they are placed.**
 - (a) For 4' x 4' signs, the District recommends the following:
 - I. ¾" A/C laminated plywood board
 - II. Two 4" x 4" posts
 - III. The posts should be attached to the edges of the plywood board with at least 2 carriage bolts on each post.
 - IV. The front surface of the sign board should be painted in the contrasting color of a white background with black lettering.
 - (b) For 4' x 8' signs, the District recommends the following:
 - I. 1" A/C laminated plywood board
 - II. Two 5" x 6" posts
 - III. The posts should be attached to the 4' edges of the plywood board with at least 2 carriage bolts on each post.
 - IV. The front surface of the sign board should be painted in the contrasting color of a white background with black lettering.

2. The sign board shall be installed and maintained in a condition such that members of the public can easily view, access, and read the sign at all times until the expiration date of the Dust Control plan.

(a) For 4' x 4' signs, the District recommends the following:

- I. The lower edge of the sign board should be mounted at least 2' above the existing ground surface to facilitate ease of viewing.
- II. The posts should be set in a hole at least 3' deep with concrete footings to preclude downing by high winds.
- III. On the construction site, the sign should be positioned such that nothing obstructs the public's view from the primary street access point.
- IV. For construction projects that are developed in phases, the sign should be moved to the area that is under active construction.
- V. In situations where all phases of the construction project are completed on a property prior to expiration of the Dust Control Plan, a written request for cancellation of the Dust Control Plan must be submitted to the Engineer.

(b) For 4' x 8' signs, the District recommends the following:

- I. The lower edge of the sign board should be mounted at least 2' above the existing ground surface to facilitate ease of viewing.
- II. The posts should be set in a hole at least 4' deep with concrete footings to preclude downing by high winds.
- III. On the construction site, the sign should be positioned such that nothing obstructs the public's view from the primary street access point.
- IV. For construction projects that are developed in phases, the sign should be moved to the area that is under active construction.
- V. In situations where all phases of the construction project are completed on a property prior to expiration of the Dust Control Plan, a written request for cancellation of the Dust Control Plan must be submitted to the Engineer.

3. The sign board shall contain the following information:

- (a) Project Name
- (b) Name of Prime Contractor
- (c) Phone Number of Contractor's Employee Responsible for Dust Control Matters
- (d) County designated phone number (to be provided by the Engineer)
- (e) South Coast Air Quality Management District Phone Number

4. The sign board shall be designed to the following alpha and numeric text dimensions (sign boards written in longhand are unacceptable).

(a) For a permittee subject to the 4' x 4' sign requirement, the District provides the following example: (as modified by the County of Riverside for use on County Public Works projects)

1" UPPERCASE Letters	PROJECT NAME:		3 ½ " Title Case Bold Letters
1" UPPERCASE Letters	CONTRACTOR		3 ½ " Title Case Bold Letters
1" Title Case Letters	Contractor's Dust Control Phone #		3" Bold Numbers
1" Title Case Letters	County of Riverside Phone #		3" Bold Numbers
1" Title Case Letters	Phone Number:	SCAQMD 1-800-CUT-SMOG	3 ½ " Bold Numbers

"Title Case" means the first letter of a word is capitalized and subsequent letters are lower case.

(b) For a permittee subject to the 4' x 8' sign requirement, the District provides the following example: (as modified by the County of Riverside)

2" UPPERCASE Letters	PROJECT NAME:	4" Title Case Bold Letters
2" UPPERCASE Letters	CONTRACTOR	4" Title Case Bold Letters
2" Title Case Letters	Contractor's Dust Control Phone #	4" Bold Numbers
2" Title Case Letters	County of Riverside Phone #	4" Bold Numbers
2" Title Case Letters	Phone Number:	4 1/2" Bold Numbers
2" Title Case Letters	SCAQMD 1-800-CUT-SMOG	
	COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT	

Section 1

Simplified Sample Site Plan

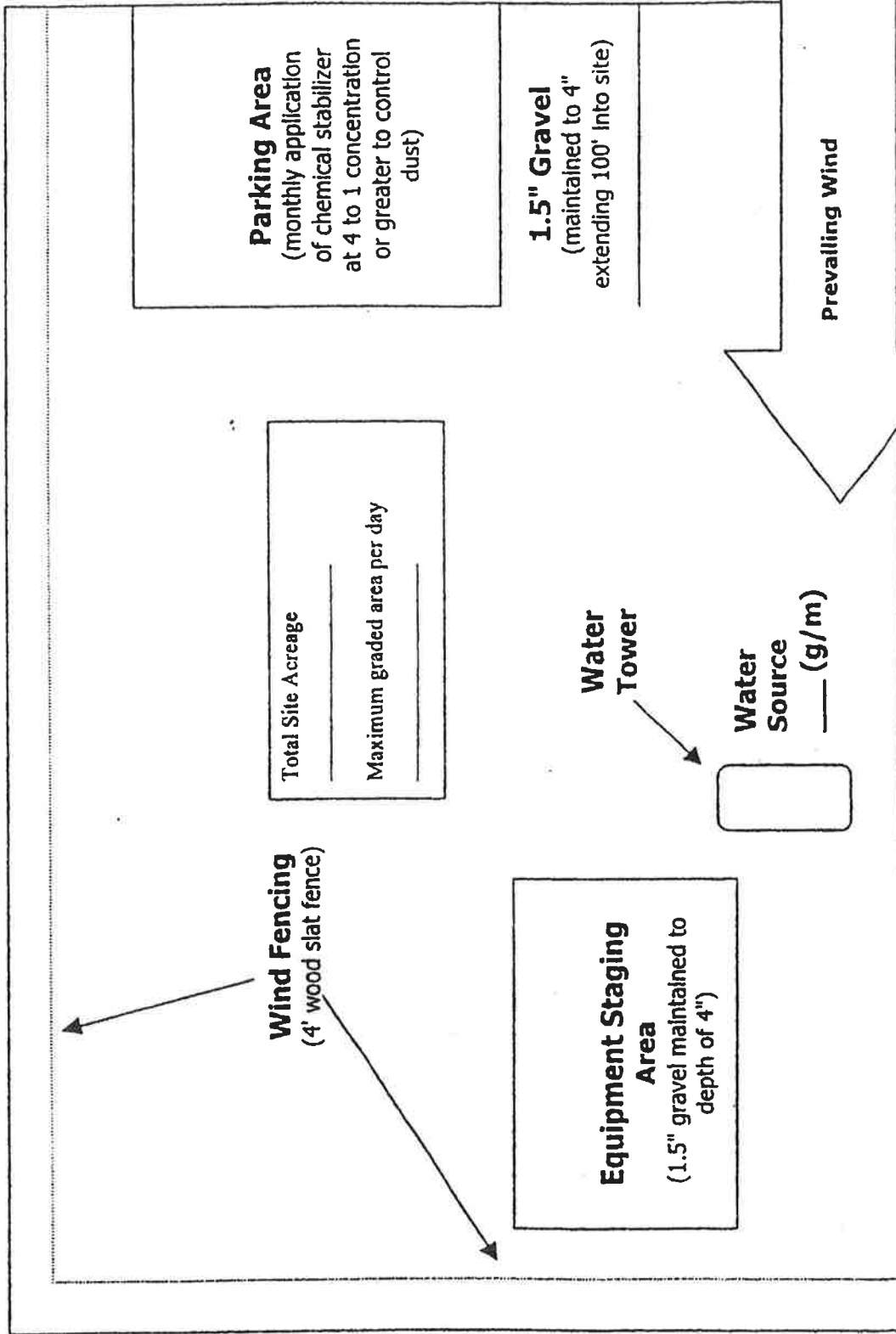
Existing Residential

Distance and location of nearest:

Residence _____

Business _____

N



Existing Residential

DA5

Remember...
DUST CONTROL IS REQUIRED 24 HOURS A DAY, 7 DAYS A WEEK,
REGARDLESS OF CONSTRUCTION STATUS

Plan Review Checklist Clearing/Grubbing/Mass Grading Phase

- If feasible, use grading permit conditions to break the project into phases so that only a portion of the site is disturbed at any given time to ensure control of fugitive dust. This technique is critical for project sites with greater than 100 acres.

- Prior to initiating activity, pre-water site through use of portable irrigation lines. At least 72 hours of pre-watering is recommended for each area prior to initiating earth-movement. Require the Applicant to specify water source and available flow rate (g/m).

- Water applied continuously to all disturbed portions of the site by means of water truck/water pull as necessary to maintain sufficient visible moisture on the soil surface. For reference, one 2,000 gallon water truck can treat approximately 4 acres of active construction per hour. Also, for cut and fill activities, one 10,000 gallon water pull is estimated to be necessary for each 7,000 cubic yards of daily earth-movement. Multiple 4,000-gallon water trucks may be used in place of one 10,000-gallon water pull. Touch and visual contrast are reasonably good indicators of soil moisture. Surface areas that are dry to the touch and appear lighter-colored require the application of additional water to prevent visible or fugitive dust. Require the Applicant to specify the number of watering vehicles available for dust control during mass grading and during off-hours as well as availability of back-up water trucks if the site experiences dust control problems.

- Water towers are necessary for projects with more than 10 acres of active construction. Without a water tower, it can take up to 30 minutes to fill a 2,000 gallon water truck. Also, multiple water towers are necessary for projects that use water pulls as filling one 10,000 gallon water pull can drain a water tower which takes up to 40 minutes to refill.

- Wind fencing is necessary between the site and nearby residences or businesses. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through the site.

- A perimeter watering system consisting of portable irrigation equipment may be an effective mitigation system to protect surrounding residences and businesses. The portable watering system may be used in place of or in conjunction with watering trucks. The local jurisdiction may also be provided access to this equipment.

Remember...
DUST CONTROL IS REQUIRED 24 HOURS A DAY, 7 DAYS A WEEK,
REGARDLESS OF CONSTRUCTION STATUS

- Construction site accesses are to be improved with 1.5" gravel maintained to a depth of 4" , at least 20' wide, and extending 100 feet into the site. If the project site is not balanced, a wheel washing system and/or ribbed steel plates should be placed in the roadway before the vehicle enters the graveled area to clean the tires and prevent trackout.
- Equipment staging areas are to be treated with 1.5" gravel maintained to a depth of 4".
- Employee parking areas are to be covered with 1.5" gravel maintained to a depth of 4" or treated with chemical dust suppressants at a 4 to 1 ratio on at least a monthly basis to prevent fugitive dust.
- Chemical dust suppressants are to be mixed at a ratio of 20 to 1 and applied to all disturbed surfaces that are proposed to remain inactive for a period of at least 10 consecutive days. These products are effective in preventing and controlling dust. Recordkeeping is necessary to demonstrate compliance.
- All project sites greater than 100 acres shall monitor daily wind speeds and AQMD forecasted wind events (call 1.800.CUT.SMOG, press one for air quality information, and then press five for Coachella Valley wind forecasts). Operators shall maintain these records for review by any local code enforcement officer or AQMD inspector.
- An environmental observer whose primary duty is to oversee dust control at the site is to be used for construction projects greater than 100 acres and/or sites with more than 50 acres of active construction. The environmental observer is tasked with monitoring dust abatement measures and authorized to deploy additional water trucks and other dust control actions (i.e., wind fencing, street sweepers, chemical dust suppressants, etc.) as necessary to prevent or control fugitive dust.
- Other (specify): _____

**Remember...
 DUST CONTROL IS REQUIRED 24 HOURS A DAY, 7 DAYS A WEEK,
 REGARDLESS OF CONSTRUCTION STATUS**

Plan Review Checklist Finish Grading Phase

Water applied continuously to all disturbed portions of the site by means of water truck/water pull as necessary to maintain sufficient visible moisture on the soil surface. For reference, one 2,000 gallon water truck can treat approximately 4 acres of active construction per hour. Also, for cut and fill activities, one 10,000 gallon water pull is estimated to be necessary for each 7,000 cubic yards of daily earth-movement. Multiple 4,000-gallon water trucks may be used in place of a 10,000-gallon water pull. Touch and visual contrast are reasonably good indicators of soil moisture. Surface areas that are dry to the touch and appear lighter-colored require the application of additional water to prevent visible or fugitive dust. Require the Applicant to specify the number of watering vehicles available for dust control during finish grading and during off-hours as well as availability of back-up water trucks if the site experiences dust control problems.

Water towers are necessary for projects with more than 10 acres of active construction. Without a water tower, it can take up to 30 minutes to fill a 2,000 gallon water truck. Also, multiple water towers are necessary for projects that use water pulls as filling one 10,000 gallon water pull can drain a water tower which takes up to 40 minutes to refill.

Wind fencing is necessary between the site and nearby residences or businesses to reduce fugitive dust. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through a site.

Chemical dust suppressants are to be applied at a concentration of at least 10 to 1 to finish graded areas once final elevations have been reached. For areas that will remain inactive for longer periods, vegetation can be a cost-effective alternative to chemical stabilization. Wind fencing or other obstructions can keep the stabilized area free from future disturbances.

Construction site access(es) are to be improved with 1.5" gravel maintained to a depth of at least 4" with a minimum width of at least 20', extending 100 feet into the project site.

Equipment staging areas are to be treated with 1.5" gravel maintained to a depth of 4".

Internal roadway networks are to be treated with chemical dust suppressants at a minimum rate of at least 4 to 1 and retreated on a monthly basis once final roadway elevations have been reached.

Employee parking areas are to be treated with chemical dust suppressants at a mix ratio of at least 4 to 1 and retreated on at least a monthly basis or covered with 1.5" gravel maintained to a depth of 4" to prevent fugitive dust.

