Note to the SCANNERS (for the Clerk of the Board):

Please do not copy/print the Engineer's Estimate for public information.

- *Do not send to any newspaper*
- *Do not post on Executive Office web site*

If you have any questions, please contact Joel Jimenez of the Transportation Department at extension 5-1537.

COUNTY OF RIVERSIDE * TRANSPORTATION DEPARTMENT

Printed: 3/3/2022 16:31

SOBOBA STREET RESURFACING PROJECT

Engineer's Estimate

FROM STETSON AVENUE TO FLORIDA AVENUE (SR-74)

W.O.# A8-0791

ITEM NO	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	BID	AMOUNT
1	100100	DEVELOP WATER SUPPLY	LS	1	$10,000.00	$10,000.00
2	120100	TRAFFIC CONTROL SYSTEM	LS	1	$125,000.00	$125,000.00
3	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1	$5,000.00	$5,000.00
4	170103	CLEARING AND GRUBBING	LS	1	$50,000.00	$50,000.00
5	066102	DUST ABATEMENT	LS	1	$15,000.00	$15,000.00
6	190101	ROADWAY EXCAVATION	CY	2,100	$50.00	$105,000.00
7	194001	DITCH EXCAVATION (AND GRADING)	CY	600	$100.00	$60,000.00
8	013905	ASPHALT CONCRETE (DRIVEWAY APPROACH WITH ASPHALT CONCRETE DIKE) (CRS 206)	SQFT	3,100	$10.00	$31,000.00
9	013908	ASPHALT CONCRETE DRIVEWAY	SQFT	6,200	$5.00	$31,000.00
10	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	2,240	$10.00	$22,400.00
11	013904	PLACE ASPHALT CONCRETE DIKE (CRS 212) (8")	LF	1,163	$11.00	$12,793.00
12	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F MOD) (9")	LF	113	$15.00	$1,695.00
13	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F MOD) (12")	LF	389	$15.00	$5,835.00
14	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	4	$2,500.00	$10,000.00
15	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	12,500	$3.00	$37,500.00
16	390132	HOT MIX ASPHALT (TYPE A)	TON	2,900	$85.00	$246,500.00
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	2,900	$95.00	$275,500.00
18	710212	ADJUST MANHOLE TO GRADE (LHMWD, RCFC)	EA	10	$2,500.00	$25,000.00
19	510502	MINOR CONCRETE (MINOR STRUCTURE) [HEADWALL]	EA	1	$12,500.00	$12,500.00
20	723160	CONCRETED-ROCK SLOPE PROTECTION (1/4 T, Class V, METHOD A)	CY	6	$750.00	$4,500.00
21	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	3	$5,500.00	$16,500.00
22	017317	MINOR CONCRETE (CROSS-GUTTER AND SPANDREL) [CRS 209]	SQFT	2,200	$20.00	$44,000.00
23	017317	MINOR CONCRETE (CROSS-GUTTER AND SPANDREL) [CRS 209 WITH DOWELS PER SPPWC 122-2]	SQFT	830	$20.00	$16,600.00
24	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	204	$75.00	$15,300.00
25	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	15	$75.00	$1,125.00
26	810170	DELINEATOR (CLASS 1)	EA	30	$250.00	$7,500.00
27	810180	DELINEATOR (CLASS 2)	EA	20	$350.00	$7,000.00
28	820151	OBJECT MARKER (TYPE L-1)	EA	20	$350.00	$7,000.00
29	810230	PAVEMENT MARKER (RETROREFLECTIVE)	EA	450	$5.00	$2,250.00
30	820410	SALVAGE ROADSIDE SIGN (INCLUDING WOOD OR METAL POST OR SIGN PANEL ONLY)	EA	47	$250.00	$11,750.00
31	820840	ROADSIDE SIGN - ONE POST	EA	50	$400.00	$20,000.00
32	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	1,200	$8.00	$9,600.00

Note to the SCANNERS (for the Clerk of the Board):

Please do not copy/print the Bid Book (Specifications and Contract Document Book) for public information.

- *Do not post on Executive Office/Clerk of the Board web site*
- *Bid Book will be made available for purchase and distribution by the Contracts/Bidding Group once project is authorized to be advertised.*
- *Contracts/Bidding Group needs to monitor and control Plan Holder List to insure potential bidders can submit responsive Bids.*

If you have any questions, please contact Joel Jimenez of the Transportation Department at extension 5-1537.

SPECIFICATIONS and CONTRACT DOCUMENTS

for the

CONSTRUCTION

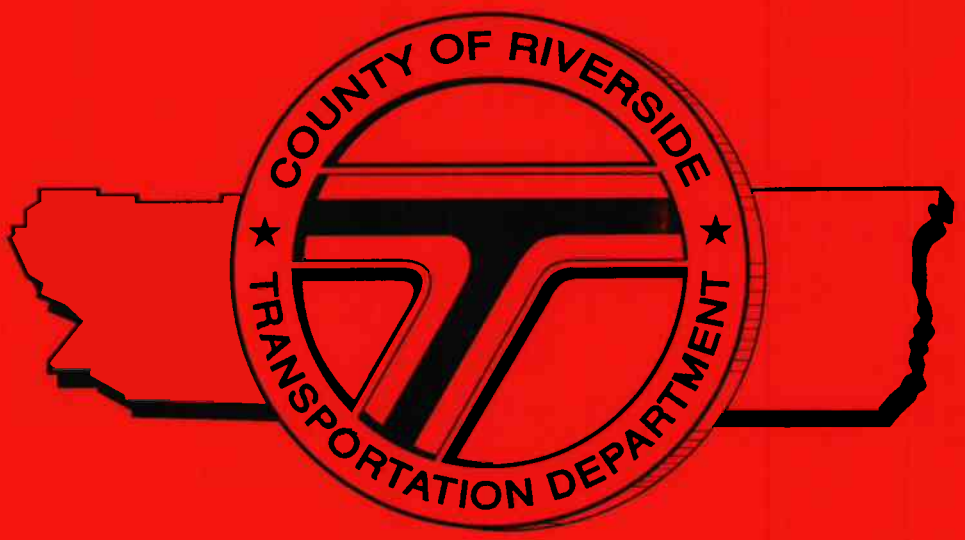
of

Soboba Street Resurfacing Project

Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791



TRANSPORTATION DEPARTMENT

APR 12 2022 3.31 P&S

SPECIFICATIONS and CONTRACT DOCUMENTS

for the

CONSTRUCTION

of

Soboba Street Resurfacing Project

Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791

TRANSPORTATION DEPARTMENT

FORM APPROVED COUNTY COUNSEL
BY: DANIELLE D. MALAND

General

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General

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* **Note:** See the first page of this document description for a detailed Table of Contents.

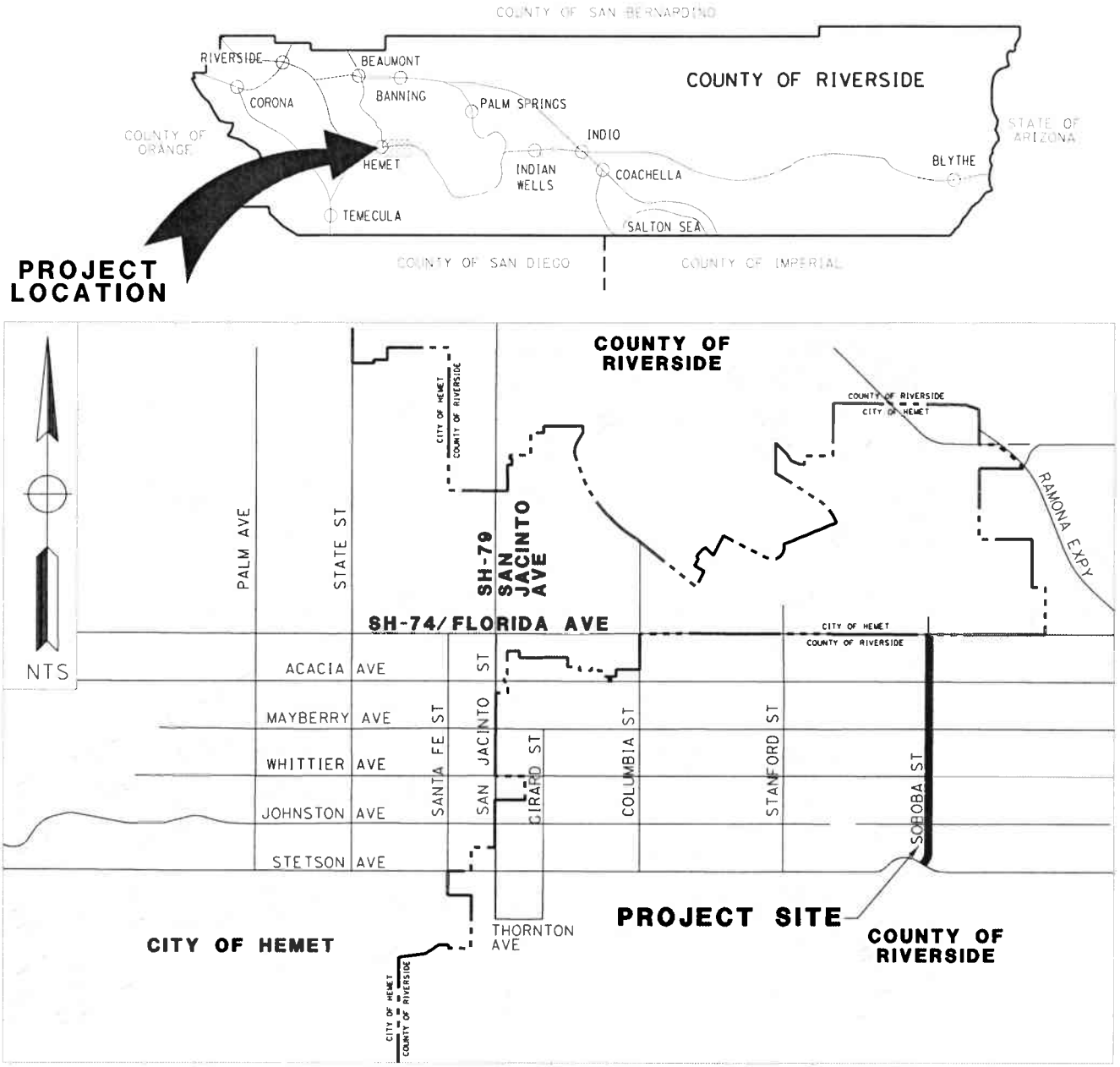
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SOBOBA STREET
RESURFACING PROJECT

STETSON AVENUE TO FLORIDA AVENUE (SH-74)

COMMUNITY OF EAST HEMET

PROJECT No. A8-0791



VICINITY MAP

Specifications and Contract Documents

for the construction of

Soboba Street Resurfacing Project

Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791

Contract Approval(s)

Approval:

Khalid Nasim

Khalid Nasim, PE
Engineering Division Manager

3/3/2022
Date

Engineering Certification(s)

These specifications, special provisions, and estimates have been prepared by or under the direction of the following Registered Civil Engineer(s):

Mike Heath

Mike Heath, PE

3/1/2022
Date

Specifications and Contract Documents

for the construction of

Soboba Street Resurfacing Project

Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791

Water Pollution Control – Specifications and Special Provisions

Reviewed and Recommended by:

Jan Bulinski

Jan Bulinski
Senior Transportation Planner/NPDES
Coordinator

3/1/22
Date

Specifications and Contract Documents

for the construction of

Soboba Street Resurfacing Project

Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791

Transportation Department Management Review and Recommendation

Traffic Engineering Dennis Acuna Engineering Division Manager — 03/03/2022 Date	**Highway Operations** Paul Russell — 03/1/22 Paul Russell — Date Highway Operations Superintendent
Environmental Mary Zambon — 3.1.2022 Mary Zambon — Date Environmental Division Manager	**Construction / Inspection** Cindi A. Wachi — 03/07/2022 Cindi Wachi — Date Engineering Division Manager
Project Development Khalid Nasim — 3/3/22 Khalid Nasim — Date Engineering Division Manager	**Engineering/ Planning** Mojahed Salama — 3/7/2022 Mojahed Salama — Date Deputy Director

Notice to Bidders

County of Riverside, herein called Owner, invites sealed proposals for:

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)
Community of East Hemet
Project No. A8-0791

Bid shall be delivered to the County of Riverside Transportation Department, 14th Street Annex, 3525 14th Street, Riverside, California 92501, telephone (951) 955-6780 not later than 2:00 p.m., on Wednesday, **May 4, 2022,** to be promptly opened in public at said address. Each bid shall be in accordance with plans, specifications and other contract documents, dated **March 2022,** and prepared by County of Riverside, whose address is same as the above, from whom a digital set of documents (bid book and plans) may be obtained upon request, at no cost, or a printed set of bidding documents with 22" x 34" size plans may be obtained upon request for a nonrefundable fee of **$30.00** per set, plus mailing costs. Email request of bidding documents, with company and contact information, to **Bids-Contracts@rivco.org** and reference this project (or contact the address or telephone number above).

Pursuant to Labor Code section 1771.1, any Contractor bidding, or subcontractor to be listed on a bid proposal subject to Public Contract Code section 4104, shall not be qualified to bid after March 1, 2015, unless currently registered and qualified to perform public works pursuant to Labor Code section 1725.5. No Contractor or subcontractor may be awarded a contract or perform work on any contract for public work, after April 1, 2015, without proof of current registration with the Department of Industrial Relations pursuant to Labor Code section 1725.5 to perform public works.

The County of Riverside, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Department of Commerce (15 C.F.R., Part 8) and related statutes, issued pursuant to such Act, hereby notifies all bidders that minority businesses will be afforded full opportunity to submit bids, and it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, sex, national origin, religion, age, or disability.

The Contractor is required to have a Class "A" license at the time of bid submission.

Engineering Estimate:	$ 1,200,000 - $ 1,425,000	(Base Bid Schedule)
	$ 9,000 - $ 10,500	(Alternative Bid Schedule 1)
	$ 2,200 - $ 2,600	(Alternative Bid Schedule 2)

Bid Bond	10 %
Performance Bond	100 %
Payment Bond	100 %
Working Days	40

Website: http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

Instructions to Bidders

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Instructions to Bidders

The Bidder's attention is directed to the provisions in Standard Specifications Section 2, "Bidding" and the Contract Documents, including the Plans and the Special Provisions, for the requirements and conditions which the Bidder must observe in the preparation of and the submission of the Bid.

In compliance with the Americans with Disabilities Act, persons with disabilities may request for assistance and reasonable accommodations (including auxiliary aids and services at no cost) to participate in the pre-bid meeting (if scheduled and as designated in the Notice to Bidders) or bid opening meeting (as scheduled in the Notice to Bidders). The physical location of the pre-bid meeting and bid opening is accessible to persons with disabilities. If assistance is needed, please contact the Project Development Division at 951-955-6780 or jrjimenez@rivco.org at least 3 business days before the scheduled event.

In compliance with Title II of the Americans with Disabilities Act (ADA), the County of Riverside does not discriminate on the basis of disability in admission to, access to, or operations of its programs, services or activities. It is committed to ensuring that its programs, services and activities are fully accessible to and usable by people with disabilities.

To accommodate persons with disabilities, documents in this Bid Book are available in alternate formats upon request.

1. Inspection of Site

Bidder's attention is directed to Standard Specifications Section 2-1.07, "Job Site and Document Examination." Bidders must examine the site and acquaint themselves with all conditions affecting the work. By making and submitting a bid, a Bidder warrants that he has made such site examination as the Bidder deems necessary for the condition of the site, its accessibility for materials, workmen and utilities, and for the ability to protect existing surface and subsurface improvements. No claim for allowances, time or money, will be allowed as to such matters.

2. Bidder's Bid Form

The Bid must be made on the Bid forms, which are included in the Contract Documents, and must be completely filled in, dated and signed. Signature(s) provided by the Bidder must be from an authorized officer or agent (see Bidder Data and Signature sheets).

If provision is made for alternate bid schedule(s), all bid schedules must be bid, unless otherwise instructed in the Special Provisions.

All Bid forms shall be obtained from the Riverside County Transportation Department, 3525 14th Street, Riverside, California 92501.

3. Bid Bond

All Bidders are required to use the bond form found in the Bid Book's "B" pages; the form is titled "Bid Bond."

The Bid must be accompanied by a 10% Bid Bond using the form provided in the Bid Book, or a certified check, or cashier's check payable to the order of "County of Riverside," in an amount not less than 10% of the bid amount, inclusive of alternate bid schedule(s). Submitted Bid Bond form must be completely filled in, sealed, dated and signed. Signatures on the Bid Bond must be notarized. Bond shall be provided with an executed Power of Attorney issued by the surety.

4. Non-Collusion Declaration

In conformance with Public Contract Code §7106, a Non-Collusion Declaration is included in the Bid. Bidder Declaration must be submitted using the form provided in the Bid Book and it must be completely filled in, dated and signed. Signatures on the Non-Collusion Declaration must be notarized.

5. Additional Bidding Forms

A. Iran Contracting Act, Certification or Exemption

The Department of General Services has published a list of companies who are prohibited from contracting with public entities in California as required by Public Contract Code §2200 through §2208.

The Iran Contracting Act Certification/Exemption form is included in the Bid Book. For projects estimated or Bid, in the amount of $1,000,000 or more, Bidder must completely fill in, date, sign and submit this form with the Bid documents.

B. Opt Out of Payment Adjustments for Price Index Fluctuations

Bidder's attention is directed to Standard Specifications Section 2-1.31, "Opt Out of Payment Adjustments for Price Index Fluctuations."

To "Opt Out" the "Opt Out of Payment Adjustment for Price Index Fluctuations" form provided in the Bid Book must be completely filled in, dated, signed, and submitted with the Bid documents. If this form is not submitted with the Bid documents, or if this form is not completely filled in, dated, signed, and submitted when the Bid documents are due, Bidder shall be subject to the Payment Adjustments for Price Index Fluctuations set forth in Standard Specifications Section 9-1.07 "Payment Adjustments for Price Index Fluctuations."

6. Interpretation of Documents

Discrepancies, errors, omissions, ambiguities, requirements likely to cause disputes between trades and similar matters must be promptly brought to the attention of the County in writing. When appropriate, addenda will be issued by the County.

If the Bidder requires clarification or interpretation of the bidding Contract Documents, the Bidder must make a written request to the County by a Request for Information (RFI). All RFIs must be submitted in writing between the hours of 8:00 a.m. and 5:00 p.m. , Monday through Friday (except County-overserved holidays), up to, including and no later than the fifth (5^{th}) business day prior to the bid closing deadline, by hand delivery, mail, fax or electronic mail. The County will not respond to RFIs submitted after that time, unless the County determines at its sole discretion that it is in the best interest of the public and the County to do so. RFIs should be addressed and sent to:

County of Riverside
Transportation Department
Attention: Contracts/Bidding Unit
3525 14^{th} Street
Riverside, CA 92501

Facsimile:	(951) 955-3164
Electronic mail:	jrjimenez@rivco.org and/or Bids-Contracts@rivco.org

Any communication by anyone as to RFIs and other project document inquiries, except by Addenda, does not affect the meaning or requirements of the Contract Documents.

7. Quantities

The amount of work to be done and/or materials to be furnished under the Contract, as shown in the Bid form, are merely estimates and are not to be taken as an expressed or implied statement that the actual amount of work or materials will correspond to the estimate.

County reserves the right to increase, decrease or entirely eliminate any items from the work and/or materials to be furnished.

Bidders are cautioned against the unbalancing of their bid by prorating project overhead costs only into one, two, or few items when there are various items listed in the bid schedule(s).

8. Addenda

County reserves the right to issue Addenda to the Contract Documents at any time prior to the scheduled bid opening date and time. Each potential Bidder must provide the County his company name, contact name, phone number, facsimile number, electronic mail address and company address for the purpose of receiving Addenda.

To be considered responsive, the Bid must list and take into account all issued Addenda.

In addition to listing the acknowledged addenda (if any) on the Bid, Bidders should submit each addendum's acknowledgement signature page and attach each one to the Bid. Attaching all addenda pages and attachments (if any) to the Bid submittal is not necessary for Bid submittal. All Addenda is a component of the Contract Documents.

9. License

To be considered for award of the Contract, a Bidder must have the necessary license(s) required under provisions of the California Business and Professions Code for the scope of work covered in the Contract Documents at the time of bid submission. This includes Joint Ventures.

Each item of work will be performed by a Contractor that is qualified and properly licensed for that work.

Pursuant to California Labor Code §3099, certification is required for all persons who perform work as electricians for Contractors licensed as Class C10 "Electrical Contractor." Proof of certification must be provided to the County before the start of construction.

10. Contract Participation

County encourages general and prime Contractors to solicit competitive subcontracting, trucking and supplier opportunities to minority, women, disabled veteran, and small business firms where possible, in their contracting and procurement activities with the County.

Section 3-1.08, "Small Business Participation Report," of the Standard Specifications is deleted.

11. Subletting, Subcontracting, and Subcontractor List

General

Attention is directed to General Conditions Section 12, "Subcontracting."

Pursuant to Public Contract Code § 4100 et seq., "Subletting and Subcontracting Fair Practices Act," Bidders are required to list each subcontractor who will perform work, provide labor, or render services in or about the construction of work or improvement or a subcontractor who specifically fabricates and installs a portion of the work or improvement according to the details contained in the Plans and Specifications. The Subletting and Subcontracting Fair Practice Act applies to all phases of the work.

Subcontractor List

The Bidder must submit a Subcontractor List when subcontracting is utilized. Subcontractor List must be on the form contained in the Bid Book.

Section 2-1.10, "Subcontractor List" of the Standard Specifications is deleted and replaced with the following:

> Bidder must list each subcontractor to perform work, labor or render service in or about the construction in an amount in excess of 1/2 of 1 percent of the total bid or $10,000, whichever is greater (Public Contract Code § 4100 et seq.).
>
> Pursuant to Public Contract Code § 6109 et seq., the Contractor shall not perform work on a project with a subcontractor who is ineligible to perform work on the project pursuant to Labor Code § 1777.1 or 1777.7.
>
> The Subcontractor List must show the business name, business address, license number, DIR registration number and work portions to be performed by each subcontractor listed. Work portions must be identified by bid item number and description for each subcontractor listed. The percentage of work to be performed by all listed subcontractors must be written on the bottom of the Subcontractor List form.
>
> An inadvertent error in listing the license number will be processed as required by Public Contract Code § 4104 (a) (2). If partial work is to be performed within a certain construction item or trade, the Bidder/Contractor shall specify the portions of the work to be performed by the different subcontractors or the directive under Public Contract Code § 4106 shall apply.
>
> Each designated item of work will be performed by a Contractor who is qualified and properly licensed for that listed item of work.

Omission or failure to list a subcontractor for a portion of the work means that the prime Contractor will do that portion of the work (Public Contract Code § 4106).

The County may request additional information to verify submitted Subcontractor List information and for total and/or individual subcontracted percentage amounts. Bidder must provide this information within three (s) business days after the bid opening date.

Penalties

The Bidder's attention is directed to other provisions of the Subletting and Subcontracting Fair Practices Act related to the imposition of penalties for failure to observe its provisions by utilizing unauthorized subcontractors or by making unauthorized substitutions.

Clerical error

After the Bid Opening, inadvertent subcontractor designation clerical error(s) will be processed as required by Public Contract Code § 4107.5 and as required by Labor Code §1771.1 (c) for subcontractors who are not registered with the DIR.

12. Registration with the Department of Industrial Relations (DIR)

Attention is directed to:

- Notice to Bidder's regarding Labor Code requirements
- General Conditions Section 8, "Labor Code"

No Contractor may submit a bid nor a subcontractor be listed on a bid (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code § 1725.5 or excepted from this requirement for bid purposes only under Labor Code § 1771.1(a).

No Contractor or subcontractor may be awarded a Contract (awarded on or after April 1, 2015) or perform work on any contract for public work unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5.

This project is subject to compliance monitoring and enforcement by the DIR.

13. Hours of Work

Attention is directed to Section 8-1.05, "Time" and Section 7-1.02K(5), "Working Hours" of the Standard Specifications.

Daily working hours will be between the hours of **7:00 a.m. and 6:00 p.m.**, Monday through Friday, except County-overserved holidays, or as revised in the Special Provisions, and as approved by the Engineer. Exceptions and specific work schedules must be submitted in writing to the Engineer for consideration.

14. Alternate Bid Schedules

If the Bid includes bid items listed under a Base Bid Schedule and one or more Alternate Bid Schedules, the following will apply:

The County may award only the items of work listed on the Base Bid Schedule, or may choose to award some or all of the Alternate Bid Schedules in addition to the Base Bid Schedule. Unless otherwise specified, the basis of the selection of the lowest bid will be the lowest responsive and responsible bid for the sum of all Bid Schedules.

If the Bid includes bid items listed under two or more Alternate Bid Schedules with no Base Bid Schedule, the following will apply:

This project contains Alternate Bid Schedules that may or may not be mutually exclusive, as described elsewhere in the bid documents. The County may award the items of work listed on one or more of the Alternate Bid Schedules. In the case of mutually exclusive Alternate Bid Schedules, only one of the Alternate Bid Schedules will be selected for award. Unless otherwise specified, the basis of the selection of the lowest bid will be the lowest responsive and responsible bid for the sum of all Bid Schedules.

The County reserves the right to reject all bids received.

15. Bids

No Bidder may withdraw their bid for a period of ninety (90) calendar days after the bid opening.

The County publicly opens and reads bids at the time and place shown on the Notice to Bidders.

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 bid, for comparison purposes, will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

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

In the case of a discrepancy between the unit price and the total set forth for a unit basis item, the unit price will prevail, in (1) or (2), as follows:

1. If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the amount as the entry in the item "Total" column, then the amount set forth in the item "Total" column for the item shall be divided by the estimated quantity for the item and the price thus obtained will be the unit price.

2. (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc.

from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage-wise the unit price or item total in the County's final estimate of cost.

If both the unit price and the item total are unreadable or otherwise unclear, or are omitted, the bid may be deemed irregular. Likewise if the item total for a Lump Sum item is unreadable or otherwise unclear, or is omitted, the bid may be deemed irregular unless the project being bid has only a single item and a clear, readable total bid amount is provided.

Symbols such as commas and dollar signs will be ignored and have no mathematical significance in establishing any unit price or item total or Lump Sums. Written unit prices, item totals and Lump Sums will be interpreted according to the number of digits and, if applicable, decimal placement. Cents symbols also have no significance in establishing any unit price or item total since all figures are assumed to be expressed in dollars and/or decimal fractions of a dollar.

Bids on Lump Sum items shall be item totals only; if any unit price for a Lump Sum item is included in a bid and it differs from the item total, the items total shall prevail.

The foregoing provisions for the resolution of specific irregularities cannot be so comprehensive as to cover every omission, inconsistency, error or other irregularity which may occur in a bid. Any situation not specifically provided for will be determined in the discretion of the County, and that discretion will be exercised in the manner deemed by the County to best protect the public interest in the prompt and economical completion of the work. The decision of the County respecting the amount of a bid, or the existence or treatment of an irregularity in a bid, including determination of non-responsiveness, shall be final.

The County hereby reserves the right to reject any and all bids, to waive any irregularity, and to award the Contract to other than the lowest Bidder.

16. Like Bid Items

The Bidder is advised that the items of work may be grouped into bid schedules, and that certain bid items may be listed in more than one bid schedule, and listed with different bid item numbers, and the following will apply thereto:

The Bidder is directed to submit the same bid amount for all bid items that are listed with the same item code and item description. Said bid items are referred to herein as "Like Bid Items."

"Like Bid Items" will be considered a single bid item for purposes of calculating increased and decreased quantities, and as otherwise applicable in Section 4-1.05, "Changes and Extra Work" of the Standard Specifications.

The following are not subject to this bidding requirement:

1. Bid items with the same item code but different item descriptions.

2. Bid items that are measured as "Lump Sum" or "Force Account."

3. Alternate Bid Schedules.

In the event that a Bidder submits different unit bid amounts for "Like Bid Items," as described above, the bid will be corrected by applying the lowest of the unit bid amounts to all the respective "Like Bid Items."

17. Contract Documents

The complete Contract Documents are identified in the Contract. Potential Bidders are cautioned that the successful Bidder incurs duties and obligations under all of the Contract Documents and that they should not merely skim and hastily review the Plans and Specifications in making their bid.

18. Submission of Bidder's Bid

A Bidder's Bid must be submitted in a sealed opaque envelope that clearly identifies the Bidder's name and the project name. Bids must be received before the scheduled date and time at the location set forth in the Notice to Bidders and may be withdrawn only as stated in the Bid. Bids must be completed in ink.

19. Qualifications of Bidders

No award will be made to any Bidder who cannot give satisfactory assurance to the Board of Supervisors as to his own ability to carry out the Contract, both from his financial standing and by reason of his previous experience as a Contractor on work of the nature contemplated in the Contract. The Bidder may be required to submit his record of work of similar nature to that proposed under these specifications and unfamiliarity with the type of work may be sufficient cause for rejection of bid.

20. Award of Contract

The Bidder's attention is directed to the provisions in these Instructions to Bidders for the requirements and conditions concerning award and execution of Contract.

Section 3-1.04, "Contract Award" of the Standard Specifications is deleted.

Section 3-1.02B, "Tied Bids" introduction sentence, "The Department breaks a tied bid with a coin toss except:" is deleted and replaced with:

"The County may select one of any number of tied bids by its desired choice (Public Contract Code § 22038.b) and:"

The award of the Contract, if it be awarded, will be to the lowest responsible Bidder whose bid complies with all the requirements prescribed.

The County reserves the right to reject all bids received.

Acceptance, by the governing body of the County by resolution or minute order at a meeting regularly called and held, of a Bid constitutes an award of the Contract and the execution of the Contract is a written memorial thereof.

The County will submit the Contract Documents to the low responsive and responsible Bidder for execution prior to award utilizing the following procedures and requirements:

A. A Bidder whose Bid is accepted must execute the formal construction Contract with the County, similar to the form attached hereto as a sample, and must return said Contract, together with approved Performance Bond and Payment Bond and with complete evidence of insurance as required elsewhere herein, including executed additional insured endorsements and waivers of subrogation, within ten (10) business days from the date of the Notice of Acceptance of Bid and Intent to Award as issued by the Transportation Department. All submittals must meet the requirements of the bid documents. Corrections, if required, must be made and the revised documents must be resubmitted within two (2) business days of Contractor's receipt of review comments.

B. The bonds and insurance documentation must be submitted in accordance with the Contract Document requirements prior to submission to the County of Riverside Board of Supervisors for award by the Transportation Department and prior to the performance of any work under the Contract.

C. If a Bidder to whom a Notice of Acceptance of Bid and Intent to Award has been issued, fails or refuses to sign a construction Contract, or to furnish the bonds or insurance certificates and endorsements as required within the prescribed period of time as described above, the County may, at its sole discretion, rescind the Notice of Acceptance, and the bid guarantee submitted by that Bidder will become the property of the County as prescribed in the bid documents and as allowed by law.

D. If it is in the best interest of the County, the County reserves the right to award the Contract prior to execution by the Contractor. Thereafter, County will mail or deliver the County signed Contract to the awarded Contractor for execution and return.

Bid Protest

Any Bidder submitting a bid to County may file a protest of the County's proposed Award of the Contract provided that each and all of the following are complied with:

1. The bid protest is in writing.

2. The bid protest is filed with and received by County of Riverside Transportation and Land Management Agency at the following address:

   County of Riverside
   Transportation Department
   Attention: Contracts/Bidding Unit
   3525 14th Street
   Riverside, CA 92501

   Facsimile: (951) 955-3164
   Electronic mail: jrjimenez@rivco.org

3. The bid protest is filed with and received not more than five (5) calendar days following the date of issuance of the Notice of Intent to Award. Notice of Intent to Award letter is posted on the County of Riverside Transportation Department website along with the project bid summary. URL for this webpage is http://rctlma.org/trans/Contractors-Corner/Bid-Summaries. Failure to timely file and serve the bid protest as aforestated shall constitute grounds for the County's denial of the bid protest without consideration of the grounds stated therein.