Other (specify): _____

**Remember...
DUST CONTROL IS REQUIRED 24 HOURS A DAY, 7 DAYS A WEEK,
REGARDLESS OF CONSTRUCTION STATUS**

Plan Review Checklist Construction Phase

Water applied continuously to all disturbed portions of the site by means of water truck/water pull is necessary to maintain sufficient visible moisture on the soil surface. For reference, one 2,000 gallon water truck can treat approximately 4 acres of active construction per hour. Touch and visual contrast are reasonably good indicators of soil moisture. Surface areas that are dry to the touch and appear lighter-colored require the application of additional water to prevent visible or fugitive dust. Require the Applicant to specify the number of watering vehicles available for dust control during the construction phase and during off-hours as well as availability of back-up water trucks if the site experiences dust control problems.

Wind fencing is necessary between the site and nearby residences or businesses. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through the site. Block walls, if part of the final project, can replace wind fencing during the construction phase.

Chemical dust suppressants are to be applied at a concentration of at least 20 to 1 to finish graded areas once final elevations have been reached. For areas that will remain inactive for longer periods, vegetation can be a cost-effective alternative to chemical stabilization. Wind fencing or other obstructions can keep the stabilized area free from future disturbances.

Construction site accesses are to be improved with 1.5" gravel, maintained to a depth of 4", with a width of at least 20', extending 100' into the project site. Paving internal roadways can substitute for gravel.

Internal roadway networks are to be paved as early as feasible in the construction phase. Street sweeping of internal and/or external access roads will likely be required to control entrained road dust.

Employee parking areas are to be treated with chemical dust suppressants at a mix ratio of no less than 4 to 1 and retreated on a monthly basis, or more frequently if fugitive dust is observed. If internal roadway is complete, employees are to be instructed to park on paved roads.

Other (specify): _____

**Remember...
DUST CONTROL IS REQUIRED 24 HOURS A DAY, 7 DAYS A WEEK,
REGARDLESS OF CONSTRUCTION STATUS**

REASONABLY AVAILABLE CONTROL MEASURES

Paragraph (d)(3) of Rule 403 allows activities outside the South Coast Air Basin (see Figure 2-1) to implement reasonably available control measures in lieu of best available control measures. Additionally, as specified by subparagraph (f)(3)(D) of Rule 403, any person seeking approval of a fugitive dust emissions control plan for projects outside the South Coast Air Basin must demonstrate to the satisfaction of the District that the given activity is employing all reasonably available fugitive dust control measures.

The District has prepared the attached listing of reasonably available fugitive dust control measures for a variety of source categories. This list is based on the U.S. Environmental Protection Agency's reference document entitled, "Control of Open Fugitive Dust Sources," Midwest Research Institute, September 1988.

The District encourages the use of those dust control measures that minimize the use of potable water. When water is needed, reclaimed water should be utilized to the greatest extent feasible.

RULE 403 IMPLEMENTATION HANDBOOK

REASONABLY AVAILABLE CONTROL MEASURES

The left column contains a listing of the sources of fugitive dust which are intended for emission control under District Rule 403 and a listing of control measures and high-wind measures. The right column contains a description of the reasonably available fugitive dust control measures for each of the sources.

Source: (1) Land Clearing/Earth-Moving

CONTROL MEASURES

DESCRIPTION

- (A) Watering
 - (1) Application of water by means of trucks, hoses and/or sprinklers prior to conducting any land clearing. This will increase the moisture content of the soils; thereby increasing its stability.
 - (2) Pre-application of water to depths of proposed cuts.
 - (3) Once the land clearing/earth moving activities are complete, a second application of water can generate a thin crust that stabilizes the disturbed surface area provided that it is not disturbed. (Security fencing can be used to prevent unwanted future disturbances of sites where a surface crust has been created).
- (B) Chemical stabilizers
 - (1) Only effective in areas which are not subject to daily disturbances.
 - (2) Vendors can supply information on product application and required concentrations to meet the specifications established by the Rule.
- (C) Wind fencing
 - (1) Three- to five-foot barriers with 50% or less porosity located adjacent to roadways or urban areas can be effective in reducing the amount of windblown material leaving a site.
 - (2) Would likely be used in conjunction with other measures (e.g., watering, chemical stabilization, etc.) to ensure that visible emissions do not cross a property line.
- (D) Cover haul vehicles
 - (1) Entire surface area of hauled earth should be covered once vehicle is full.
- (E) Bedliners in haul vehicles
 - (1) When feasible, use in bottom-dumping haul vehicles.

HIGH WIND MEASURE

- (a) Cease all active operations; or
- (b) Apply water within 15 minutes to any soil surface which is being moved or otherwise disturbed.

Source: (2) Unpaved Roads

CONTROL MEASURES

- (F) Paving
- (G) Chemical stabilization
- (H) Watering
- (I) Reduce speed limits
- (J) Reduce vehicular trips
- (K) Gravel

DESCRIPTION

- (1) Requires street sweeping/cleaning if subject to material accumulation.
- (1) Vendors can supply information as to application methods and concentrations to meet the specifications established by the Rule
- (2) Not recommended for high volume or heavy equipment traffic use.
- (1) In sufficient quantities to keep surface moist.
- (2) Required application frequency will vary according to soil type, weather conditions, and vehicular use.
- (1) 15 mile per hour maximum. May need to be used in conjunction with watering or chemical stabilization to prevent visible emissions from crossing the property line.
- (1) Access restriction or redirecting traffic to reduce vehicle trips by a minimum of 60 percent.
- (1) Gravel maintained to a depth of four inches can be an effective measure.
- (2) Should only be used in areas where paving, chemical stabilization or frequent watering is not feasible.

HIGH WIND MEASURE

- (c) Apply a chemical stabilizer (to meet the specifications established by the Rule) prior to wind events; or
- (d) Apply water once each hour; or
- (e) Stop all vehicular traffic.

RULE 403 IMPLEMENTATION HANDBOOK

Source: (3) Storage Piles

CONTROL MEASURES

(L) Wind sheltering

DESCRIPTION

- (1) Enclose in silos.
- (2) Install three-sided barriers equal to height of material, with no more than 50 percent porosity.

(M) Watering

- (1) Application methods include: spray bars, hoses and water trucks.
- (2) Frequency of application will vary on site-specific conditions.

(N) Chemical stabilizers

- (1) Best for use on storage piles subject to infrequent disturbances.

(O) Altering load-in/load-out procedures

- (1) Confine load-in/load-out procedures to leeward (downwind) side of the material.
- (2) May need to be used in conjunction with wind sheltering to prevent visible emissions from crossing the property line.

(P) Coverings

- (1) Tarps, plastic, or other material can be used as a temporary covering.
- (2) When used, these should be anchored to prevent wind from removing coverings.

HIGH WIND MEASURE

- (f) Apply chemical stabilizers (to meet the specifications established by the Rule) prior to wind events; or
- (g) Apply water once per hour; or
- (h) Install temporary covers.

Source: (4) Paved Road Track-Out

CONTROL MEASURES

DESCRIPTION

- (Q) Chemical stabilization
 - (R) Sweep/clean roadways
 - (S) Cover haul vehicles
 - (T) Bedliners in haul vehicles
 - (U) Site access improvement
- (1) Most effective when used on areas where active operations have ceased.
 - (2) Vendors can supply information on methods for application and required concentrations.
 - (1) Either sweeping or water flushing may be used.
 - (1) Entire surface area should be covered once vehicle is full.
 - (1) When feasible, use in bottom dumping vehicles.
 - (1) Pave internal roadway system.
 - (2) Most important segment, last 100 yards from the connection with paved public roads

HIGH WIND MEASURE

- (i) Cover all haul vehicles; and
- (j) Clean streets with water flushing, unless prohibited by the Regional Water Quality Control Board.

Source: (5) Disturbed Surface Areas/ Inactive Construction Sites

CONTROL MEASURES

(Q) Chemical stabilization

DESCRIPTION

- (1) Most effective when used on areas where active operations have ceased.
- (2) Vendors can supply information on methods for application and required concentrations.

(R) Watering

- (1) Requires frequent applications unless a surface crust can be developed.

(S) Wind fencing

- (1) Three- to five-foot barriers with 50% or less porosity adjacent to roadways or urban areas can be effective in reducing the amount of wind blown material leaving a site.

(T) Vegetation

- (1) Establish as quickly as possible when active operations have ceased.
- (2) Use of drought tolerant, native vegetation is encouraged.

HIGH WIND MEASURES

- (k) Apply chemical stabilizers (to meet the specifications established by the Rule); or
- (l) Apply water to all disturbed surface areas 3 times per day.

BEST AVAILABLE CONTROL MEASURES

Rule 403, paragraph (d)(2) requires active operations [defined in Rule 403, paragraph (c)(1)] within the South Coast Air Basin (see Figure 2-1) to implement at least one best available control measure for each fugitive dust source type on site. Additionally, as specified by subparagraph (f)(3)(D) of Rule 403, any person seeking approval of a fugitive dust emissions control plan for projects within the South Coast Air Basin must demonstrate to the satisfaction of the AQMD that the given activity is employing all best available fugitive dust control measures.

The AQMD has prepared the attached listing of best available fugitive dust control measures for a variety of source categories. This list is based on the U.S. Environmental Protection Agency's reference document entitled, "Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures," Office of Air and Radiation, September 1992.

The AQMD encourages the use of those dust control measures that minimize the use of potable water. When water is needed, reclaimed water should be utilized to the greatest extent feasible.

BEST AVAILABLE CONTROL MEASURES

The left column contains a listing of the sources of fugitive dust which are intended for emission control under District Rule 403 and a listing of control measures and high-wind measures. The right column contains a description of the best available fugitive dust control measures for each of the sources.

Source: (1) Land Clearing/Earth-Moving

CONTROL MEASURES

DESCRIPTION

- (A) Watering (pre-grading)
 - (1) Application of water by means of trucks, hoses and/or sprinklers prior to conducting any land clearing. This will increase the moisture content of the soils; thereby increasing its stability.
 - (2) Pre-application of water to depths of proposed cuts.
- (A-1) Watering (post-grading)
 - (1) In active earth-moving areas water should be applied at sufficient frequency and quantity to prevent visible emissions from extending more than 100 feet from the point of origin.
- (A-2) Pre-grading planning
 - (1) Grade each phase separately, timed to coincide with construction phase; or
 - (2) Grade entire project, but apply chemical stabilizers or ground cover to graded areas where construction phase begins more than 60 days after grading phase ends.
- (B) Chemical stabilizers
 - (1) Only effective in areas which are not subject to daily disturbances.
 - (2) Vendors can supply information on product application and required concentrations to meet the specifications established by the Rule.
- (C) Wind fencing
 - (1) Three- to five-foot barriers with 50% or less porosity located adjacent to roadways or urban areas can be effective in reducing the amount of windblown material leaving a site. Must be implemented in conjunction with either measure (A-1) or (B).
- (D) Cover haul vehicles
 - (1) Entire surface area of hauled earth should be covered once vehicle is full.
- (E) Bedliners in haul vehicles
 - (1) When feasible, use in bottom-dumping haul vehicles.

HIGH WIND MEASURE

- (a) Cease all active operations; or
- (b) Apply water within 15 minutes to any soil surface which is being moved or otherwise disturbed.

Source: (2) Unpaved Roads

CONTROL MEASURES

DESCRIPTION

- (F) Paving
 - (1) Requires street sweeping/cleaning if subject to material accumulation.
- (G) Chemical stabilization
 - (1) Vendors can supply information as to application methods and concentrations to meet the specifications established by the Rule
 - (2) Not recommended for high volume or heavy equipment traffic use.
- (H) Watering
 - (1) In sufficient quantities to keep surface moist.
 - (2) Required application frequency will vary according to soil type, weather conditions, and vehicular use.
- (I) Reduce speed limits
 - (1) 15 mile per hour maximum. May need to be used in conjunction with watering or chemical stabilization to prevent visible emissions from crossing the property line.
- (J) Reduce vehicular trips
 - (1) Access restriction or redirecting traffic to reduce vehicle trips by a minimum of 60 percent.
- (K) Gravel
 - (1) Gravel maintained to a depth of four inches can be an effective measure.
 - (2) Should only be used in areas where paving, chemical stabilization or frequent watering is not feasible.

HIGH WIND MEASURE

- (a) Apply a chemical stabilizer (to meet the specifications established by the Rule) prior to wind events; or
- (b) Apply water once each hour; or
- (c) Stop all vehicular traffic.

Source: (3) Storage Piles

CONTROL MEASURES

DESCRIPTION

- | | |
|--|--|
| (L) Wind sheltering | (1) Enclose in silos.
(2) Install three-sided barriers equal to height of material, with no more than 50 percent porosity. |
| (M) Watering | (1) Application methods include: spray bars, hoses and water trucks.
(2) Frequency of application will vary on site-specific conditions. |
| (N) Chemical stabilizers | (1) Best for use on storage piles subject to infrequent disturbances. |
| (O) Altering load-in/load-out procedures | (1) Confine load-in/load-out procedures to leeward (downwind) side of the material.
Must be used in conjunction with either measure (L), (M), (N), or (P). |
| (P) Coverings | (1) Tarps, plastic, or other material can be used as a temporary covering.
(2) When used, these should be anchored to prevent wind from removing coverings. |

HIGH WIND MEASURE

- (a) Apply chemical stabilizers (to meet the specifications established by the Rule) prior to wind events; or
- (b) Apply water once per hour; or
- (c) Install temporary covers.

RULE 403 IMPLEMENTATION HANDBOOK

Source: (4) Paved Road Trash-Out

CONTROL MEASURES

Compliance with District Rule 403.

DESCRIPTION

Paragraph (4)(5)

Source: (S) Disturbed Surface Areas/ Inactive Construction Sites

CONTROL MEASURES

(Q) Chemical stabilization

DESCRIPTION

- (1) Most effective when used on areas where active operations have ceased.
- (2) Vendors can supply information on methods for application and required concentrations.

(R) Watering

- (1) Requires frequent applications unless a surface crust can be developed.

(S) Wind fencing

- (1) Three- to five-foot barriers with 50% or less porosity adjacent to roadways or urban areas can be effective in reducing the amount of wind blown material leaving a site. Must be used in conjunction with either measure (Q), (R), or (T).

(T) Vegetation

- (1) Establish as quickly as possible when active operations have ceased.*

HIGH WIND MEASURES

- (a) Apply chemical stabilizers (to meet the specifications established by the Rule); or
- (b) Apply water to all disturbed surface areas 3 times per day.

* Use of drought tolerant, native vegetation is encouraged.

TABLE 1

BEST [REASONABLY]* AVAILABLE CONTROL MEASURES FOR HIGH WIND CONDITIONS

FUGITIVE DUST SOURCE CATEGORY	<u>CONTROL MEASURES</u>
Earth-moving	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice [once] per hour during active operation; OR (3C) Stop all vehicular traffic.
Open storage piles	(1D) Apply water twice [once] per hour; OR (2D) Install temporary coverings.
Paved road track-out	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 1 may be used.

* Measures in [brackets] are reasonably available control measures and only apply to sources not within the South Coast Air Basin.

TABLE 2
DUST CONTROL ACTIONS FOR EXEMPTION FROM PARAGRAPH (d)(4)*

<u>FUGITIVE DUST SOURCE CATEGORY</u>	<u>CONTROL ACTIONS</u>
Earth-moving (except construction cutting and filling areas, and mining operations)	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
Earth-moving: Construction fill areas:	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>

* Measures in [brackets] are reasonably available control measures and only apply to sources not within the South Coast Air Basin.

TABLE 2 (Continued)

<u>FUGITIVE DUST SOURCE CATEGORY</u>	<u>CONTROL ACTIONS</u>
Earth-moving: Construction cut areas and mining operations:	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 [70] percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c) Apply chemical stabilizers within five working days of grading completion; OR (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a) Apply water to at least 80 [70] percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (3c) Establish a vegetative ground cover within 21 [30] days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

* Measures in [brackets] are reasonably available control measures and only apply to sources not within the South Coast Air Basin.

TABLE 2 (Continued)

<u>FUGITIVE DUST SOURCE CATEGORY</u>	<u>CONTROL ACTIONS</u>
Unpaved Roads	<p>(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR</p> <p>(4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR</p> <p>(4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.</p>
Open storage piles	<p>(5a) Apply chemical stabilizers; OR</p> <p>(5b) Apply water to at least 80 [70] percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR</p> <p>(5c) Install temporary coverings; OR</p> <p>(5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile.</p>
<u>All Categories</u>	<p>(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.</p>

* Measures in [brackets] are reasonably available control measures and only apply to sources not within the South Coast Air Basin.

TABLE 3
TRACK-OUT CONTROL OPTIONS
PARAGRAPH (d)(5)(B)

CONTROL OPTIONS

(1)	Pave or apply chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface starting from the point of intersection with the public paved surface, and extending for a centerline distance of at least 100 feet and a width of at least 20 feet.
(2)	Pave from the point of intersection with the public paved road surface, and extending for a centerline distance of at least 25 feet and a width of at least 20 feet, and install a track-out control device immediately adjacent to the paved surface such that exiting vehicles do not travel on any unpaved road surface after passing through the track-out control device.
(3)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

**STREET, STORM DRAIN, TRAFFIC SIGNAL, AND SIGNING & STRIPING
IMPROVEMENT FOR
PYRITE STREET
FROM JURUPA ROAD TO MISSION BOULEVARD**

SPECIAL PROVISIONS

DESCRIPTION:

In general, this project consists of street improvements, storm drain improvements, traffic signal modification, flashing beacon installation, fence improvements, and signing & striping improvements on Pyrite Street between Jurupa Road and Mission Boulevard the City of Jurupa Valley. The work involves removal and replacement of curb & gutter, sidewalk, and driveway, installation of new aggregate base and asphalt concrete pavement, pulverizing existing pavement and base and then be mixed with asphalt foam emulsion to create base, cold planning existing asphalt concrete pavement, modifying existing traffic signal, installation of school flasher, constructing concrete curb, gutter, curb ramp, sidewalk, raised median, installing storm drain pipes and pre-cast boxes, removing Union Pacific Rail Road tracks and installing street encasement for the storm drain, installation of catch basins, removal of traffic stripes and pavement markings, placing thermoplastic pavement markings and markers, installing/relocating roadside signs, striping, relocation and adjustment of water meters, water valves, and manholes, adjustment of DTSC monitoring wells, relocation of existing utilities, and other work as may be required.

SPECIFICATIONS:

This project shall conform to the requirements of the May 2006 edition of the Standard Specifications and Standard Plans as issued by the State of California Department of Transportation.

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

- Class "A" shall mean Class "2"
- Class "B" shall mean Class "3"
- Class "C" shall mean Class "4"
- Class "D" shall mean Class "1"

PRECEDENCE:

In event of conflict between various provisions of the plans and specifications, the provisions more restrictive of the Contractor shall apply. In event of conflict that cannot be resolved by restrictiveness, the document highest in precedence shall control. The precedence shall be:

- a. Federal and State requirements (where applicable)
- b. Permits from Agencies having jurisdictions
- c. Special Provisions
- d. General Provisions
- e. Plans (Drawings)
- f. Standard Drawings

PROGRESS SCHEDULE (CRITICAL PATH):

Progress schedules will be required for this contract. Within 10 working days of award of the contract, the Contractor shall submit to the Engineer a baseline progress schedule. The baseline progress schedule shall utilize a Critical Path Method (CPM) network diagram that clearly shows sequence and duration of major construction activities, the ability to complete the work, effect on traffic control and the length of time the public right-of-ways are affected. The Contractor is encouraged to consider segmenting and sequencing work to facilitate traffic control and minimize any traffic delays. By execution of the contract, the Contractor represents that it has analyzed the work, materials and methods involved, the restrictions of the project site, and the Contractor's own work load and capacity to perform the work, and also agrees that the specified durations are reasonable.

The Progress Schedule submitted shall meet in all respects the time and order of work requirements of the contract. The work shall be executed in the sequence indicated in the approved Progress Schedule and subsequent approved updates and revisions. The Contractor shall be responsible for assuring that all work sequences are logical and that the network shows a coordinated plan for complete performance of the work. Failure of the Contractor to include any element of work, or any inaccuracy in the Progress Schedule will not relieve the Contractor from the responsibility of accomplishing all the work in accordance with the contract documents and within the contract time.

Critical activities are defined as activities, which, if delayed or extended, will delay the scheduled completion of one or more of the milestones specified in this section. All other work activities are defined as non-critical and are considered to have float. Float is defined as the time that a non-critical work activity can be delayed or extended without delaying the scheduled completion of the work. Delays of any non-critical work activity shall not be the basis for an extension of contract time until the delays consume the float associated with the non-critical work activity and cause the work to become critical.

Initial Submittal:

The Contractor shall submit three (3) copies of the initial Progress Schedule to the Engineer including the following reports:

1. CPM Schedule - A Critical Path Method (CPM), time-scaled network diagram showing continuous flow from left to right;
2. Tabular Report - A tabular report displaying the activity identifier, activity descriptions, activity duration, planned early start and early finish dates, planned late start and late finish dates and calculated total float for each activity. The tabular report shall include the budget cost and required manpower associated with each activity. The tabular reports shall be sorted by identification number, early start, and total float;
3. Narrative Report - A brief narrative report discussing the assumptions used to generate the schedule and identifications of any potential problems.

Format:

The initial Progress Schedule shall be in sufficient detail as to demonstrate adequate planning for the work, and represent a practical plan to complete the work within the contract time for each intermediate milestone and for the entire contract within the specified working days from date of the Notice To Proceed as stated in Section 3 of the General Conditions.

The Contractor shall establish specific contract milestones to be identified in the initial Progress Schedule and all subsequent submittals. These milestones shall be tied to any segmenting and sequencing identified in the bid submittal.

The initial Progress Schedule shall also include, but not limited to, the following:

Dates for the submission, review, and approval of each submittal. Dates shall be shown for the procurement, fabrication, delivery, and installation of major equipment, materials, and other scheduled activities as designated by the Engineer.

Identification of all work activities that constitute the critical path and all other activities. Indication of dependencies and logic between activities. Identification of proposed durations and sequencing of all construction activities. These activities shall be cost and manpower loaded.

Within seven (7) days after receipt of the initial submittal, the Engineer will notify the Contractor of its acceptance or its review comments about the schedule so that appropriate adjustments may be made by the Contractor in the initial Progress Schedule.

The Contractor shall within five (5) days from receipt of the Engineer's comments, either respond to Engineer's comments, or formally request a joint meeting to resolve any objections to the Engineer's comments.

Progress Schedule Updates:

The Progress Schedule shall be updated on a monthly basis for the purpose of recording and monitoring the progress of work and shall constitute the basis for payments. The Contractor shall submit three (3) copies of the updated Progress Schedule. The updated Progress Schedule shall follow the guidelines of the initial Progress Schedule submittal and shall include the following:

1. Accurate reflection of all previously completed activities and the percent complete of work activities in progress;
2. All changes mutually agreed upon by the Contractor and the Engineer during preceding periodic review and all changes resulting from change orders;
3. The Engineer will review the updated contract schedule within seven (7) days after its receipt and comment;
4. The Contractor shall perform the work in accordance with the accepted updated Progress Schedule.

Revisions to the Schedule:

Updating the schedule to reflect actual progress made up to the date of an update will not be considered revision to logic, sequence and schedule; in case of disagreements concerning actual progress to date, the Engineer's determination will govern.

The Contractor shall begin all work necessary to install sidewalk along Eller Park and traffic signals as soon as possible after receiving Notice to Proceed.

MOBILIZATION

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the Caltrans Standard Specifications.

As part of mobilization, the Contractor shall also provide a single place (job board, etc.) to place all required federal forms, Cal/OSHA and EEO labor compliance posters, all permits, all safety items, and any and all paperwork that must be posted in public view.

Staging Area

The Contractor shall be responsible to secure the staging area. The Contractor shall ensure that no materials, equipment or personnel occupy or travel over adjacent property that is outside of the staging area. The Contractor shall be fully responsible for the security of his equipment and materials. Care shall be taken to avoid any contamination of the property from spills of any materials or contaminants, including gasoline, oil, concrete, etc., and any spills shall be completely and promptly removed. Upon completion of construction, the property shall be returned to its original condition, to the greatest extent possible. Final payment will not be made until the condition of the staging property is inspected and approved by the Engineer.

Mobilization shall be paid for at the Contract **Lump Sum** Price as shown on the Bid Schedule. Fifty percent (50%) of the lump sum price will be paid upon successful move in and completion of mobilization. The remaining fifty percent (50%) shall be paid after the contractor is completely demobilized and all project sites have satisfactorily been restored and the project clean up is completed.

DISPOSAL OF EXCESS EXCAVATION OR MATERIALS:

Excess earth excavation, pavement grindings and other excess materials resulting from construction operations shall be disposed of by the Contractor outside of the highway right of way, as provided in Section 7-1.13 of the Standard Specifications.

The second paragraph of Section 7-1.13 of the Standard Specifications is modified to read as follows:

When any material is to be disposed of outside the highway right of way, and the County of Riverside has not made arrangements for the disposal of such material, the Contractor shall first obtain written authorization from the property owner on whose property the disposal is to be made and he shall file with the Engineer said authorization or a certified copy thereof together with a written release from the property owner absolving the County of Riverside from any and all responsibility in connection with the disposal of material on said property. If the disposal of materials is to be made at an established disposal facility that is available for public use, the Contractor shall retain all authorizations and receipts from said disposal facility and shall provide copies to the Engineer upon request.

RECORD DRAWINGS:

The Contractor shall keep one clean set of bond originals to note any changes which take place during construction. These changes to the original plans and/or specifications shall be noted at the appropriate locations with the appropriate changes indicated in red pencil or ink. The Contractor shall note in large letters "RECORD DRAWINGS" on the Title Sheet of the plans. The

job will not be finalized by the Engineer until these record drawings have been completed to the satisfaction of the Engineer. The changes shall be noted on the plans as the changes occur. The record drawings shall be submitted to the Resident Engineer, and become the property of the County at conclusion of the project.

Full compensation for maintaining and compiling the record drawings shall be considered to be included in other items of work and no additional compensation will be allowed therefor.

LIQUIDATED DAMAGES:

The Contractor shall diligently prosecute the work to completion before the expiration of **180** Calendar days from the date stated in the "Notice to Proceed". The Contractor shall pay to the County of Riverside the sum of **\$1,000.00** per day, for each and every calendar day's delay in finishing the work in excess of the number of working days prescribed above.

NOTICE OF POTENTIAL CLAIM

NOTICE OF POTENTIAL CLAIM

It is the intention of this section that disputes between the parties arising under and by virtue of the contract be brought to the attention of the Engineer at the earliest possible time in order that the matters may be resolved, if possible, or other appropriate action promptly taken.

Disputes will not be considered unless the Contractor has first complied with specified notice or protest requirements, including Section 4 1.03, "Changes," Section 5 1.116, "Differing Site Conditions," Section 8 1.06, "Time of Completion," Section 8 1.07, "Liquidated Damages," and Section 8 1.10, "Utility and Non Highway Facilities."