4. The written bid protest sets forth, in detail, all grounds for the bid protest, including without limitation all facts, supporting documentation, legal authorities and argument in support of the grounds for the bid protest. Any grounds not set forth in the bid protest shall be deemed waived. All factual contentions must be supported by competent, admissible and credible evidence. Any bid protest not conforming to the foregoing shall be rejected as invalid.

5. Provided that a bid protest is filed in conformity with the foregoing, the Director of TLMA, or such individual(s) as may be designated by the Director in his discretion, shall review and evaluate the basis of the bid protest, and shall provide a written decision to the Bidder submitting the bid protest, either concurring with or denying the bid protest. The written decision of the Director or his designee shall be final, unless overturned by the Board of Supervisors.

21. Payment and Performance Bonds

The County requires a 100% Payment Bond and 100% Performance Bond from the successful Bidder. All bonds must be on County's forms contained in the Bid Book.

The bonds must be underwritten by a Surety Company, which is admitted to transact the business of insurance in the State of California, and which carries a rating in the current issue of Best's Insurance Guide of "A" or better with a financial size of at least "VIII". The bond forms included in the Bid Book must be used. All signatures on the bonds must be notarized. Bonds must be provided with an executed Power of Attorney issued by the Surety.

22. Return of Bid Guarantee

Standard Specification Section 3-1.19, "Bidder's Securities" is deleted.

Bid bonds will not be returned unless specifically requested by the Bidder in writing. Any submitted negotiable securities of unsuccessful Bidders will be returned by mail within 30 days of the award of a contract to the successful Bidder. Any submitted negotiable security of the successful Bidder will be returned by mail within 30 calendar days of acceptable receipt of executed Contract, certificate of insurance, Performance Bond and Payment Bond.

23. Submission of Insurance Certificate and Endorsements

Attention is directed General Conditions Section 4, "Insurance and Hold Harmless."

Within ten (10) working days of the date of the Notice of Acceptance of Bid and Intent to Award issued by the County, the successful Contractor must submit a certificate of insurance, including required endorsements, which provides evidence that the bidding Contractor has insurance coverage that meets the requirements of General Conditions "Insurance and Hold Harmless" section. Failure to have complete insurance coverage in place and to provide all required certificates and endorsements within the specified ten (10) business day period will be grounds to declare the Bidder as non-compliant with the bid documents, rescinding the Notice of Acceptance, making a claim against the bid bond, and awarding to the second low Bidder, at the sole discretion of the County.

Bid

Date: _____

To: County of Riverside, hereafter called "County";

Bidder: _____
(hereafter called "Contractor")

The undersigned, Contractor, having carefully examined the site and the Contract Documents for the construction of **Soboba Street Resurfacing Project, Stetson Avenue to Florida Avenue (SH-74), Community of East Hemet, Project No. A8-0791** hereby proposes to construct the work in accordance with the Contract Documents, including **Addenda Number(s)** _____ (Fill in addenda numbers if addenda have been issued.) for the amount stated in this Bid.

By submitting this Bid, Contractor agrees with County:

1. That unless withdrawn in person by Contractor or some person authorized in writing by Contractor (not by telephone or facsimile) before the time specified in the Notice Inviting Bids for the public opening of bids, this Bid constitutes an irrevocable offer for 90 calendar days after that date.

2. County has the right to reject any or all Bids and to waive any irregularities or informalities contained in a Bid.

3. To execute the Contract and deliver the Performance Bond, Payment Bond and Insurance Certificate with endorsements, that comply with the requirements set forth in the Instruction to Bidders and General Conditions, within ten (10) business days of the date of the Notice of Acceptance of Bid and Intent to Award as issued by the County.

4. That the contract shall be awarded upon a resolution or minute order to that effect duly adopted by the governing body of County; and that execution of the Contract shall constitute a written memorial thereof.

5. To submit to the County such information as County may require determining whether a particular Bid is the lowest responsible bid submitted.

6. That the accompanying Bid Bond, certified check or cashier's check is in an amount not less than 10% of the total bid submitted and constitutes a guarantee that if awarded the contract, Contractor will execute the Contract and deliver the required bonds within ten (10) business days after notice of award. If Contractor fails to execute and deliver said documents, the bond or check is to be charged with the costs of the resultant damages to the County, including but not limited to: publication costs, the difference in money between the amount bid and the amount in excess of the bid which it costs County to do or cause to be done for the work involved, lease and rental costs, additional salaries and overhead, increased interest and costs of funding the project, attorney expense, additional engineering and architectural expense and cost of maintaining or constructing alternate facilities occasioned by the failure to execute and deliver said documents.

7. By signing this Bid the Contractor certifies that the representations made therein are made under penalty of perjury.

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)
Community of East Hemet
Project No. A8-0791

PROPOSAL

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
BASE BID SCHEDULE - Soboba Street Resurfacing and associated improvements						
1	100100	DEVELOP WATER SUPPLY	LS	1		
2	120100	TRAFFIC CONTROL SYSTEM	LS	1		
3	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1		
4	170103	CLEARING AND GRUBBING	LS	1		
5	066102	DUST ABATEMENT	LS	1		
6	190101 (F)	ROADWAY EXCAVATION	CY	2,100		
7	194001	DITCH EXCAVATION (AND GRADING)	CY	600		
8	013905	ASPHALT CONCRETE (DRIVEWAY APPROACH WITH ASPHALT CONCRETE DIKE) (CRS 206)	SQFT	3,100		
9	013908	ASPHALT CONCRETE DRIVEWAY	SQFT	6,200		
10	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	2,240		
11	013904	PLACE ASPHALT CONCRETE DIKE (CRS 212) (8")	LF	1,163		
12	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F MOD) (9")	LF	113		
13	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F MOD) (12")	LF	389		
14	013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	EA	4		
15	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	12,500		
16	390132	HOT MIX ASPHALT (TYPE A)	TON	2,900		
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	2,900		
18	710212	ADJUST MANHOLE TO GRADE (LHMWD, RCFC)	EA	10		
19	510502	MINOR CONCRETE (MINOR STRUCTURE) [HEADWALL]	EA	1		
20	723160	CONCRETED-ROCK SLOPE PROTECTION (1/4 T, Class V, METHOD A)	CY	6		
21	017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	3		
22	017317	MINOR CONCRETE (CROSS-GUTTER AND SPANDREL) [CRS 209]	SQFT	2,200		
23	017317	MINOR CONCRETE (CROSS-GUTTER AND SPANDREL) [CRS 209 WITH DOWELS PER SPPWC 122-2]	SQFT	830		
24	017305	MINOR CONCRETE (CURB AND GUTTER) (CRS 201)	LF	204		
25	017304	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	15		

PROPOSAL

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
BASE BID SCHEDULE - Soboba Street Resurfacing and associated improvements (continued)						
26	810170	DELINEATOR (CLASS 1)	EA	30		
27	810180	DELINEATOR (CLASS 2)	EA	20		
28	820151	OBJECT MARKER (TYPE L-1)	EA	20		
29	810230	PAVEMENT MARKER (RETROREFLECTIVE)	EA	450		
30	820410	SALVAGE ROADSIDE SIGN (INCLUDING WOOD OR METAL POST OR SIGN PANEL ONLY)	EA	47		
31	820840	ROADSIDE SIGN - ONE POST	EA	50		
32	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	1,200		
33	840501	THERMOPLASTIC TRAFFIC STRIPE	LF	22,132		
34	870111	INDUCTIVE LOOP DETECTOR (TYPE E AND TYPE D PER CALTRANS STD. ES-5B) [INCLUDING DLC WIRES AND CONNECT AT CONDUIT STUB-OUT]	EA	12		
35	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	65,000.00	65,000.00

BASE BID
TOTAL: _____ $_____
ITEMS 1-35 "WORDS"

ALTERNATIVE BID SCHEDULE 1 - Southern California Edison Manhole Adjustments

36	710212	ADJUST MANHOLE TO GRADE (SCE)	EA	4		

ALT. BID SCH. 1
TOTAL: _____ $_____
ITEM 36 "WORDS"

ALTERNATIVE BID SCHEDULE 2 - Frontier Manhole Adjustments

37	710212	ADJUST MANHOLE TO GRADE (FRONTIER)	EA	1		

ALT. BID SCH. 2
TOTAL: _____ $_____
ITEM 37 "WORDS"

BASE BID SCH. + ALT. BID SCH. 1 + ALT. BID SCH. 2

PROJECT
TOTAL: _____ $_____
ITEMS 1 - 37 "WORDS"

Bidder Data and Signature

Name of Bidder: _____

Type of organization: _____

Person(s) authorized to sign for Bidder: _____

_____

_____

Note:
If Bidder is a **Corporation**, state legal name of Corporation and also names of the president, vice-president, secretary, treasurer and manager thereof.
If Bidder is a **Co-Partnership**, state true name of firm and also names of all individual co-partners composing firm.
If Bidder is a sole proprietorship or an **Individual**, state first and last name(s) in full.
If Bid is signed by an agent other than an owner, partner or corporate officer, Bid shall be accompanied by a power-of-attorney.

Business Street Address: _____
(Please include business address even if P.O. Box is used.)

Business City, State, Zip Code: _____

P.O. Box- Number: _____

P.O. Box- City, State, Zip Code: _____

Phone: (_____) _____

Facsimile: (_____) _____

E-mail: _____

Contractor's license number: _____

License Classification(s): _____

Expiration date: _____

Department of Industrial Relations Registration Number: _____

Bidder Data and Signature (continued)

Accompanying this Bid is a certified check, cashier check or bid bond in an amount equal to at least ten (10) percent of the total bid for:

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)
Community of East Hemet
Project No. A8-0791

By my signature on this Bid, I certify, under penalty of perjury under the laws of the State of California, that all the information on this form is true and correct.

IN WITNESS WHERE OF Bidder/Contractor executed this Bid as of the date set forth on page **B1** of this Bid.

Signature: _____

Name (printed): _____

Title: _____

"Contractor"

Subcontractor List

Bidder/Contractor submits the following complete list of each Subcontractor who will perform work, labor or render service in or about the construction in an amount in excess of 1/2 of 1% of the total bid or $10,000 whichever is greater.

Check box on right side of row if any construction item, for the listed Subcontractor, is partial work. If partial work is to be performed within a certain construction item or trade, the Bidder/Contractor shall specify the portion(s) of the work to be performed by the different subcontractors or Bidder/Contractor will be subject to provisions of Public Contract Code Section 4106.

Name of Bidder (Prime/General Contractor): _____

	Subcontractor Name	**License Number**	**DIR Registration Number**	**Business Address (City, State)**	**Construction Item(s) [Item Number and Description]**	**Check if Partial Work**
1.						☐
2.						☐
3.						☐
4.						☐
5.						☐
6.						☐

Additional Subcontractor List(s) may be attached to the Bid.
(A copy of this form may be attached with additional Subcontractor information.)

Percent of work to be performed by Subcontractors: _____%

Note: A minimum of 50% of the work is required to be performed by the prime/general Contractor.

Non-Collusion Declaration

To be executed by bidder and submitted with bid.
(Title 23 United States Code Section 112 and Public Contract Code Section 7106)

The undersigned declares:

I am the _____ **(Title)** of _____ **(Company)**, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder 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. 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.

All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price of any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the applicable laws that the foregoing is true and correct and that this declaration is executed on

_____ **(Month)** _____ **(Day)** of _____ **(Year)**,

at _____ **(City)**, _____ **(State)**.

Signature of Declarant: _____

Printed name of Declarant: _____

Name of Bidder (Company): _____

Title or Office: _____

Note: Notarization of signature required.
☐ Check box if attachment is included.

Iran Contracting Act

(Public Contract Code sections 2200-2208)

Prior to bidding on, submitting a proposal or executing a contract or renewal for a County of Riverside contract for goods or services of **$1,000,000 or more**, a Contractor must either:

a) Certify it is not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or

b) Demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your Contractor or financial institution name and Federal ID Number (if available) and complete one of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

Option #1 – Certification

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Contractor Name/Financial Institution (Printed)	*Federal ID Number (or n/a)*
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	*Executed in*

Option #2 – Exemption

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a Contractor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and **attach documentation demonstrating the exemption approval.**

Contractor Name/Financial Institution (Printed)	*Federal ID Number (or n/a)*
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	*Executed in*

Opt Out of Payment Adjustments for Price Index Fluctuations

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)
Community of East Hemet
Project No. A8-0791

To opt out of the payment adjustments for price index fluctuations, as specified in Standard Specifications Section 9-1.07 "Payment Adjustments for Price Index Fluctuations," completely fill in, date, sign, and submit this form with the Bid documents.

By signing and submitting this form, our company hereby opts out of the payment adjustments for price index fluctuations for the above-named project.

Date: _____

Company Name (Bidder): _____

Signature: _____

(Signature of Company's authorized officer or designated representative)

Name (printed): _____

Title: _____

Bid Bond

Recitals:

1. _____ "Contractor", has submitted his/her Contractor's Proposal to County of Riverside, "County", for the construction of public work for **Soboba Street Resurfacing Project, Stetson Avenue to Florida Avenue (SH-74), Community of East Hemet, Project No. A8-0791** in accordance with a Notice Inviting Bids from the County.
2. _____ a _____ corporation, hereafter called "Surety", is the surety of this bond.

Agreement:

We, Contractor as Principal and Surety as Surety, jointly and severally agree and state as follows:

1. The amount of the obligation of this bond is 10% of the amount of the Contractor's Proposal, including bid alternates, and inures to the benefit of County.
2. This Bond is exonerated by (1) County rejecting said Proposal or, in the alternate, (2) if said Proposal is accepted, Contractor executes the Contract and furnishes the Bonds as agreed to in its Proposal, otherwise it remains in full force and effect for the recovery of loss, damage and expense of County resulting from failure of Contractor to act as agreed to in its Proposal. Some types of possible loss, damage and expense are specified in the Contractor's Proposal.
3. Surety, for value received, stipulates and agrees that its obligations hereunder shall in no way be impaired or affected by any extension of time within which County may accept the Proposal and waives notice of any such extension.
4. This Bond is binding on our heirs, executors, administrators, successors and assigns.

Dated: _____

Signatures:

_____ _____

By: _____ By: _____

Title: Attorney in Fact "Surety" Title: _____ "Contractor"

STATE OF _____
COUNTY OF _____ } ss. SURETY'S ACKNOWLEDGEMENT

On _____ before me, _____ personally appeared, _____ known to me, or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacities, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

_____

Signature of Notary Public Notary Public (Seal)

Note: This Bond must be executed by both Contractor and Surety with corporate seal affixed. All signatures must be notarized. (Attach acknowledgements).

Riverside County Contract No. _____

Contract

THIS CONTRACT is entered into at Riverside, California as of the date set forth below is between County of Riverside hereafter called "County" and _____, hereafter called "Contractor".

W I T N E S S E T H

Recitals:

1. Contractor has submitted to County his Contractor's Proposal for the construction of County Project, _____, in strict accordance with the Contract Documents identified below and County has accepted said Proposal.

2. Contractor states that he has reexamined his Contractor's Proposal and found it to be correct, has ascertained that his subcontractors are properly licensed and possess the requisite skill and forces, has reexamined the site and Contract Documents and is of the opinion that he can presently do the work in accordance with the Contract Documents for the money set forth in his Proposal to be paid as provided in the Contract Documents.

Agreement:

It is agreed by the parties as follows:

1. Contract Documents

   The entire Contract consists of the following: (a) The Construction Contract, (b) The Notice to Bidders. (c) The Instruction to Bidders, (d) The Bid, (e) The Bid Bond, (f) The Payment Bond, (g) The Performance Bond, (h) The General Conditions, (i) The Special Provisions, (j) The Standard Specifications of the State of California Department of Transportation edition of **2018** as modified in other portions of the Contract Documents and as amended by the State of California Department of Transportation, (k) The Standard Plans of the Department of Transportation identified on the plans or in the Special Provisions, (l) The Plans, (m) Addenda , (n) The Determination of Prevailing Wage Rates for Public Works, (o) Any Change Orders issued, and (p) Any additional or supplemental specifications, notice, instructions and drawings issued in accordance with the provisions of the Contract Documents. All of said Documents presently in existence are by this reference incorporated herein with like effect as if here set forth in full and upon the proper issuance of other documents they shall likewise be deemed incorporated. The Bid Bond is exonerated upon execution of this Contract and the Payment Bond and Performance Bond.

2. The Work

Contractor shall do all tasks necessary to construct the work generally described in Recital No. 1 in accordance with the Contract Documents.

3. Prosecution, Progress and Liquidated Damages

Attention is directed to the provisions in Section 8-1.04,"Start of Job Site Activities", Section 8-1.05, "Time", and in Section 8-1.10 "Liquidated Damages" of the Standard Specifications and these Special Provisions.

Standard Specification Section 8-1.04B, "Standard Start" is modified to read as follows:

The Contractor shall begin work within fifteen (15) calendar days, or as revised in the Special Provisions, of the date stated within the written "Notice to Proceed".

The Contractor shall notify the Engineer, in writing, of the Contractor's intent to begin work at least 72 hours before work is begun. If the project has more than one (1) location of work, Contractor shall submit a separate notice for each location. The notice shall be delivered to the Transportation Department's Construction Engineer and shall specify the date the Contractor intends to start at said location.

Should the Contractor begin work in advance of receiving a written "Notice to Proceed", any work performed by the Contractor in advance of the date stated in the "Notice to Proceed" shall be considered as having been done by the Contractor at his own risk and as a volunteer and subject to the following:

A. The Contractor shall, on commencing operations, take all precautions required for public safety and shall observe all the provisions in the Specifications and the Special Provisions.

B. All work done according to the Contract, prior to the issuance of the "Notice to Proceed", will be considered authorized work and will be paid for as provided in the contract.

C. The Contractor shall not be entitled to any additional compensation or an extension of time for any delay, hindrance or interference caused by or attributable to commencement of work prior to the issuance of the "Notice to Proceed".

4. Compensation

Contractor shall be paid in the manner set forth in the Contract Documents the amount of his Proposal as accepted by County, the above rates, subject to additions and deductions as provided in the Contract Documents. Said Proposal is on file in the Office of the Clerk of the Board of Supervisors of County.

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74).
Community of East Hemet
Project No. A8-0791

Contract (Example)

BASE BID

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
...						
...						
...						
...						
...						
...						
...						
...						
...						
N						

PROJECT TOTAL: _____ **$----------**
ITEMS 1-N "WORDS"

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)
Community of East Hemet
Project No. A8-0791

IN WITNESS WHEREOF the parties hereto have executed this Contract as of the date set forth below.

COUNTY OF RIVERSIDE

BY: _____

Chair, Board of Supervisors

DATED: _____

ATTEST:

Kecia R. Harper, Clerk of the Board

BY: _____

Deputy

BY _____
"County"

CONTRACTOR

BY: _____

TITLE: _____
(If Corporation, affix Seal)

ATTEST:

_____

TITLE: _____

Licensed in accordance with an act providing for the registration of Contractors,

License No.: _____

Federal Employer Identification Number:

_____

Department of Industrial Relations Registration Number:

_____

_____
"Corporation"
(Seal)

Performance Bond

Recitals:

1. _____ (Contractor) has entered into a Contract with COUNTY OF RIVERSIDE (County) for construction of public work known as _____ _____.

2. _____, a _____ corporation (Surety), is the Surety under this Bond.

Agreement:

We, Contractor as Principal and Surety as Surety, jointly and severally agree, state, and are bound unto County, as obligee, as follows:

1. The amount of the obligation of this Bond is 100% of the estimated contract price for the Project of $_____ and inures to the benefit of County.

2. This Bond is exonerated by Contractor doing all things to be kept and performed by it in strict conformance with the Contract Documents for this project, otherwise it remains in full force and effect for the recovery of loss, damage and expense of County resulting from failure of Contractor to so act. All of said Contract Documents are incorporated herein.

3. This obligation is binding on our successors and assigns.

4. For value received, Surety stipulates and agrees that no change, time extension, prepayment to Contractor, alteration or addition to the terms and requirements of the Contract Documents or the work to be performed thereunder shall affect its obligations hereunder and waives notice as to such matters, except the total contract price cannot be increased by more than 10% without approval of Surety.

THIS BOND is executed as of _____.

By _____ By _____

By _____ Type Name _____

Its Attorney in Fact
"Surety"

Title _____

"Contractor"

(Corporate Seal) (Corporate Seal)

NOTE: **This Bond must be executed by both parties with corporate seal affixed. <u>All</u> signatures must be acknowledged.** (Attach acknowledgements).

Payment Bond

(Public Works - Civil Code §9550 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 to be executed between Principal and COUNTY OF RIVERSIDE a public entity, as Owner, for $_____, the total amount payable. The amount of this bond is one hundred percent (100%) of said sum. Said contract is for public work generally consisting of _____
_____.

The beneficiaries of this Bond are as is stated in 9554 of the Civil Code and requirements and conditions of this Bond are as is set forth in 9554, 9558, 9560 and 9564 of said code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, or prepayment under said contract.

Dated: _____

_____
Original Contractor – Principal

_____
Surety

By _____

By _____

Its Attorney In Fact

Title _____

(If corporation, affix seal)

(Corporate Seal)

(Corporate Seal)

STATE
OF _____
COUNTY
OF_____ } ss. SURETY'S ACKNOWLEDGEMENT

On _____ before me, _____ personally appeared, _____, known to me, or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacities, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

_____
Signature of Notary Public

Notary Public (Seal)

NOTE: This Bond must be executed by both parties with corporate seal affixed. <u>All</u> signatures must be acknowledged. (Attach acknowledgements).

General Conditions

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General Conditions

1. Definitions and Terms

Whenever in the Standard Specifications the following terms are used, they shall be understood to mean and refer to the following:

A. "Department," "Department of Transportation," "State," and "State of California" means the County of Riverside.

B. "Engineer," and "Director of Transportation" means the Director of Transportation and Land Management Agency's (TLMA) Transportation Department for the County of Riverside, and includes his or her authorized representatives.

C. "Laboratory" means the established laboratory of the County of Riverside.

D. "Plans" means the portion of the Contract Documents consisting of all drawings prepared for the direction and characteristics of the work. A schedule of said drawings which constitutes the plans as of the execution of the Contract is set forth in the Special Provisions and are supplemented by the Standard Plans referred to in the Special Provisions.

Other terms appearing in the Specifications and Contract Documents, including the Special Provisions, shall have the intent and meaning specified in Section 1-1.07, "Definitions" of the Standard Specifications. The following are additional terms appearing in the Contract Documents:

- "County," "Contractor" and "Contract Documents" are identified in the Contract. "County" and "Contractor" includes their authorized representatives are treated throughout as if each were singular in number. "Contractor" includes its surety.

- "Contract Documents" are identified in the Contract.

- "Business Day" is defined as 7:30 a.m. to 5:30 p.m. Monday through Friday, excepting therefrom when County is closed for holidays as set forth in County Ordinance 358, Section 1, items c. through q.

- "You" and "Your" means the Bidder and/or Contractor.

- "Specifications and Contract Documents" means the County's Bid Book comprised of the forms, drawings, table of contents, specifications and contract documents for the construction of the County's transportation or road project.

2. Standard Specifications

The Standard Specifications of the State of California Department of Transportation, edition of **2018** hereafter called "Standard Specifications," including amendments and revisions to the Standard Specifications, are incorporated herein as modified in these General Conditions, the Instructions to Bidders, the Special Provisions and the Plans.

General Conditions govern over all the Contract Documents expect the Special Provisions, the Contract, and Bonds.

The following subsections of the Standard Specifications are deleted:

- 2-1.15C(2), DVBE Incentive
- 3-1.08, Small Business Participation Report
- 3-1.11, Payee Data Record
- 8-1.04B, Standard Start
- 12-1.04, Payment (for Flagging Costs)

Amendments to the Standard Specifications for this project, **as dated in the Special Provisions**, are incorporated herein. During the advertisement period of this project, this document is available upon request at the office of the County of Riverside Transportation Department and will be available to the awarded Contractor.

Amendments to the Standard Specifications set forth in the Special Provisions shall be considered as part of the Standard Specifications. Whenever either the term "Standard Specifications is amended" or the term "Standard Specifications are amended" is used in the Special Provisions, the text or table following the term shall be considered an amendment to the Standard Specifications.

In case of conflict between such amendments and the Standard Specifications, the amendments shall take precedence over and be used in lieu of the conflicting portions.

In case of conflict between the Standard Specifications and these Special Provisions, the Special Provisions shall take precedence over and be used in lieu of such conflicting portions.

In the event that discrepancies are encountered which are not addressed herein, the option that provides the method, item or material with the greatest strength, utility, performance shall be selected, as directed by the Engineer.

3. Director of Transportation

All work shall be done under the supervision of the Director of Transportation who shall determine the amount, quality, acceptability and fitness of all parts of the work, and interpret the Contract Documents. No act or omission of the Director of Transportation relieves Contractor of the duty to proceed with the work in strict conformity with the Contract Documents.

Upon request, Director of Transportation shall reduce to writing any oral order, objection, requirement or determination. Whenever the Director of Transportation's approval is required, it shall be in writing only.

All communications to the County by Contractor shall be via the Director of Transportation, or such individual(s) as may be designated by the Director of Transportation in his discretion.

No work shall be performed on site other than during normal working hours without the knowledge and consent of the Director of Transportation.

When in Director of Transportation's opinion, weather or other conditions are such that attempts to perform a portion of the work will probably result in work not in accordance with the Contract Documents, he shall so advise the Contractor. When Contractor advises the Director of Transportation that he intends to proceed despite such advice, he does so at his peril. The Director of Transportation may then order Contractor, in writing which specifies the portion of the work involved and the conditions warranting the issuance of the order, not to proceed on such portion of the work if: (1) proceeding will, in his judgment, have an adverse effect on Contractor's ability to complete the work within the stipulated time period, or (2) proceeding will, in his judgment, necessitate unusual tests and procedures to ascertain whether said portion of the work is in accordance with the Contract Documents. Contractor shall comply with such orders at its expense.

Nothing herein contained relieves Contractor from the duty to make independent determinations as to weather and other conditions affecting the proper completion of the work.

Failure for any reason of Director of Transportation to advise Contractor as to such matters, or to issue an order as above provided, does not relieve the Contractor from the duty to accomplish the work in accordance with the Contract Documents.

As stated elsewhere, amounts shown in the Bid and Contract as to quantities are merely estimates only. From time to time Director of Transportation shall direct Contractor as to the prosecution of the work in such a manner as to increase or decrease such estimates as to the work actually to be done. Contractor shall comply with such instructions and shall be paid only for work actually done based on the unit price set out in the Contract.

4. Insurance and Hold Harmless

In lieu of the provisions of Standard Specification Section 3-1.07, "Insurance Policies" and Section 7-1.06, "Insurance," the following shall apply:

A. General:

Contractor shall submit to the County a Certificate of Insurance, signed by an authorized representative of the Contractor's insurance provider or agency, which certifies to the County that insurance coverage is provided in accordance with the requirements of this Section.

Certificate Holder information is as follows:

County of Riverside
Transportation Department
Attn: Contracts/Bidding Unit
3525 14th Street
Riverside, CA 92501

Contractor shall not commence work under the Contract until he has obtained the insurance required hereunder and satisfactory proof of said insurance has been submitted to and accepted by the County.

The County may suspend all Contractor project work activities, at the Contractor's expense, for failure to maintain insurance coverage.

B. Workers Compensation:

The Contractor shall maintain statutory Workers' Compensation Insurance (Part 1) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Part 2) including Occupational Disease with limits not less than $1,000,000 per person per accident.

This policy shall be endorsed, and signed, to waive subrogation in favor of the County.

C. Commercial General Liability:

Commercial General Liability insurance coverage includes but not limited to:

1. Premises, operations and mobile equipment liability
2. Products and completed operations liability
3. Broad form property damage, (including completed operations)
4. Explosion, collapse, and underground hazards
5. Personal and advertising injury
6. Unmodified contractual liability

7. Cross liability coverage
8. Covering claims which may arise from or out of Contractor's performance of its obligations hereunder.

Commercial General Liability insurance coverage amounts are not to be less than the following:

- $2,000,000 each occurrence
- $4,000,000 general aggregate
- $2,000,000 products-completed operations aggregate

Higher limits may be required for projects with higher risk exposure, and higher limits, if required, will be included in the Special Provisions.

Where excess liability insurance is used in connection with primary liability insurance, the combination of such coverage sum must allow total limits of liability to be in amounts not less than the specified amounts.

This policy shall name the "County of Riverside, its Agencies, Special Districts and Departments, their respective director, officers, Board of Supervisors, elected and appointed officials, employees, agents, and representatives" as Additional Insureds.

For additional insured endorsement for excess liability insurance, an acceptable alternative to the policies is a letter, signed by an authorized representative of the insurance carrier, confirming in writing that the policy follows form with respect to the primary liability policy.

D. Automobile Liability:

Contractor shall maintain liability insurance for any auto, all owned, non-owned and hired vehicles so used in an amount not less than $1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to the Contract or be no less than two (2) times the occurrence limit.

Policy shall name the "County of Riverside, its Agencies, Special Districts and Departments, their respective director, officers, Board of Supervisors, elected and appointed officials, employees, agents, and representatives" as Additional Insureds.

E. General Insurance Provisions:

1. ***Insurer.*** Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M Best rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County Risk Manager. If the County's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

Non-admitted/Surplus Line insurance carriers (carriers not licensed in the State of California) may be acceptable to the County under certain conditions. Non-admitted insurance carriers providing any form of insurance coverage must be:

a. Domiciled or authorized to do business in the United States and/or listed as an approved insurance carrier on the California Department of Insurance's List of Approved Surplus Line Insurers (LASLI) list,

b. Have an AM Best rating of not less than A: VIII (A:8), and

c. Insurer is authorized to transact in the type of insurance provided.

2. ***Self-insured retention (SIR)***. The Contractor must declare its insurance self-insured retention for each coverage required herein. If any such self-insured retention exceeds $500,000 per occurrence, each such retention shall have the prior written consent of the County Risk Manager before the commencement of operations under the Contract. Upon notification of self-insured retention unacceptable to the County, and at the election of the Country's Risk Manager, Contractor's carriers shall either:

   a. Reduce or eliminate such self-insured retention as respects the Contract with the County, or

   b. Procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

3. ***Certificate, policy, endorsements and attachments***. Contractor shall cause Contractor's insurance carrier(s) to furnish the County with:

   a. A properly executed original Certificate(s) of Insurance and certified original copies of signed endorsements effecting coverage as required herein, and

   b. All endorsements must include a reference to the policy by type of insurance and policy number that it is endorsing, and

   c. If requested to do so 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.

Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to the County prior to any material modification, cancellation, expiration or reduction in coverage of such insurance (For nonpayment of premium cause for cancellation, a written notice of at least ten (10) days is allowed per California Insurance Code §662(a)). In the event of a material modification, cancellation, expiration, or reduction in coverage, the Contract shall terminate forthwith, unless the County 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 coverage's set forth herein and the insurance required herein is in full force and effect.

Contractor shall not commence operations until the County has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested, certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of Insurance.

4. ***Primary insurance.*** It is understood and agreed to by the parties hereto that the Contractor's insurance shall be construed as primary insurance, and the County's insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

5. ***Subcontractor(s).*** Contractor shall pass down the insurance obligations contained herein to all tiers of subcontractors working under the Contract.

6. ***Self-insurance.*** The insurance requirements contained in the Contract may be met with a program(s) of self-insurance acceptable to the County.

7. ***Claim notification.*** Contractor agrees to notify County of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of the Contract.

8. ***Certificate Holder.*** Certificate address information for this project is as follows:

   County of Riverside
   Transportation Department
   Attn: Contracts/Bidding Unit
   3525 14th Street
   Riverside, CA 92501

F. Hold Harmless/Indemnification:

Contractor shall indemnify and hold harmless the County of Riverside, its Agencies, Districts, Special Districts and Departments, their respective directors, officers, Board of Supervisors, elected and appointed officials, employees, agents and representatives (individually and collectively hereinafter referred to as Indemnitees) from any liability whatsoever, based or asserted upon any services of Contractor, its officers, employees, subcontractors, agents or representatives arising out of or in any way relating to the Contract, including but not limited to property damage, bodily injury, or death or any other element of any kind or nature whatsoever arising from the performance of Contactor, its officers, employees, subcontractors, agents or representatives Indemnitors from the Contract. Contractor shall defend, at its sole expense, all costs and fees including, but not

limited, to attorney fees, cost of investigation, defense and settlements or awards, the Indemnitees in any claim or action based upon such alleged acts or omissions.

With respect to any action or claim subject to indemnification herein by Contractor, Contractor shall, at their sole cost, have the right to use counsel of their own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of County; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes Contractor's indemnification to Indemnitees as set forth herein.

Contractor's obligation hereunder shall be satisfied when Contractor has provided to County the appropriate form of dismissal relieving County from any liability for the action or claim involved.

The specified insurance limits required in the Contract shall in no way limit or circumscribe Contractor's obligations to indemnify and hold harmless the Indemnitees herein from third party claims.

In the event there is conflict between this clause and California Civil Code §2782, this clause shall be interpreted to comply with Civil Code 2782. Such interpretation shall not relieve the Contractor from indemnifying the Indemnitees to the fullest extent allowed by law.

5. Beginning of Work, Time of Completion, and Liquidated Damages

Attention is directed to Instruction to Bidders Section 13, "Hours of Work."

Attention is directed to the Special Provision Section "Prosecution and Progress."

Attention is directed to the Special Provision Section "Time of Completion."

Attention is directed to the Special Provision Section "Liquidated Damages."

6. County's Right to Stop Work or Terminate the Contract

(1) Contractor shall be adjudged bankrupt or make an assignment for the benefit of creditors, or (2) a receiver or liquidator is appointed for Contractor or any of his property, or (3) Contractor shall refuse or fail after Notice of Warning from County by Director of Transportation to supply sufficient properly skilled workmen or suitable materials, or (4) Contractor fails to prosecute the work with such diligence as will insure its completion within the stipulated time period, or (5) Contractor shall fail to make payments to persons supplying labor or materials for the work, or (6) Contractor does not comply with applicable law or instructions of Director of Transportation, or (7) Contractor is otherwise guilty of a substantial violation of any provision of the Contract Documents, then County without prejudice to such

other and further right, remedy or relief it may be entitled to, may by ten (10) days notice to Contractor, terminate the employment of Contractor and his right to proceed, either as to the entire work, or at County's option, as to any portion thereof as to which delay shall have occurred or breach or miscompliance relates, and may thereupon take possession of the affected work and complete the work by contract or otherwise, as County deems expedient. In such case, Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance shall exceed the expense of completion, and other damage, expense or loss of County occasioned by Contractor's failure to properly perform, such excess shall be paid by Contractor. If such expense and damage exceeds the unpaid balance, Contractor is liable to County for the excess. If County elects to proceed under this Section, it may take possession of and utilize in completing the work such materials, supplies, plant and equipment on site which may be necessary or convenient for the purpose of completing the work, County is expressly granted the right - acting via Director of Transportation, an Engineer or otherwise - to operate equipment and machinery on site for the purpose of determining whether it has a basis for proceeding under this Section.

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 (Public Contract Code § 7105(a)), provided that the work damaged is built in accordance with applicable building standards and the plans and specifications, then the Owner, upon certification by the Engineer, may, without prejudice to any other right of remedy, terminate the contract.

Decision by County not to proceed under this Section does not constitute a waiver by County of any right it might from time to time have against Contractor under the Contract Documents.

7. General Prevailing Wage:

Attention is directed to General Conditions Section 8, "Labor Code."

Attention is also directed to Section 7-1.02K(2), "Wages" of the Standard Specifications.

Pursuant to §1773 of the Labor Code, the general prevailing wage rates, including the per diem wages applicable to the work, and for holiday and overtime work, including employer payments for health and welfare, pension, vacation, and similar purposes, in the county in which the work is to be done have been determined by the Director of the California Department of Industrial Relations (DIR). These wages are set forth in the General Prevailing Wage Rates for this project and are available from the DIR's web site at: http://www.dir.ca.gov

Pursuant to §1774 of the Labor Code, contractor and subcontractors shall pay not less than the specified prevailing rates of wages to all workmen employed in the Contract.

General prevailing wage determinations are on file at Transportation Department Washington Street Yard's Contraction/Inspection office and are available to any interested party upon written request.

General prevailing wage determinations are also made by the DIR Pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773, and 1773.1 may also be obtained at the following URL:

www.dir.ca.gov/DLSR/PWD/index.htm

The Contractor must post a copy of the determination of the DIR prevailing rate of per diem wages at each job site.

8. Labor Code

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

Contractor and his subcontractors shall comply with the provisions of §1725.5 of the Labor Code regarding registration with the DIR. Registration with the DIR Division of Labor Standards Enforcement can be done online using the following URL:

https://www.dir.ca.gov/Public-Works/Contractor-Registration.html

Contractor and his subcontractors shall comply with the provisions of §1776 of the Labor Code regarding payroll records.

Contractor and his subcontractors shall comply with the provisions of §1777.5 of the Labor Code regarding apprentices.

Contractor shall post at each job site, during the course of the work, notices and a copy of County's "Determination of Prevailing Wage Rates." Copies of said Determination are available at Transportation Department Washington Street Yard's Contraction/Inspection office for this purpose.

9. Labor Nondiscrimination

Contractor's attention is called to the "Nondiscrimination Clause," set forth in Section 7-1.02I(2), "Nondiscrimination," of the Standard Specifications, which is applicable to all nonexempt state contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The Specifications are applicable to all nonexempt state construction contracts and subcontracts of $5,000 or more.

10. Title VI Nondiscrimination

Contractor shall comply with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-42 U.S.C. 2000d-4 (ACT), and all requirements imposed by or pursuant to 49 CFR, Subtitle A, Part 21, "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964" (REGULATIONS), the Federal-aid Highway Act of 1973, and other pertinent directives, to the end that in accordance with the ACT, REGULATIONS, and other pertinent directives, no person in the United States shall, on the grounds of race, color, sex, national origin, religion, age or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under this construction contract.

Construction contact includes the administration, award and performance of any State and/or Federal funded contract or the requirements of 49 CFR Part 26.

Contractor must refer to Caltrans Local Assistance Procedures Manual, Exhibit 4-C, Master Agreement, Administering Agency-State Agreement for Federal-Aid Projects to obtain current Nondiscrimination Assurances requirements to include in all subcontracts signed by the Contractor. This Exhibit 4-C can be obtained from the following website:

http://www.dot.ca.gov/hq/LocalPrograms/lam/forms/lapmforms.htm
(Refer to Exhibit 4-C, Appendix A to Exhibit B, Nondiscrimination Assurances)

Title VI Assurances requirements, as incorporated in Caltrans Exhibit 12-G (January 2019 update).

Attention is also directed to these General Conditions' Section 30, "Documents of Contractor." Contractor shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the County, State or Federal Highway Administration to be pertinent to ascertain compliance with 49 CFR, Subtitle A, Part 21.

In the event of noncompliance with the nondiscrimination provisions, the County shall impose sanctions, as maybe determined deemed appropriate and/or as directed by Federal funding source determination, including but not limited to: withholding of payments within a reasonable period of time, not to exceed 90 days; and/or cancellation, termination or suspension of the Contract, in whole or in part.

For Title VI nondiscrimination complaints related to this project please contact:

Frances Segovia, Title VI Coordinator

County of Riverside
Transportation Department
3525 14th Street
Riverside, CA 92501

Facsimile:	(951) 955-3164
Office:	(951) 955-1646
Electronic mail:	FSegovia@rivco.org

11. Equal Employment Opportunity

A. General

Contractor shall not discriminate in its recruiting, hiring, promotion, demotion or termination practices on the basis of race, religious creed, color, national origin, ancestry, sex, age or physical handicap in the performance of this Contract shall comply with the provisions of the California Fair Employment Practice Act (commencing with SS 1410 of the Labor Code), the Federal Civil Rights Act of 1964 (P.L. 88-352) and all amendments thereto, Executive Order No. 11246 (30 Federal Register 12319), as amended, and all administrative rules and regulations issued pursuant to said Acts and Order. See particularly 41 Code of Federal Regulation (CFR) Chapter 60.

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

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

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

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

B. Transactions of $10,000 or Under

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

C. Transactions in Excess of $10,000, but Less Than $50,000

At Owner's request, Contractor shall certify that it has in effect an affirmative action plan and agrees to comply with all State and Federal laws and regulations regarding Fair Employment Practices. Contractor shall maintain a written copy of its affirmative action plan and furnish Owner a copy of the plan upon request. Owner may require Contractor to complete an Affirmative Action Compliance Report, on a form furnished by Owner, setting forth definite goals during the term of the Contract.

D. Transactions of $50,000 or More

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

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

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

E. Federal Assisted Construction

If this project is a Federally assisted construction project, then the contract provisions contained in 41 CFR SS 60-1.04 (b) are incorporated herein and the Contractor shall likewise incorporate said provisions in each subcontract entered by Contractor to perform the work. Federally assisted construction is identified as such in the Notice To Bidders.

12. Subcontracting

Attention is directed to:

- Standard Specification Section 5-1.13, "Subcontracting," and
- Instructions to Bidders Section 11, "Subletting, Subcontracting, and Subcontractor List."

Contractor responsibility
No subcontract releases the Contractor from the contract or relieves the Contractor of their responsibility for a subcontractor's work.

Violations and remedies
If the Contractor violates Public Contract Code § 4100 et seq., the County may exercise the remedies provided under Public Contract Code § 4110. The County may refer the violation to the Contractors State License Board as provided under Public Contract Code § 4111.

50% Minimum work performance
The Contractor shall perform work equaling at least 50 percent of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators. The Standard Specification Subcontracting Section 5-1.13A, "General" fifth paragraph is deleted.

Subcontractor compliance
Each subcontractor must comply with the contract.

Active license
Each subcontractor must have an active and valid State contractor's license with a classification appropriate for the work to be performed (Business & Professional Code, § 7000 et seq.).

Submittal of subcontracts
Contractor must submit copies of subcontracts upon request by the Engineer.

Submittal of subcontractor request form
Before subcontracted work starts, Contractor must submit a Subcontracting Request form (Caltrans LAPM, Exhibit 16-B).

Debarred contractors
The County will not award a contract to a debarred Contractor. Contractor must not use a debarred subcontractor. Pursuant to the provisions in §1777.1 of the Labor Code, the Labor Commissioner publishes and distributes a current list of contractors ineligible to perform work on a public works project. This list of debarred contractors is available from the DIR web address at:

https://www.dir.ca.gov/dlse/debar.html

Termination of unsatisfactory subcontractors
Upon request by the Engineer, Contractor must immediately remove and not again use a subcontractor who fails to prosecute the work satisfactorily (Public Contract Code § 4107(a)(7)).

Substitutions
Subcontractor substitutions will be processed as required by Public Contract Code § 4107 et seq. A subcontractor not registered with the DIR is an additional condition to the listed qualifications for substitutions (Public Contract Code § 1771.1(d)).

13. Monthly Progress Estimates and Payments

Attention is directed to Section 9-1.16, "Progress Payments" and 9-1.17, "Payment After Contract Acceptance" of the Standard Specifications and these Special Provisions.

For the purpose of timely payment, the "receipt of payment request" date, as described in Public Contract Code § 20104.50 and as referred to herein, shall be considered to be the fifth working day following the 25th day of each month.

Within five (5) working days of the 25th day of each month the County shall:

A. Calculate and prepare the certificate ("progress pay estimate") stating the value of the work completed for the billing month, for the purpose of determining the proper progress payment amount.

B. If a progress pay estimate has been prepared by the County but has been contested by the Contractor as of the "receipt of payment request" date, as defined above, the County shall submit to the Contractor a document setting forth in writing a description of the dispute pertaining to the progress billing, and the County's reason for it's position. Said document shall be submitted to the Contractor as soon as practicable, but not later than seven (7) calendar days after the "receipt of payment request" date.

Any progress pay estimate which is undisputed and remains unpaid for thirty (30) calendar days, after the "receipt of payment request date" shall accrue interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of §685.010 of the California Code of Civil Procedure. The number of days available to the County to make a payment without incurring interest pursuant to this Section shall be reduced by the number of days by which the County exceeds the seven-day submittal requirement set forth in the paragraph above.

Pursuant to Public Contract Code § 20104.50, subsection (e), the progress payment date is the date that funds are encumbered and the payment warrant is issued.

The partial payments made as the work progresses will be payment on account on work performed as of the 25th of the month and shall in no way be considered as an acceptance of

any part of the work or material of the contract, nor shall they in any way govern the final estimate.

No estimate or payment shall be made when, in the judgment of the Director of Transportation, the total value of the work done since the previous estimate amounts to less than $300.

14. Deposit of Securities

In accordance with Public Contract Code § 22300 and other applicable law, the Contractor may substitute securities for any moneys withheld to ensure performance under the contract.

15. Payment Retention

Director of TLMA, once each month, after said work is commenced and until after the completion and acceptance thereof, shall make and deliver to Contractor duplicate certificates stating the value of work then completed according to the contract, estimated according to the standard of the unit contract price, and thereupon Contractor shall be paid an amount sufficient with all previous payments to make the aggregate ninety five percent (95%) of the amount earned as certified. Maximum value of progress payment retention, as set forth by Public Contract Code §7201 and any other referenced text, shall be five (5%).

16. Payment for Extra Work (Force Account Basis)

Extra work to be paid for on a force account basis as directed by the Engineer will be paid for as set forth in Section 9-1.04 "Force Account" of the Standard Specifications. The labor surcharge, equipment rental rates, and the right of way delay factors for each classification of equipment are listed in the Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates." A copy of which is on file at the Office of the Director of Transportation and is hereby incorporated herein in its entirety.

17. Change Orders – Detail Drawings and Instructions

Reference is made to Section 4-1.05, "Changes and Extra Work" of the Standard Specifications regarding change orders.

Each approved change order shall be considered as an amendment to the Contract Documents and will not be considered approved until executed by the Board of Supervisors, except when Director of Transportation can approve certain change orders, without the necessity of approval by the Board, as provided in a Resolution of the Board adopted January 29, 2019, Resolution 2019-035.

The above does not limit the ability of Director of Transportation to issue further detail drawings, explanations, and instructions which are customarily given by an Engineer during the course of similar work. Director of Transportation will furnish Contractor, in reasonable promptness, with further detailed explanations, instructions and drawings as may be necessary for the proper execution of the work, and Contractor shall conform to same provided they are consistent with the intent of the Contract Documents. In giving such additional instructions, explanations and drawings Director of Transportation has authority to make minor changes in the work which do not involve extra cost and are not inconsistent with the Contract Documents.

Contractor's acting on such instructions, explanations and drawings of Director of Transportation means that Contractor agrees that such explanations, instructions and drawings are within the scope of the work in accordance with the intent of the Contract Documents and do not constitute a basis for modification of the Contract Documents as to price or time.

18. Final Payment

Within thirty (30) days after the completion of the work and its acceptance by the Board of Supervisors, Director of Transportation will make a proposed final estimate in writing of the quantities of work done under the contract and the value of such work and will submit such estimate to Contractor. Within thirty (30) days thereafter Contractor shall submit to Director of Transportation his written approval of said proposed final estimate or a written statement of all claims which he has for additional compensation claimed to be due under the contract.

On Contractor's approval or if he files no claims, Director of Transportation will issue a final written estimate as submitted to Contractor and County shall pay the entire sum so found to be due after deducting there from all previous payments and all amounts to be kept and all amounts to be retained under the provisions of the contract.

If Contractor files claim(s), Director of Transportation will issue as a semi-final estimate the proposed estimate submitted to Contractor and the County will within thirty (30) days pay the sum found due thereon after deducting all prior payments and all amounts to be kept and retained under the provisions of the contract. Director of Transportation shall then consider and investigate Contractor's claims and shall make such revisions in the said estimate as he may find to be due, and shall then make and issue his final written estimate. County will pay the amount so found due after deducting all previous payments and amount to be retained under the contract.

All prior or partial estimates and payments shall be subjected to correction in the final estimate and payment.

The final estimate shall be conclusive and binding against both parties to the contract on all questions relating to the performance of the contract and the amount of work done there under and compensation therefore, except in the case of gross error. Acceptance of final payment constitutes a release of County by Contractor of all claims relating to the work except those filed pursuant to section 21 herein prior to final payment.

19. Assignment of Claims

In submitting a bid on this public works project, or any subcontractor agreeing to supply goods, services, or materials, and entering a contract pursuant thereto, the Contractor and/or subcontractor do offer and agree to assign to the Owner 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 §16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgement by the parties.

20. Arbitrations

Section 9-1.22, "Arbitration" of the Standard Specifications is deleted.

21. Claims Resolution

21.1 Definition of a Claim

A Claim means a separate demand by a Contractor for one or more of the following:

a. A time extension, including, without limitation, for relief from damages or penalties for delay assessed by the County under the contract.
b. Payment by the County of money or damages arising from work done by, or on behalf of, the Contractor pursuant to the contract and payment for which is not otherwise expressly provided or to which the Contractor is not otherwise entitled.
c. Payment of an amount that is disputed by the County.

21.2 Form and Contents of Claim(s)

The Contractor shall furnish reasonable documentation to support the Claim, which shall be sent by registered mail or certified mail with return receipt requested to the County at the address provided herein this Section 21. The Contractor's written Claim must include, but not limited to, the following:

(1) a statement to identify that it is a Claim under this Section 21, on a company letterhead, and a request for a decision on the Claim;
(2) A detailed description or narrative of pertinent events, act, error, omission, unforeseen condition, event or other circumstance giving rise to the Claim;
(3) Citation to contract provisions;

(4) Theory of entitlement that provides a detailed justification for any remedy or relief sought by the Claim. This includes, but not limited to: a detailed cost breakdown, invoices, material tickets, staff logged time, summary of quantities, other cost records and total cost calculations;
(5) Complete pricing of all cost impacts;
(6) A time impact analysis of all time delays that shows actual time impact on the critical path; and
(7) Documentation, County letters, notifications, related drawings and photos supporting items (1) through (6).

The Claim must be verified under penalty of perjury by Contractor's project superintendent as to the Claim's accuracy, and shall be priced like a Change Order, and must be updated at regular intervals as to cost and entitlement if a continuing Claim. Routine contract materials, for example, correspondence, RFI, Change Order requests, or payment requests shall not constitute a Claim. Contractor shall bear all costs incurred in the preparation and submission of a Claim.

Claims and support documentation related must be sent to:

County of Riverside, TLMA
Transportation Department
Construction Inspection Office
2850 Washington Street
Riverside, CA 92504

Attention: Cindi Wachi, Construction Engineering Division Manager

21.3 Claims Procedure

21.3.1 Upon receipt of a Claim and the supporting documentation, the County shall conduct a reasonable review of the Claim and within forty-five (45) days, or an extended period as may be set by mutual agreement of the County and Contractor, provide the Contractor with a written statement identifying what portion of the Claim is still disputed and what portion is undisputed.

21.3.2 Notwithstanding the time period set forth in 21.3.1 above, if the County needs approval from the Board of Supervisors to provide the Contractor with a written statement identifying the disputed portion and the undisputed portion of the Claim, and the Board of Supervisors does not meet within the forty-five (45) days or within the mutually agreed to extension of time following receipt of the Claim, the County shall have up to three (3) days following the next duly publicly noticed meeting of the Board of Supervisors after the forty-five (45) day period, or extension, expires to provide Contractor a written statement identifying the disputed portion and the undisputed portion of the Claim.

21.3.3 Any payment due on the undisputed portion of the Claim under this section shall be processed and made within sixty (60) days after the County issues its written statement.

Amounts not paid in a timely manner as required by this Section 21 shall bear interest at 7 percent per annum. If the County fails to issue a written statement, the Claim shall be deemed rejected in its entirety. Failure by the County to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A Claim that is denied by reason of the County's failure to have responded to the Claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the Claim or the responsibility or qualifications of the Contractor.

21.3.4 If the Contractor disputes the County's written response, or if the County fails to respond within the time prescribed, the Contractor may demand in writing, sent by registered mail or certified mail return receipt requested, an informal meet and confer conference for settlement of the portion of the Claim in dispute. Upon receipt of the demand, the County shall schedule a meet and confer conference within thirty (30) days.

21.3.5 Within ten (10) business days following the conclusion of the meet and confer conference, if the Claim or any portion thereof remains in dispute, the County shall provide the Contractor a written statement identifying the portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion shall be processed and made within sixty (60) days after the County issues its written statement.

Any disputed portion of the Claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the County and Contractor sharing the associated costs equally. The County and Contractor shall mutually agree to a mediator within ten (10) business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator.

21.3.6 For purposes of this section, mediation includes any nonbinding process, including but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute with resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section. Unless otherwise agreed to by the County and the Contractor in writing, the mediation conducted pursuant to this Section 21 shall excuse any further obligation under Section 20104.4 of the Public Contract Code to mediate after litigation has been commenced.

21.3.7 If mediation is unsuccessful to resolve all issues, the parts of the Claim remaining in dispute shall be subject to applicable procedures outside of this section and the requirements of Public Contract Code § 9204. The Claim resolution procedures in this Section do not preclude the County from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this Article does not resolve the parties' dispute.

21.3.8 Following the procedures set forth in this Section 21, including the mediation, if the Claim or any portion of it remains in dispute, the Contractor may file a Claim as provided in Chapter 1 (commencing with § 900) and Chapter 2 (commencing with § 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. If the Government Code claim is denied, Contractor may file an action in court. Such action shall be subject to Public Contract Code Sections 9204 or 20104.4. This Section applies only to claims subject to Public Contract Code Sections 9204 or 20104. If a claim is not subject to Public Contract Code Sections 9204 or 20104, the Contractor's right to file a civil action shall be as otherwise provided by law.

21.4 **Subcontractor Claim(s)**

If a subcontractor or a lower tier subcontractor has a Claim, the Contractor may present to the County a Claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the Contractor present a Claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the Claim be presented to the County shall furnish reasonable documentation as set forth in Section 21 to support the Claim. Within forty-five (45) days of receipt of this written request, the Contractor shall notify the subcontractor in writing as to whether the Contractor presented the Claim to the County, and if the Contractor did not present the Claim, provide the subcontractor with a statement of the reasons for not having done so.

22. Brand or Trade Name – Substitute of Equals

Attention is directed to Standard Specifications Section 6-1.05, "Specific Brand or Trade Name and Substitution."

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

If a potential Bidder believes he knows of an equal to a specified brand or trade name which is not mentioned in the Contract Documents, then such potential bidder may so advise Engineer of such fact, giving all relevant information. If appropriate, an addendum will be issued as to the alleged equal provided that such issuance may be accomplished at least 5 business days before the time fixed for opening bids.

Unless the subject article or product is expressly designated for matching others in use in a particular public improvement either completed or in the course of completion, any bidder may, as part of its bid proposal, include a request for substitution of an item equal to any specified by brand or trade name.

Within 30 calendar days after award of the contract, Contractor may submit to Engineer data substantiating such a request, and the difference, if any, in cost. Engineer shall promptly investigate the request and make a recommendation to County as to equality. The governing body of County shall promptly determine whether the substitute is equal in every respect to

the item specified, and approve or deny the request accordingly, and shall notify Engineer of the determination made, who shall advise Contractor in writing of the decision. Unless the request is granted, substitution will not be permitted.

Nothing herein shall authorize a change in the contract price or prevent the use of change orders in the manner provided elsewhere in the Contract Documents.

23. Site Inspection – Effect of Other Improvements Shown and Contractor Procedure

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:

A. 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.

B. All graphic presentations are schematic only unless the contrary is clearly set out elsewhere as to a particular matter.

C. 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 described above, 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.

Whenever, during the course of the work, a subsurface improvement is discovered, which Contractor believes is unknown to County, he shall immediately inform Engineer. 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, notify Engineer as to such circumstance, and await instructions as to how to proceed.

D. 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 County or State forces working on or near the project, or requiring access to the work in the performance of their duties.

24. Public Safety

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.04, "Public Safety" of the Standard Specifications and these Special Provisions.

The Contractor shall install Type K temporary railing between a lane open to public traffic and an excavation, obstacle or storage area when the following conditions exist:

A. Excavations

The near edge of the excavation is 12 feet or less from the edge of the lane, except:

1. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
2. Excavations less than 1 foot deep.
3. Trenches less than 1 foot wide for irrigation pipe or electrical conduit, or excavations less than 1 foot in diameter.
4. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
5. Excavations in side slopes, where the slope is steeper than 1:4 (vertical: horizontal).
6. Excavations protected by existing barrier or railing.

B. Temporarily Unprotected Permanent Obstacles

The work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.

C. Storage Areas

Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these Special Provisions.

The approach end of Type K temporary railing installed in conformance with the provisions in this Special Provision section "Public Safety" and in Section 7-1.04, "Public Safety" of the Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than 1 foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15 feet minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the

approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Type K Temporary railing shall conform to the provisions in Section 12-3.20, "Type K Temporary Railing" of the Standard Specifications. Type K Temporary Railing, conforming to the details shown on 2018 Standard Plan T3A and T3B, may be used. Type K Temporary Railing fabricated prior to January 1, 1993, and conforming to 1988 Standard Plan B11-30 may be used, provided the fabrication date is printed on the required Certificate of Compliance.

Temporary crash cushion modules shall conform to the provisions in "Temporary Crash Cushion Module" of these Special Provisions, if applicable.

Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane unless otherwise provided in the Standard Specifications and these Special Provisions:

Approach Speed of Public Traffic Posted Limit	**Work Areas**
Over 45 Miles Per Hour	Within 6 feet of a traffic lane but not on a traffic lane
35 to 45 Miles Per Hour	Within 3 feet of a traffic lane but not on a traffic lane

The lane closure provisions of this Section shall not apply if the work area is protected by permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Payment

Full compensation for conforming to the provisions in this Section, Public Safety, including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

25. Extra Work

Section 4-1.05, "Changes and Extra Work" of the Standard Specifications is amended by adding the following:

If, in the opinion of the Engineer, such work cannot reasonably be performed concurrently with other items of work, and if a controlling item of work is delayed thereby, an adjustment of contract time of completion will be made.

26. Noise Control

Noise control shall conform to the provisions in Section 14-8.02, "Noise Control" of the Standard Specifications and these Special Provisions.

Section 14-8.02, "Noise Control," second paragraph, is deleted and replaced with the following:

The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 dBA LMax at a distance of 50 feet. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

Said noise level requirement shall apply to all equipment on the job or related to the job, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals must be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

Payment

Full compensation for conforming to the requirements of this Section, Noise Control, shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

27. Use, Care and Protection of Premises

Attention is directed to Section 5-1.36, "Property and Facility Preservation" of the Standard Specifications.

At his expense Contractor shall:

A. Take every precaution against injuries to persons or damage to property.

B. Comply with regulations governing the use of the property.

C. Store and suitably protect his apparatus, equipment, materials and supplies in an orderly fashion on site.

D. Place on the work only such loads as are consistent with the safety of the work.

E. Effect all cutting, fitting, or patching of his work required to make it conform to the plans and specifications and interrelate with other improvements or except with the consent of Engineer, cut or otherwise alter existing improvements.

F. Protect and preserve established bench marks and monuments, make no changes in the location of such without the prior written approval of County, replace and relocate any of them which may be lost or destroyed, or which require shifting because of necessary changes in grades or locations. All replacement and relocation work shall be accomplished only after approval of County and under the direct supervision and instruction of Engineer.

G. 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.

H. Construct, operate 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.

I. Guard County, private, and other Agency's property from injury or loss.

J. Take all reasonable precautions for dust and noise control and generally conduct operations so as not to constitute a nuisance.

K. The Contractor shall be responsible for the protection of existing signs, fences, concrete curb and gutter and other highway facilities which may be encountered in the roadway. The replacement or repair of any facilities which the County deems necessary as a result of the Contractor's operations shall be done by the Contractor at his own expense and to the satisfaction of the County Transportation Department.

Payment

Full compensation for conforming to the requirements of this Section, Use, Care and Protection of Premises, shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

28. Obstructions

Attention is directed to Section 5-1.36C, "Nonhighway Facilities," Section 15, "Existing Facilities" and 51-1.03E(9), "Utility Facilities," of the Standard Specifications and these Special Provisions.

In the event that the utility facilities mentioned within the referenced Standard Specifications and/or Special Provisions are not removed or relocated by the times specified and, if in the opinion of the Engineer, the Contractor's operations are delayed or interfered with by reason of the utility facilities not being removed or relocated by said times, the County will compensate the Contractor for such delays to the extent provided in Section 8-1.07, "Delays" of the Standard Specifications, except as provided in the previous paragraph referenced sections of the Standard Specifications.

29. Removal of Asbestos and Hazardous Substances

When the presence of asbestos or hazardous substances are not shown on the plans or indicated in the specifications and the Contractor encounters materials which the Contractor reasonably believes to be asbestos or a hazardous substance as defined in Section 25914.1 of the Health and Safety Code, and the asbestos or hazardous substance has not been rendered harmless, the Contractor may continue work in unaffected areas reasonably believed to be safe. The Contractor shall immediately cease work in the affected area and report the condition to the Engineer in writing.

In conformance with §25914.1 of the Health and Safety Code, removal of asbestos or hazardous substances including exploratory work to identify and determine the extent of the asbestos or hazardous substance will be performed as Extra Work.

If delay of work in the area delays the current controlling operation, the Contractor will be compensated for the delay in conformance with the provisions in Section 8-1.07, "Delays" of the Standard Specifications.

30. Documents of Contractor

Upon demand, Contractor shall make available to County all documents, information and reports in its possession relevant to the work accomplished or to be accomplished or any demand or claim of Contractor as to County. This includes copies of documents sent by

Contractor or others in its possession. Contractor shall further make available to County conformed copies of all documents submitted to the sureties who executed the Bid Bond, Performance Bond, or Payment Bond for the purpose of obtaining the sureties' signature, including any guarantee or indemnification made to such surety by others for such purpose. Contractor shall maintain in his possession all documents relative to the work for three years after Notice of Completion.

31. Responsibility of Contractor to Act in an Emergency

In case of an emergency which threatens loss or injury to property or life, Contractor shall act without previous instructions as the situation may warrant. Contractor shall notify Engineer immediately thereafter. Any compensation claimed by Contractor, together with substantiating documentation shall be submitted to County via Engineer.

32. Final Inspection – Notice of Completion

When the work is ready for final inspection, County shall cause the work to be inspected and subjected to such tests as seem to it to be required for the purpose of determining if the work is complete in every respect.

At a meeting of the governing body of County held within ten (10) days after final inspection, the governing body shall consider the facts developed at the inspection. If it is found that the work is apparently complete in every respect, County will accept the work and a Notice of Completion will be recorded.

As between the parties, the recordation of the Notice of Completion, unless recorded because of a cessation of labor, means only that the time for final payment and the commencement of the guarantee period commences to run.

33. Dust Abatement

Dust control shall conform to Section 10-5, "Dust Control," Section 14-9.02, "Air Pollution Control," Section 10-6, "Watering," and Section 18, "Dust Palliative" of the Standard Specifications, Rules no. 401, 402, 403 and 403.1 of the South Coast Air Quality Management District (AQMD), Riverside County Code, Chapter 8.52, "Fugitive Dust Reduction Program For Coachella Valley" (if project location is within the Coachella Valley), all other applicable Federal and State laws, and the requirements set forth herein.

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, 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 by the AQMD or

other regulatory agencies. The Contractor's attention is directed to Section 7-1.02, "Laws" and Section 7-1.02A of the Standard Specifications. The cost of all fines levied against the County 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. 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 their 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. Particular concern of emissions is PM10 particles. PM10 particles are fine particulate matter of 10 microns or less 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 Recommendations," attached hereto (See Appendix). 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 8-1.05, "Time" 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 Engineer 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 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 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 the 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 Bid constitutes acknowledgement by the Contractor of the dust control requirements established by law and described herein, and the enforceability of those requirements.

Payment

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 at the lump sum price for Dust Abatement, and no additional compensation will be allowed therefor.

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.