For disputes arising under and by virtue of the contract, including an act or failure to act by the Engineer, the Contractor shall provide a signed written initial notice of potential claim to the Engineer within 5 days from the date the dispute first arose. The initial notice of potential claim shall provide the nature and circumstances involved in the dispute which shall remain consistent through the dispute. The initial notice of potential claim shall be submitted on Form CEM 6201A furnished by the Department and shall be certified with reference to the California False Claims Act, Government Code Sections 12650 12655. The Contractor shall assign an exclusive identification number for each dispute, determined by chronological sequencing, based on the date of the dispute.

The exclusive identification number for each dispute shall be used on the following corresponding documents:

- A. Initial notice of potential claim.
- B. Supplemental notice of potential claim.
- C. Full and final documentation of potential claim.
- D. Corresponding claim included in the Contractor's written statement of claims.

The Contractor shall provide the Engineer the opportunity to examine the site of work within 5 days from the date of the initial notice of potential claim. The Contractor shall proceed with the performance of contract work unless otherwise specified or directed by the Engineer.

Throughout the disputed work, the Contractor shall maintain records that provide a clear distinction between the incurred direct costs of disputed work and that of undisputed work. The Contractor shall allow the Engineer access to the Contractor's project records deemed necessary by the Engineer to evaluate the potential claim within 20 days of the date of the Engineer's written request.

Within 15 days of submitting the initial notice of potential claim, the Contractor shall provide a signed supplemental notice of potential claim to the Engineer that provides the following information:

- A. The complete nature and circumstances of the dispute which caused the potential claim.
- B. The contract provisions that provide the basis of claim.
- C. The estimated cost of the potential claim, including an itemized breakdown of individual costs and how the estimate was determined.
- D. A time impact analysis of the project schedule that illustrates the effect on the scheduled completion date due to schedule changes or disruptions where a request for adjustment of contract time is made.

The information provided in items A and B above shall provide the Contractor's complete reasoning for additional compensation or adjustments.

The supplemental notice of potential claim shall be submitted on Form CEM 6201B furnished by the Department and shall be certified with reference to the California False Claims Act, Government Code Sections 12650 12655. The Engineer will evaluate the information presented in the supplemental notice of potential claim and provide a written response to the Contractor within 20 days of its receipt. If the estimated cost or effect on the scheduled completion date changes, the Contractor shall update information in items C and D above as soon as the change is recognized and submit this information to the Engineer.

Within 30 days of the completion of work related to the potential claim, the Contractor shall provide the full and final documentation of potential claim to the Engineer that provides the following information:

- A. A detailed factual narration of events fully describing the nature and circumstances that caused the dispute, including, but not limited to, necessary dates, locations, and items of work affected by the dispute.
- B. The specific provisions of the contract that support the potential claim and a statement of the reasons these provisions support and provide a basis for entitlement of the potential claim.

C. When additional monetary compensation is requested, the exact amount requested calculated in conformance with Section 9 1.03, "Force Account Payment," or Section 8 1.09, "Right of Way Delays," including an itemized breakdown of individual costs. These costs shall be segregated into the following cost categories:

1. Labor – A listing of individuals, classifications, regular hours and overtime hours worked, dates worked, and other pertinent information related to the requested reimbursement of labor costs.
2. Materials – Invoices, purchase orders, location of materials either stored or incorporated into the work, dates materials were transported to the project or incorporated into the work, and other pertinent information related to the requested reimbursement of material costs.
3. Equipment – Listing of detailed description (make, model, and serial number), hours of use, dates of use and equipment rates. Equipment rates shall be at the applicable State rental rate as listed in the Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates," in effect when the affected work related to the dispute was performed.
4. Other categories as specified by the Contractor or the Engineer.

D. When an adjustment of contract time is requested the following information shall be provided:

1. The specific dates for which contract time is being requested.
2. The specific reasons for entitlement to a contract time adjustment.
3. The specific provisions of the contract that provide the basis for the requested contract time adjustment.
4. A detailed time impact analysis of the project schedule. The time impact analysis shall show the effect of changes or disruptions on the scheduled completion date to demonstrate entitlement to a contract time adjustment.

E. The identification and copies of the Contractor's documents and the substance of oral communications that support the potential claim.

The full and final documentation of the potential claim shall be submitted on Form CEM 6201C furnished by the Department and shall be certified with reference to the California False Claims Act, Government Code Sections 12650 12655.

Pertinent information, references, arguments, and data to support the potential claim shall be included in the full and final documentation of potential claim. Information submitted subsequent to the full and final documentation submittal will not be considered. Information required in the full and final documentation of potential claim, as listed in items A to E above, that is not applicable to the dispute may be exempted as determined by the Engineer. No full and final documentation of potential claim will be considered that does not have the same

nature and circumstances, and basis of claim as those specified on the initial and supplemental notices of potential claim.

The Engineer will evaluate the information presented in the full and final documentation of potential claim and provide a written response to the Contractor within 30 days of its receipt unless otherwise specified. The Engineer's receipt of the full and final documentation of potential claim shall be evidenced by postal receipt or the Engineer's written receipt if delivered by hand. If the full and final documentation of potential claim is submitted by the Contractor after acceptance of the work by the Director, the Engineer need not provide a written response.

Provisions in this section shall not apply to those claims for overhead costs and administrative disputes that occur after issuance of the proposed final estimate. Administrative disputes are disputes of administrative deductions or retentions, contract item quantities, contract item adjustments, interest payments, protests of contract change orders as provided in Section 4 1.03A, "Procedure and Protest," and protests of the Weekly Statement of Working Days as provided in Section 8 1.06, "Time of Completion." Administrative disputes that occur prior to issuance of the proposed final estimate shall follow applicable requirements of this section. Information listed in the supplemental notice and full and final documentation of potential claim that is not applicable to the administrative dispute may be exempted as determined by the Engineer.

Unless otherwise specified in the special provisions, the Contractor may pursue the administrative claim process pursuant to Section 9 1.07B, "Final Payment and Claims," for any potential claim found by the Engineer to be without merit.

Failure of the Contractor to conform to specified dispute procedures shall constitute a failure to pursue diligently and exhaust the administrative procedures in the contract, and is deemed as the Contractor's waiver of the potential claim and a waiver of the right to a corresponding claim for the disputed work in the administrative claim process in conformance with Section 9 1.07B, "Final Payment of Claims," and shall operate as a bar to arbitration pursuant to Section 10240.2 of the California Public Contract Code.

POTHOLING OF EXISTING UTILITIES BY CONTRACTOR

The Engineer has shown from a record research the approximate location of known underground interference facilities. Contractor shall field determine the exact location and depth of all existing underground interference and points of connection to existing water mains; and immediately notify the Engineer in the event there is a conflict with the proposed pipeline alignment or grades. The Owner reserves the right to make minor adjustments in alignment and grade, all at no additional cost to the Owner.

Where underground main distribution conduits such as water, sewer, gas, electric power, telephone or cable television are shown on the Drawings, the Contractor shall assume, for the purpose of preparing a Bid, that every property parcel will be served by at least one (1) service connection for each type of utility.

Contractor shall submit a signed report to the Owner describing the findings of the potholing efforts prior to the commencement of construction. Said report shall include at the minimum; the vertical and horizontal locations of the potholed facilities, the size(s) and material of the conduit(s), and the orientation of facilities. If Contractor does not report any conflict regarding the existing facilities and the proposed facilities, the Owner will assume that the proposed design is sufficient. If significant interference is found facilities existing during the initial potholing effort, Contractor shall begin construction on the end of the proposed to accommodate re-designing efforts. If, during construction a conflict between facility arises, all additional costs for re-designing the proposed pipeline shall be borne by Contractor and have no additional cost to the Owner.

As provided in Section 4216 of the California Government Code, at least two (2) working days prior to commencing any excavation, if the excavation will be conducted in an area which is known, to contain subsurface installations, the Contractor shall contact the regional notification center (Underground Service Alert of Southern California) and obtain an inquiry identification number.

Potholing shall be considered as included in the prices paid for the various contract items of work involving the use of potholing no separate payment will be made therefor.

PRECONSTRUCTION AUDIO VIDEO

The Contractor shall make arrangements with a professional photographer, approved by the Owner, to prepare a full color pre-construction audio and video tape of the project site with the Inspector present prior to mobilizing and provide the Owner with a DVD copy.

TRAFFIC CONTROL SYSTEM:

Maintaining traffic shall conform to the provisions in Caltrans Standard Specifications, Sections 7-1.02 "Load Limitations", 7-1.06 "Safety and Health Provisions", 7-1.08 "Public Convenience", 7-1.09 "Public Safety", and 12-3.04 "Portable Delineators" of the Standard Specifications, the Manual of Traffic Controls, the Section of these contract documents entitled "Insurance - Hold Harmless", and these Special Provisions.

All existing traffic control signs and street name signs shall be maintained in visible locations as directed by the Engineer.

All warning lights, signs, flares, barricades and other facilities for the sole convenience and direction of public traffic shall be furnished and maintained by the Contractor. All signs shall conform to and be placed in accordance with latest edition of California Manual on Uniform Traffic Control Devices for Street and Highways.

All construction signs shall be either covered or removed when not required by the nature of the work or if no present hazard to the motorist exists.

No payment for extra work will be allowed for work performed as specified in Caltrans Standard Specifications, Section 12-2.02 (Flagging Costs) of the Standard Specifications. Flagging costs will be borne entirely by the Contractor.

The contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 working days, but not more than 14 calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert- Southern California (USA)	1-800-422-4133 1-800-227-2600 or 811

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

Dust control shall conform to the provision of Caltrans Standard Specifications, Section 10 except that no extra work will be allowed when the Engineer orders the application of water for the purpose of controlling dust caused by public traffic as provided for in the last paragraph of said Section 10.

The contractor shall prepare traffic control and staging plan for the improvements within the County right of way.

The Contractor shall be responsible to distribute an information letter pertaining to the planned work to all affected residences and businesses, at least one week prior to commencing work adjacent to those residences and businesses. It shall be the responsibility of the Contractor to design the information letter, obtain design approval from the Engineer, print sufficient copies, and distribute the letter. The Transportation Department or EDA logo shall be included on the letter. A computer file of the logo may be obtained from the Engineer in .WPG, .DXF, .DGN or .DWG format. The letter shall be similar to the sample provided by the Engineer, and shall include a project description, the scope of work, the anticipated construction schedule, and other information as appropriate.

The Contractor shall post temporary no parking signs on affected streets 24 hours prior to work on those streets. The temporary no parking signs shall state the anticipated dates and hours of work on those streets.

The Contractor may require to perform night time work to complete the project. There shall be no additional measurement or payment made for night time work.

Payment - Full compensation, except as otherwise provided herein, for conforming to the requirements of this article, preparing traffic control and construction staging plans, including furnishing, installing and maintaining all traffic control devices, temporary pavement markings, construction signs, traffic directing services, and all the other items shown on the traffic control plan, shall be paid for on a lump sum basis, and no additional compensation will be allowed therefore.

ENCROACHMENT PERMIT:

It shall be the responsibility of the Contractor to obtain City of Jurupa Valley Encroachment Permit required for the work done within the City of Jurupa Valley right-of-way prior to commencing any work.

It shall be the responsibility of the Contractor to obtain Encroachment Permit from Union Pacific Railroad for the work done within the railroad right-of-way prior to commencing any work within rail road right of way.

The contractor shall submit a request for payment for Encroachment Permit fees paid upon completion of all work with City and railroad rights of ways. The request shall include copies of the Encroachment Permit and all receipts and refund payment documents issued by Caltrans, the City of Menifee, and rail road.

In addition to the requirements of the general condition entitled "Insurance –Hold Harmless" of the contract documents, the Contractor's Certificate of Insurance and endorsements for the project shall name the following listed entities as additional insured under the contractor's general liability, excess liability, and auto liability insurance policies, and each listed entity shall be named on the Waiver of Subrogation for the Contractor's Workers Compensation policy.

1. "The County of Riverside, its officers, directors, agents and employees";
2. "The City of Jurupa Valley, its officers, directors, agents and employees";
3. UPRR, it's officers, directors, agents, and employees;

Each of the above listed entities shall also be held harmless, in accordance with the requirements of the subsection "Hold Harmless" of the General Condition entitled "Insurance – Hold Harmless" of the contract documents:

Full compensation for the actual cost of Encroachment Permit fees, as paid by Contractor to Caltrans and City of Menifee, shall be made on a force account basis, in accordance with Section 9-1.03 of the Standard Specifications and these Special Provisions, up to the fixed bid

price. No markups will be allowed. All incidental costs incurred by the contractor, including the insurance requirements set forth herein, shall be considered as included in the various items of work, and no compensation will be allowed therefor.

DUST CONTROL:

Within 10 working days of award of the contract, the Contractor shall submit to the Engineer, the 24-hour contact information (name and phone number) for the person responsible for dust control implementation. In the event the Engineer deems dust control mitigation measures are needed, the 24-hour contact person shall be available to implement any and all dust control mitigation measures.

The contractor shall prepare Dust Control and Water Pollution Control Plans. The contractor shall provide dust control for disturbed area during construction and one post construction application. The contractor shall use Gorilla Snot or similar application during construction and Powdered Soiltec or similar application for the post construction. No separate measurement or payment will be made.