SPECIAL PROVISIONS

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DIVISION 0 COUNTY PROVISIONS

00 COUNTY MISCELLANEOUS

00-1.01 PROJECT DESCRIPTION:

Soboba Street Resurfacing Project
Stetson Avenue to Florida Avenue (SH-74)

Community of East Hemet

Project No. A8-0791

Attention is directed to Section 4 "SCOPE OF WORK" of the Standard Specifications.

In general, this project consists of resurfacing approximately 1.2 miles of existing asphalt concrete (AC) pavement of Soboba Street from Stetson Avenue to Florida Avenue (State Highway 74) in the community of East Hemet adjacent to the City of Hemet.

Mainly, the project will consist of two treatment types. The first treatment will consist of removing the existing asphalt concrete (AC) pavement and underlying material to the depth as shown on the plans and placing back Hot Mix Asphalt (HMA) pavement and Rubberized Hot Mix Asphalt (RHMA) per the structural sections shown on the plans. The second treatment will require cold plane of existing asphalt concrete pavement and overlaying back with RHMA.

Refer to the Soboba Street resurfacing plans for location and limits of each treatment type.

The proposed projects also will include:

- Placement of asphalt concrete dike
- Reconstruction of asphalt concrete driveway approaches, driveways, and dike
- Reconstruction of concrete cross-gutters and spandrels
- Reconstruction of concrete ADA deficient curb ramps
- Placement of safety edge
- Utility adjustments
- Striping of roadway, including pavement markers and reflectors
- Regrading and widening of an existing drainage ditch of approximately 500-feet long located on the west side of Soboba Street just south of Florida Avenue
- Any other work as may be required

00-1.02 NOTICE:

The "Proposal and Contract" book has been re-titled and is now the "Bid" book. These terms shall be considered as equivalent.

The "Contractor's Proposal" has been re-titled and is now the "Bid". These terms shall be considered as equivalent.

The "Notice to Contractors" has been re-titled and is now the "Notice to Bidders". These terms shall be considered as equivalent.

00-1.03 TIME OF COMPLETION:

The Contractor shall diligently prosecute the work to completion before the expiration of **40 working days** from the date stated in the "Notice to Proceed".

00-1.04 LIQUIDATED DAMAGES:

The Contractor shall pay to the County the sum of **$ 5,000.00 per day**, for each and every calendar day's delay in finishing the work in excess of the number of working days prescribed in Time of Completion Special Provision.

Additional Liquidated Damages:

Project Appearance:
In addition to the Liquidated damages set forth above, if the Contractor fails to comply with the requirements of Special Provisions entitled "PROJECT APPEARANCE" the Contractor shall pay to the County of Riverside the sum of **$500.00** per day for each calendar day's delay after the expiration of 48 hours notification from the Engineer.

Water Pollution Control and WPCP:
If the Contractor fails to comply with the requirements of Special Provisions Section 13, "Water Pollution Control", all referenced requirements in this section, and the approved Water Pollution Control Program, the Contractor shall pay to the County of Riverside the sum of **$500.00** per day for each and every working day after the expiration of 72 hours written notification from the Engineer.

00-1.05 PROSECUTION AND PROGRESS:

Attention is directed to the provisions in Section 8-1.04,"Start of Job Site Activities", Section 8-1.05 "Time" of the Standard Specifications and these Special Provisions.

Standard Specification Section 8-1.04B, "Standard Start" is modified to read as follows:

The Contractor shall begin work within fifteen (15) calendar days, or as revised in the Special Provisions, of the date stated within the written "Notice to Proceed".

The Contractor shall notify the Engineer, in writing, of the Contractor's intent to begin work at least 72 hours before work is begun. If the project has more than one (1) location of work, Contractor shall submit a separate notice for each location. The notice shall be delivered to the Transportation Department's Construction Engineer and shall specify the date the Contractor intends to start at said location.

Should the Contractor begin work in advance of receiving a written "Notice to Proceed", any work performed by the Contractor in advance of the date stated in the "Notice to Proceed" shall be considered as having been done by the Contractor at his own risk and as a volunteer and subject to the following:

A. The Contractor shall, on commencing operations, take all precautions required for public safety and shall observe all the provisions in the Specifications and the Special Provisions.

B. All work done according to the Contract, prior to the issuance of the "Notice to Proceed", will be considered authorized work and will be paid for as provided in the contract.

C. The Contractor shall not be entitled to any additional compensation or an extension of time for any delay, hindrance or interference caused by or attributable to commencement of work prior to the issuance of the "Notice to Proceed".

00-1.06 ADDITIONAL INSURANCE REQUIREMENTS, ADDITIONAL INSURED LIST:

In addition to the requirements of General Conditions Section 4, "Insurance and Hold Harmless" of these contract documents, the Contractor's Certificate of Insurance and additional insured 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. County of Riverside, its Agencies, Special Districts and Departments, their respective director, officers, Board of Supervisors, elected and appointed officials, employees, agents, and representatives.

2. State of California, Department of Transportation, their elected or appointed officials, directors, employees and agents.

3. Lake Hemet Municipal Water District, their elected or appointed officials, directors, employees and agents.

4. Southern California Edison, their elected or appointed officials, directors, employees and agents.

5. Frontier, their elected or appointed officials, directors, employees and agents.

Each of the above listed entities shall also be held harmless, in accordance with the requirements of General Conditions Section 4, "Insurance and Hold Harmless" of these contract documents.

Payment
Full compensation for compliance with the requirements of this Section shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

00-1.07 ENCROACHMENT PERMIT:

It shall be the responsibility of the Contractor to obtain Encroachment Permits from the following agencies for the work done within their jurisdiction prior to commencing any work.

- State of California Department of Transportation (Caltrans)

Permit may be required when placing any traffic control devices, and/or for the work done within the State Highway. Permit must be issued by the State prior to commencing any work.

Contractor to submit Temporary Traffic Control plans to Caltrans for review and approval prior to issuance of Encroachment Permit.

It shall be the responsibility of the Contractor to obtain a duplicate State of California Department of Transportation (Caltrans) Encroachment Permit, and pay all fees required for the work done within State Right of Way prior to commencing any work.

All work shall comply with the Caltrans issued permit.

A copy of Caltrans encroachment permit is provided for Contractor's information and compliance attached hereto as Attachment "D".

Payment
If the Contractor pays any fees to Caltrans to obtain Encroachment Permit, then full compensation for the actual cost of the Encroachment Permit fees, as paid by the Contractor to Caltrans, shall be made on a force account basis, in accordance with Section 9-1.04 of the Standard Specifications and these Special Provisions. No markups will be allowed. All incidental costs incurred by the Contractor shall be considered as included in the various items of work and no compensation will be allowed therefor.

00-1.08 PROGRESS PAYMENT RESTRICTIONS:

Attention is directed to Sections 9-1.16, "Progress Payments" and 9-1.17, "Payment After Contract Acceptance" of the Standard Specifications and these Special Provisions.

For the purpose of making progress payments pursuant to Section 9-1.16, "Progress Payments" of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work, which will be recognized for progress payment purposes.

A.	Develop Water Supply	$ 10,000.00
B.	Traffic Control System	$100,000.00
C.	Prepare Water Pollution Control Program	$ 5,000.00
D.	Clearing and Grubbing	$ 50,000.00
E.	Dust Abatement	$ 15,000.00

After acceptance of the contract pursuant to the provisions in Section 5-1.46, "Final Inspection and Contract Acceptance" 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 hereinabove listed for the item, will be included for payment in the final progress estimate.

No progress payment will be made for any materials ordered, furnished, delivered and/or stored that are not incorporated in the construction project.

00-1.09 RECORD DRAWINGS:

The Contractor shall keep one clean set of bond originals to note any as-built 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 project will not be accepted as 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 the conclusion of this project.

Payment
Full compensation for maintaining and compiling the Record Drawings shall be considered as included in the various items of work and no additional compensation will be allowed therefor.

00-1.10 COOPERATION:

Attention is directed to Section 5-1.20 "Coordination with Other Entities" of the Standard Specifications and these Special Provisions.

Attention is directed to Section 5-1.36C "Nonhighway Facilities," of the Standard Specifications.

Should construction be under way by other forces or by other Contractors within or adjacent to the limits of the work specified or should work of any other nature be under way by other forces within or adjacent to those limits, the Contractor shall cooperate with all the other Contractors or other forces to the end that any delay or hindrance to their work will be avoided. The right is reserved to perform other or additional work at or near the site (including material sources) at any time, by the use of other forces.

The Contractor shall communicate on a regular basis with the other Contractors, agencies, and utility companies responsible for the other work near vicinity of these projects.

The Contractor shall cooperate fully with authorized representatives from City of Hemet, Lake Hemet Municipal Water District, Eastern Municipal Water District, Frontier and others in performing facilities adjustment work on and adjacent to County Right of Way.

The Contractor shall notify and coordinate with Riverside Transit Agency (RTA) a minimum of 10 days prior to the start of construction.

When two or more Contractors are employed on related or adjacent work, or obtain materials from the same material source, as provided in Section 5-1.20, "Coordination with Other Entities", each shall conduct their operations in such a manner as not to cause any unnecessary delay or hindrance to the other.

Each Contractor shall be responsible to the other for all damage to work, to persons or property caused to the other by their operations, and for loss caused the other due to unnecessary delays or failure to finish the work within the time specified for completion.

Payment
Full compliance with the requirements of this item including cooperating and coordinating with other Contractors, shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

00-1.11 NOTICE TO PROPERTY OWNERS:

The Contractor shall be responsible to distribute an information letter, in English and Spanish language, 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 logo shall be included on the letter. A computer file of the logo may be obtained from the Engineer. The letter shall be similar to a sample to be 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.

Payment
Full compensation for preparing and distributing Notice to Property Owners shall be considered as included in the Lump Sum price bid paid for Traffic Control System and no additional compensation will be allowed.

00-1.12 JOB SITE POSTERS:

Contractor shall obtain, furnish, post, preserve and maintain notices and posters in areas readily accessible to all personnel. Areas include, but are not limited to, jobsite trailer common area, material staging area, designated area where employees meet to take shift breaks, and /or equipment storage area. The designated location(s) of posters must be approved by the Engineer.

If posters are placed outside, they will need to be weatherproofed.

Copies of the posters may be obtained at the Caltrans Division of Construction Website:

http://www.dot.ca.gov/hq/construc/LaborCompliance/posters.htm

The Contractor shall check the website periodically for poster updates, additions, and changes. Contact information for various government agencies associated with poster information are provided at this website with links.

The following is a list of required posters:

Document number	Poster Name	Note/ Comment
16429-I	Notice of Labor Compliance Program Approval	Required in English and Spanish and for all projects.
DFEH 162	Discrimination and Harassment in Employment are Prohibited by Law	Required in English and Spanish and for all projects.
DSLE 8	Payday Notice	Required for all projects.

Though not posters, but included in the listing above, are the California State prevailing wage rates, which are applicable to this specific contract, and also to be posted at the job site.

Payment
Full compensation for obtaining, furnishing, posting, preserving and maintaining all notices and job site posters shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

00-1.13 OBSTRUCTIONS

Attention is directed to General Condition's item 28, "Obstructions".

Attention is directed to Sections 5-1.36, "Property and Facility Preservation", 15, "Existing Facilities", of the Standard Specifications and these Special Provisions.

Existing utility and privately owned facilities shall be protected in accordance with Section 5-1.36, "Property and Facility Preservation" and these Special Provisions. The Contractor is also responsible to protect those facilities that are to be relocated by others prior to or during construction, and shall protect those facilities in both their existing and their ultimate locations. The Contractor shall cooperate with owners and their Contractors of utility and privately owned facilities, for the relocation of said facilities, in accordance with Section 5-1.20, "Coordination with other Entities" of the Standard Specifications.

All water valves and covers, gas valves and covers, sewer manholes, survey monuments, survey markers and any other utility appurtenances shall be protected in place.

The Contractor's attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workmen and the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipe lines greater than 6 inches in diameter or pipe lines operating at pressures greater than 60 psi (gage); underground electric supply system conductors or cables either directly buried or in duct or conduit which do not have concentric neutral conductors or other effectively grounded metal shields or sheaths; and underground electrical conductors with potential to ground of more than 300 volts. The Contractor shall notify the Engineer at least twenty-four hours prior to performing any work in the vicinity of such facilities.

Attention is directed to the requirements of Government Code Sections 4216-4216.9 pertaining to existing utility facilities.

Any utility facility if damaged by the Contractor's operation shall be repaired or replaced by the Contractor and repair/replacement cost shall be borne entirely by the Contractor.

The Contractor shall assume that every house, building and lot within the project limits has utility service pipes and conductors (laterals), and that utility main and trunk facilities exist within the project limits. The Contractor shall determine if it is warranted to determine the exact location of these utility service laterals and existing main lines, unless directed by the Engineer to pothole at specific locations, or as otherwise required herein. The Contractor will not be directly reimbursed for determining the exact location of the utility main lines or services laterals but shall include any compensation for this work in the contract price

paid for the various items of work. Any damage to existing main lines or service laterals for which potholing was not performed shall be considered damage due to not using reasonable care and the damage shall be repaired at the Contractor's expense.

The Contractor shall conduct his operations with the assumption that underground utility facilities exist within the project limits. The Contractor shall exercise caution and best construction practices for safety and for protection of underground facilities. The approximate locations of underground utility facilities, as shown on the plans, are based on information provided by the respective owners, listed below. The Contractor shall also utilize the markings of the regional notification center (Underground Service Alert), and above-ground utility appurtenances to determine the existence and approximate location of underground utilities.

No excavation shall be made within 4 feet of any underground utilities, as shown on the plans and/or marked by Underground Service Alert, unless and until such utilities have been positively located as to horizontal and vertical position. This requirement applies to all underground electric, natural gas, toxic or flammable gas, chlorine, oxygen, or petroleum facilities.

The Contractor is advised that abandoned or active utility facilities may exist within the project limits, which were not known to the design engineer and which are not shown on the plans. The Contractor shall immediately inform the Engineer if any such utility facilities are encountered within the project limits so that resolution can be initiated if a conflict exists. Any utility facilities that have been encountered, and which have been determined by the Engineer to be abandoned, shall be cut and capped and disposed-of as directed by the Engineer. Removal, capping and disposal of abandoned utility conduits, conductors, pipe and other facilities shall be considered as incidental excavation, and its compensation shall be considered included in the contract unit price paid for Clearing and Grubbing or Excavation, and no additional compensation will be allowed therefor.

In the event that the Contractor encounters abandoned or active Asbestos Cement pipe, or any other utility facility containing or suspected of containing asbestos, the Contractor shall immediately notify the Engineer, and will cease work in the vicinity of the encountered material. The Engineer will endeavor to have any such conflicting facilities removed or relocated by the owner of the facilities. If so ordered by the Engineer, the Contractor or his sub-contractor will remove and dispose of abandoned utility facilities containing or suspected of containing asbestos accordance with the health and safety requirements for handling the material, using properly trained and licensed personnel. Said work shall be considered as extra work.

Forty-eight hours prior to beginning construction, the Contractor shall notify the following agencies:

Underground Service Alert	800-227-2600 or 811
Southern California Edison Company	951-928-8318
Southern California Gas Company	818-701-4546
Lake Hemet Municipal Water District	951-658-3241
Frontier Communications	951-925-5319
City of Hemet	951-765-3710
Eastern Municipal Water District	951-928-6107
Riverside County Flood Control	951-955-1200

Payment

Full compensation for all costs, including labor, equipment, materials and incidentals, required to comply with the requirements of this section above, including protection of water valves and covers, gas valves and covers, sewer manholes, survey monuments, survey markers and any other utility appurtenances, shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

Adjustments to Grade for Obstructions

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.

Communication and coordination with the owning utility company shall be the responsibility of the contractor.

For public safety, traffic shall not be allowed on temporary or permanent pavement until all manholes are either adjusted to grade or otherwise protected, as approved by the Engineer. The Contractor shall adjust to grade 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. This requirement is intended for traffic that is to be allowed on temporary surfaces during the course of construction. 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 71-5.03B, "Frames, Covers, Grates, and Manholes" of the Standard Specifications. Full compensation for adjustment of valve covers shall be considered as included in the contract price paid for asphalt concrete or applicable items of work in the event that there is no asphalt concrete bid item, and no additional compensation will be allowed therefor.

All existing utility facilities shall be protected from damage by the Contractor's operations.

Unless otherwise provided herein, the owning utility companies will not be obligated to lower their surface utilities (manholes and valve covers) for Contractor's grading, grinding and/or paving operations. The contractor shall lower surface facilities, including but not limited to manholes and valve covers, to facilitate construction, and the following shall apply:

1. Contractor shall coordinate all work with the utility owner.

2. Contractor shall be responsible for all costs and shall be responsible for any damage caused to the owner's facilities. If the Contractor observes any pre-existing damage to the utility facilities, the Contractor shall notify the Engineer and the utility owner of that damage prior to performing additional work on the facility.

3. Contractor shall, after removing grade rings and covers, arrange for pickup by, or delivery to, the owner's yard. Any and all concrete collars removed by the Contractor shall become the property of the Contractor, and shall be disposed of as specified elsewhere in these special provisions.

4. The Contractor is advised that he is responsible for ensuring that construction materials do not enter the utility owner's facilities. The Contractor shall install traffic bearing steel plates for this purpose, and provide all coordination and transportation necessary. It is recommended that the Contractor request the utility owner to provide such steel plates. If the Contractor provides steel plates, it shall be the Contractor's responsibility to coordinate with the utility owner for the return of the steel plates to the Contractor after final adjustment to grade. If the Contractor utilizes utility owner's steel plates, and if the Contract items of work include adjustment to final grade, the Contractor shall return the steel plates to the Utility owner's yard, or as otherwise arranged with the Utility owner.

5. Prior to paving or covering the plated utility facility, the Contractor shall tie-out the facility utilizing a method acceptable to the utility owner and provide notes and data of all covered facilities to both the utility owner and the Engineer.

6. The Contractor shall notify the utility owner, upon completion of the Contractor's work, when the utility owner may move in to make the final adjustments to grade.

7. The requirements for lowering of surface facilities shall not apply to vaults. The Contractor shall notify the utility owner of the need to make adjustments to such major facilities.

8. The Contractor is reminded that the utility facilities are owned by public and private utility companies that operate their facilities within public rights of way. The utility owner's preferences with regards to the handling of its facilities shall be complied with to the greatest extent possible.

Payment
Full compensation for initial lowering of surface utilities facilities shall be considered as included in the contract price paid for Hot Mix Asphalt, and no additional compensation will be allowed therefor.

00-1.14 DISPOSAL OF EXCESS EXCAVATION OR MATERIALS:

Attention is directed to Section 17-2.03D, "Disposal of Materials", of the Standard Specifications and these Special Provisions.

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.

When any material is to be disposed of outside the highway right of way, and the County 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 obtain all required permits from the jurisdictional agency(s) for said work, and Contractor shall file with the Engineer said authorization or a certified copy thereof together with a written release from the property owner absolving the County 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.

Payment
Full compensation for all costs involved in disposing of materials as specified in this section, including all costs of hauling, shall be considered as included in the various contract items of work and no additional compensation will be allowed therefor.

00-1.15 GRAFFITI REMOVAL AND CLEANING:

The Contractor shall remove existing graffiti within the project limits and any new graffiti produced during the construction period of the project.

Contractor shall submit a method of graffiti removal plan to the Engineer for approval. Sand blasting will not be allowed. Methods may include but not limited to power washing, solvent washing, and painting over graffiti, as appropriate for the surface to be cleaned.

All graffiti shall be completely removed or obliterated and the area feathered out to hide any imperfections.

Graffiti shall be removed from, but not limited to, the surfaces listed as follows: bricks, cinder blocks, concrete sidewalks, pavement, bridge under passes, overhead structures, drainage channels, roadside signs, temporary construction signs, barricades, k-railing, traffic control devices, all types of poles, and other objects within the project limits as directed by the Engineer. Painting of k-railing for the purposes of graffiti removal shall not be considered as repainting as outlined in paragraph one of Section 12-3.08 and shall not be paid for as extra work.

Graffiti to be removed may include, but shall not be limited to: paint, signs, wood, metal, plastic, decals, gum, markers, crayons, ropes, chains, strings, wires, and tapes of any kind on an as needed basis.

All painting over graffiti must be done with exact color matches, so as not to show any blocking or shadowing of colors. Painting over graffiti is the preferred option on previously painted surfaces, and where solvents are unsuccessful at removing graffiti. Painting services shall be done on an as needed basis on the

following types of surfaces, but not limited to: walls, hardscapes, poles, fences, bollards, railings, and buildings.

Paint types may include oil base, water base and enamels as approved by the Engineer. Graffiti cover-up by paint will be allowed with appropriate type of paint at locations where graffiti cannot be removed only upon direction by the Engineer. All paint applications shall adhere to the manufacture's recommendations. All material and solutions shall be safe and biodegradable and approved by the Engineer.

Regional Water Quality Control Board (RWQCB) and Air Quality Management District (AQMD) regulations, as well as all NPDES required best management practices shall be complied with and followed.

The Contractor shall so conduct his operation as to cause the least possible obstruction and inconvenience to public traffic. The Contractor shall provide, erect and maintain barricades, lights, danger signals, and warning signs as deemed appropriate by the Engineer.

When necessary, the Contractor shall provide and erect safe and adequate scaffolding and equipment, barriers, and masking, required for the proper execution of the work. All scaffolding shall be properly braced and erected to insure the safety of the workmen and meet all appropriate OSHA regulations.

The Contractor shall respond and provide manpower for any urgent graffiti removal and cleaning notifications within two (2) working days.

Urgent graffiti will be classified as any graffiti that causes a safety hazard for motorist and affects the traffic flow as determined by the Resident Engineer.

This work will be monitored/controlled by the construction Resident Engineer. The Contractor must coordinate the work with the Resident Engineer during the construction. Payment is included in the contract price paid for construction site management.

Payment
Full compensation for conformance with these Graffiti Removal and Cleaning requirements, including labor, equipment, materials, necessary traffic control, and incidentals, shall be paid at the lump sum price for Traffic Control System, and no additional compensation will be allowed therefor.

00-1.16 PROJECT APPEARANCE:

Attention is directed to General Condition 27, "Use, Care and Protection of Premises."

The Contractor shall maintain a neat appearance to the worksite. The parkway between the pavement and property line is generally maintained free of trash and debris by the adjacent property owners. The Contractor shall inform all workers to be respectful of the property owners and maintaining the parkways and street adjacent to their homes.

The Contractor must maintain a neat appearance to the work.

In areas visible to the public, the following shall apply:

A. When practicable, broken concrete and debris developed during clearing and grubbing shall be disposed of concurrently with its removal. If stockpiling is necessary, the material shall be removed or disposed of weekly.

B. Trash bins shall be furnished for debris from structure construction. Debris shall be placed in trash bins daily.

C. Forms or falsework that are to be re-used shall be stacked neatly concurrently with their removal. Forms and falsework that are not to be re-used shall be disposed of concurrently with their removal.

Prior to the leaving the project site daily, the Contractor shall collect and dispose of any trash or debris within the project area.

Liquidated Damages:
If the Contractor fails to comply with the requirements of these Special Provisions, the Contractor shall pay to the County of Riverside the sum of **$500.00** per day for each and every calendar day's delay after the expiration of 48 hours notification from the Engineer.

Payment
Full compensation for conforming to the requirements of this section, Project Appearance, shall be considered as included in the various items of work involved and no additional compensation will be allowed therefor.

00-1.17 MOBILIZATION, DEMOBILIZATION AND FINAL CLEANUP:

Mobilization shall consist of preparatory work and operations, including, but not limited to those necessary for the movement of personnel, equipment, supplies and incidentals to the project site and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

De-mobilization shall consist of the completion of all final construction and administrative work required to secure the project for termination and acceptance by the Engineer, including, but not limited to the following:

1. Satisfactory completion of Finishing Roadway in accordance with Section 22, "Finishing Roadway" of the Standard Specifications;

2. Removal of all temporary facilities, construction office, temporary utilities, temporary BMPs, plant, equipment, surplus material, construction debris and similar from project limits and adjacent property, as required and as directed by the Engineer;

3. Restoration of all temporary roads and haul routes and construction storage and office areas, etc. to original or better condition;

4. Completion of record of drawings (as-built), to the satisfaction of the Engineer;

5. Submission of final certified payroll documents to the Engineer;

6. Submission of property owner releases, as required by the Engineer;

7. Completion of the requirements of permits issued by other agencies;

8. Satisfactory completion of all other contractually and legally required construction and administrative items of work.

De-Mobilization shall include the satisfactory completion of all items of work, but shall not be construed as being a separate payment for work that is paid under separate contract items. The De-Mobilization is intended for proper close-out activities.

Payment
Full compensation for all costs involved in Mobilization, Demobilization and Final Cleanup work as specified in this section, including all costs for all labor, material, equipment, and all other items necessary and incidental for completion of this item of work, shall be considered as included in the various contract items of work and no additional compensation will be allowed therefor.

00-1.18 MISCELLANEOUS WORK AS DIRECTED:

Miscellaneous directed work shall consist of necessary work that is not included in other contract bid items, as determined by the Engineer. Miscellaneous directed work shall be performed as directed by the Engineer and in accordance with the applicable standards and specifications.

Payment

Payment for implementing miscellaneous directed work will be paid for on a force account basis, in accordance with Section 9-1.04 of the Standard Specifications, up to the fixed bid price, for the work performed.

00-1.19 REFERENCE SPECIFIC BRANDS OR PRODUCTS

00-1.19A General

If the Special Provisions and construction plans reference specific brands or products, the intent of these references is as a guideline only, and products from alternate manufacturers will be accepted, provided that the product and its performance are a close approximation of the specified product. The Contractor shall submit information and specifications of the proposed alternate product to the Engineer for evaluation and approval prior to placing an order with the vendor.

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DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
066100	DUST ABATEMENT	33 of General Conditions and 10 and 18 of Standard Specs
013902	ASPHALT CONCRETE OVERSIDE DRAIN (CRS 306)	39
013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	39
013904	PLACE ASPHALT CONCRETE DIKE (CRS 212) (8")	39
013905	ASPHALT CONCRETE (DRIVEWAY APPROACH WITH ASPHALT CONCRETE DIKE) (CRS 206)	39
017304	MINOR CONCRETE CURB AND GUTTER (CRS 200)	73
017305	MINOR CONCRETECURB AND GUTTER (CRS 201)	73
017315	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	73
017317	MINOR CONCRETE (CROSS-GUTTER AND SPANDREL) (CRS 209)	73
010602	MISCELLANEOUS WORK (AS DIRECTED)	00-1.18 of Special Provisions

2 BIDDING

Add to Section 2-1.06A:

Amendments to the 2018 Standard Specifications (Revised Standard Specifications) for this project, dated **October 15, 2021**, are incorporated herein. During the advertisement period of this project, this document is available upon request at the office of the Department and will be available to the awarded Contractor.

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4 SCOPE OF WORK

Refer to section 00-1.01 of these Special Provisions.

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5 CONTROL OF WORK

Replace section 5-1.26 Construction Surveys with the following:

5-1.26 Construction Survey

5-1.26A General

County surveyors will establish external primary survey control monuments and/or marks to be used throughout the construction period. These control monuments and marks are to be protected by Contractor

and will be used to set construction stakes and/or marks. The control marks will also be used to make verification surveys at various stages of work.

Survey monuments, stakes and marks are set per the County's Survey Manual.

Contractor must submit a written request for County furnished construction staking before, or immediately after, area to receive staking is ready for the installation of the construction stakes.

5-1.26B Survey Request
The County will provide Contractor with a survey request form. Survey staking requests must be received from Contractor a minimum of two (2) Business Days prior to the installation of the requested construction staking. The County shall receive written survey request on operating Business Day, Monday through Thursday, and prior to 4:00 p.m. Requests received after 4:00 p.m. or on any other day, shall be considered as submitted at 7:30 a.m. the next Business Day.

5-1.26C Preserve Survey Stakes and Marks
Contractor must preserve primary survey control monuments and marks, construction stakes and construction marks placed by the County. Survey costs are incurred by the County; however, if the Contractor fails to protect and/or destroys these survey items, the County shall replace them at the County's earliest convenience and deduct the cost of replacement from payment due to the Contractor.

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6 CONTROL OF MATERIALS

6-2 QUALITY ASSURANCE

Add to section 6-2.01A, General:

The County performs the Quality Assurance (QA) requirements in Section 6-2 of the Standard Specifications or the County Quality Assurance Program (QAP) for verifying the Quality Control (QC) test results and acceptance of the work.

Chapter 6, Sampling and Testing, of the Caltrans Construction Manual describes the QA sampling and testing requirements for materials acceptance. The QA sampling and testing requirements shall be at a rate of one QA test for every five QC tests.

Add to section 6-2.02A, General:

Section 6-2.02, Quality Control, of the Standard Specifications, informs the contractor of the quality control requirements and verify that the contractor maintains a quality control program that includes sampling, testing, and inspection of the materials or process to control quality and ensure the quality characteristics of the material/process are met.

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DIVISION II GENERAL CONSTRUCTION

10 GENERAL

Add to Section 10-1.02 Work Sequencing:

ORDER OF WORK

Full compensation for conforming to the requirements in this section will be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

Liquidated Damages
Attention is directed to "Liquidated Damages" of these Special Provisions regarding specific duration times for completion of work.

Public Awareness
Attention is directed to "Public Convenience" of these Special Provisions regarding the Public Awareness Program and responding to communications with the public. The Contractor shall coordinate with the Engineer on project signage, responding to comments and complaints from the public and other public awareness requests as needed.

School Traffic
Attention is directed to "Public Convenience" of these Special Provisions regarding activities at Imagine Charter School, located at the southwest corner of Florida Avenue and Soboba Street, and other schools in the vicinity. Soboba Street experience high levels of congestion prior to the start of school and in the afternoon when classes let out. There may also be special evening and weekend events at the Schools. Contractor shall coordinate with the Schools Administrators and avoid activity in the traffic lanes and road shoulders during morning and afternoon school peak hours and when special events are planned. Morning and afternoon school peak hours are typically 30 minutes before and after the initial morning bell and 45 minutes before and after the final afternoon bell respectively, or as determined by the resident engineer.

Residential Access
Attention is directed to "Public Convenience" of these Special Provisions regarding access to the residents in the vicinity of the projects. For residents directly adjacent to the construction area, the Contractor shall coordinate with the residents to provide access to the properties.

Business Access
Attention is directed to "Public Convenience" of these Special Provisions regarding access to the businesses in the vicinity of the projects. For businesses directly adjacent to the construction area, the Contractor shall coordinate with the businesses to provide access to the properties.

Emergency Vehicles
Attention is directed to "Public Safety" of these Special Provisions regarding access for emergency vehicles. The Contractor shall provide continual 12 feet drivable access for emergency vehicles through the construction zones at all times.

Portable Changeable Message Signs
Six (6) Portable Changeable Message Signs (PCMS) are to be provided 2 weeks prior to the start of work. The road(s) will have two PCMS setup in advance of any lane restrictions.

Lane Closures
Attention is directed to "Maintaining Traffic" provisions of these Special Provisions regarding lane closure being allowed only during working hours.

Vertical drops – Between drive lanes
Attention is directed to "Maintaining Traffic" provisions of these Special Provisions regarding vertical drops. The contractor shall have no vertical drops between drive lanes, resulting from Cold Plane of Asphalt Concrete Pavement and Roadway Excavation during non-working hours.

Encroachment Permit
Attention is directed to "Encroachment Permit" of these Special Provisions regarding Encroachment Permits. The Contractor shall be responsible to prepare the Traffic Control Plans and submit to County and Caltrans for review and approval for duplicate permits.

Concrete Cross Gutters - Standard
Attention is directed to "Public Convenience" of these Special Provisions regarding construction of County Standard concrete cross gutters. Upon removal of the existing concrete cross gutter and adjacent pavement, steel plates shall be placed that span between the remaining asphalt surfaces. The steel plates shall remain in place until the replacement concrete cross gutter and adjacent pavement have been placed and are accepted for traffic.