National Pollutant Discharge Elimination System (NPDES)

Santa Ana Watershed

The Contractor shall comply with the requirements of Board Order No. R8-2010-0033 (NPDES No. CAS618033), NPDES Area-Wide Municipal Stormwater Permit, hereafter referred to in this Section as the "Permit", issued by the California Regional Water Quality Control Board (CRWQCB) – Santa Ana Region. This Permit regulates both stormwater and non-stormwater discharges associated with Contractor's construction activities. The Contractor shall prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) in accordance with Section 29 "Stormwater and Non-Stormwater Pollution Control" of the Detailed Specifications.

The Contractor's attention is directed to: 1) Section 29.2 "General Requirements" which allows the Engineer to withhold progress payments if the Contractor fails to fully implement Section 29 "Stormwater and Non-Stormwater Pollution Control" or is deemed to be in non-compliance with the provisions of the Permit; 2) Section 29.3 "Permit Registration Documents (PRDs) Preparation and Approval" which requires that the PRDs be prepared and approved prior to the Pre-Construction meeting; and 3) Section 29.6 "SWPPP Implementation" which allows the Engineer to suspend construction operations if the Contractor fails to implement the approved SWPPP and any amendments thereto.

DETAILED SPECIFICATIONS

SECTION 11 - WATER CONTROL

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

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

11.3 Measurement and Payment - The methods of controlling both surface and groundwater will be the responsibility of the Contractor. The contract lump sum price paid for Water Control shall include full compensation for all direct and indirect costs incurred under this section, and for doing all the work involved in controlling surface runoff and groundwater within the construction area, as specified in these Detailed Specifications, and as directed by the Engineer.

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

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

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

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

Temporary bridges shall have a minimum width of 12 feet for residential driveways and 24 feet for business driveways, and shall be designed for an AASHTO H20 truck loading. Steel

plates placed over the trench shall have a minimum thickness of 1.25" and the surface shall be roughened or coated to provide a non-skid surface. For spans greater than 4 feet, a structural design shall be prepared by a Registered Civil Engineer and submitted to the District for review and approval.

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

CLEARING AND GRUBBING:

Clearing and grubbing shall conform to the provisions in Sections 15 and 16 of the Standard Specifications and as directed by the Engineer. Removal of existing pavement, base, and sub-grade material shall be covered under Roadway Excavation. Removal of curb & gutter, sidewalk, ramps, driveways, concrete, asphalt concrete dike, asphalt concrete sidewalk, drainage inlet, trees, and fence shall be included in the installation of respected items. Removal of other existing facilities in order to completely construct the project shall be covered under Clearing and Grubbing and no additional measurement or payment made.

For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments" of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be maximum total value of said contract item of work which will be recognized for progress payment purposes: Clearing and Grubbing - \$ 20,000.00

After acceptance of the contract pursuant to Section 7-1.17, "Acceptance of Contract" of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes herein above listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

Payment - Full compensation, except as otherwise provided herein, for conforming to the requirements of this article shall be paid for on a lump sum basis and no additional compensation will be allowed therefor.

WATERING:

Watering shall conform to the provisions in Section 17, "Watering" of the Standard Specifications, except that full compensation for developing water supply shall be considered as included in the prices paid for the various contract items of work involving the use of water and no separate payment will be made therefor.

FINISHING ROADWAY:

Finishing roadway shall conform to Section 22 of the Standard Specifications, except that full compensation therefor shall be considered as included in the prices paid for the various items of work and no separate payment will be made.

COLD PLANE ASPHALT CONCRETE (GRIND ASPHALT CONCRETE)

The Contractor shall cold plane the asphalt concrete pavement as shown on the approved plans or as directed by the Engineer.

The outside lines of the planed area shall be neat and uniform. The road surfacing to remain in place shall not be damaged in any way.

The material planed from the roadway surface, including material deposited in existing gutters or on the adjacent traveled way shall become the property of the Contractor and shall be immediately removed from the site of the work and disposed of as provided in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way", of the Standard Specifications. The removal crew shall follow within 50 feet of the planer, unless otherwise directed by the Engineer.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.09, "Public Safety" of the Standard Specifications.

The contract unit bid price paid per square yard for Cold Plane Asphalt Concrete Pavement shall include full compensation for providing all labor, tools, equipment and disposing of the grindings and no additional compensation will be allowed therefor.

ROADWAY EXCAVATION:

Earthwork shall conform to the provisions of Section 19 of the Caltrans Standard Specifications and these Special Provisions.

At road connections and at limits of asphalt paving, existing pavement shall be header cut, plans show 0.10' depth and 2' minimum by width of existing surfacing. Full compensation for furnishing all labor, tools and doing all the work necessary including grinding, and sawcutting shall be considered as included in the contract prices paid per ton for the various asphalt concrete items and no additional compensation will be allowed therefore.

Existing pavement including any base material shall be cut back to neat lines and removed as shown on the plans or as directed by the Engineer. Excess material will become the property of the Contractor and will be disposed of as provided in Section 7-1.13 of the Caltrans Standard Specifications.

Pavement and base material removal including asphalt concrete dikes, curb & gutter, sidewalks, steps and driveways will be considered as roadway excavation for payment purposes.

Following items are included in the roadway excavation and no separate payment will be made:

Removal of existing pavement, asphalt dike, curb & gutter, sidewalks, steps and driveways and base material.

Sawcut and grinding existing pavement.

The unit price paid per cubic yard for Roadway Excavation shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved including compaction as directed by the Engineer and no additional compensation will be allowed therefore.

EARTHWORK

Included under "Earthwork" will be all operations involved in grading roadway excavation or embankment construction required to bring the roadway section to the approved grade, and such drainage and structure excavation and backfill as may be required. These operations to include the performance of all incidental work of whatsoever nature required to construct the roadway subgrade and the approaches thereto, and to maintain them in the form specified until the final acceptance.

All earthwork shall conform with the applicable provisions of Section 19 of the Caltrans Standard Specifications except as herein modified.

The provisions of the second paragraph of Section 19-5.03 of the Caltrans Standard Specifications shall not be required.

There shall be no additional measurement or payment will be made for Roadway Earthwork Excavation or Embankment and shall be considered included in the Clearing and Grubbing.

LOCAL BORROW

Local Borrow generated within the project limits shall comply with the requirements in the Caltrans Standard Specifications and these special provisions. Local Borrow incorporated into the work shall conform to the provisions of Section 19-7.01 of the Caltrans Standard Specifications and these Special Provisions. The material shall have a sand equivalent value of 20 or greater, and an R-value of 40 or greater.

Local Borrow shall be generated from within the project limits for incorporation into the project. There will not be a designated borrow site established, and materials from throughout

the project limits may be utilized as borrow provided that the material meets the requirements of these Special Provisions.

Local Borrow shall be inorganic, non-expansive granular soils free from rocks or lumps greater than 8 inches in maximum dimension, except as allowed herein. All provisions for water pollution, air pollution, and sound control that apply within the limits of the contract shall apply to all borrow sites utilized by the Contractor.

All suitable material generated within the right-of-way shall be incorporated into the project. Any large rocks (boulders, etc.) shall be broken into sizes appropriate for its use. Acceptable uses shall include, but shall not be limited to embankment, deep fill and rip-rap.

All rock which cannot be broken into pieces smaller than 1.0 ton by mechanical means shall be blasted in accordance with the Special Provisions for such work. Full compensation for such rock blasting shall be considered as included in the unit price paid for Rock Excavation, and no additional compensation will be allowed therefore.

Payment for incorporating all material within the right-of-way into the project shall be paid as Clearing and Grubbing, including transportation from excavation site to placement site, and including all labor, equipment, materials and incidentals necessary, and no additional compensation will be allowed therefore.

Imported Borrow:

Imported borrow shall conform to the provisions of Section 19-7.02 of the Caltrans Standard Specifications, and shall be material that is similar or better in quality than the existing basement soil.

Payment for Imported Borrow shall be paid for under the bid item Imported Borrow on a lump sum basis and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, for doing all work involved as directed by the Engineer.

Relative Compaction:

Whenever relative compaction is specified to be determined by Test Method No. Calif. 216, the in-place density may be determined by Test Method No. Calif. 231. The in-place density required by Test Method No. Calif. 312 may be determined by Test Method No. 231. The wet weight or dry weight basis and English Units of Measurement may be used at the option of the Materials Engineer.

AGGREGATE BASE:

Aggregate base shall be Class 2 and shall conform to the provisions in Section 26, "Aggregate Bases" of the Standard Specifications and these Special Provisions and shall meet the gradation requirements for 3/4 inch maximum.

The first paragraph of Section 26-1.02A, "Class 2 Aggregate Base" shall be modified to read:

Aggregate for Class 2 aggregate base shall be free from organic matter and other deleterious matter, and shall be of such nature that it can be compacted readily under watering and rolling to form a firm and stable base. Aggregate may consist of broken and crushed asphalt concrete or Portland cement concrete and may contain crushed aggregate base or other rock materials. The material may contain no more than 3 percent brick by weight as determined by California Test Method 202 as modified: Brick material retained on a No.4 sieve shall be identified visually and separated manually. Brick quantification shall be based on total weight of dry sample. Also, material retained on the 4.75 mm (No.4) sieve shall contain no more than 15 percent of particles (gravel) that have no more than one fractured face.

The Quality Requirements contained in Section 26-1.02A shall be modified to read:

QUALITY REQUIREMENTS

Test	Contract Compliance
Resistance (R-Value)	
Virgin Rock	78 Minimum
Crushed Miscellaneous	80 Minimum
Sand Equivalent	35 Minimum
Durability Index	35 Minimum
Percentage Wear	
100 Revolutions	15 Maximum
500 Revolutions	52 Maximum

Quantities of Aggregate Base will be paid for at the contract unit price per cubic yard and in accordance with the provisions of Sections 26-1.06 and 26-1.07 of the Standard Specifications.

ASPHALT CONCRETE DIKE:

Asphalt concrete dike shall be constructed in accordance to the Caltrans Standard Plans or County Road Improvement Standards and Specifications, as specified and as directed by the Engineer.

The contract unit bid price paid per linear foot for Asphalt Concrete Dike, which price shall include full compensation for furnishing all labor, material (including asphalt concrete), tools, and equipment and doing all the work involved in placing and compacting and no additional compensation will be allowed therefor.

Asphalt binder to be mixed with the aggregate shall be PG 70-10 in accordance with the Special Provisions for Asphalts, or as directed by the Engineer.

HOT MIX ASPHALT:

The asphalt concrete shall be Type "A" and shall conform to the requirements of Section 39 of the Standard Specifications and the following:

Aggregate grading shall be three-quarter inch (3/4") maximum, medium for base course and three-quarter inch (3/4") maximum, medium for the final course. One-half inch (1/2") maximum, medium for the final course shall be used if shown on the plans or as directed by the Engineer.

The asphalt lift thickness table, as shown in Section 39-6.01, "General Requirements" of the Standard Specifications, is revised as follows:

Total Thickness Shown on Plans	Minimum No. of Layers	Top Layer Thickness (foot)		Next Lower Layer Thickness (foot)		All Other Lower Layer Thickness (foot)	
		Min.	Max.	Min.	Max.	Min.	Max.
0.24-foot or less ^a	1	-	-	-	-	-	-
0.25-foot	2 ^b	0.12	0.13	0.12	0.13	-	-
0.26 - 0.46 foot	2	0.12	0.21	0.14	0.25	-	-
0.47-foot or more	3 or more	0.15	0.21	0.15	0.25	0.17	0.25

Footnotes to asphalt thickness table are revised as follows:

- a. No Change.
- b. One layer of 0.25 foot thick may be placed as approved by the Engineer. When the Traffic Index specified is 5.5 or below, two layers shall be placed.

Asphalts:

Asphalt shall conform to the provisions in this Section, "Asphalts". Section 92, "Asphalts" of the Standard Specifications shall not apply.

Asphalt shall consist of refined petroleum or a mixture of refined liquid asphalt and refined solid asphalt, prepared from crude petroleum. Asphalt shall be:

1. Free from residues caused by the artificial distillation of coal, coal tar, or paraffin;
2. Free from water;
3. Homogeneous.

General:

The Contractor shall furnish asphalt in conformance with the State of California Department of transportation's Certification Program for Suppliers of Asphalt". The Department maintains the program requirements, procedures, and a list of approved suppliers at <http://www.dot.ca.gov/hq/esc/Translab/fpmcoc.htm>.

The Contractor shall ensure the safe transportation, storage, use, and disposal of asphalt.

The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

Grade:

Performance graded (PG) asphalt binder shall conform to the following:

Property	AASHTO Test Method	Specification Grade		
		PG 64-10	PG 64-16	PG 70-10
Original Binder				
Flash Point, Minimum °C	T48	230	230	230
Solubility, Minimum % ^b	T44	99	99	99
Viscosity at 135 °C, Maximum, Pa's	T316	3.0	3.0	3.0
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum $G^*/\sin(\delta)$, kPa	T315	64 1.00	64 1.00	70 1.00
RTFO Test ^e , Mass Loss, Maximum, %	T240	1.00	1.00	1.00
RTFO Test Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum $G^*/\sin(\delta)$, kPa	T315	64 2.20	64 2.20	70 2.20
Ductility at 25 °C Minimum, cm	T51	75	75	75
PAV ^f Aging, Temperature, °C	R28	100	100	110
RTFO Test and PAV Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum $G^*/\sin(\delta)$, kPa	T315	31 ^d 5000	28 ^d 5000	34 ^d 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, Mpa Minimum M-value	T313	0 300 0.300	-6 300 0.300	0 300 0.300

Notes:

- a. Not used.
- b. The Engineer will waive this specification if the supplier is a Quality Supplier as defined by Department's "Certification Program for Suppliers of Asphalt".
- c. The Engineer will waive this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- d. Test the sample at 3 °C higher if it fails at the specified test temperature. $G^*/\sin(\delta)$ shall remain 5000 kPa maximum.
- e. "RTFO Test" means the asphaltic residue obtained using the Rolling Thin Film Oven Test, AASHTO Test Method T240 or ASTM Designation: D2827.
- f. "PAV" means Pressurized Aging Vessel.

Performance graded polymer modified asphalt binder (PG Polymer Modified) is:

Performance Graded Polymer Modified Asphalt Binder ^a				
Property	AASHTO Test Method	Specification Grade		
		PG 58-34 PM	PG 64-28 PM	PG 76-22 PM
Original Binder				
Flash Point, Minimum °C	T 48	230	230	230
Solubility, Minimum % ^b	T 44 ^c	98.5	98.5	98.5
Viscosity at 135°C, ^d Maximum, Pa's	T 316	3.0	3.0	3.0
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T 315	58 1.00	64 1.00	76 1.00
RTFO Test, Mass Loss, Maximum, %	T 240	1.00	1.00	1.00
RTFO Test Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T 315	58 2.20	64 2.20	76 2.20
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum (delta), %	T 315	Note e 80	Note e 80	Note e 80
Elastic Recovery, Test Temp., °C Minimum recovery, %	T 301	25 75	25 75	25 65
PAV ^e Aging, Temperature, °C	R 28	100	100	110
RTFO Test and PAV Aged Binder				
Dynamic Shear, Test Temp. at 10 rad/s, °C Maximum G*sin(delta), kPa	T 315	16 5000	22 5000	31 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, MPa Minimum M-value	T 313	-24 300 0.300	-18 300 0.300	-12 300 0.300

Notes:

- Do not modify PG Polymer Modified using acid modification.
- The Engineer waives this specification if the supplier is a Quality Supplier as defined by the Department's "Certification Program for Suppliers of Asphalt".
- The Department allows ASTM D 5546 instead of AASHTO T 44.
- The Engineer waives this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- Test temperature is the temperature at which G*/sin(delta) is 2.2 kPa. A graph of log G*/sin(delta) plotted against temperature may be used to determine the test temperature when G*/sin(delta) is 2.2 kPa. A graph of (delta) versus temperature may be used to determine delta at the temperature when G*/sin(delta) is

2.2 kPa. The Engineer also accepts direct measurement of (δ) at the temperature when $G^*/\sin(\delta)$ is 2.2 kPa.

- f. Tests without a force ductility clamp may be performed.
- g. "PAV" means Pressurized Aging Vessel.

Sampling:

The Contractor shall provide a sampling device in the asphalt feed line connecting the plant storage tanks to the asphalt weighing system or spray bar. The sampling device shall be accessible between 24 and 30 inches above the platform. The Contractor shall provide a receptacle for flushing the sampling device.

The sampling device shall include a valve:

1. With a diameter between 1/2 and 3/4 inches;
2. Manufactured in a manner that a one-quart sample may be taken slowly at any time during plant operations;
3. Maintained in good condition.

The Contractor shall replace failed valves.

In the presence of the Engineer, the Contractor shall take 2 one-quart samples per operating day. The Contractor shall provide round friction top containers with one-quart capacity for storing samples.

Applying Asphalt:

Unless otherwise specified, the Contractor shall heat and apply asphalt in conformance with the provisions in Section 93, "Liquid Asphalts" of the Standard Specifications.

Section 39-2.01, "Asphalts" is replaced in its entirety with the followings:

Asphalt binder to be mixed with aggregate shall conform to the provisions in "Asphalts" of these Special Provisions.

The grade of asphalt binder shall be 64-10 (Inland Valleys).

Liquid asphalt for prime coat shall conform to the provisions in Section 93, "Liquid Asphalts" of the Standard Specifications and shall be Grade 64-10 unless otherwise designated by the contract item or otherwise specified in the Special Provisions.

Asphaltic emulsion for paint binder (tack coat) shall conform to the provisions in Section 94, "Asphaltic Emulsion" of the Standard Specifications for the rapid-setting or slow-setting type and grade approved by the Engineer.

Section 39-3.01B (1) shall be amended to include:

Aggregate of the 3/4 inch or 1/2 inch maximum size and aggregate for asphalt concrete base shall be separated into 3 or more sizes and each size shall be stored in separate bins. If 3 sizes are used, one bin shall contain that portion of the material which will pass the maximum size specified and be retained on a 3/8 inch sieve; one bin shall contain that portion of the material which will pass a 3/8 inch sieve and be retained on a No. 8 sieve; and one bin shall contain that portion of the material which will pass a No. 8 sieve.

Aggregate of 3/8 inch maximum size shall be separated into 2 sizes and each size shall be stored in separate bins. One bin shall contain that portion of the material which will pass the maximum size specified and be retained on a No. 8 sieve and one bin shall contain that portion of the material which will pass a No. 8 sieve.

The bin containing the fine material shall not contain more than 15 percent of material retained on the No. 8 sieve. The material in any of the other bins shall not contain more than 15 percent of material passing a No. 8 sieve. Failure to comply with this requirement shall be corrected immediately, and the material in the bins not meeting these requirements shall be re-screened or wasted.

All asphalt concrete for this project shall be supplied from one source unless approved by the Engineer. Said source shall be listed on the Contractors Source of Materials List as required in Section 6 of the Standard Specifications.

Asphaltic emulsion shall be furnished and applied as provided in Section 39-4.02.

The Contractor shall adjust to finish grade any valve covers encountered within the project limits, as required, for those utility valves that are provided with slip cans and are adjustable without the replacement of parts or the removal of concrete collars. In cases where the owning utility company insists upon upgrades in the standards, or when additional parts or the removal of concrete collars are required for the adjustment, said adjustment will be the responsibility of the owning utility company.

The Contractor shall lower manholes and valves when and as necessary for the protection of the traveling public during construction, and shall coordinate all work on said facilities with the owning utility companies. Final adjustment to grade will be the responsibility of the owning utility company, except as provided herein.

Said work shall be performed in accordance with Section 15-2.05A, "Frames, Covers, Grates, and Manholes" of the Standard Specifications. Full compensation for adjustment of valve covers, including initial lowering of valves and manholes when required, shall be considered as included in the contract price paid for asphalt concrete.

In addition to the provisions in Section 39-5.01, "Spreading Equipment" of the Standard Specifications, asphalt paving equipment shall be equipped with automatic screed controls and a sensing device or devices.

When placing asphalt concrete to the lines and grades established by the Engineer, the automatic controls shall control the longitudinal grade and transverse slope of the screed. Grade and slope references shall be furnished, installed, and maintained by the Contractor. Should the Contractor elect to use a ski device, the minimum length of the ski device shall be 30 feet. The ski device shall be a rigid one piece unit and the entire length shall be utilized in activating the sensor.

When placing the initial mat of asphalt concrete on existing pavement, the end of the screed nearest the centerline shall be controlled by a sensor activated by a ski device not less than 30 feet. The end of the screed farthest from centerline shall be controlled by an automatic transverse slope device set to reproduce the cross slope designated by the Engineer, by a sensor activated by a similar ski device or as directed by the Engineer.

When paving contiguously with previously placed mats, the end of the screed adjacent to the previously placed mat shall be controlled by a sensor that responds to the grade of the previously placed mat and will reproduce the grade in the new mat within a 0.12 inch tolerance. The end of the screed farthest from the previously placed mat shall be controlled in the same way it was controlled when placing the initial mat.

Should the methods and equipment furnished by the Contractor fail to produce a layer of asphalt concrete conforming to the provisions, including straightedge tolerance, of Section 39-6.03, "Compacting" of the Standard Specifications or elsewhere in these Special Provisions, the paving operations shall be discontinued and the Contractor shall modify the equipment or methods, or furnish substitute equipment.

Should the automatic screed controls fail to operate properly during a day's work, the Contractor may manually control the spreading equipment for the remainder of that day. However, the equipment shall be corrected or replaced with alternative automatically controlled equipment conforming to the provisions in this section before starting another day's work.

General Criteria For Profiling:

In addition to the straightedge provisions in Section 39-6.03, "Compacting" of the Standard Specifications, asphalt concrete pavement shall conform to the surface tolerances specified herein.

The uppermost layer of asphalt concrete surfacing shall be profiled in the presence of the Engineer using a California Profilograph or equivalent in conformance with California Test 526 and as specified in these Special Provisions.

The California Profilograph or equivalent will not be required for the following areas of the pavement surface but shall conform to the straightedge requirements in Section 39-6.03, "Compacting" of the Standard Specifications:

1. Pavement with a total thickness less than 0.24 foot;
2. Pavement on horizontal curves with a centerline curve radius of less than 1,000 feet and the pavement within the superelevation transition on those curves;
3. Pavement placed in a single lift when required by the Special Provisions;
4. Pavement with extensive grade or cross slope correction which does not receive advance leveling operations in conformance with the provisions in Section 39-6.02, "Spreading" of the Standard Specifications;
5. Pavement for ramps and connectors with steep grades and high rates of superelevation, as determined by the Engineer;
6. Shoulders and miscellaneous areas.

The Contractor shall conform to California Test 526, except a zero (null) blanking band shall be used for determining the Profile Index. Prior to beginning profiles, the profilograph shall be calibrated in the presence of the Engineer. Two profiles shall be obtained within each traffic lane, 3 feet from and parallel with the edges of the lane.

Pavements profiled shall conform to the following Profile Index requirements:

1. Pavement on tangent alignment and pavement on horizontal curves having a centerline curve radius of 2,000 feet or more shall have a Profile Index of 0.16 foot or less for each 330 feet section profiled;
2. Pavement on horizontal curves having a centerline curve radius of 1,000 feet or more but less than 2,000 feet, including the pavement within the superelevation

transition of these curves, shall have a Profile Index of 0.32 foot or less for each 330 feet section profile;

3. Pavement within any 330 feet section, containing high point areas with deviations in excess of 0.025 foot in a length of 25 feet or less, when tested in conformance with the requirements in California Test 526, shall be corrected by the Contractor regardless of the Profile Index.

The Contractor shall complete initial runs of the profilograph prior to opening the pavement to public traffic. If initial profiles can not be made prior to opening the pavement to public traffic, the initial runs of the profilograph shall be made the next day that traffic control is permitted for the area to be profiled.

Areas of the top surface of the uppermost layer of asphalt concrete pavement that do not meet the specified surface tolerances shall be brought within tolerance by abrasive grinding.

Abrasive grinding shall be performed to reduce individual deviations in excess of 0.025 foot, and to reduce the Profile Index of the pavement to be within the specified tolerance. Areas which have been subjected to abrasive grinding shall receive a seal coat. Deviations in excess of 0.025 foot which cannot be brought into specified tolerance by abrasive grinding shall be corrected by either (1) removal and replacement or (2) placing an overlay of asphalt concrete. The corrective method for each area shall be selected by the Contractor and shall be approved by the Engineer prior to beginning the corrective work. Replacement or overlay pavement not meeting the specified tolerances shall be corrected by the methods specified above. Corrective work shall be at the Contractor's expense. The Contractor shall run profilograms on the areas that have received abrasive grinding or corrective work until the final profilograms indicate the Profile Index of the area is within the specified tolerance.

When abrasive grinding is used to bring the top surface of the uppermost layer of asphalt concrete surfacing within the specified surface tolerances, additional abrasive grinding shall be performed as necessary to extend the area ground in each lateral direction so that the lateral limits of grinding are at a constant offset from, and parallel with, the nearest lane line or pavement edge, and in each longitudinal direction so that the grinding begins and ends at lines normal to the pavement centerline, within a ground area. Ground areas shall be neat rectangular areas of uniform surface appearance.

The original of the final profilograms that indicate the pavement surface is within the Profile Index specified shall become the property of the County and shall be delivered to the Engineer prior to acceptance of the contract.

Payment:

Hot Mix Asphalt will be paid for at a unit price per ton as a combined item, including mineral aggregate and asphalt binder in place on the roadbed.

Full compensation for furnishing and applying asphaltic emulsion (paint binder) shall be considered as included in the contract price paid for Hot Mix Asphalt.

COMPENSATION ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS:

The provisions of this section shall apply only to the following contract items:

ITEM CODE	ITEM
390130	Hot Mix Asphalt

The compensation payable for asphalt binder used in hot mix asphalt and tack coat will be increased or decreased in conformance with the provisions of this section for paving asphalt price fluctuations exceeding 10 percent (lu/lb is greater than 1.10 or less than 0.90) which occur during performance of the work.

The quantity of asphalt binder used in tack coat will be determined by multiplying the item quantity for tack coat included in a monthly estimate by the minimum percent residue specified in Section 94, "Asphaltic Emulsions" of the Standard Specifications. The asphaltic emulsion minimum percent residue will be based on the type of emulsion used by the Contractor.

At the Contractor's option, the Contractor may provide actual daily test results for asphalt binder residue for the tack coat used. Test results provided by the Contractor shall be from an independent testing laboratory that participates in the AASHTO Proficiency Sample Program. The Contractor shall take samples of asphaltic emulsion from the distributor truck at mid-load from a sampling tap or thief. Two separate one-half (½) gallon samples shall be taken in the presence of the Engineer. The Contractor shall provide one sample to the Contractor's independent testing laboratory within 24 hours of sampling. The second sample shall be given to the Engineer. The test results from the Contractor independent testing laboratory shall be delivered to the Engineer within 10 days from sample date.