Concrete Cross Gutters – Greater than 10' wide
Attention is directed to "Public Convenience" of these Special Provisions regarding construction and reconstruction of concrete cross gutters, greater than 10' wide on or adjacent to Soboba Street. Work shall be phased to maintain two-way traffic at all times. No detours will be allowed.

Obstructions
Attention is directed to "Obstruction" of these Special Provisions regarding the lowering of water valve covers and sewer manholes in Cold Plane and Roadway Excavation areas. The contractor is responsible to ascertain the exact locations of existing facilities, shown or not shown in the plans. The contractor shall be responsible for lowering the water valve covers and sewer manhole covers prior to Cold Plane and Roadway Excavation related work and adjusting water valve covers to final grade.

All other utility manholes adjustments to final grade are the responsibility of the utility owner, with exception to manholes owned by Lake Hemet Municipal Water District. Contractor to provide a cost to adjust to final grade all other utility manholes as an option.

10-6 WATERING

Add to Section 10-6, Watering:

10-6.01 Develop Water Supply
Develop water supply shall conform to the provisions of Section 10-6 of the Standard Specifications and these Special Provisions.

Attention is directed to the requirements of Section 10-5 "Dust Control" of Standard Specifications, and appendix A of these Special Provisions.

10-6.02 Payment:
Full compensation for developing water supply, furnishing watering equipment, and applying water shall be considered as included in the price paid per lump sum for Develop Water Supply, and shall include full compensation for the work performed, including obtaining and submitting Permits, Licenses, Agreements and Certifications required, as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefor.

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12 TEMPORARY TRAFFIC CONTROL

Replace Section 12-2, Reserved, with Construction Project Funding Signs:

12-2.01 CONSTRUCTION PROJECT FUNDING SIGNS

12-2.02 General

The County will provide, install and remove two (2) project funding signs. The Contractor shall be responsible for maintenance of the County furnished and installed construction project funding signs during construction.

Maintenance includes but is not limited to keep the signs erected and visible; damages to signs occurred during construction period shall be the responsibility of the Contractor and must be repaired as directed by the Engineer.

Full compensation for maintenance of Construction Project Funding Signs during construction shall be considered as included in the bid prices paid for various items of work and no additional compensation will be allowed therefor.

Add to the beginning of section 12-3.32C:

PORTABLE CHANGEABLE MESSAGE SIGNS

A minimum of six (6) portable Changeable Message Signs (PCMS) shall be furnished, placed, operated and maintained at those locations shown on the approved Traffic Control Plans or where designated by the Engineer in conformance with the provisions in Section 12, "Temporary Traffic Control" of the Standard Specifications and these Special Provisions.

PCMS Boards will be placed far enough in advance of the project to allow commuters an option for alternative routes prior to arriving to the project limits.

Start displaying the message on the portable changeable message signs 2 weeks prior to start of construction.

Replace section 12-3.32D Payment with:

Full compensation for portable changeable message signs shall include all labor, materials, tools, equipment and incidentals, and for doing all work involved in furnishing, placing, operating, maintaining, repairing, transporting from location to location and removing portable changeable message signs as directed by the Engineer shall be considered as included in the lump sum price paid for Traffic Control System and no additional compensation will be allowed therefor.

12-4 MAINTAINING TRAFFIC

Add to Section 12-4.01 General:

MAINTAINING TRAFFIC:

Maintaining traffic shall conform to the provisions in Section 7-1.03, "Public Convenience", Section 7-1.04, "Public Safety" and Section 12, "Temporary Traffic Control" of the Standard Specifications and "Public Safety" of these Special Provisions.

Daily working hours shall be between the hours of 7:00 a.m. and 6:00 p.m., Monday through Friday, except legal holidays, as approved by the Engineer. Exceptions and specific work schedules shall be submitted to the Engineer for consideration.

Closure is defined as the closure of a traffic lane or lanes, including shoulder, ramp or connector lanes, within a single traffic control system. Lane closure is allowed only during contractor's work hours. On two lane roads one lane must be open to traffic at all times, on multilane roads one lane in each direction must be open at all times. All traveled lanes must be opened to traffic during non-working hours including reconstruction area. Driveways must be accessible during non-working hours.

Your attention is directed to Section 10-1.02, Work Sequencing/ Order of Work, of these special provisions. Contractor will only be allowed lane closures during non-peak school hours when working in the vicinity of the schools.

The contractor shall have no vertical drops between drive lanes, resulting from Cold Plane of Asphalt Concrete Pavement, or Roadway Excavation during non-working hours.

Closure shall conform to the provisions in "Traffic Control System" of these Special Provisions.

Local authorities shall be notified at least five (5) business days before work begins. The Contractor shall cooperate with local authorities to handle traffic through the work area and shall make arrangements to keep the work area clear of parked vehicles.

Personal vehicles of the Contractor's employees shall not be parked on the traveled way or shoulders including sections closed to public traffic.

When work vehicles or equipment are parked on the shoulder within six (6) feet of a traffic lane, the shoulder area shall be closed.

When work vehicles or equipment are parked on the shoulder within six (6) feet of a traffic lane, the shoulder area shall be closed with fluorescent orange traffic cones or portable delineators placed on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. A minimum of 9 traffic cones or portable delineators shall be used for the taper. A W20-1 (ROAD WORK AHEAD) or W21-5b (RIGHT/LEFT SHOULDER CLOSED AHEAD) or C24 (CA) (SHOULDER WORK AHEAD) sign shall be mounted on a crashworthy portable sign support with flags. The sign shall be placed where designated by the Engineer. The sign shall be a minimum of 48" x 48" in size. The Contractor shall immediately restore to the original position and location a traffic cone or delineator that is displaced or overturned, during the progress of work.

If minor deviations from the lane requirement chart are required, a written request shall be submitted to the Engineer at least 15 days before the proposed date of the closure. The Engineer may approve the deviations if there is no significant increase in the cost to the County and if the work can be expedited and better serve the public traffic.

Designated holidays are shown in the following table:

Designated Holidays

Holiday	Date observed
New Year's Day	January 1st
Martin Luther King Jr.'s Birthday	3rd Monday in January
Abraham Lincoln's Birthday	February 12
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Columbus Day	2nd Monday in October
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving	4th Friday in November
Christmas Day	December 25th

Designated County legal holidays are January 1st, the third Monday in January, February 12th, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, the second Monday in October, November 11th, Thanksgiving Day, the Friday following Thanksgiving Day, December 24th and 31st when they fall on Monday, December 25th, December 26th and January 2nd when they fall on Friday. If January 1, February 12, July 4, November 11, or December 25 falls on Saturday the preceding Friday will be the designated county holiday; and if these dates fall on Sunday, then the succeeding Monday will be the designated county holiday.

12-4.01D Payment
Full compensation for furnishing, erecting, maintaining, removing and disposing of the C43 (CA), W20-1, W21-5b and C24 (CA) signs shall be considered as included in the contract lump sum price paid for Traffic Control System and no additional compensation will be allowed therefor.

Add to section 12-4.02A:

Roadway closure of the adjacent traffic lane is not required for installing, maintaining, and removing traffic control devices.

Replace Section 12-5, Reserved, with the following:

12-5.01 Traffic Control System/ Public Convenience/ Public Safety
12-5.02 General
Contractor shall prepare construction staging, and traffic control plans for review and approval by the Transportation Department.

Proposed plans shall be submitted by the Contractor for review and approval by the Transportation Department at least two weeks prior to the start of construction. The construction staging, and traffic control plans shall be prepared, signed and stamped by a Civil Engineer or Traffic Engineer who is registered as such in the State of California, unless otherwise specifically allowed by the Engineer. The Contractor shall revise and implement the plans as directed by the Engineer. Construction shall not begin until the Engineer provides Contractor with County approval of the plans.

12-5.03 Compliance
Construction staging, and traffic control plans shall be in accordance with the appropriate standards and specifications for construction staging, detour roads, traffic control, including the State of California Highway Design Manual, the Manual on Uniform Traffic Control Devices 2014 Edition Revision 6, the corresponding California Supplement, and subsequent modifications as adopted by the State of California Department of Transportation, Standard Plans and Standard Specifications, and the Work Area Traffic Control Handbook (WATCH), as published by Building News, Inc. Any requests for deviation from the established design

standards or specifications are to be submitted to the Engineer for review and approval prior to submission of the required plans.

The Contractor shall notify the County, and update portable changeable message signs, 14 calendar days prior to construction.

With regard to the preparation and implementation of the plans, attention is especially directed to Sections 5-1.36, 7-1.02K(6), 7-1.03, 7-1.04, 7-1.05, 7-1.06, and Section 12 of the State of California Standard Specifications.

Section 12-1.04 "Flagging Costs" of the Standard Specifications is deleted. Flagging costs will be borne entirely by the Contractor.

Maintaining traffic shall conform to the provisions in 5-1.37B "Load Limits", 7-1.02K(6) "Occupational Safety and Health Standards", 7-1.03 "Public Convenience", 7-1.04 "Public Safety", and 12-3.04 "Portable Delineators" of the Standard Specifications, the Manual on Uniform Traffic Control Devices 2014 Edition Revision 6, the corresponding California Supplement, and subsequent modifications as adopted by the State of California Department of Transportation, and these Special Provisions.

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

A minimum of six (6) Portable Changeable Message Signs (PCMS) shall be furnished, placed, operated and maintained and shall be shown on the approved Traffic Control Plans or where designated by the Engineer in conformance with the provisions in Section 12, "Temporary Traffic Control" of the Standard Specifications and these Special Provisions.

Portable Changeable Message Signs will be posted two (2) weeks prior to start of construction to notify residents and motorist for upcoming construction project.

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 traffic control devices shall conform to and be placed in accordance with the Manual on Uniform Traffic Control Devices 2014 Edition Revision 6, the corresponding California Supplement, and subsequent modifications as adopted by the State of California Department of Transportation.

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.

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 signposts. 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.

No extra work will be allowed when the Engineer orders the application of water for the purpose of controlling dust caused by public traffic.

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.

12-5.04 Public Outreach
The Contractor shall be responsible for coordinating any public outreach issues with the Engineer.

The Contractor shall be responsible to coordinate with Engineer for the distribution **in English and Spanish Language,** of an information letter pertaining to the planned work to all affected residences and businesses, at least two weeks prior to commencing work adjacent to those residences and businesses. It shall be the responsibility of the Contractor to coordinate with Engineer to prepare, print sufficient copies, and distribute the letter. The Transportation Department 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 information letter shall be approved by the Engineer prior to distribution.

12-5.05 Payment
Full compensation, except as otherwise provided herein, for conforming to the requirements of this article, including preparation and distribution of information letter, furnishing, installing and maintaining all traffic control devices including graffiti removal, providing portable Changeable Message Signs, and traffic control plans shall be paid for on a lump sum basis for Traffic Control System, and no additional compensation will be allowed therefor.

13 WATER POLLUTION CONTROL

Replace section 13-2 Water Pollution Control Program with:

13-2.01 Water Pollution Control
13-2.01(A) General

WATER POLLUTION CONTROL (SANTA ANA REGION):

Throughout the term of this contract, the total land disturbance area of the project site shall be less than 1 acre.

The Contractor shall comply with the Area-Wide Municipal Stormwater Permit Order number R8-2010-0033 hereafter referred to in this section as the "Municipal Permit", issued by the California Regional Water Quality Control Board (CRWQCB) – Santa Ana Region. This Permit regulate both stormwater and non-stormwater discharges associated with Contractor's construction activities. A copy of the Permits may be obtained at the office of the County of Riverside Transportation Department, 14th Street Transportation Annex, 3525 14th Street, Riverside, California. (951) 955-6780, or may be obtained on the internet at:

http://www.waterboards.ca.gov/santaana/ for Santa Ana Region Municipal Permit

The Contractor shall comply with the requirements of the Municipal Permit, and all other applicable federal, state and local laws, ordinances, statues, rules, and regulations concerning water pollution control.

The WPCP shall include Fact Sheets for all selected project BMPs.

Contractor's Water Pollution Control Program (WPCP) shall be prepared by a Qualified SWPPP Developer in accordance with Section 3, "Preparing a Water Pollution Control Program (WPCP)", of the *Caltrans Stormwater Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual*, which is available as a free download from:

http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm

Contractor's QSD must use the most current Caltran's Water Pollution Control Program (WPCP) template. An electronic template prepared to assist construction contractors in their preparation of a Water Pollution Control Program (WPCP) is available at:

http://www.dot.ca.gov/hq/construc/stormwater/

13-2.01(B) WATER POLLUTION CONTROL MEASURES

A. Work having the potential to cause water pollution shall not commence until the Contractor's WPCP has been reviewed and approved by the Engineer. The Engineer's review and approval of the Contractor's WPCP shall not waive any contractual requirements and shall not relieve the Contractor from achieving and maintaining compliance with all federal, state, and local laws, ordinances, statues, rules, and regulations. A copy of Contractor's WPCP shall be maintained onsite. When the WPCP or access to the construction site is requested by a representative of a federal, state, or local regulatory agency, Contractor shall make the WPCP available and Contractor shall immediately contact the Engineer. Requests from the public for the Contractor's WPCP shall be directed to the Engineer.

B. Contractor's WPCP shall describe the Contractor's plan for managing run-on and runoff during each construction phase. Contractor's WPCP shall describe the Best Management Practices (BMPs) that will be implemented to control erosion, sediment, tracking, construction materials, construction wastes, and non-stormwater flows. BMP details shall be based on Caltrans Construction Site BMP Manual (http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm). Contractor's WPCP shall describe installation, operation, inspection, maintenance, and monitoring activities that will be implemented for compliance with the Municipal Permit and all applicable federal, state, and local laws, ordinances, statutes, rules, and regulations related to the protection of water quality.

C. The Contractor's WPCP preparer shall have been trained to prepare WPCPs or SWPPPs and shall have previous experience with preparing SWPPP or WPCP requirements on a previous project.

The Contractor shall designate a Water Pollution Control Manager that shall have been trained to implement WPCP or SWPPP requirements. Contractor's Water Pollution Control Manager shall:

1. Be responsible for all water pollution control work.
2. Be the Engineer's primary contact for all water pollution control work.
3. Have the authority to mobilize resources (crews, supplies, equipment, etc.) to make immediate repairs of water pollution control measures or to supplement water pollution control measures to maintain compliance with all federal, state, and local laws, ordinances, and regulations related to the protection of water quality, including the Municipal Permit.

The WPCP shall contain all required and applicable certifications and evidence of training for the Water Pollution Control Manager, WPCP Developer, and all other employees working on the project receiving formal training or certification.

D. Water Pollution Control Training: Contractor shall provide water pollution control training to Contractor's employees and subcontractors prior to their performing work on the work site. The water pollution control training shall be appropriate to the employee or subcontractor function and area of responsibility and shall address (as applicable):

1. Erosion Control (water and wind)
2. Sediment Control
3. Tracking Control
4. Materials & Waste Management
5. Non-Stormwater Discharge Management
6. Run-on and Run-off Control

E. Monitoring and Reporting: Observations and inspections conducted by the Contractor's Water Pollution Control Manager shall be documented on the Construction Site Inspection Checklist

included in Contractor's WPCP. A copy of each completed Construction Site Inspection Checklist shall be submitted to the Engineer within 24 hours of conducting the inspection.

13-2.01(C) General Requirements

In the event the County incurs any Administrative Civil Liability (fine) imposed by the CRWQCB – Santa Ana Region, the State Water Resources Control Board, or EPA, as a result of Contractor's failure to fully implement the provisions of "Stormwater and Non-Stormwater Pollution Control", the Engineer, may, in the exercise of his sole judgment and discretion, withhold from payments otherwise due Contractor a sufficient amount to cover the Administrative Civil Liability including County staff time, legal counsel, consultant support costs and all other associated cost.

The Contractor shall be responsible for all costs and for any liability imposed by law as a result of the Contractor's failure to comply with the requirements set forth in "Water Pollution Control", including but not limited to, compliance with the applicable provisions of the Caltrans Handbooks, Municipal Permit, Federal, State, and local regulations. For the purpose of this paragraph, costs and liabilities include, but not limited to, fines, penalties, damages, and costs associated with defending against enforcement actions whether taken against the County or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Act.

13-2.01(D) Submittals

Within fifteen (15) working days after the award of the contract, the Contractor shall submit one pdf. file of the WPCP to the Engineer for review and approval. The Contractor shall allow ten (10) working days for the Engineer to review the WPCP. If revisions are required as determined by the Engineer, the Contractor shall revise and resubmit the WPCP within five (5) working days of receipt of the Engineer's comments and shall allow ten (10) working days for the Engineer to review the revisions. The Contractor shall submit two (2) copies of the approved WPCP and one pdf. file to the Engineer prior to notice to proceed. The Contractor must have an approved WPCP prior to the notice to proceed.

13-2.01(E) WPCP Implementation

Unless otherwise directed by the Engineer or specified in these Special Provisions, the Contractor's responsibility for WPCP implementation shall continue throughout any temporary suspension of work ordered in accordance with Section 8-1.06, "Suspensions", of the Standard Specifications. The Engineer may withhold progress payments or order the suspension of construction operations without an extension of the contract time, if the Contractor fails to comply with the requirements of "Water Pollution Control" as determined by the Engineer.

All BMP repairs shall be implemented by the Contractor within 72 hrs of notification by Engineer.

13-2.01(F) Additional Liquidated Damages:

Water Pollution Control and WPCP

If the Contractor fails to comply with the requirements of Special Provisions Section 13, "Water Pollution Control", all referenced requirements in this section, and the approved Water Pollution Control Program, the Contractor shall pay to the County of Riverside the sum of **$500.00** per day for each and every working day after the expiration of 72 hours written notification from the Engineer.

13-2.01(G) Payment

Payment for Prepare Water Pollution Control Program shall be on a lump sum basis as listed in bid proposal as Prepare Water Pollution Control Program and shall include full compensation for the work performed, including, issuing a check to the State Water Quality Board for erosivity waiver, placement of fiber rolls (if needed), protect drainage inlets and hydroseed disturbed soil areas outside of travelled way, developing, preparing, revising, obtaining approval of, and amending the WPCP, implementing, installing, constructing, operating, maintaining, and removing and disposing of temporary BMPs, performing the observations, inspections, sampling, analysis, reporting, and street sweeping, and as specified in the Caltrans Handbooks, Municipal Permit and these Special Provisions, and as directed by the Engineer

Replace section 13-7.02 Street Sweeping with the following:

13-7.02 Street Sweeping

The following special provision regarding "Street Sweeping" is being added to the contract document.

13-7.02A General

13-7.02A(1) Summary

This work includes street sweeping.

The WPCP shall describe and include the use of street sweeping as a Water Pollution Control practice for sediment control and tracking control. Street sweeping shall also conform to all applicable AQMD requirements.

13-7.02A(3) Submittals

At least 5 working days before starting clearing and grubbing, or other activities with the potential for tracking sediment or debris, submit:

A. The number of street sweepers that will be used as described in the WPCP.
B. Type of sweeper technology (or technologies).

13-7.02A(4) Quality Control and Assurance

Retain the following records related to street sweeping and submit weekly to Engineer:

A. Tracking Inspection Log
B. Sweeping times and locations.
C. Quantity of sweeping waste disposal.

13-7.02C CONSTRUCTION

13-7.02C(1) Street Sweepers

Sweepers must use one of these technologies:

A. Mechanical sweeper followed by a vacuum-assisted sweeper.
B. Vacuum-assisted dry (waterless) sweeper.
C. Regenerative-air sweeper.

13-7.02C(2) Operation

Street sweeping shall be conducted at:

A. Paved roads at job site entrance and exit locations.
B. Paved areas within the job site that flow to storm drains or water bodies.

Street sweeping shall be conducted, and sweeper(s) shall be available on site or within four hours at any given time, for the following:

A. During clearing and grubbing activities.
B. During earthwork activities.
C. During trenching activities.
D. During roadway structural section activities.
E. When vehicles are entering and leaving the job site.
F. After soil disturbing activities.
G. After observing offsite tracking of material.

Contractor's Water Pollution Control Manager shall inspect adjacent paved areas at job site entrances and exits and paved roadways within the job site on a minimum daily basis, and more frequently when activities that require street sweeping are being performed. Contractor's Water Pollution Control Manager shall maintain a "Tracking Inspection Log." Street sweeping shall be conducted:

A. Within 4 hours, if sediment or debris is observed on paved areas or paved roadways.

At least one sweeper, in good working order, must be on the job site at all times when sweeping work may be required.

Perform street sweeping to minimize dust. If dust generation is excessive or sediment pickup is ineffective, water may be used but shall be contained, collected (e.g. vacuum), and properly disposed.

Material collected during street sweeping must be removed and disposed of under Section 7-1.13D, "Disposal of Materials" of the Standard Specifications.

13-7.02D Payment

Full compensation to conform with the requirements of this section shall be considered as included in the contract lump sum price paid for Prepare Water Pollution Control Program including furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in street sweeping, including disposal of collected material, as shown on the plans, as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer. Therefore, no additional compensation will be allowed for street sweeping.

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14 ENVIRONMENTAL STEWARDSHIP

14-2 CULTURAL RESOURCES

Add to Section 14-2.03, Archeological Resources:

ARCHAEOLOGICAL RESOURCES

14-2.03A General

Applies if cultural resources are discovered at the job site. Do not disturb the resources and immediately:

1. Stop all work within a 60-foot radius of the discovery.
2. Protect the discovery area
3. Notify the Engineer.

The Department will investigate. Do not move cultural resources or take them from the job site. Do not resume work within the discovery area until authorized.

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.

In the event that any damage occurs to any cultural resource, the Contractor shall bear the full cost of resource damage evaluation and restoration, and such payment shall not relieve Contractor from civil or criminal remedies otherwise provided by law.

14-6 BIOLOGICAL RESOURCES

14-6.03 SPECIES PROTECTION:

Add to Section 14-6.03B Bird Protection:

14-6.03B Bird Protection
Bird Protection shall conform to Section 14-6.03B "Bird Protection" of Standard Specifications, these Special Provisions and as directed.

Regulatory Requirements
Attention is directed to the Federal Migratory Bird Treaty Act (15 USC 703-711) 50 CFR Part 21 and 50 CFR Part 10, and the California Department of Fish and Game Code Sections 3503, 3513 and 3800, that protect migratory birds, their occupied nests, and their eggs from disturbance or destruction.

Ground disturbance, tree, shrub and/or vegetation removal that occurs between March 1st and September 1st will not commence until a survey for nesting birds occurs no more than 3 days prior to construction and has verified that no active nests have been located or the Engineer has approved the beginning of work.

Ground disturbance, tree, shrub and/or vegetation removal that occurs between March 1st and September 1st will not commence until a preconstruction survey for nesting birds has verified that no active nests have been located or the Engineer has approved the beginning of work. If an active nest is located, construction within 500 feet of the nest must be avoided until the nest has been vacated and the young are independent of their parents.

The nesting survey, if required, will be provided by Riverside County staff.

Between March 1st and September 1st, the Contractor shall notify the Engineer 30 working days prior to beginning work disturbing structures, the ground or vegetation. The Engineer will approve the beginning of work disturbing the ground or vegetation between March 1st and September 1st.

The Contractor shall use exclusion techniques directed by the Engineer to prevent migratory birds from nesting in trees within the project limits.

If evidence of bird nesting is discovered, the Contractor shall not disturb the nesting birds or nests until the birds have naturally left the nests. If evidence of migratory bird nesting is discovered after beginning work, the Contractor shall immediately stop work within 500 feet of the nests and notify the Engineer. Work shall not resume until the Engineer provides a written notification that work may begin at or adjacent areas of the discovered bird nest locations.

Attention is directed to Section 8-1.06, "Suspensions" of the Standard Specifications.

Nothing in this section shall relieve the Contractor from providing for public safety in conformance with the provisions in Section 7-1.04, "Public Safety" of the Standard Specifications.

Payment
Full compensation for compliance with this section shall be considered as included in the contract price paid for the various items of work and no additional compensation will be allowed therefor.

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DIVISION III EARTHWORK AND LANDSCAPE

17 GENERAL

17-2 CLEARING AND GRUBBING

Add to section 17-2.01, General, CLEARING AND GRUBBING:

Clearing and grubbing activities shall include but not be limited to **removal and proper disposal of weeds, grasses, shrubs, roots, trees, tree stumps, trimming tree overhang above roadway, above sidewalk /pedestrian pathways and above signs, trimming bushes, landscape, rock landscaping, removing objectionable material from the ditch channels (including but not limited to buildup sediment, soils, rocks, vegetation, trash, debris), remove buildup sediment and debris that block culverts inlets and outlets to allow water to flow through them freely, and grading areas and dirt shoulder adjacent to the road within the footprint of the project**.

Removed trees, trimmings, vegetation, and debris shall be the property of the Contractor and shall be disposed of by the Contractor, as provided in Section 17-2.03D, "Disposal of Materials" of the Standard Specifications and Section 00-1.14, Disposal of Excess Excavation or Materials, of these Special Provisions.

Any tree or bush removal or trimming between March 1st and September 1st will require a preconstruction survey for nesting birds. The Contractor shall schedule accordingly.

The nesting survey, if required, will be provided by Riverside County staff.

Regulatory Requirements

Attention is directed to the Federal Migratory Bird Treaty Act (15 USC 703-711) 50 CFR Part 21 and 50 CFR Part 10, and the California Department of Fish and Game Code Sections 3503, 3513 and 3800, that protect migratory birds, their occupied nests, and their eggs from disturbance or destruction.

Construction

Ground disturbance, tree, shrub and/or vegetation removal that occurs between March 1st and September 1st will not commence until a preconstruction survey for nesting birds has verified that no active nests have been located or the Engineer has approved the beginning of work. If an active nest is located, construction within 500 feet of the nest must be avoided until the nest has been vacated and the young are independent of their parents.

Between March 1st and September 1st, the Contractor shall notify the Engineer 30 working days prior to beginning work disturbing structures, the ground or vegetation. The Engineer will approve the beginning of work disturbing the ground or vegetation between March 1st and September 1st.

The Contractor shall use exclusion techniques directed by the Engineer to prevent migratory birds from nesting on the ground, on structures or in trees, shrubs or other vegetation within the project limits.

If evidence of bird nesting is discovered, the Contractor shall not disturb the nesting birds or nests until the birds have naturally left the nests. If evidence of migratory bird nesting is discovered after beginning work, the Contractor shall immediately stop work within 500 feet of the nests and notify the Engineer. Work shall not resume until the Engineer provides a written notification that work may begin at or adjacent areas of the discovered bird nest locations.

Attention is directed to Section 8-1.06, "Suspensions" of the Standard Specifications.

Nothing in this section shall relieve the Contractor from providing for public safety in conformance with the provisions in Section 7-1.04, "Public Safety" of the Standard Specifications.

Activities controlled by the Contractor, except cleanup or other required work, shall be confined within the graded areas of the roadway.

Before final inspection of the work, the Contractor shall clean the highway, material sites and all ground occupied by the contractor in connection with work of all rubbish, excess materials, falsework, temporary structures and equipment. All parts of the work site shall be left in a neat and presentable condition.

Nothing herein, however, shall require the Contractor to remove warning, regulatory and guide signs prior to formal acceptance by the director.

Add to the section 17-2.03D "Disposal of Material":

Before final inspection of the work, the Contractor shall clean the roadway, material sites and all ground occupied by the contractor in connection with work of all rubbish, excess materials, falsework, temporary structures and equipment. All parts of the work shall be left in a neat and presentable condition.

Nothing herein, however, shall require the Contractor to remove warning, regulatory and guide signs prior to formal acceptance by the Engineer.

Nothing in this section shall relieve the Contractor from providing for public safety in conformance with the provisions in Section 7-1.04, "Public Safety" of the Standard Specifications.

Replace Section 17-2.04 with:

Payment

Full compensation, except as otherwise provided herein, for conforming to the requirements of this article including all labor, equipment, materials and incidentals, for performing clearing and grubbing including but not limited to **removal and proper disposal of weeds, grasses, shrubs, roots, trees, tree stumps, trimming tree overhang above roadway, above sidewalk /pedestrian pathways and above signs, trimming bushes, landscape, rock landscaping, removing objectionable material from the ditch channels (including but not limited to buildup sediment, soils, rocks, vegetation, trash, debris), remove buildup sediment and debris that block culverts inlets and outlets to allow water to flow through them freely, and grading areas and dirt shoulder adjacent to the road within the footprint of the project** shall be considered as included in the contract price paid per lump sum for Clearing and Grubbing and no additional compensation will be allowed therefor.

19 EARTHWORK

19-2 ROADWAY EXCAVATION

Add to Section 19-2.01 General:

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

Roadway excavation shall include but not limited to:

- Sawcut of existing asphalt as shown on the plans
- Excavation and removal of existing asphalt concrete roadway and underlying material to the depths shown on the plans or required to meet grade as shown on plans
- Moisture condition, grade and compaction of sub-grade, and shoulders to 95%
- Removal of any existing AC dike
- Grading of proposed cut and fill slopes to drain to the nearest drainage facilities

Ground asphalt concrete shall not be used at the surface of shoulders.

No vertical drops are permitted between lanes during non-working hours. See Caltrans Special Provisions 7-1.04 Public Safety.

At road connections and at limits of asphalt paving, existing pavement shall be header cut as directed by the Engineer. Full compensation for furnishing all labor, tools and doing all the work necessary including grinding, and saw-cutting 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 therefor.

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 00-1.14, Disposal of Excess Excavation or Materials, of these Special Provisions.

Pavement and base material removal will be considered as roadway excavation for payment purposes.

Relative Compaction
Relative compaction shall conform to the provisions of Section 19-5.03B, "Relative Compaction (95 Percent)" of the Standard Specifications, these Special Provisions and/or as directed by the Engineer.

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.

Payment
The unit price paid per cubic yard for Roadway Excavation is a final pay item in conformance with section 9-1.02C "Final Pay Item Quantities" of Standard Specifications, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved including hauling, excavation and compaction, saw-cutting as shown on the plans, removal of existing pavement and base, as directed by the Engineer and no additional compensation will be allowed therefor.

Replace Section 19-11, Reserved, with the following:

19-11 DITCH EXCAVATION

19-11.01 GENERAL

Section 19-11 includes specifications for the excavation, widening, and re-grading of the roadside drainage ditch channel located on the west side of Soboba Street approximately between Stations 67+50 and 72+52 near Florida Avenue.

Ditch excavation shall conform to the applicable provisions of Section 19 "Earthwork" of the Standard Specifications and these Special Provisions.

Work consists of removing objectionable material from the ditch channel including but not limited to buildup sediment, soils, rocks, vegetation, trash, debris, and grading channel to provide size and shape in accordance with cross-section shown on the plans.

Before excavating make sure underground utilities are marked.

Do not injure standing trees, plants, and improvements shown to be protected.

Remove buildup sediment and debris that block culverts (located adjacent to ditch) to allow water to flow through them freely.

Excavated material will become the property of the Contractor and shall be disposed of as provided in Section 00-1.14, Disposal of Excess Excavation or Materials, of these Special Provisions.

Haul the excavated material offsite to disposal area as soon as possible. If possible, load them directly into the truck from the excavator. If necessary, excavated material shall be stockpiled in a location approved by the Engineer.

Full compensation for removing buildup sediment and debris from other drainage ditches located within the footprint of the project shall be considered as included in the contract price paid per lump sum for Clearing and Grubbing and no additional compensation will be allowed therefor.

19-11.04 PAYMENT

The unit price paid per cubic yard for Ditch Excavation (and Grading) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved including hauling, excavation, compaction, widening, and re-grading of the roadside drainage ditch channel located on the west side of Soboba Street approximately between Stations 67+50 and 72+52 near Florida Avenue; as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefor.

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DIVISION V SURFACINGS AND PAVEMENTS

39 ASPHALT CONCRETE

Replace section 39-2 HOT MIX ASPHALT with the following:

39-2.01 Hot Mix Asphalt
This work includes producing and placing Type A **Hot Mix Asphalt (HMA) Type A and Type G Rubberized Hot Mix Asphalt (RHMA)**. Comply with the specifications for HMA under Section 39, "Asphalt Concrete" of the Standard Specifications and these Special Provisions. All other requirements of Section 39 shall apply unless otherwise modified or replaced in these Special Provisions.