The adjustment in compensation will be determined in conformance with the following formulae when the item of hot mix asphalt or tack coat or both are included in a monthly estimate:

- A. Total monthly adjustment = AQ

- B. For an increase in paving asphalt price index exceeding 10 percent:

$$A = 0.90 (I_u/I_b - 1.10) I_b$$

- C. For a decrease in paving asphalt price index exceeding 10 percent:

$$A = 0.90 (I_u/I_b - 0.90) I_b$$

- D. Where:

A = Adjustment in dollars per ton of paving asphalt used to produce hot mix asphalt and asphaltic emulsion residue used as tack coat rounded to the nearest \$0.01.

I_u = The California Statewide Paving Asphalt Price Index which is in effect on the first business day of the month within the pay period in which the quantity subject to adjustment was included in the estimate.

I_b = The California Statewide Paving Asphalt Price Index for the month in which the bid opening for the project occurred.

Q = Quantity in tons of asphalt binder that was used in producing the quantity of hot mix asphalt shown under "This Estimate" on the monthly estimate using the amount of asphalt binder determined by the Engineer plus the quantity in tons of asphalt binder that would have been used as residue in the tack coat shown under "This Estimate" on the monthly estimate.

The adjustment in compensation will also be subject to the following:

- A. The compensation adjustments provided herein will be shown separately on payment estimates. The Contractor shall be liable to the State for decreased compensation adjustments and the Department may deduct the amount thereof from moneys due or that may become due the Contractor.
- B. Compensation adjustments made under this section will be taken into account in making adjustments in conformance with the provisions in Section 4-1.03B, "Increased or Decreased Quantities" of the Standard Specifications.
- C. In the event of an overrun of contract time, adjustment in compensation for paving asphalt included in estimates during the overrun period will be determined using the California Statewide Paving Asphalt Price Index in effect on the first business day of the month within the pay period in which the overrun began.

The California Statewide Paving Asphalt Price Index is determined each month on the first business day of the month by the Department using the median of posted prices in effect as

posted by Chevron, Mobil, and Unocal for the Buena Vista, Huntington Beach, Kern River, Long Beach, Midway Sunset, and Wilmington fields.

In the event that the companies discontinue posting their prices for a field, the Department will determine an index from the remaining posted prices. The Department reserves the right to include in the index determination the posted prices of additional fields.

The California Statewide Paving Asphalt Price Index is available on the Division of Engineering Services website at: http://www.dot.ca.gov/hq/esc/oe/asphalt_index/astable.html

CONCRETE CURB, GUTTER, CROSS GUTTER, CURB RAMP, SIDEWALK, AND DRIVEWAY:

Concrete curb, gutter, cross gutter, curb ramps, curb ramp, and driveway shall be constructed in accordance with the Riverside County Road Improvement Standards And Specifications, or as directed by the Engineer and in conformance with Section 40. 51, 52, 73 and 90 of Standard Specifications, except as herein modified. Class 3 (min. 550 lbs/cy of cement) concrete shall be used.

Preparation of subgrade for the concrete structures shall be done in conformance with the requirements of Section 73-1.02 of the Standard Specifications.

Excess material resulting from the excavation of the subgrade shall be disposed of as elsewhere provided in these Special Specifications. Full compensation for the removal of existing concrete structures shall be included in the contract bid prices for such items.

The Contractor is responsible for meeting requirements of all American with Disability Act (ADA).

Construction of curb and gutter, sidewalk, cross gutter, curb ramp, driveway, and concrete pavement shall include, but not be limited to, the following:

- 1) Removal and disposal of existing sidewalk, curb, and/or curb and gutter, curb ramp, driveway, existing soil, aggregates, and obstruction as required;
- 2) Establishing grades, and assuring that all grades are met;
- 3) Performing all grading and compaction – including all required aggregate import, as directed by the Engineer and in accordance with County Standards;
- 4) Construction of new sidewalk, curb, and/or curb and gutter; curb ramp, and driveway
- 5) All scoring/grooving and required saw cutting;
- 6) Repair of existing asphalt and PCC surfacing;
- 7) Installing 1/2" wide expansion joints;
- 8) Installation of transverse and longitudinal joints (including tie bars);
- 9) Installation of detectable warning surfaces;

- 10) All landscaping, and related work, to return the area adjacent to the curb ramp to its original condition and to conform the area to the new improvements;

At a minimum, the area from the BCR to ECR shall meet all required ADA standards. Therefore, to conform to existing conditions and/or to achieve the required four-foot level area (maximum of 1.5% crossfall) at the top portion of the curb ramp, it may be necessary to extend the work beyond the BCR/ECR in certain instances.

The contract unit bid prices paid per linear foot for Minor Concrete (Curb And Gutter), square foot for Minor Concrete (cross gutter, spandrel, driveway, sidewalk, concrete pavement) and each for Minor Concrete (Curb Ramp), shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including the furnishing and placing of expansion joints and no additional compensation will be allowed therefor.

CONCRETE STRUCTURES:

Concrete structures shall conform to the Caltrans Standard Plans to the applicable portions of Sections 51, 52, 55, and 90 of the Standard Specifications, these Special Provisions and as directed by the Engineer.

When shown on the plans, utility opening wall shall be considered included in the bid price for the structure, and no additional compensation will be allowed therefor.

Minor concrete structures for this project shall consist of Curb Inlets, Drop Inlets, Junction Structure, Transition Structure, Reinforced Concrete Box, Manholes, and Concrete Headwall.

Concrete to be used in the construction of concrete structures shall be Class 2 concrete (min. 590 lbs/cy cement) and minor concrete structures shall be Class 3 concrete (min. 550 lbs/cy cement) respectively.

The unit price for each minor concrete structure will not be adjusted if the constructed height of said minor concrete structure, including revisions by Engineer, is within ± 0.5 foot of the vertical dimension shown on the plans.

The contract unit bid prices paid for all Concrete Structures shall include full compensation for all labor, materials, tools and equipment, and doing all work involved in the complete structure, including removal of existing structure, structure excavation and backfill, furnishing and placing reinforcement, and metal frames, covers, and grates and no further allowances shall be applied.

2 SACK SLURRY BACKFILL

Furnishing 2 sack slurry backfill shall be considered as included in the prices paid for the various items of work and no separate payment will be made.

FENCES AND GATES

CHAIN LINK FENCE & GATE:

The above items shall conform to the details shown in the Standard Plans for Public Works Construction, Standard Plan 600-2 and Sections 206-6 and 304-3 of The "Greenbook" Standard Specifications for Public Works Construction.

The contractor shall remove existing chain link fence and gates and install new chain link fence and gates (sliding or swing) as shown on the plans. The existing fences are in different height and begin and terminate with different connection points. For the bid purposes, the contractor shall assume installation of 6' chain link fence per Standard Plans for Public Works Construction. The contractor shall obtain approval from the County and/or Engineer for fence height, beginning and end points, and termination treatment prior to removal of existing fence. The contractor shall take measurement of existing gates and replace with same size gates. There shall be no additional measurement and payment will be made for removal of and replacement of gate but it shall be considered included in the removal and replacement of chain link fence work.

The contract unit price paid per linear foot for Chain Link Fence shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the construction and complete in place including relocations and connections to existing fences and/or gates.

The contractor shall remove existing wrought fence and gates and install new wrought fence and gates (sliding or swing) as shown on the plans. The existing fences are in different height and begin and terminate with different connection points. For the bid purposes, the contractor shall assume installation of 6' wrought fence per Standard Plans for Public Works Construction. The contractor shall obtain approval from the County and/or Engineer for fence height, beginning and end points, and termination treatment prior to removal of existing fence. The contractor shall take measurement of existing bars, posts, gates and replace with similar or better material. There shall be no additional measurement and payment will be made for removal of and replacement of gate but it shall be considered included in the removal and replacement of wrought iron fence work.

The contract unit price paid per linear foot for wrought iron fence shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for

doing all the work involved in the construction and complete in place including relocations and connections to existing fences and/or gates.

TEMPORARY FENCING:

The Contractor shall be required to install temporary fence to provide safety to residents or business owners. The temporary fencing shall be a 6-foot high chain link fence. The Contractor shall provide access all the time to the property owners and utility companies during construction.

There shall be no measurement of payment will made for Temporary Fencing and shall be considered as included in the prices paid for the various items of work.

CONCRETE ROCK SLOPE PROTECTION:

Concrete rock slope protection (1/4 Ton, Method B) shall conform to the provisions of Section 72-4 of the Standard Specifications and these Special Provisions.

Full compensation for Concrete Rock Slope Protection shall be paid per ton and shall include the furnishing of all labor, materials, tools, equipment and incidentals, and for doing all work involved as specified on the construction plans, including any excavation and backfill, and no additional compensation will be allowed therefore.

RELOCATION OF CONFLICTING UTILITES BY OWNERS:

The Contractor's attention is directed to Section 8-1.10 "Utility and Non-Highway Facilities" of the Standard Specifications.

Working days allowed shall be in accordance with the executed agreement. The working days allowed shall include 30 working days for access to a portion of the construction site by the affected utility companies to perform utility relocation work. No on-site work by the County's Contractor will be allowed in the utility relocation areas unless specifically agreed to by both the utility company and the County's Engineer. The Utility company days are anticipated to not be sequential, and will be assigned by the Resident Engineer in coordination with the scheduling needs of the affected utility companies.

The utility relocation work that is anticipated to be performed during the course of construction is generally described as follows:

Installation, relocation and abandonment of underground facilities owned by Verizon Communications, Southern California Gas Company, Jurupa Community Services District, and Time-Warner Communications, and relocation of utility poles and aerial facilities owned by Southern California Edison Company and Verizon Communications,

and other incidental and associated work. It is anticipated that some of this work may not be completed at the start of construction. Eastern Municipal Water District, in particular, will be performing water facility relocations during the course of the County's construction.

If necessary, removal and disposal of abandoned utility conduits, conductors and other facilities shall be considered as incidental excavation, and shall be included in the contract unit price for Roadway Excavation.

Utility crews move in to make their respective relocations and adjustments after the sidewalk & portions of the roadway were removed.

It is anticipated that the utility relocation work to be performed by the Edison Company, Verizon Communications and Time-Warner Communications will be completed prior to the start of construction. However, the Contractor shall cooperate with any utility forces that have a need to perform work within the project limits.

It shall be Contractors' responsibility to coordinate with utility owners regarding relocation.

Full compensation for the provisions of this Special Provision shall be considered as included in the various items of work, and no additional compensation will be allowed therefore.

REMOVE TRAFFIC STRIPE AND PAVEMENT MARKINGS:

Where blast cleaning/grinding is used for the removal of painted/thermoplastic traffic stripe and pavement marking or for removal of objectionable material, and such removal operation is being performed within 10 feet of a lane occupied by public traffic, the residue including dust shall be removed immediately after contact between the sand and the surface being treated. Such removal shall be by wet abrasive blasting, hydro-blasting or vacuum blasting, and shall comply with AQMD regulations.

Blast cleaning/grinding for removal of traffic stripe shall be feathered out to irregular and varying widths.

Pavement marking shall be removed by blast cleaning/grinding a rectangular area, rather than just lettering or markings, so the old message cannot be identified.

After removal of traffic stripes and pavement markings, a fog seal coat shall be applied in conformance with the provisions in Section 37, "Bituminous Seals" of the Standard Specifications and the following:

If removal of existing striping is performed more than 24 hours prior to final striping, the Contractor shall place reflective temporary striping tape throughout the limits of sandblasting, to provide channelization of traffic, for all lanes of travel.

Temporary striping tape shall be removed subsequent to final striping.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.09, "Public Safety" of the Standard Specifications.

Full compensation removal of existing striping, pavement marking, and pavement markers shall be considered to be included in the lump sum bid for Signing, Striping, and Markers and shall include full compensation for furnishing all labor materials, tools, equipment and incidentals as shown on the plans and required in the Specifications.

THERMOPLASTIC PAVEMENT MARKING:

Thermoplastic pavement markings shall conform to the provisions in Sections 84-1, "General" and 84-2, "Thermoplastic Traffic Stripes and Pavement Markings" of the Standard Specifications and these Special Provisions.

At the option of the Contractor, STAMARK Brand Pavement Tape, Pliant Polymer Grade, manufactured by the 3M Company; or Cata-Tile Elastoplastic Roadmarking Tile, manufactured by the Cataphote Division of the Ferro Corporation; or STAMARK Brand Pavement Tape, Bisymmetric 1.75 Grade, manufactured by the 3M Company, may be placed instead of the thermoplastic pavement markings specified herein. Pavement tape and roadmarking tile, if used, shall be installed in accordance with the manufacturer's specifications. If pavement tape or roadmarking tile is placed instead of thermoplastic pavement markings, the pavement tape or roadmarking tile will be measured and paid for as thermoplastic pavement markings.

Payment for Thermoplastic Pavement Marking shall be included in the lump sum bid for Signing, Striping, and Markers and shall include full compensation for furnishing all labor materials, tools, equipment and incidentals as shown on the plans and required in the Specifications.

PAVEMENT MARKER (REFLECTIVE):

Pavement markers shall conform to the provisions in Section 85, "Pavement Markers" of the Standard Specifications and these Special Provisions.

Pavement markers shall be placed to the line established by the Engineer. All additional work necessary to establish satisfactory lines for markers shall be performed by the Contractor.

Pavement markers shall be installed where indicated on the plans in accordance with the indicated striping detail. Refer to Standard Plans A20-A through A20-D for striping and markings details.

Markers and adhesive removal shall be performed by a method approved by the Engineer. Any pavement scarring resulting from the markers removal shall be repaired to the satisfaction of the Engineer.

Payment for furnishing and placing Pavement Markers will be included in the lump sum bid for Signing, Striping, and Markers and shall include full compensation for furnishing all labor materials, tools, equipment and incidentals as shown on the plans and required in the Specifications.

ROADSIDE SIGNS (INSTALL/RELOCATE/SALVAGE):

Roadside signs (install/relocate/salvage) shall conform to the provisions in Section 56-2, "Roadside Signs" of the Standard Specifications and as directed by the Engineer.

Roadside signs shall be installed at the locations shown on the construction plans or where directed by the Engineer.

Roadside signs furnished by the Contractor shall be of the standard size specified in the State of California Department of Transportation Sign Specification Sheets, unless otherwise indicated on the construction plans.

Sheeting shall be guaranteed against defects for a period of ten years from the date of fabrication.

The base metal shall be new aluminum, 0.08 gauge, of alloys 6061-T6 or 5052-H38 conforming to the requirements of ASTM Designation : B209.

Any reflective sheeting supplied as a part of this contract, whether as a legend or background, shall be FHWA FP-85 Type IIA or AASHTO M268 Type III.

Reflective sheeting shall be applied to the sign by a method approved by the manufacturer of the sheeting and shall produce a durable bond equal to or greater than the strength of the reflective sheeting. No air pockets or bubbles shall exist between the sheeting and aluminum backing.

The reflective material and screening inks or overlay film shall be graffiti proof. The graffiti proofing method shall be supplied by and/or approved by the sheeting manufacturer. Neither the color nor the reflective intensity of the finished sign shall be significantly diminished by the use of graffiti remover when used in a manner approved by the Transportation Department in conjunction with the sheeting manufacturer. Any signs graffitied by over the counter spray paint or marking pens, which fail to be restored, shall be replaced by the sign sheeting manufacturer.

All letters and numerals shall be in accordance with the "Standard Alphabet of Highway Signs" as used by the State of California, Department of Transportation.

All signs shall be installed using hex head bolts, washers, nuts and jam nuts in accordance with Standard Plans RS2 or as directed by the Engineer.

Salvaged roadside signs shall be delivered to the nearest County Maintenance Yard.

The contract unit prices paid per each for Roadside Signs (Install/Relocate/Salvage) shall included in the lump sum bid for Signing, Striping, and Markers and shall include full compensation for furnishing all labor materials, tools, equipment and incidentals as shown on the plans and required in the Specifications.

SIGNAL AND LIGHTING:

SIGNALIZATION AND HIGHWAY LIGHTING:

Furnishing, installing, and modifying traffic signal and highway lighting systems and payment shall conform to the provisions in Section 86, "Signals and Lighting", of the Standard Specifications and these Special Provisions.

FOUNDATIONS

Foundations shall conform to the provisions in Section 51, "Concrete Structures," and Section 86-2.03, "Foundations", of the Standard Specifications and these Special Provisions.

Portland cement concrete shall conform to Section 90-10, "Minor Concrete", of the Standard Specifications and shall be Class 3, except for pole foundations which shall be Class 2.

If a Type P controller foundation is specified to be constructed, then Type P controller cabinet foundation height dimension is modified to be 36 inches, with 18 inches being below and 18 inches being above sidewalk grade, or as directed by the Engineer.

Controller foundation forms shall be rigid steel. All foundation concrete shall be vibrated to eliminate air pockets.

Costs to install foundations for controller assemblies, service pedestals, posts, standards, pedestals and all other traffic signal facilities, shall be considered to be included in the lump sum price paid for the traffic signal installation, and no additional compensation shall be allowed therefor.

STANDARDS, STEEL PEDESTALS AND POSTS

Standards, steel pedestals, and posts shall conform to the provisions in Section 86-2.04, "Standards, Steel Pedestals, and Posts", of the Standard Specifications and these Special Provisions.

Poles installed at the near-right approach of each intersection shall be banded for the emergency installation of stop signs. Banding shall conform to the strap and saddle method per Standard Plan RS4.

Mast arms shall be installed in accordance with the "Signal Arm Connection Details" of the Standard Plans, unless specifically directed otherwise on the construction plans.

If required by the serving electric utility, and confirmed by the Engineer, State Certified Electric Workers shall be utilized for the installation of standards, steel pedestals and posts in accordance with State of California High Voltage Safety Orders.

The cost of furnishing, installing, testing, transportation and/or shipping of each standard, steel pedestal and post shall be included in the Lump Sum price paid for the traffic signal installation and no additional compensation shall be allowed therefor.

CONDUITS

Conduit shall conform to the provisions in Section 86-2.05, "Conduit", of the Standard Specifications and these Special Provisions.

Conduit shall be Type 3, Schedule 80.

Conduit sizes shown on the plans and specified in the Standard Specifications and these Special Provisions are referenced to metallic type conduit. When rigid non-metallic conduit is required or allowed, the nominal equivalent industry size shall be used as shown in the following table:

Size Designation for Metallic Type Conduit	Equivalent Size for Rigid Non-metallic Conduit
21	20
27	25
41	40
53	50
63	65
78	75
103	100

When a standard coupling cannot be used for joining Type 3 conduit, a UL listed threaded union coupling conforming to the provisions in Section 86-2.05C, "Installation" of the Standard Specifications, or a concrete-tight split coupling, or concrete-tight set screw coupling shall be used.

When Type 3 conduit is placed in a trench (not in pavement or under portland cement concrete sidewalk), after the bedding material is placed and the conduit is installed, the trench shall be backfilled to not less than 100 mm above the conduit with minor concrete conforming to the provisions in Section 90-10, "Minor Concrete" of the Standard Specifications. The concrete shall contain not less than

250 kg of cementitious material per cubic meter. The remaining trench shall be backfilled to finished grade with backfill material.

Conduit runs shown on the plans to be located behind curbs may be installed in the street, within 0.9-m of, and parallel with the face of the curb, by the "Trenching in Pavement Method" in conformance with the provisions in Section 86-2.05C, "Installation" of the Standard Specifications. Pull boxes shall be located behind the curb or at the locations shown on the plans.

After conductors have been installed, the ends of conduits terminating in pull boxes, service equipment enclosures, and controller cabinets shall be sealed with an approved type of sealing compound.

Insulated bonding bushings will be required on all conduit.

At other locations where conduit is required to be installed under pavement and if a delay to vehicles will not exceed 5 minutes, conduit may be installed by the "Trenching in Pavement Method".

At the option of the Contractor, the final 0.6-m of conduit entering a pull box in a reinforced concrete structure may be Type 4.

At locations where conduit can not be installed by jacking or drilling as provided in Section 86-2.05C, "Installation", of the Standard Specifications, the Contractor may request permission, on a case by case basis, to install conduit by trenching. Jacking/Drilling shall be attempted a minimum of three times prior to requesting trenching installation.

Full compensation for furnishing and installing conduit is included in the contract lump sum price paid for Signal And Lighting and no separate payment will be made therefor.

PULL BOXES

Pull boxes shall conform to the provisions in Section 86-2.06, "Pull Boxes", of the Standard Specifications and these Special Provisions.

Pull boxes shall be installed at the locations shown on the plans and shall be spaced at no more than 200 ft intervals.

Pull boxes shall be placed with their tops flush with surrounding finished grade, except as required by the Engineer.

Pull boxes installed in unimproved areas shall be marked with Type L markers and be traffic bearing. All traffic bearing pull boxes shall be constructed with galvanized 2-bar welded frame. Unimproved areas are defined as locations not protected by concrete curb and gutter.

All pull boxes shall be located behind the curb or at the locations shown on the plans.

Pull box covers shall be marked in accordance with Standard Plans ES-8. Pull box covers shall not be marked "Caltrans", except for projects on State of California right of way.

CONDUCTORS AND WIRING

Conductors and wiring shall conform to the provisions in Section 86-2.08, "Conductors", and Section 86-2.09, "Wiring", of the Standard Specifications and these Special Provisions.

Conductors and wiring shall be installed in such a manner as minimize the need for splices.

Multiple circuit conductors shall conform to the provisions in Section 86-2.08B, "Multiple Circuit Conductors", of the Standard Specifications.

Signal Cable conductors shall conform to the provisions in Section 86-2.08D "Signal Cable", of the Standard Specifications. Signal cable shall be installed continuously without splicing from the controller cabinet to each traffic signal pole.

Subparagraph 5. of the first paragraph of Section 86-2.09D, "Splicing and Terminations", of the Standard Specifications is deleted.

Nylon Jacketed Conductors shall not be used.

Conductors shall be spliced by the use of Type C or Type T splice as shown in the Standard Plans (ES-13A).

Splices shall be insulated by "Method B" or, at the Contractor's option, splices of conductors shall be insulated with heat-shrink tubing of the appropriate size after thoroughly painting the spliced conductors with electrical insulating coating.

Traffic signal conductors, multiple circuit conductors, signal cable and inter-connect cable shall not be spliced unless otherwise shown on the plans.

Conductors with "Type THHN" insulation shall not be permitted for installation on this project.

Emergency vehicle pre-emption cable shall be in accordance with the Special Provision entitled "Emergency Vehicle Pre-Emption System" herein, or approved alternative.

Minimum luminaire wiring shall be 10 gauge, including wiring within poles and mast arms. The color code for the luminaire common shall be white with a purple stripe.

Inter-connect conductor cable shall be provided as follows:

Inter-connect cable shall be 6 pairs (12 conductor) and shall be in accordance with the State of California Standard Specifications, Section 86-2.08E, and be suitable for underground installation.

The Contractor shall submit a sample of the proposed inter-connect cable to the Engineer for approval prior to installation.

The Contractor shall pull inter-connect cable, without splices, in new and existing conduit, terminating in new and existing signal controller cabinets. Contractor work within cabinets shall be of industry standard and subject to approval by the Engineer.

The Contractor shall perform a high-voltage series lighting test consisting of the open circuit voltage of the connected constant current transformer between conductors and ground.

The high-voltage test shall not be performed on existing circuits or equipment. Non-testing of existing circuits and equipment shall not relieve the Contractor from the responsibility for malfunctioning of existing lighting circuits due to the Contractor making splices in or connecting to the circuits and such malfunctions shall be corrected at the Contractor's expense.

Full compensation for furnishing and installing conductors and wiring is included in the contract lump sum price paid for Signal And Lighting and no separate payment will be made therefor.

BONDING AND GROUNDING

Bonding and grounding shall conform to the provisions in Section 86-2.10, "Bonding and Grounding" of the Standard Specifications and these Special Provisions.

Bonding jumpers in standards with handholes and traffic pull box lid covers shall be attached by a UL listed lug using 4.5-mm diameter or larger brass or bronze bolts and shall run to the conduit or bonding wire in the adjacent pull box. The grounding jumper shall be visible after the standard has been installed and the mortar pad and cap have been placed on the foundation.

Standards without handholes shall have bonding accomplished by jumpers attached to UL listed ground clamps on each anchor bolt.

For slip base standards or slip base inserts, bonding shall be accomplished by jumpers attached to UL listed ground clamps on each anchor bolt, or a UL listed lug attached to the bottom slip base plate with a 4.5-mm diameter or larger brass or bronze bolt.

Equipment bonding and grounding conductors are required in conduits, except when the conduits contain only combinations of loop lead-in cable, fiber optic cable, or signal interconnect cable. A No. 8 minimum, bare copper wire shall run continuously in circuits. The bonding wire size shall be increased to match the circuit breaker size in conformance with the

Code, or shall be as shown on the plans. Conduits to be installed for future conductors, may omit the copper wire.

Bonding of metallic conduits in metal pull boxes shall be by means of bonding bushings and bonding jumpers connected to the bonding wire running in the conduit system.

GPS UNIVERSAL TIME SOURCE

The GPS Universal Time Source shall be a McCain model M32755 or approved equal. Approval of an alternate Time Source shall be made by the Riverside County Traffic Engineer.

THE GPS Universal Time Source shall incorporate a precision GPS receiver and a microprocessor to decode the time signals received from the GPS satellite network. The Universal Time Source shall interface this time signal to a model 2070 controller (using Bi-Tran local software) to provide an accurate clock update to the traffic signal controller.

The GPS Universal Time Source shall, at a minimum, meet or exceed the following criteria:

The physical dimension shall be apx. 6"L x 3.5"W x 1.5"H and shall include built-in mounting flanges for easy installation in a traffic signal cabinet. The unit shall operate in temperatures from -30C to +80C. The unit shall be powered by the traffic signal controller through the appropriate ACIA port. A data cable shall be provided with the correct pin assignments to supply proper communication between the traffic signal controller and the time source. The unit shall supply the traffic signal controller with the time, date and day of the week data. The unit shall be software configurable to support RS-232C serial data rates of 300, 600, 1200, 2400, 48000, 9600 or 19200 bps. Time zone and daylight savings operation shall also be software configurable. The unit shall have an LED indicator to display the status of the communication to a satellite. The antenna shall be a weatherproof disc antenna designed to mount directly to the top of the traffic signal controller cabinet. The dimensions shall be no greater than 3" diameter x 1" height. All cabling and connectors to interface the antenna and GPS unit shall be provided. Proper gaskets or other weatherproofing materials shall be supplied to prevent water or moisture from entering the traffic signal controller cabinet.

Full compensation for furnishing and installing GPS Universal Time-Source shall be considered as included in the lump sum contract price for traffic signal and lighting, and no additional compensation will be allowed therefor.

VEHICLE SIGNAL ASSEMBLIES:

Vehicle signal assemblies and auxiliary equipment shall conform to the provisions in Section 86-4.01 "Vehicle Signal Faces", Section 86-4.01B (1), "Metal Signal Sections", Section 86-4.01D "Visors", Section 86-4.04, "Backplates", and Section 86-4.08 "Signal Mounting Assemblies" of the Standard Specifications and these Special Provisions.