The type of hot mix asphalt will be shown on the plans or specified in the Special Provisions.

39-2.01(1a) Material

39-2.01(1a.1) Prime Coat
Liquid asphalt for prime coat shall be Grade SC-70. Prime coat shall be applied only to those areas designated by the Engineer. The application rate shall be 0.20 gallon per square yard of surface covered. The exact rate and number of applications will be determined by the Engineer.

39-2.01(1a.2) Tack Coat
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. Grade SS1h shall be used if not otherwise specified. Tack coat shall be applied to all vertical surfaces of existing pavement, curbs, gutters, and construction joints in the surfacing against which additional material is to be placed, to a pavement to be surfaced, and to other surfaces designated in the Special Provisions. The application rate shall be from 0.02 to 0.10 gallon per square yard of surface covered. The exact rate and number of applications will be determined by the Engineer. Application of tack coat shall meet the provisions in Section 39-2.01C(3)(f) of the Standard Specifications.

39-2.01(1a.3) Asphalt Binder
Performance grade (PG) asphalt binder shall conform to the provisions of Section 92, "Asphalt Binders" of the Standard Specifications.

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 the State of California Department of Transportation's METS web site.

The grade for asphalt binder shall be **PG 64-10**.

The grade for asphalt rubber binder in Type G RHMA shall be PG 64-16. The asphalt rubber binder shall meet the requirements in Section 39-2.03A(4)(e)(ii) of the Standard Specifications.

39-2.01(1a.4) Aggregate

Aggregate shall be clean and free from decomposed materials, organic material, and other deleterious substances.

The aggregate gradation for Type A HMA shall be within the target value (TV) limits for the specified sieve sizes shown in the following tables.

Aggregate Gradation
(Percentage Passing)

1-inch Type A HMA

Sieve sizes	TV limits	Allowable tolerance
1"	100	--
3/4"	88–93	TV ± 5
1/2"	72–85	TV ± 6
3/8"	55–70	TV ± 6
No. 4	35–52	TV ± 7
No. 8	22–40	TV ± 5
No. 30	8–24	TV ± 4
No. 50	5–18	TV ± 4
No. 200	3.0–7.0	TV ± 2

3/4-inch Type A HMA

Sieve sizes	TV limits	Allowable tolerance
1"	100	--
3/4"	90–100	TV ± 5
1/2"	70–90	TV ± 6
No. 4	45–55	TV ± 7
No. 8	32–40	TV ± 5
No. 30	12–21	TV ± 4
No. 200	2.0–7.0	TV ± 2

1/2-inch Type A HMA

Sieve sizes	TV limits	Allowable tolerance
3/4"	100	—
1/2"	95–99	TV ± 6
3/8"	75–95	TV ± 6
No. 4	55–66	TV ± 7
No. 8	38–49	TV ± 5
No. 30	15–27	TV ± 4
No. 200	2.0–8.0	TV ± 2

The aggregate gradation for Type G RHMA shall be within the target value (TV) limits for the specified sieve size shown in the following table.

Aggregate Gradation
(Percentage Passing)

1/2-inch Type G RHMA

Sieve sizes	TV limits	Allowable tolerance
3/4"	100	--
1/2"	90–100	TV ± 6
3/8"	83–87	TV ± 6
No. 4	28–42	TV ± 7
No. 8	14–22	TV ± 5
No. 200	0–6.0	TV ± 2

The aggregate shall conform to the following quality requirements prior to the addition of asphalt binder.

Aggregate Quality Requirements

Quality Characteristic	Test Method	HMA Type	
		HMA-A	RHMA-G
Percent of crushed particles [a]	CT 205		
Coarse aggregate (% min.)			
One fractured face		90	--
Two fractured faces		75	90
Fine aggregate (Passing No. 4 sieve and retained on No. 8 sieve.) (% min)			
One fractured face		70	70
Los Angeles Rattler (% Max.) [a]	CT 211		
Loss at 100 rev.		12	12
Loss at 500 rev.		45	40
Sand equivalent [a, b] (min.)	CT 217	47	47
Fine aggregate angularity (% min.) [a, c]	CT 234	45	45
Flat and elongated particles (% max. by weight @ 5:1).) [a]	CT 235	10	10

Note:
[a] Combine aggregate in the JMF proportions.
[b] Reported value must be the average of 3 tests from a single sample.
[c] The Engineer waives this specification if HMA and RHMA contains less than 10 percent of nonmanufactured sand by weight of total aggregate. Manufactured sand is fine aggregate produced by crushing rock or gravel.

39-2.01(1a.5) Reclaimed Asphalt Pavement
The use of reclaimed asphalt pavement (RAP) in Type A HMA production may be substituted in a quantity up to 15 percent of the aggregate blend in the base course (bottom layer) only. RAP will not be allowed in the surface course. **RAP will not be used in Type G RHMA.**

39-2.01(1b) Mix Design
The mix design shall conform to the provisions of this Section. The mix design process shall consist of performing California Test 367 and laboratory procedures in combinations of aggregate gradations and asphalt binder contents to determine the optimum binder content (OBC) and HMA mixture qualities. The results shall become the proposed job mix formula (JMF).

The Contractor shall submit records of aggregate quality and mix design data. Test data shall be within one year from the last test performed.

The Contractor shall submit the mix design using the "*COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT, CONTRACTOR JOB MIX FORMULA PROPOSAL*" form to present the JMF. Formats other than the referenced form will not be accepted.

The final JMF shall be signed and stamped by a Civil Engineer registered in the State of California.

If any adjustment is made to the final JMF, a new mix design will be performed and a new JMF will be submitted.

The mix design shall comply with the following requirements:

Mix Design Requirements

Quality characteristic	Test method	HMA Type	
		HMA-A	RHMA-G
Air void content (%)	CT 367	4.0 5.0 for 1-inch aggregate	--
Voids in mineral aggregate (% min.)	CT 367		
No. 4 grading		17.0	
3/8" grading		15.0	--
1/2" grading		14.0	18.0–23.0[a]
3/4" grading		13.0	18.0–23.0[a]
1" grading			
with NMAS = 1"		13.0	--
with NMAS = 3/4"		14.0	--
Voids filled with asphalt (%)	CT 367		Note c
No. 4 grading		76.0–80.0	
3/8" grading		73.0–76.0	
1/2" grading		65.0–75.0	
3/4" grading		65.0–75.0	
1" grading		60.0–70.0	
Dust proportion	CT 367		Note c
No. 4 and 3/8" gradings		0.9–2.0	
1/2" and 3/4" gradings		0.6–1.3	
1" grading		0.6–1.2	
Stabilometer value (min.) [b]	CT 366		
No. 4 and 3/8" gradings		30	--
1/2" and 3/4" gradings		37	23
1" grading		37 [d] (Modified) 35 [e]	--

[a] Voids in mineral aggregate for RHMA-G must be within this range.
[b] California Test 304, Part 2.13.
[c] Report this value in the JMF submittal.
[d] Comply with California Test 366: 150 tamps at 500 psi tamping pressure and 230 °F compaction temperature; cool specimens to 140 °F; apply 12,600 lb leveling load; and perform stabilometer test at 140 °F.
[e] Modify California Test 366: 150 tamps at 500 psi tamping pressure and 230 °F compaction temperature; cool specimens to 140 °F; apply additional 500 tamps at 500 psi; apply 12,600 lb leveling load; and perform stabilometer test at 140 °F.

39-2.01(1c) Certifications

Laboratories testing aggregate and HMA qualities used to prepare the mix design and JMF shall be qualified under the State of California Department of Transportation's Independent Assurance Program.

Before production of HMA, the HMA plant must have a current qualification under the State of California Department of Transportation's Materials Plant Quality Program.

39-2.01(1d) Construction

Construction of HMA shall be in conformance with the provisions of Section 39-2.01C, "Construction" of the Standard Specifications and these Special Provisions. Construction of RHMA shall be in conformance with the provisions of Section 39-2.03C, "Construction" of the Standard Specifications and these Special Provisions.

39-2.01(1d.1) Lift Thickness

Type A HMA shall comply with the aggregate gradation requirements and shall be spread and compacted in the number of layers of the thicknesses indicated in the following table:

HMA-A Lift Thickness and Aggregate Gradation Requirements

Pavement Thickness Shown on Plans	No. of Layers [a]	Gradation
0.12 ft to less than 0.20 ft	1[b]	1/2 inch
0.20 ft to less than 0.25 ft	1	3/4 inch
0.25 ft or greater	2 or more [c]	3/4 inch or 1 inch

[a] Top layer shall not contain RAP in the HMA mix. Bottom and all other lower layers may contain up to 15 percent RAP in the HMA mix.

[b] When placing in multiple lifts, each layer shall not be less than 0.15 foot.

c One layer of 0.25 foot for the 3/4 inch or one layer of 0.35 foot for the 1 inch may be placed as approved by the Engineer.

Type G RHMA shall comply with the aggregate gradation requirement and shall be spread and compacted in the number of layer of the thickness indicated in the following table:

RHMA-G Lift Thickness and Aggregate Gradation Requirements

Total Thickness Shown on Plans	No. of Layers [a]	Gradation
0.15 ft to less than 0.20 ft	1	1/2 inch

[a] Layer shall not contain RAP in the RHMA mix.

39-2.01(1d.2) Sampling

The Contractor or the Contractor's representative 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.

39-2.01(1d.3) Control of Materials

All proposed materials for use in HMA shall be furnished in conformance with the provisions of Section 6, "Control of Materials" of the Standard Specifications and this Section. All materials to be used in producing the hot mix asphalt shall be supplied from a single source for each material unless approved by the Engineer. Materials to be used in HMA will be subject to inspection and tests by the Engineer. The Contractor shall furnish without charge sample of materials as may be required.

The Contractor shall furnish the Engineer a list of the Contractor's sources of materials and the locations at which those materials will be available for inspection. The Contractor shall assure that the Engineer has free access or entry at all times to the material or production of the material to be inspected, sampled, and tested. It is understood that the inspections and tests made at any point shall, in no way, be considered as a guaranty of acceptance of the material nor continued acceptance of the material presumed to be similar to that upon which inspections and tests have been made, and that inspection and testing performed by the Engineer shall not relieve the Contractor of responsibility for quality control.

All materials which the Engineer has determined defective or do not conform to the requirements of the plans and specifications will be rejected whether in place or not. Under the provisions of this Section, the Engineer will have authority to cause the removal and replacement of rejected material and to deduct the cost thereof from any moneys due or to become due the Contractor.

39-2.01(1d.4) Utility Covers

Except as otherwise provided herein, 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 part 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.

39-2.01(1d.5) Placing HMA

Asphalt paving equipment shall be in conformance with the provisions of Section 39-2.01C(2), "Spreading and Compacting Equipment" of the Standard Specifications. Spreading and Compacting shall be in accordance with this Section and the provisions in Section 39-2.01C, "Construction" of the Standard Specifications. Construction of RHMA shall be in conformance with the provisions of Section 39-2.03C, "Construction" of the Standard Specifications.

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. When directed, the Contractor shall use a ski device with a minimum length of 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 39-2.01C, "Construction" 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.

39-2.01(1d.6) Contractor Quality Control

39-2.01(1d.6a) Quality Control Plan
The contractor shall submit a quality control plan with the proposed HMA type and mix design in accordance with Section 39-2.01A(3)(c), "Quality Control Plan" of the Standard Specifications.

39-2.01(1d.6b) HMA Production

The HMA production shall comply with the provisions of Section 39-2.01B(8) of the Standard Specification and the provisions of these Special Provisions. The RHMA production shall comply with the provisions of Section 39-2.03B(5) of the Standard Specification and the provisions of these Special Provisions.

39-2.01(1d.6c) Quality Control Testing
The Contractor shall perform quality control sampling and testing at the specified frequency for the quality characteristics shown in the following table:

Quality Control Testing Requirements

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	HMA Type	
			HMA-A	RHMA-G
Aggregate gradation[a]	CT 202	1 per 750 tons and any remaining part	JMF ± Tolerance[b]	JMF ± Tolerance[b]
Sand equivalent (min)[c]	CT 217		47	47
Asphalt binder content (%)	CT 379 or CT 382		JMF ± 0.45	JMF ± 0.50
HMA moisture content (%, max)	CT 226 or CT 370	1 per 1,500 tons but not less than 1 per paving day	1.0	1.0
Percent of maximum theoretical density (%)[d, e]	QC plan	2 per day's production (min.)	91–97	91-97
Stabilometer value (min)[c, f] No. 4 and 3/8" gradings 1/2" and 3/4" gradings 1" grading	CT 366	One per 3,000 tons or 2 per 5 business days, whichever is greater	 30 37 37	 23 --
Air void content (%)[c, g]	CT 367		4 ± 2 5 ± 2 for 1-inch aggregate	TV ± 2
Aggregate moisture content at continuous mixing plants and RAP moisture content at continuous mixing plants and batch mixing plants[h]	CT 226 or CT 370	2 per day during production	--	--
Percent of crushed particles coarse aggregate (%, min) One fractured face Two fractured faces Fine aggregate (%, min) (Passing no. 4 sieve and retained on no. 8 sieve.) One fractured face	CT 205	As designated in the QC plan. At least once per project.	 90 75 (90 for 1-inch aggregate) 70 (90 for 1-inch aggregate)	 -- 90 70
Los Angeles Rattler (%, max) Loss at 100 rev. Loss at 500 rev.	CT 211		 12 45 (40 for 1-inch aggregate)	 12 40
Flat and elongated particles (%, max by weight @ 5:1)	CT 235		Report only (10 for 1-inch aggregate)	Report only
Fine aggregate angularity (%, min)	CT 234		45	45
Voids filled with asphalt (%)[i] No. 4 grading 3/8" grading 1/2" grading 3/4" grading 1" grading	CT 367		 76.0–80.0 73.0–76.0 65.0–75.0 65.0–75.0 60.0–70.0	Report only

Voids in mineral aggregate (% min)[i] No. 4 grading 3/8" grading 1/2" grading 3/4" grading 1" grading	CT 367		 17.0 15.0 14.0 13.0 13.0	 18.0-23.0[j] 18.0-23.0[j]
Dust proportion[i] No. 4 and 3/8" gradings 1/2" and 3/4" gradings 1" grading	CT 367		 0.9–2.0 0.6–1.3 0.6–1.3	Report only
Smoothness	Special Provision 39-2.01 (1c.10)	--	12-foot straight-edge, must grind, and PI_0	12-foot straight-edge, must grind, and PI_0
Asphalt rubber binder viscosity @ 350•F, centipoises	Section 39-2.03B(3)	Section 39-2.03A (4)(C)(ii)	--	1,500-4,000
Asphalt modifier	Section 39-2.03B(3)	Section 39-2.03A (4)(C)(ii)	--	Section 39-2.03B(3)
CRM	Section 39-2.03B(3)	Section 39-2.03A (4)(C)(ii)	--	Section 39-2.03B(3)

[a] Determine combined aggregate gradation containing RAP under California Test 367.

[b] The tolerances must comply with the allowable tolerances in section 39-2.02B(4)(b) for HMA and section 39-2.03B(4)(b) for RHMA.

[c] Report the average of 3 tests from a single split sample.

[d] Required for HMA-A and RHMA-G if the specified paved thickness is at least 0.15 foot.

[e] Determine maximum theoretical density (California Test 309) at the frequency specified for Test Maximum Density under California Test 375, Part 5.D.

[f] California Test 304, Part 2.13.

[g] Determine the bulk specific gravity of each lab-compacted briquette under California Test 308, Method A, and theoretical maximum specific gravity under California Test 309.

[h] For adjusting the plant controller at the HMA plant.

[i] Report only if the adjustment for the asphalt binder content TV is less than or equal to ±0.3 percent from OBC value.

[j] Voids in mineral aggregate for RHMA-G must be within this range.

For any single quality characteristic except smoothness, if 2 consecutive quality control test results do not comply with the action limits or specifications:

1. Stop production.
2. Notify the Engineer.
3. Take corrective action.
4. Demonstrate compliance with the specifications before resuming production and placement.

39-2.01(1d.6d) Density Cores

The Contractor shall take 4- or 6-inch diameter density cores from each 500 tons of HMA produced.

The location of the density cores shall be randomly selected by the Engineer and shall be performed in the Engineer's presence. Density holes shall be backfilled and compacted with material approved by the Engineer. Density cores shall be marked with the density core's location and layer number and shall be placed in a protective container. If a density core is damaged, it shall be replaced and re-cored within 1 foot longitudinally from the original density core.

39-2.01(1d.6e) Compaction

Contractor shall determine the in-place density and relative compaction of HMA pavement in accordance with the procedures of California Test 375. The Contractor shall use California Test 308, Method A, in determining in-place density of each density core instead of using the nuclear gauge in Part 4, "Determining In-Place Density by the Nuclear Density Device." The Contractor shall use California Test 309 to determine the maximum theoretical density instead of calculating test maximum density in Part 5, "Determining Test Maximum Density" and shall be at the frequency specified for Test Maximum Density under California Test 375, Part 5D. Relative compaction is required for HMA and RHMA, and shall be reported at various pave thicknesses as listed in the following table:

HMA and RHMA Relative Compaction Requirements

HMA Type	Minimum Pave Thickness (ft)	Relative Compaction (%)
HMA-A, 1-inch	0.15	91-97
HMA-A, (1/2-inch)	0.15	91-97
RHMA-G (1/2-inch)	0.15	91-97

39-2.01(1d.7) Acceptance Criteria

The Engineer shall accept HMA based on compliance with the in place HMA quality requirements shown in the following table:

HMA Acceptance In Place

Quality characteristic				Test method	HMA Type	
					HMA-A	RHMA-G
Aggregate gradation [a]				CT 202	JMF ± tolerance [c]	JMF ± tolerance [c]
Sieve	3/4"	1/2"	3/8"			
1/2"	X [b]					
3/8"		X				
No. 4			X			
No. 8	X	X	X			
No. 200	X	X	X			
Sand equivalent (min) [d]				CT 217	47	47
Asphalt binder content (%)				CT 379 or 382	JMF ± 0.45	JMF ± 0.50
HMA moisture content (%, max)				CT 226 or 370	1.0	1.0
Percent of maximum theoretical density (%) [e, f]				CT 375	91–97	91–97
Stabilometer value (min) [d, g]				CT 366		
No. 4 and 3/8" gradings					30	--
1/2" and 3/4" gradings					37	23
1" grading					37	--
Air void content (%) [d, h]				CT 367	4 ± 2	TV ± 2
Percent of crushed particles				CT 205		
Coarse aggregate (%, min)						
One fractured face					90	--
Two fractured faces					75 (90 for 1-inch aggregate)	90
Fine aggregate (%, min) (Passing no. 4 sieve and retained on no. 8 sieve.)						
One fractured face					70 (90 for 1-inch aggregate)	70
Los Angeles Rattler (%, max)				CT 211		
Loss at 100 rev.					12	12
Loss at 500 rev.					45 (40 for 1-inch aggregate)	40
Fine aggregate angularity (%, min)				CT 234	45	45
Flat and elongated particles (%, max by weight @ 5:1)				CT 235	Report only	Report only
Voids filled with asphalt (%) [i]				CT 367		
No. 4 grading					76.0–80.0	Report only
3/8" grading					73.0–76.0	
1/2" grading					65.0–75.0	
3/4" grading					65.0–75.0	
1" grading					60.0–70.0	
Voids in mineral aggregate (% min) [i]				CT 367		
No. 4 grading					17.0	--
3/8" grading					15.0	--
1/2" grading					14.0	18.0–23.0 [j]
3/4" grading					13.0	18.0–23.0 [j]
1" grading					13.0	
Dust proportion [i]				CT 367		
No. 4 and 3/8" gradings					0.9–2.0	Report only
1/2" and 3/4" gradings					0.6–1.3	
1" grading					0.6–1.3	

Smoothness	Special Provision 39-2.01 (1c.10)	12-foot straight-edge, must grind, and PI_0	12-foot straight-edge, must grind, and PI_0
Asphalt binder	Various	Section 92	Section 92
Asphalt rubber binder	Various	--	Section 92-1.01D(2) and Section 39-2.03B(3)
Asphalt modifier	Various	--	Section 39-2.03B(3)
CRM	Various	--	Section 39-2.03B(3)

[a] The Engineer determines combined aggregate gradations containing RAP under California Test 367.

[b] "X" denotes the sieves the Engineer tests for the specified aggregate gradation.

[c] The tolerances must comply with the allowable tolerances in section 39-2.02B(4)(b) for HMA Type A and section 39-2.03B(4)(b) for RHMA-G.

[d] The Engineer reports the average of 3 tests from a single split sample.

[e] The Engineer determines percent of maximum theoretical density if the specified paved thickness is at least 0.15 foot under California Test 375, except the Engineer uses:

1. California Test 308, Method A, to determine in-place density of each density core instead of using the nuclear gauge in Part 4, "Determining In-Place Density By The Nuclear Density Device."
2. California Test 309 to determine maximum theoretical density instead of calculating test maximum density in Part 5, "Determining Test Maximum Density."

[f] The Engineer determines maximum theoretical density (California Test 309) at the frequency specified for Test Maximum Density under California Test 375, Part 5.D.

[g] California Test 304, Part 2.13.

[h] The Engineer determines the bulk specific gravity of each lab-compacted briquette under California Test 308, Method A, and theoretical maximum specific gravity under California Test 309.

[i] Report only if the adjustment for the asphalt binder content TV is less than or equal to ±0.3 percent from the OBC value submitted on a *Contractor Hot Mix Asphalt Design Data* form.

[j] Voids in mineral aggregate for RHMA-G must be within this range.

No single test result may represent more than 750 tons or 1 day's production, whichever is less.

For any single quality characteristic except smoothness, if 2 consecutive acceptance test results do not comply with the specifications:

1. Stop production.
2. Take corrective action.
3. Take samples and split each sample into 4 parts in the Engineer's presence. Test 1 part for compliance with the specifications and submit 3 parts to the Engineer. The Engineer tests 1 part for compliance with the specifications and reserves and stores 2 parts.
4. Demonstrate compliance with the specifications before resuming production and placement.

39-2.01(1d.8) HMA Acceptance and Payment Factor

The Engineer shall sample for acceptance testing and test for quality characteristics as specified in these Special Provisions. The Engineer shall determine the percent of maximum theoretical density from the average density of 3 density cores taken by the Contractor from every 500 tons of production or part thereof divided by the maximum theoretical density.

If the percent of maximum theoretical density does not comply with specifications, the Engineer shall determine a deduction using the following reduced payment factors:

Reduced Payment Factors for Percent of Maximum Theoretical Density

HMA-A and RHMA-G percent of maximum theoretical density	Reduced payment factor	HMA-A and RHMA-G percent of maximum theoretical density	Reduced payment factor
91.0	0.0000	97.0	0.0000
90.9	0.0125	97.1	0.0125
90.8	0.0250	97.2	0.0250
90.7	0.0375	97.3	0.0375
90.6	0.0500	97.4	0.0500
90.5	0.0625	97.5	0.0625
90.4	0.0750	97.6	0.0750
90.3	0.0875	97.7	0.0875
90.2	0.1000	97.8	0.1000
90.1	0.1125	97.9	0.1125
90.0	0.1250	98.0	0.1250
89.9	0.1375	98.1	0.1375
89.8	0.1500	98.2	0.1500
89.7	0.1625	98.3	0.1625
89.6	0.1750	98.4	0.1750
89.5	0.1875	98.5	0.1875
89.4	0.2000	98.6	0.2000
89.3	0.2125	98.7	0.2125
89.2	0.2250	98.8	0.2250
89.1	0.2375	98.9	0.2375
89.0	0.2500	99.0	0.2500
< 89.0	Remove and replace	> 99.0	Remove and replace

39-2.01(1d.9) Pavement Smoothness

The asphalt pavement smoothness shall conform to the provisions in Section 36-3, "Pavement Smoothness" of the Standard Specifications and these Special Provisions.

Pavement smoothness shall be tested using an inertial profiler except a 12-foot straightedge shall be used for the following conditions:

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 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 39-2.01C(8), "Leveling" of the Standard Specifications
5. Pavement for ramps and connectors with steep grades and high rates of superelevation, as determined by the Engineer
6. Areas within 12.5 feet of manholes
7. Shoulders and miscellaneous areas

Where inertial profiler is required, the profiling operation shall conform to California Test 387 and the smoothness requirements in Section 36-3. Asphalt concrete pavement profiled shall conform to the following surface requirements:

1. Surface shall have no areas of localized roughness with an International Roughness Index (IRI) greater than 160 in/mi.

2. Surface shall comply with the Mean Roughness Index requirements shown in the following table for a 0.1 mile section:

HMA Thickness	Mean Roughness Index Requirement
>0.25 foot	60 in/mi or less
≤0.25 foot	75 in/mi or less

The pavement surfaces for smoothness shall be accepted based on compliance with the smoothness specifications for the type of pavement surface specified.

For areas that require pavement smoothness using a straightedge, the pavement surface shall not vary from the lower edge of the straightedge by more than:

1. 0.01 foot when the straightedge is laid parallel with the centerline
2. 0.02 foot when the straightedge is laid perpendicular to the centerline and extends from edge to edge of a traffic lane
3. 0.02 foot when the straightedge is laid within 24 feet of a pavement conform

For areas that require pavement smoothness using an inertial profiler, the International Roughness Index values for each 0.1-mile section shall be within 10 percent of the International Roughness Index specified value. The inertial profiler equipment and operator shall maintain current calibration and certification and shall be available when requested by the Engineer.

Areas of the asphalt concrete pavement surface that do not meet the specified surface tolerances shall be corrected by grinding. When an inertial profiler is used, a corrective grinding plan shall be submitted prior to performing corrective grinding for areas of localized roughness or areas exceeding the specified thresholds for the Mean Roughness Index. For pavement smoothness measured with a straightedge, a list of the areas requiring smoothness correction shall be submitted prior to performing corrective grinding. Areas which have been subjected to grinding and represent more than 25 percent of the total pavement surface profiled shall receive a slurry seal. Areas subjected to grinding but represent 25 percent or less of the total pavement surface profiled shall receive a fog seal. Ground areas 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.

Ground areas shall be neat rectangular areas of uniform surface appearance and shall receive the respective seal coat prior to acceptance of the work. The limit of the respective seal (length and width) shall be directed by the Engineer.

39-2.01(1e) Payment

The contract bid price paid per ton for Hot Mix Asphalt Type A (HMA-A) shown in bid proposal shall include full compensation for furnishing all labor, tools, materials, equipment, and incidentals, and for doing all the work involved including the sampling and testing of HMA quality characteristics, sampling and testing of density cores, and furnishing and applying asphaltic emulsion (paint binder/tack coat).

The contract bid price paid per ton for Rubberized Hot Mix Asphalt Type G (RHMA-G) shall include full compensation for furnishing all labor, tools, materials, equipment, and incidentals, and for doing all the work involved in placing RHMA-G complete in-place including header cutting as directed by the Engineer,

furnishing and spreading sand cover, sampling and testing of RHMA-G quality characteristics, sampling and testing of density cores, and furnishing and applying asphaltic emulsion (paint binder/tack coat).

At road connections and at limits of asphalt paving, existing pavement shall be header cut as shown on the plans or as directed by the Engineer. Full compensation for furnishing all labor, tools and doing all the work necessary including grinding, and saw-cutting 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 therefor.

Full compensation for furnishing and applying asphaltic emulsion (paint binder/tack coat) shall be considered as included in the contract price paid for Asphalt Concrete.

The quantity of Hot Mix Asphalt for AC Dike, AC Overside Drain, and AC Driveways 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.

The placing of Hot Mix Asphalt AC Dike, AC Overside Drain, and AC Driveways shall be paid for at the separate contract unit shown in the bid proposal in addition to the price paid for the materials other than Hot Mix Asphalt involved.

The adjustment of frames, valve covers, grates, manholes, including initial lowering of valves and manholes when required, shall be considered as included in the contract price paid for hot mix asphalt.

COMPENSATION ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS – see Section 9-1.07 of the Standard Specifications and Section 5, "Additional Bidding Forms", of the Instructions to Bidders.

Notify the County and provide "Opt Out" form along with your bid proposal if you wish to opt out compensation adjustment due to Crude Oil Price Index.

Add to Section 39-2.01C(5) Pavement Edge Treatments:

EDGE TREATMENT (SAFETY EDGE):

General
This work includes constructing the edges of HMA pavement as shown on the plans.

Materials
HMA for safety edge treatment must comply with Section 39, "Asphalt Concrete," of the Standard Specifications and "Hot Mix Asphalt" Section of these Special Provisions.

For the safety edge, use the same type of HMA used for the adjacent lane or shoulder.

Construction
The edge of roadway where the safety edge treatment is to be placed must have a solid base, free of debris such as loose material, grass, weeds, or mud. Grade areas to receive the safety edge as required.

The safety edge treatment must be placed monolithic with the adjacent lane or shoulder and shaped and compacted with a device attached to the paver.

The device must be capable of shaping and compacting HMA to the required cross section as shown on the plans. Compaction must be by constraining the HMA to reduce the cross sectional area by 10 to 15 percent. The device must produce a uniform surface texture without tearing, shoving, or gouging and must not leave marks such as ridges and indentations. The device must be capable of transition to cross roads, driveways, and obstructions.

For safety edge treatment, the angle of the slope must not deviate by more than ± 5 degrees from the angle shown on the plans. Measure the angle from the plane of the adjacent finished pavement surface.

If paving is done in multiple lifts, the safety edge treatment can be placed either with each lift or with the final lift.

Short sections of hand work are allowed to construct transitions for safety edge treatment.

For more information on the safety edge treatment, go to:

http://safety.fhwa.dot.gov/roadway_dept/pavement/safedge/

A list of commercially available devices can be found at the above Web site under "Frequently Asked Questions" and "Construction Questions."

Payment
Full compensation for constructing edge treatments (Safety Edge), including grading when required for preparation of the area to receive the safety edge treatment, shall be considered as included in the contract prices paid per ton for Hot Mix Asphalt (Type A), and Rubberized Hot Mix Asphalt (Gap Graded); and it shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all the work as specified in the Standard Specifications and these Special Provisions and no additional compensation will be allowed.

Add to Section 39-2.01C(9), Miscellaneous Areas and Dikes:

39-2.01C(9) Miscellaneous Areas and Dikes
Asphalt concrete dike and miscellaneous areas shall conform to the applicable provisions in Section 39-2, "Hot Mix Asphalt", and Section 39-2.01B(11) of the Standard Specifications, in accordance to the applicable Standards Plans and details shown in the plans, these Special Provisions, and as directed by the Engineer.

Asphalt concrete dike include AC Dike (CRS 212) (6"), AC Dike (CRS 212) (8"), HMA Dike (Type F Modified) (9"), and HMA Dike (Type F Modified) (12").

Miscellaneous areas shall include but are not limited to the construction and/or reconstruction of AC Driveway, AC Overside Drain (CRS 306), and AC Driveway Approach with Asphalt Concrete Dike (CRS 206) as shown on the plan.

This work includes producing and placing hot mix asphalt (HMA) **Type A.**

Asphalt binder to be mixed with the aggregate for AC Dike shall be PG 70-10.

Asphalt binder to be mixed with the aggregate for Miscellaneous Areas shall be PG 64-10.

The pay quantity of asphalt concrete dike and asphalt concrete miscellaneous area shall be for placement only. The Asphalt Concrete material used for construction of AC Dike, AC Miscellaneous Areas shall be paid separately as part of the Hot Mix Asphalt bid item in tons.

Hot mix asphalt dikes placed, will be measured along the completed length.

39-2.01C(9)A Payment
The contract unit bid price paid per linear foot for Place Asphalt Concrete Dike (CRS 212) (6"), Place Asphalt Concrete Dike (CRS 212) (8"), Place HMA Dike (Type F Modified) (9"), and Place HMA Dike (Type F Modified) (12"); per square foot for Asphalt Concrete Driveway, and Asphalt Concrete (Driveway Approach with Asphalt Concrete Dike) (CRS 206), and per each for Asphalt Concrete Overside Drain (CRS 306) shall include full compensation for furnishing all labor, material (other than Hot mix Asphalt Concrete), tools, and equipment and doing all the work involved in placing and compacting, and removal of existing dike and overside drain. No additional compensation will be allowed therefor.

39-3 EXISTING ASPHALT CONCRETE

Replace section 39-3.04, Cold Planing Asphalt Concrete Pavement, with the following:

39-3.04 COLD PLANING ASPHALT CONCRETE PAVEMENT

39-3.04A General

Section 39-3.04 includes specifications for cold planning asphalt concrete pavement.

Cold planning asphalt concrete pavement includes the removal of pavement markers, traffic stripes, and pavement markings within the area of cold planning.

Schedule cold planing activities such that the pavement is cold planed, the HMA is placed, and the area is opened to traffic during the same work shift.

39-3.04B Materials

HMA for temporary tapers must be of the same quality that is used for the HMA overlay or comply with the specifications for minor HMA in section 39-2.07.

39-3.04C Construction

39-3.04C(1) General

Do not use a heating device to soften the pavement.

The cold planing machine must be:

1. Equipped with a cutter head width that matches the planing width unless a wider cutter head is authorized.
2. Equipped with automatic controls for the longitudinal grade and transverse slope of the cutter head and:
   - 2.1. If a ski device is used, it must be at least 30 feet long, rigid, and a 1-piece unit. The entire length must be used in activating the sensor.
   - 2.2. If referencing from existing pavement, the cold planing machine must be controlled by a self-contained grade reference system. The system must be used at or near the centerline of the roadway. On the adjacent pass with the cold planing machine, a joint-matching shoe may be used.
3. Equipped to effectively control dust generated by the planing operation
4. Operated such that no fumes or smoke is produced.

Replace broken, missing, or worn machine teeth.

If you do not complete placing the HMA surfacing before opening the area to traffic, you must:

1. Construct a temporary HMA taper to the level of the existing pavement.
2. Place HMA during the next work shift.
3. Submit a corrective action plan that shows you will complete cold planing and placement of HMA in the same work shift. Do not restart cold planing activities until the corrective action plan is authorized.

39-3.04C(2) Grade Control and Surface Smoothness

Install and maintain grade and transverse slope references. You may adjust the planed depth up to ± 0.03 foot from the depth shown to achieve uniform pavement profile, cross slope, and surface smoothness. The average cold planed depth must be equal to or greater than the depth shown.

The final cut must result in a neat and uniform surface.

The completed surface of the planed pavement must not vary more than 0.02 foot when measured with a 12-foot straightedge parallel with the centerline. With the straightedge at right angles to the centerline, the transverse slope of the planed surface must not vary more than 0.03 foot.

If you encounter delaminations during planning operations notify the Engineer immediately. If authorized, adjust the planed depth up to ± 0.05 foot to eliminate delaminations. Authorized work beyond the ± 0.05 foot range or other authorized mitigation work is change order work.

Where lanes are open to traffic, the drop-off of between adjacent lanes must not be more than 0.15 foot.

39-3.04C(3) Planed Material
Remove cold planed material concurrently with planing activities such that the removal does not lag more than 50 feet behind the planer.

39-3.04C(4) Temporary HMA Tapers
If a drop-off between the existing pavement and the planed area at transverse joints cannot be avoided before opening to traffic, construct a temporary HMA taper. The HMA temporary taper must be:

1. Placed to the level of the existing pavement and tapered on a slope of 30:1 (horizontal:vertical) or flatter to the level of the planed area
2. Compacted by any method that will produce a smooth riding surface

Completely remove temporary tapers before placing permanent surfacing.

39-3.04D Payment
The contract bid price paid per square yard for Cold Plane Asphalt Concrete Pavement shall include full compensation for furnishing all labor, tools, materials, equipment, and incidentals, and for doing all the work involved, and no additional payment will be made.

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DIVISION VI STRUCTURES

51 CONCRETE STRUCTURES

Replace Section 51-7 Minor Structures with the following:

51-7.01 GENERAL

51-7.01A General

Section 51-7 includes specifications for constructing minor structures.

Minor concrete structures shall conform to the applicable portions of Section 51, 52, 75 and 90 of the Standard Specifications.

Minor Concrete Structures to be constructed are:

- **Headwall (including wingwalls)**

51-7.01B Materials

Concrete must comply with the specifications for minor concrete.

The cementitious material content of concrete must be at least 590 pounds per cubic yard.

All exposed metal shall be galvanized in conformance with Section 75-1.02B, Galvanizing, of the Standard Specifications.

Nonshrink grout must be a dry, packaged type complying with ASTM C1107/C1107M.

Metal frames, covers, grates, and other miscellaneous iron and steel used with minor structures must comply with section 75-2.

51-7.01C Construction

You may construct minor structures using precast units or a combination of precast and cast-in-place structures as an alternative to cast-in-place construction, provided that the structure in place substantially complies with the specified CIP construction.

Remove exterior forms to at least 5 inches below the final ground surface. Exterior forms below this depth may remain if their total thickness is not more than 1 inch.

Cure concrete surfaces of minor structures using the water method, the forms-in-place method, or the curing compound method.

51-7.01D Payment

Construction of Minor Concrete (Minor Structure) [Headwall], shall be measured and paid for at the contract unit price per cubic yard; and shall include full compensation for all labor, materials, tools, and equipment and for doing all work involved in constructing the complete concrete structure (headwall with wingwalls) including the structures structural excavation and backfill, removal of existing structures, furnishing and placing reinforcement steel bars, dowel rods, and metal frames, covers and grates, and no additional compensation will be allowed therefor.

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DIVISION VIII MISCELLANEOUS CONSTRUCTION

71 EXISTING DRAINAGE FACILITIES

71-5 ADJUST DRAINAGE STRUCTURES

Add to Section 71-5.03B Frames, Covers, Grates, and Manholes:

ADJUST MANHOLE AND WATER VALVE TO GRADE

Existing Manhole covers (including but not limited to sewer, storm drain and communications manholes) and water valves shall be adjusted to finish grade and new concrete collars poured with materials similar in quality to those in the original structure in accordance with the applicable provisions of Sections 71-5 of the Standard Specifications, the requirements of the owning utility company and these Special Provisions.

Unless otherwise specified by the owners of the facilities, the Contractor shall provide new manhole covers and frames as necessary for the project. The Contractor shall be responsible to coordinate with the owners to obtain the materials approval.

After the structure frame has been removed, the top of the structure shall be carefully trimmed to provide a suitable foundation for the new material.

Steel plates shall be used as necessary and when directed by the Engineer to prevent asphalt and debris from entering the sewer system.

Additionally, a "False Bottom" shall be fabricated and temporarily placed in the manhole cone as a second barrier to prohibit foreign objects from entering the manhole. Said "false bottom" shall be made from plywood of suitable thickness (3/4" minimum) or stronger material to prohibit heavy objects from breaking the barrier. "False Bottom" shall be fabricated and installed in accordance with the requirements and standards of the owner. The false bottom shall comply with the owning utility company Standard, or as otherwise approved by the Engineer. For Temporary False Bottom / Debris Catch for Manholes example, refer to attached Lake Hemet Municipal Water District Standard No. 11.

After completion of the work, the structure covers, frames, grade rings and old concrete collar debris that were removed from the roadbed shall become the property of the Contractor and shall be disposed of properly.

Nothing in these Special Provisions shall relieve the Contractor from his responsibilities as provided in Section 7-1.04, "Public Safety" of the Standard Specifications.

Coordination and communication shall be maintained between the Contractor and the owning utility company.

The Contractor shall adjust to final grade all manhole covers owned by the Lake Hemet Municipal Water District (LHMWD) and by the Riverside County Flood Control and Water Conservation District (RCFC).

If the alternate bid schedule for the adjustment of sewer manhole covers is approved by the utility owner (Southern California Edison (SCE) and/or Frontier), those facilities will be adjusted to grade as provided herein.

If the alternate bid schedule is not chosen for award, the Contractor shall coordinate with the owner of the facilities and provide access and sufficient time for the utility owner to adjust the facilities. Attention is directed to Section 5-1.36C(3), "Nonhighway Facility Rearrangement" of the Standard Specifications.

Unless included as part of the contract alternative bids, the adjustment to grade of other manhole covers, such as those owned by phone and electric companies, will be performed by the utility owner.

Water and gas valve covers shall be adjusted by the Contractor as provided elsewhere in these Special Provisions.

Method of Payment:
Full compensation to adjust manholes (including but not limited to sewer, storm drain and communications manholes) and water valves shall be considered as included in the bid prices paid for various items of work. However, the manhole belongs to utility companies shall be paid per each for Adjust Manhole to Grade as listed on bid proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, for doing all the work involved including the installation of the concrete ring and no additional compensation will be allowed therefor.

72 SLOPE PROTECTION

72-3 CONCRETED-ROCK SLOPE PROTECTION

Add to Section 72-3 Concreted-Rock Slope Protection:

CONCRETED-ROCK SLOPE PROTECTION:

Concreted rock slope protection shall be placed or constructed in conformance with the provisions in Section 72, "Slope Protection," and 72-3, Concreted-Rock Slope Protection, of the Standard Specifications, the overside drain construction details shown on the plans, these special provisions, and as directed by the Engineer.

Concreted-Rock Slope Protection used in this project shall be:

- 1/4 T, Class V, Method A

Concreted-Rock Slope Protection shall be placed in conformance with Method "A".

Rock slope protection fabric shall be installed prior to the installation of Concreted-RSP.
Rock slope protection fabric shall be nonwoven type fabric, Type 8.

Rock slope protection fabric shall conform to the applicable portions of Section 72, "Slope Protection", and Section 96-1.02I, "Rock Slope Protection Fabric" of the Standard Specifications and these special provisions.

The cementitious material content of concrete must be at least 505 pounds per cubic yard. The water content of the concrete must allow gravity flow into the interstices with limited spading and brooming.

Payment
Full compensation for furnishing and installing all Concreted-Rock Slope Protection Fabric shall be considered as included in the contract price paid per cubic yard, for Concreted-Rock Slope Protection (1/4 T, Class V, Method A) and no additional compensation will be allowed therefor.

The unit price paid per cubic yard for Concreted-Rock Slope Protection (1/4 T, Class V, Method A) shall include full compensations for furnishing all labor, materials (including rock slope protection fabric), tools, equipment and incidentals, and for doing all work involved in constructing the rock slope protection, complete in place, including any excavation and backfill necessary for placing rock slope protection.

73 CONCRETE CURBS AND SIDEWALKS

Add to Section 73-1.01 General:

73-1.01 GENERAL

Minor Concrete Items to be constructed are:

Curb Ramp (CRS 403 – Case A), Cross-Gutter and Spandrels, and Curb and Gutter (CRS 200 and CRS 201)

These minor concrete structures shall be constructed in accordance with the County Road Improvement Standards and Specifications or as directed by the Engineer and in conformance with Section 51, 73 and 90 of Standard Specifications, except as modified.

The cementitious material content of concrete must be at least 505 pounds per cubic yard for:

Curb Ramps (CRS 403 – Case A), and Curb and Gutter (CRS 200 and CRS 201)

The cementitious material content of concrete must be at least 590 pounds per cubic yard for:

Cross-Gutter and Spandrels (CRS 209), and
Cross-Gutter and Spandrel (CRS 209) Modified to and use dowels at contact joints on spandrel per SPPWC Std No. 122-2

Add to Section 73-1.02B Detectable Warning Surfaces:

73-1.02B Detectable Warning Surfaces (Truncated Domes)
This work includes installing detectable warning surfaces on the curb ramps or on the areas as shown and specified on the plans, in conformance with section 73-1.02B, Section 73-3, and Section 73-3.01D(2) of Standard Specifications, Standard Plans, these Special Provisions, and as directed by the Engineer.

Installation of Detectable Warning Surfaces on existing Curb Ramps or on the areas as shown on the plans, shall conform to the provisions in Section 73-10, Existing Curbs and Sidewalk.

The curb ramp detectable warning surface will be a rigid polymer composite/fiberglass panel set into wet concrete for new ramp construction and will be composite/fiberglass panels applied with adhesive and mechanical fasteners for existing ramps that are otherwise ADA- compliant.

The color of the detectable warning surfaces will be yellow complying with Federal Standard 595B, Color No. 33538.

The manufacturer must provide a written 5-year warranty for detectable warning surface, guaranteeing replacement when there is defect in the dome shape, color fastness, sound-on-cane acoustic quality, resilience, or attachment. The warranty period will begin upon acceptance of the contract.

Installation of curb ramp detectable warning surface must comply with the manufacturer's recommendations.

Payment:
Full compensation for Curb Ramp Detectable Warning Surfaces (Truncated Dome Panels) shall be considered as included in the contract unit prices paid for Minor Concrete (Curb Ramp) (CRS 403-Case A) bid items, and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all work involved in constructing detectable warning surface, complete in place, as shown and specified on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no separate payment will be made therefor.

73-1.03 CONSTRUCTION

Add to Section 73-1.03 Construction:

Preparation of subgrade for the concrete structures shall be done in conformance with the requirements of Section 73-1.03B Subgrade Preparation of the Standard Specifications.

Excess material resulting from the excavation of the subgrade shall be disposed of as provided in Section 00-1.14, 'Disposal of Excess Excavation or Materials', of these Special Provisions.

Full compensation for the removal of existing minor concrete items (Curb Ramp (CRS 403 – Case A), Cross-Gutter and Spandrels, and Curb and Gutter (CRS 200 and CRS 201) shall be considered as included in the contract bid prices for such minor concrete structures.

The Contractor is responsible for meeting requirements of American with Disabilities Act (ADA), the current edition of the California Building Code, and the draft and final versions of the Accessibility Guidelines for Pedestrian Facilities within the Public Right of Way as published by the United States Access Board.

Construction of minor concrete items shall include, but not be limited to, the following:

1) Removal and disposal of existing Curb Ramp (CRS 403 – Case A), Cross-Gutter and Spandrels, and Curb and Gutter (CRS 200 and CRS 201) and existing soil and aggregate 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 minor concrete items;
5) All scoring/grooving and required saw cutting;
6) Repair of existing asphalt and PCC surfacing;
7) Installing 1/2" wide expansion joints;
8) All landscaping, and related work, to return the area adjacent to the Curb Ramp (CRS 403 – Case A), Cross-Gutter and Spandrels, and Curb and Gutter (CRS 200 and CRS 201) to its original condition and to conform the area to the new improvements;

Replace Section 73-1.04 Payment:

Payment:
The contract unit bid prices paid per each for Minor Concrete (Curb Ramp) (CRS 403 – Case A); per square foot for Minor Concrete (Cross-Gutter and Spandrel); and per linear foot for Minor Concrete (Curb and Gutter (CRS 201) shall include full compensation for furnishing all labor, equipment, materials and tools, and incidentals, and for doing all the work involved in the concrete structures construction including the grading and the removal of any obstacles within the areas of proposed concrete items of work, excavation, backfill, the reconstruction of Curb and Gutter and Sidewalk adjacent to reconstructed Curb Ramps for the purpose of tying-in to existing Curb and Gutter and Sidewalk, the furnishing and placing of expansion joints, furnishing and placing dowels at contact joints on spandrels, reinforcement steel bars, complete in place as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer and no additional compensation will be allowed therefor.

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DIVISION IX TRAFFIC CONTROL DEVICES

81 MISCELLANEOUS TRAFFIC CONTROL DEVICES

81-2 DELINEATORS

Add to Section 81-2, General:

Delineators shall be installed at the locations shown on the plans, and shall conform to the provisions in Section 81-2, "Delineators," of the Standard Specifications, these special provisions, and details shown on standard plan No. A73C.

Delineator (Class 1) shall be in conformance with the provisions of Section 81-2.02D, "Flexible Posts" of the Standard Specifications.

Flexible posts shall be made from a flexible white plastic which shall be resistant to impact, ultraviolet light, ozone, and hydrocarbons. Flexible posts shall resist stiffening with age and shall be free of burns, discoloration, contamination, and other objectionable marks or defects which affect appearance or serviceability.

Delineator (Class 2) shall be in conformance with the provisions of 81-2.02C, "Metal Posts" of the Standard Specifications.

Refer to standard pan No. A73B for Metal Post Details. The steel for a metal post must comply with ASTM A36/A36M. Metal posts must be galvanized in accordance with Section 75, "Miscellaneous Metals", and Section 75-1.02B, "Galvanizing".

Retroreflective sheeting for metal and flexible target plates shall be the retroreflective sheeting designated for channelizers, markers, and delineators conforming to the requirements in ASTM Designation: D 4956-95.

A delineator post equipped with 2 target plates will be considered a single delineator.

Replace Section 81-2.04 Payment:

81-2.04 Payment
Delineator shall be measured and paid for as Delineator (Class 1) and Delineator (Class 2) per each and shall include full compensation for all labor, materials, tools, and equipment, incidentals, and for doing all work involved in furnishing and installing delineators, complete in place, as shown on the plans, as specified in the standard specifications and these special provisions and as directed by the Engineer, and no additional compensation will be allowed therefor.

81-3 PAVEMENT MARKERS

Add to Section 81-3.02C, Retroreflective Pavement Markers:

RETROREFLECTIVE PAVEMENT MARKERS:

Pavement markers shall conform to the provisions of Section 81-3, "Pavement Markers," and Section 81-3.02C, "Retroreflective Pavement Markers" of Standard Specifications and these Special Provisions.

Certificates of compliance shall be furnished for pavement markers as specified in Section 6-2.03C "Certificates of Compliance" of the Standard Specifications.

Reflective pavement markers shall comply with the specific intensity requirements for reflectance after abrading the lens surface in accordance with the "Steel Wool Abrasion Procedure," specified for pavement markers placed in pavement recesses in Section 81-3.02C, "Retroreflective Pavement Markers", of the Standard Specifications.

The bituminous adhesive used to install the markers shall be a hot melt bituminous adhesive asphaltic material with homogeneously mixed mineral filler and shall conform to the requirements specified in Section 81-3.02D, "Hot Melt Bituminous Adhesives," of the Standard Specifications.

Reflective pavement markers shall be installed at locations as established by the applicable Caltrans striping detail noted on the approved striping Plan, which includes, but is not limited to temporary painted line(s), new striping or existing striping. There shall be one marker for each location. All work necessary to establish satisfactory locations for markers shall be performed by the Contractor.

Existing reflective pavement markers that do not conform to the approved Plan shall be removed by the Contractor.

Reflective pavement markers shall be of the prismatic reflector type (3M model white RP290w and yellow RPM 2912y or equal) as outlined in Section 81-3.02C, "Retroreflective Pavement Markers" of the Standard Specifications.

Blue reflective pavement markers designating the location of fire hydrants within project limits shall be replaced after the paving is completed at all fire hydrants locations, whether the blue reflective makers exist or not prior to paving. Installation of blue markers shall comply with the requirements of Riverside County Fire Department, Standard No. 06-11, attached to these Special Provisions. Compensation for blue reflective markers shall be considered and included in the contract price paid per each for Pavement Marker (Retroreflective).

Payment:

Full compensation for reflective pavement markers shall be considered as included in the contract price paid per each for Pavement Marker (Retroreflective), and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in installing pavement markers complete, in place, as shown on the Plans, as specified in the Standard Specifications and these Special Provisions or as directed by the Engineer.

Section 9-1.06B, "Increases of More Than 25 Percent", of the Standard Specifications will not apply to Pavement Markers (Retroreflective). No adjustment to the contract unit bid price will be allowed for any excess of over 25 percent of the estimated quantity for Pavement Markers (Reflective).

82 SIGNS AND MARKERS

82-3 ROADSIDE SIGNS

Add to Section 82-3.01 General:

ROADSIDE SIGN - ONE POST:
The Contractor shall furnish and install roadside signs at the locations shown on the plans or as directed by the Engineer, in conformance to the provisions in Section 82-3, "Roadside Signs," of the State Standard Specifications and these Special Provisions.

All Signs shall be installed on new square perforated steel tube posts in accordance with County Standard No. 1222.

Street name signs shall be furnished and installed in conformance with County Standard No. 1220 as specified in these Special Provisions and as directed by the Engineer.

All roadway signs shall have retroreflective sheeting. Except as stated below, the retro-reflectivity for all roadway signs, both temporary and permanent installations, shall meet or exceed ASTM Standard D 4956 Type III (3M Co. High Intensity Grade or approved equal). The retro reflectivity for R1-1 ("STOP") signs and W3-1 (Stop Ahead) signs shall meet ASTM Standard D 4956 Type IX (3M Co. Diamond Grade or approved equal).

Replace Section 82-3.04 Payment with the following:

Payment
The contract unit price paid per each for Roadside Sign - One Post, including street name signs, shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work including all necessary concrete excavation and backfill as specified in the Standard Specifications.

82-5 MARKERS

Add to Section 82-5.01, General:

OBJECT MARKERS:
Object Markers shall be installed at the locations shown on the plans, and shall conform to the provisions in Section 82-5, "Markers," of the Standard Specifications and these special provisions and details shown on standard plan No. A73A.

Object Marker shall be Type L-1.

Object Marker (Type L-1) shall be in conformance with the provisions of 81-2.02C, "Metal Posts" of the Standard Specifications.

Refer to standard pan No. A73B for Metal Post Details. The steel for a metal post must comply with ASTM A36/A36M. Metal posts must be galvanized in accordance with Section 75, "Miscellaneous Metals", and Section 75-1.02B, "Galvanizing".

Retroreflective sheeting for metal and flexible target plates shall be the retroreflective sheeting designated for channelizers, markers, and delineators conforming to the requirements in ASTM Designation: D 4956-95 and in conformance with the provisions in "Prequalified and Tested Signing and Delineation Materials".

Replace Section 82-5.04, Payment, with:

Object markers shall be measured and paid for as Object Marker (Type L-1) per each and shall include full compensation for all labor, materials, tools, and equipment, incidentals, and for doing all work involved in furnishing and installing object markers, complete in place, as shown on the plans, as specified in the standard specifications and these special provisions and as directed by the Engineer, and no additional compensation will be allowed therefor.

82-9 EXISTING ROADSIDE SIGNS AND MARKERS

Add to Section 82-9.03A, General:

REMOVE AND SALVAGE EXISTING SIGNS AND POSTS:

Existing roadside signs and posts, shall be removed, and salvaged as shown on the plans in conformance with Section 82-9, "Existing Roadside Signs and Markers", of the Standard Specifications.

County owned removed and salvaged signs shall be delivered to the nearest County Maintenance Yard or as directed by the Engineer. The County Maintenance Yard is located at the following address:

Riverside County Transportation Department
Hemet Maintenance Yard – District #15
595 N. Juanita Street
Hemet, CA 92543
Telephone: 951-658-5234
Hours 7am-3-pm, Monday-Thursday

Payment:
The contract price paid per each for Salvage Roadside Sign shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all the work including removing, protecting, storing, transporting and delivering Road Sign regardless of type of post (wood or metal) and sign panels only (no post) as specified in these Special Provisions and no additional compensation will be allowed therefor

84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.03C(2) Thermoplastic Traffic Stripes and Pavement Markings

Add to Section 84-2.03C(2)(a) General

Thermoplastic traffic stripes and pavement markings shall conform to the provisions in Sections 84-1, "General," and 84-2, "Traffic Stripes and Pavement Markings," of the Standard Specifications and these Special Provisions.

Newly thermoplastic painted traffic stripes and pavement markings shall be protected from damage by public traffic or other causes until the thermoplastic paint is thoroughly dry. Any newly thermoplastic painted traffic striping which are damaged as a result of the construction, including wheel markings by public traffic and the construction equipment, shall be repainted by the Contractor and any associated removals shall be performed as called for in these Special Provisions.

Payment:
The contract price paid per linear foot for Thermoplastic Traffic Stripe ; and per square foot for Thermoplastic Pavement Marking; shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all the work involved in installing thermoplastic traffic stripe and thermoplastic pavement markings (regardless of the number, widths, color, and types of individual stripes involved in each thermoplastic traffic stripe) including any necessary cat tracks, dribble lines any layout work, complete in place as shown on the plans, as specified in the Standard Specifications and these Special Provisions, as directed by the Engineer, and no additional compensation will be allowed therefor.

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DIVISION X ELECTRICAL WORK

87 ELECTRICAL SYSTEMS

Add to Section 87-1.03V, Detectors:

Detectors
Detectors shall conform to the provisions in Section 87-1.03V, "Detectors", of the Standard Specifications and these Special Provisions.

Delay timers shall delay calls only during display of the associated red or yellow indications. If a vehicle departs the area of detection prior to expiration of the assigned delay period, the timer shall reset and no call shall be placed upon the controller. During display of the associated green indication, detectors shall operate in the present mode and calls shall not be delayed.

Inductive Loops

Detector loop configuration shall be Type E and/or Type D per Standard Plans ES-5B unless otherwise shown on the construction plan, in the Special Provisions, or as directed by the Engineer.

Limit Line detector loops shall be installed to detect bicycles per County Standard 1203.

Detector loop wire shall be Type 2.

Detector loop lead-in cable shall be Type B.

Detector loop curb terminations shall be Type A in accordance with Standard Plans ES-5D.

Loop sealant shall be the Hot-Melt Rubberized Asphalt sealant type conforming to the provisions in Section 86-1.02W(4), "Hot-Melt Rubberized Asphalt Sealant", unless directed otherwise by the Engineer. Loop conductors and sealant shall be installed on the same day the loop slots are cut.

All detector loops shall be tested sequentially by the following methods:

- impedance (measured by megaohms)
- resistance (measured by ohms)
- inductance (measured in microhenries)

Payment:
The contract price paid per each for Inductive Loop Detector shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and installing, modifying, or removing the Inductive Loop Detector, as shown on the plans, as specified in the Standard Specifications and the special provisions, and as directed by the Engineer, including removal and disposal of existing detector loops, any necessary excavation and backfill; restoring sidewalk, pavement and appurtenances damaged or destroyed during construction; salvaging existing materials if necessary; and making all required tests.

Full compensation for all additional materials and labor, including but not limited to furnishing and installing any necessary Loop Detector Lead-In Cable (DLC) and splicing detector conductors or cables to DLC, and for materials and labor not shown on the plans or specified, which are necessary to complete the installation of the Inductive Loop Detector, shall be considered as included in the prices paid per each for Inductive Loop Detector, and no additional compensation will be allowed therefor.

Appendix A

AQMD Recommendations

Dust Abatement Attachments

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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 #	**909-**	← 4" Bold Numbers
2" Title Case Letters →	Phone Number:	**SCAQMD 1-800-CUT-SMOG**	← 4 ½ " Bold Numbers
2" Title Case Letters →	**COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT**		

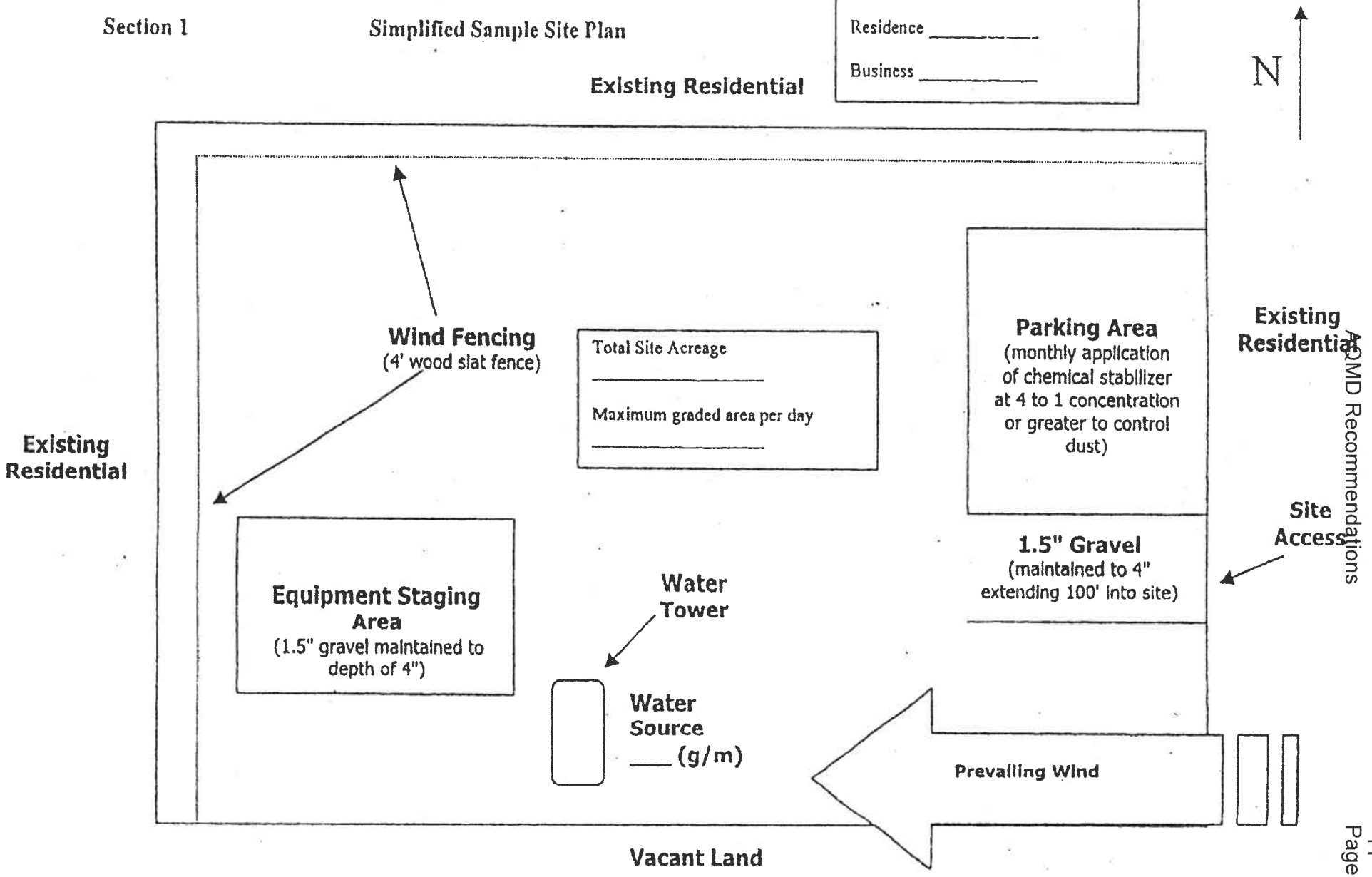
Section 1

Simplified Sample Site Plan

Distance and location of nearest:

Residence _____

Business _____



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

AQMD Recommendations

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.

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	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

(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.

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. (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	(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) Sweep/clean roadways	(1) Either sweeping or water flushing may be used.
(S) Cover haul vehicles	(1) Entire surface area should be covered once vehicle is full.
(T) Bedliners in haul vehicles	(1) When feasible, use in bottom dumping vehicles.
(U) Site access improvement	(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	DESCRIPTION
(Q) Chemical stabilization	(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.

Source: (4) Paved Road Track-Out

CONTROL MEASURES	DESCRIPTION
Compliance with District Rule 403.	Paragraph (d)(5).

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

CONTROL MEASURES	DESCRIPTION
(Q) Chemical stabilization	(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	CONTROL MEASURES
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)*

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving (except construction cutting and filling areas, and mining operations)	(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
	(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.
Earth-moving: Construction fill areas:	(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.

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

TABLE 2 (Continued)*

FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
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)*

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

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

AQMD Recommendations

TABLE 3

TRACK-OUT CONTROL OPTIONS

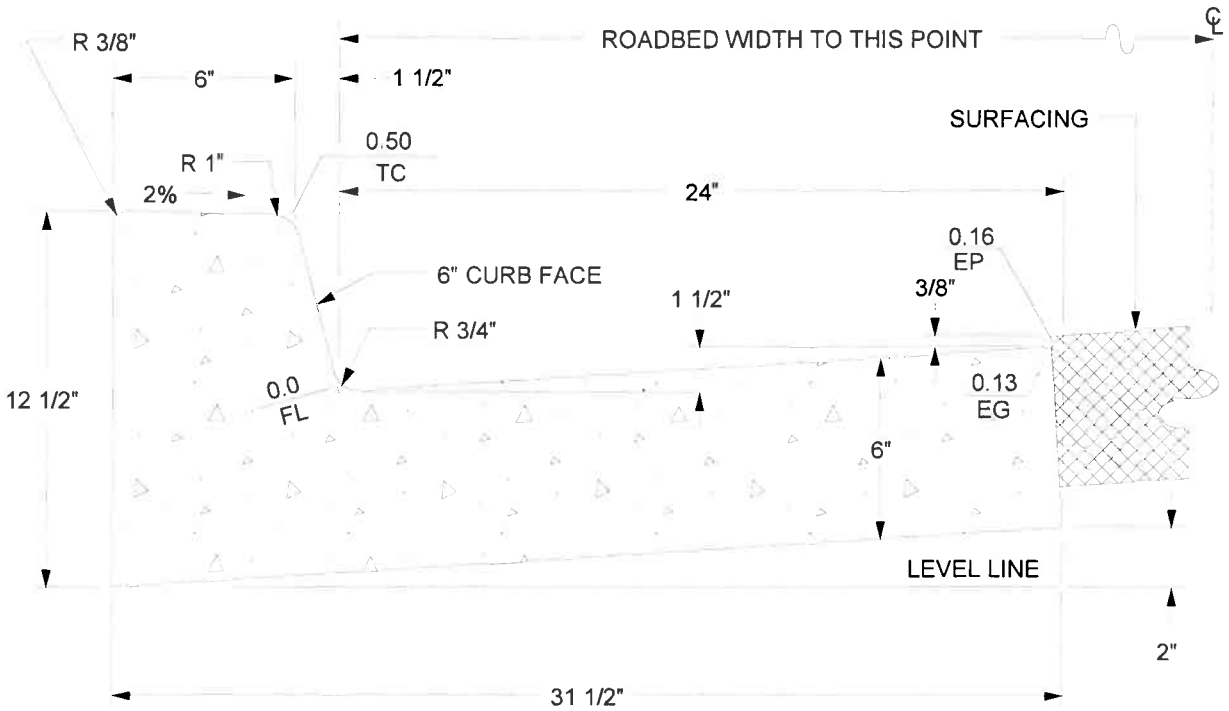
PARAGRAPH (d)(5)(B)

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.

Appendix B

Reference Drawings



CLASS "B" CONCRETE

1.601 CU. FT. / L.F.

1 CU. YD. = 16.86 L.F.

ABBREVIATIONS:

TC = TOP OF CURB
FL = FLOWLINE
EG = EDGE OF GUTTER
EP = EDGE OF PAVEMENT

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

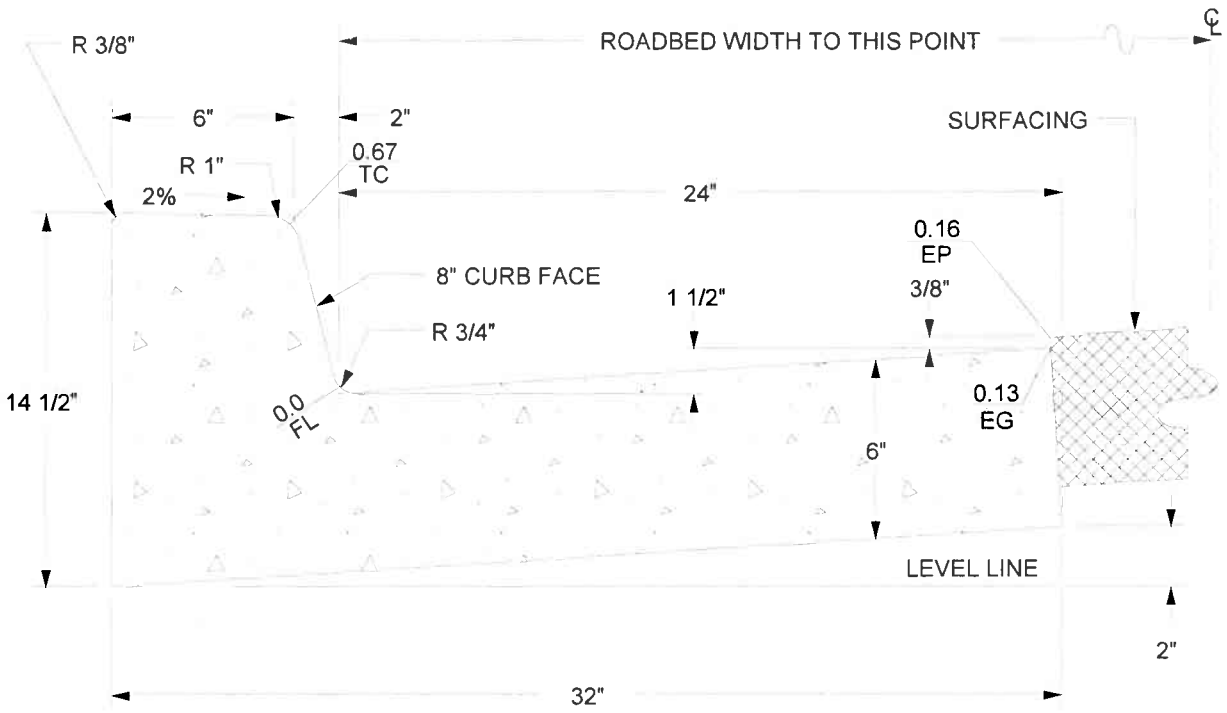
REGISTERED PROFESSIONAL ENGINEER
GEORGE A. JOHNSON
No. CE 42328
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

TYPE A-6 CURB

STANDARD NO. 200

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 9-88	1				4			
2-90, 11-04	2				5			
	3				6			



CLASS "B" CONCRETE

1.73 CU. FT. / L.F.

1 CU. YD. = 15.60 L.F.

ABBREVIATIONS:

TC = TOP OF CURB
FL = FLOWLINE
EG = EDGE OF GUTTER
EP = EDGE OF PAVEMENT

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

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Exp. 3-31-08
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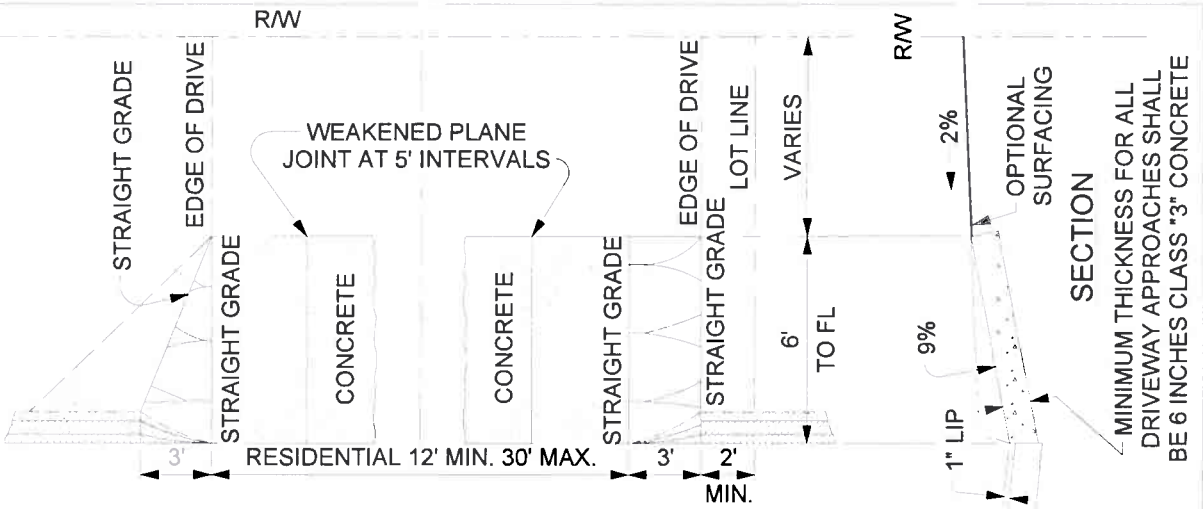
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

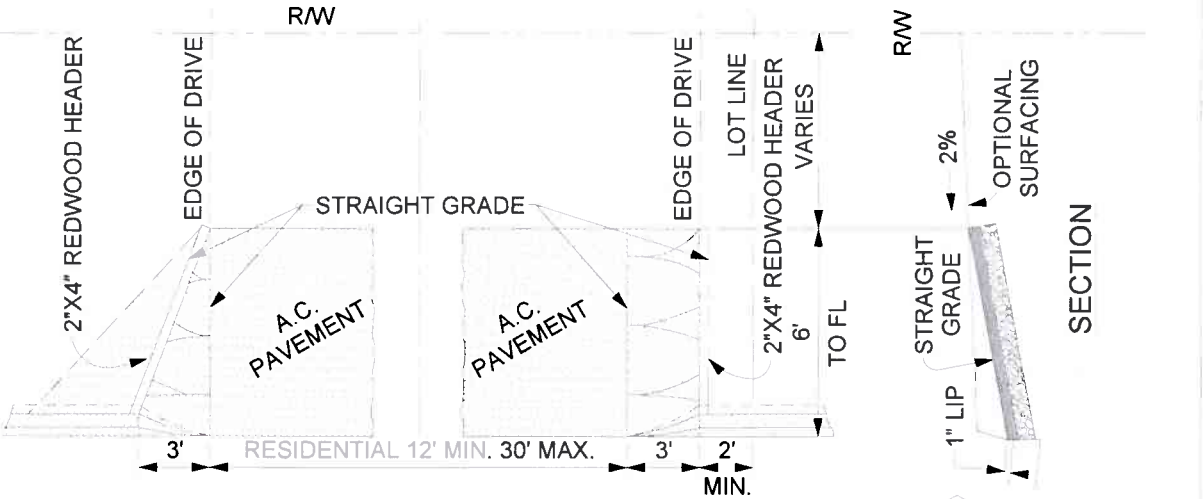
TYPE A-8 CURB

STANDARD NO. 201

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 9-88	1				4			
2-90, 11-04	2				5			
	3				6			



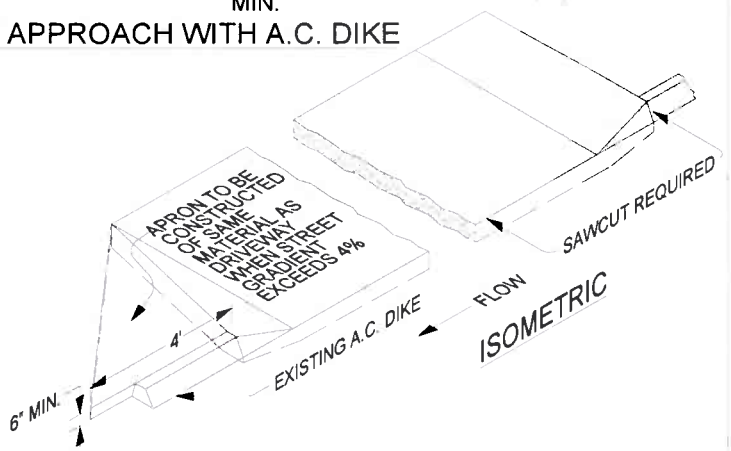
CONCRETE DRIVEWAY APPROACH WITH A.C. DIKE
(NOT APPLICABLE TO INTERIM DIKE LOCATION.)



ASPHALTIC CONCRETE DRIVEWAY APPROACH WITH A.C. DIKE

NOTES:

1. ALL CONSTRUCTION SHALL BE 2-1/2" MIN. THICKNESS ASPHALTIC CONCRETE ON 4" MIN. THICKNESS CLASS 2 OR CLASS 3 BASE, OR 3-1/2" THICKNESS A.C. ON NATIVE SOIL.
2. 20' OF FULL HEIGHT DIKE REQUIRED BETWEEN DRIVEWAYS WITHIN ANY ONE PROPERTY UNLESS OTHERWISE PERMITTED.



NOT TO SCALE

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 11/15/04

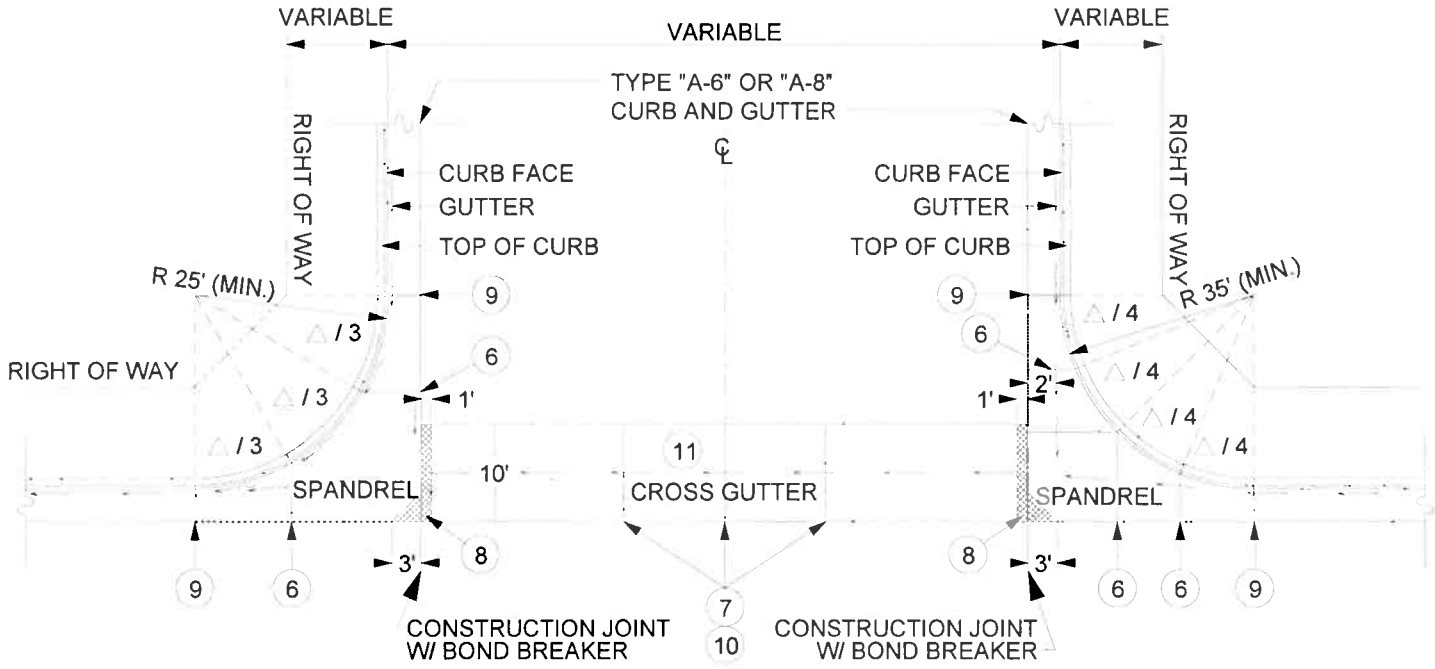
REGISTERED PROFESSIONAL ENGINEER GEORGE A. JOHNSON No. CE 42328 Exp. 3-31-06 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

RESIDENTIAL DRIVEWAY WITH A.C. DIKE

STANDARD NO. 206

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	1				4			
3-82, 2-90	2				5			
12-97, 11-04	3				6			



NOT TO SCALE

1. CROSS GUTTER FOR USE WITH TYPES "A-6" AND "A-8" CURB.
2. APRON THICKNESS TO BE 8" MINIMUM.
3. CROSS GUTTER THICKNESS TO BE 8" MINIMUM.
4. CLASS "A" CONCRETE.
5. PLACE MIN. 6" BASE UNDER ENTIRE SPANDREL AND CROSS GUTTER AREA.
6. WEAKENED PLANE JOINTS TO BE CONSTRUCTED AT 1/3 POINTS ON 25' RADIUS SPANDRELS, AND AT 1/4 POINTS ON 35' RADIUS SPANDRELS.
7. CONSTRUCT WEAKENED PLANE JOINT(S) PER STANDARD #205 AT MIDPOINT OF CROSS GUTTERS LESS THAN 40' LONG, OR AT 1/3 POINTS OF CROSS GUTTERS OF 40' OR LONGER.
8. THIS PORTION OF SPANDREL AND CROSS GUTTER SHALL BE CONSTRUCTED WITH 12 INCH THICK, CLASS "A" CONCRETE.
9. CONSTRUCT EXPANSION JOINT PER STANDARD # 205.
10. CONSTRUCT WEAKENED PLANE JOINT PER STANDARD # 205.
11. CONSTRUCT CROSS GUTTER PER TYPICAL SECTION ON SHEET 2.
12. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 05/01/07

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
11-77, 8-82	1				4			
9-88, 2-90	2				5			
11-04	3				6			

REGISTERED PROFESSIONAL ENGINEER
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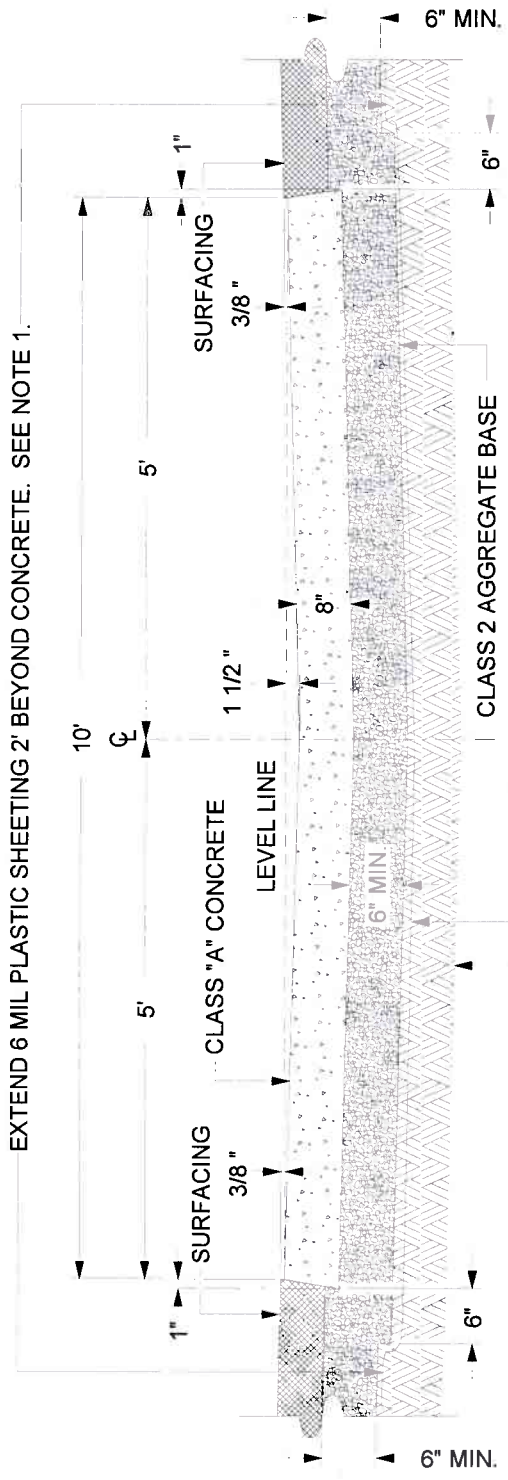
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

CROSS GUTTER (LAYOUT)

STANDARD NO. 209 (1 OF 2)



NOT TO SCALE

NOTE

1. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).

APPROVED BY:

DIRECTOR OF TRANSPORTATION
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DATE: 05/01/07

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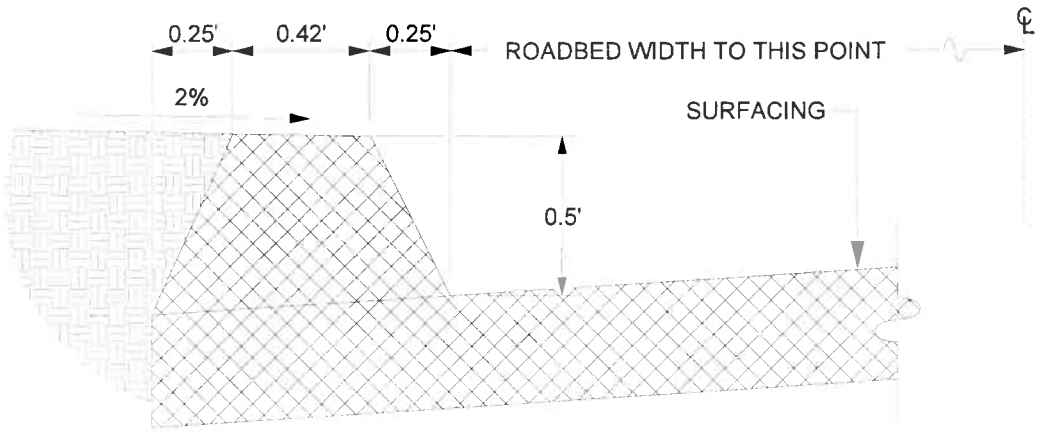
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

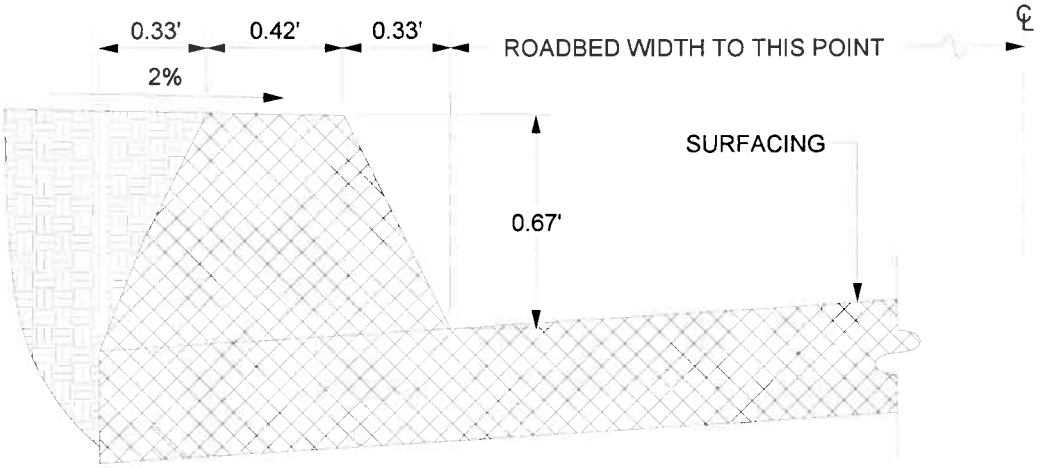
CROSS GUTTER (TYPICAL SECTION)

STANDARD NO. 209 (2 OF 2)

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-71, 9-88	1				4			
2-90, 12-97	2				5			
11-04	3				6			



6" A.C. DIKE



8" A.C. DIKE

NOT TO SCALE

NOTE: A.C. DIKE REQUIRED WHERE FILL SLOPES ARE STEEPER THAN 4:1, MATERIAL IS SUSCEPTIBLE TO EROSION, OR WHERE ROADWAY GRADIENT EXCEEDS 3%.

APPROVED BY:

DIRECTOR OF TRANSPORTATION
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DATE: 05/01/07

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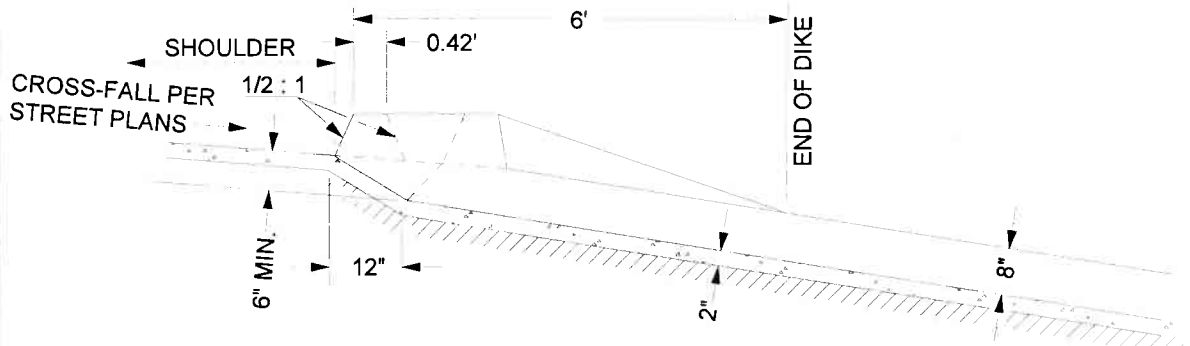
No. CE 42328
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

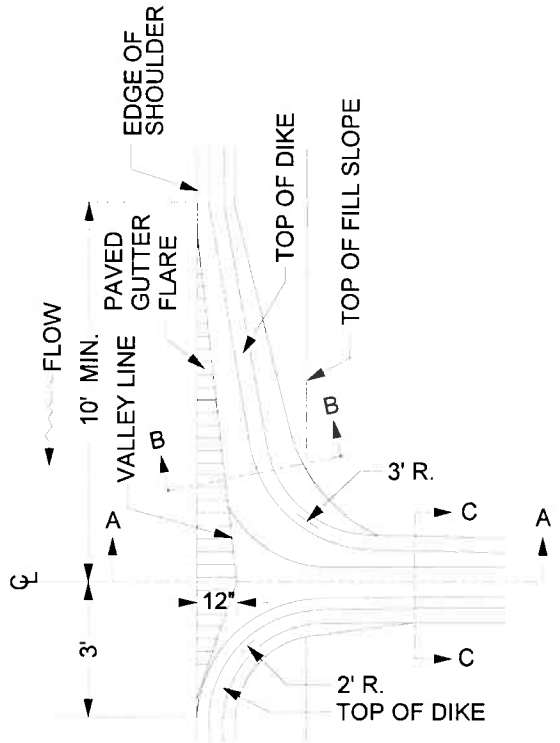
ASPHALT CONCRETE DIKES

STANDARD NO. 212

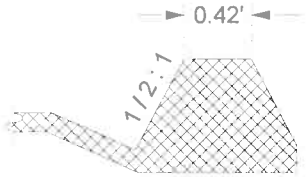
REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
	1				4			
	2				5			
	3				6			



SECTION A - A

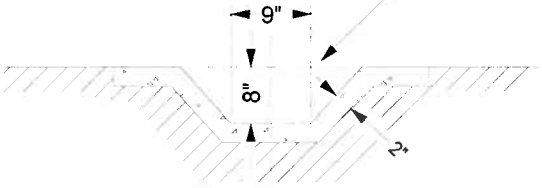


PLAN



SECTION B - B

NOTE:
CROSS - SECTION OF SLOPE DITCH MAY BE SEMICIRCULAR, VEE, OR TRAPEZOIDAL. MIN. TOP WIDTH = 25", MIN. DEPTH = 8".



SECTION C - C

NOT TO SCALE

TO BE USED ON FILL SLOPES FLATTER THAN 4 : 1. USE MIN. 10' LENGTH OF GUTTER ON BOTH SIDES IN A SAG LOCATION. USE PIPE DOWNDRAINS FOR SLOPES STEEPER THAN 4 : 1 SLOPES.

APPROVED BY:

DIRECTOR OF TRANSPORTATION
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DATE: 05/01/07

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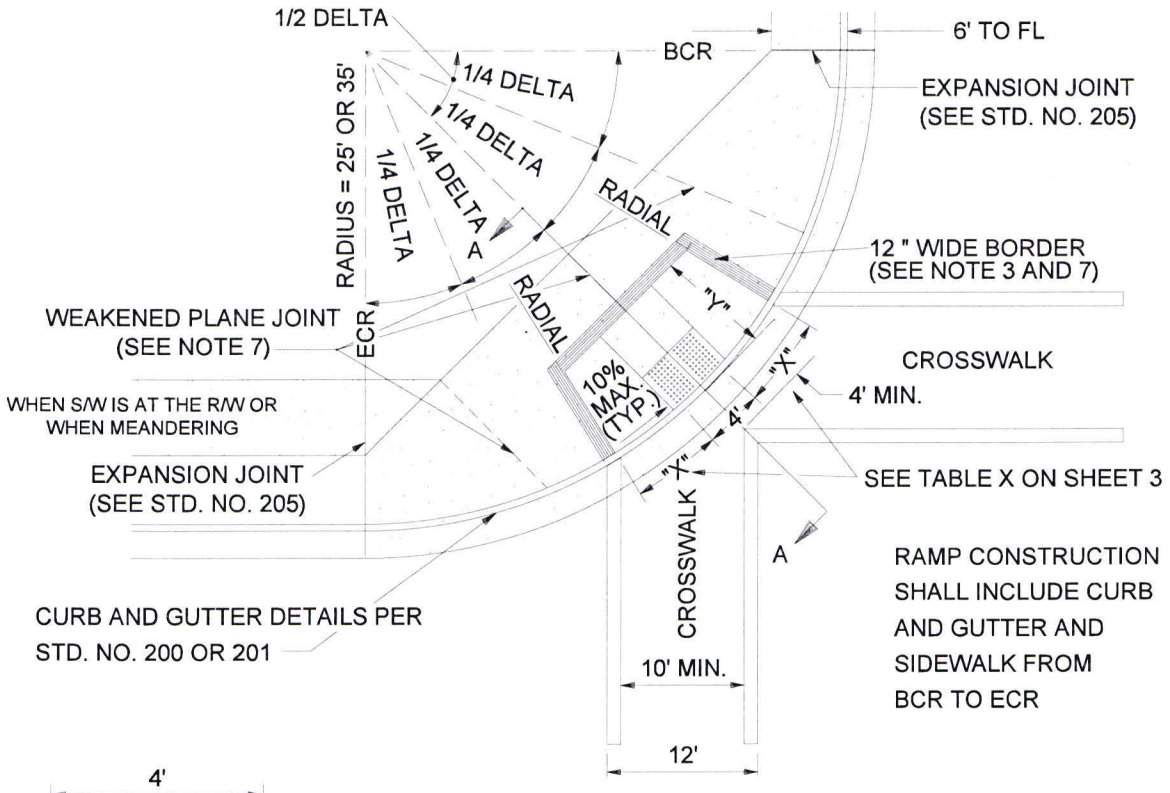
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

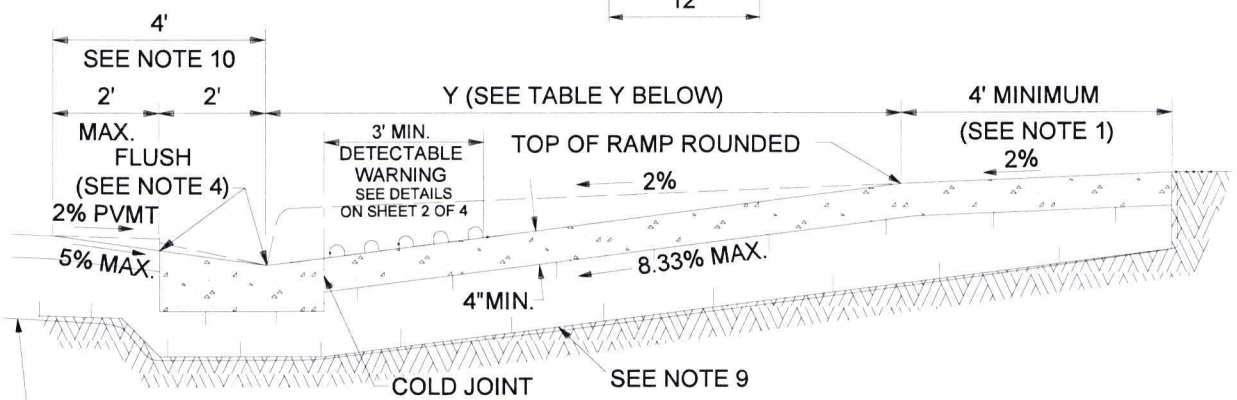
COUNTY OF RIVERSIDE

ASPHALT CONCRETE OVERSIDE DRAIN

STANDARD NO. 306

REVISIONS	REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-18-77, 2-82	1				4			
11-04	2				5			
	3				6			





SECTION A-A

TABLE Y

CF	Y
6"	7.90'
8"	10.53'

$$Y = \frac{\text{CURB FACE (FT.)}}{6.33\%}$$

SEE SHEET 4 OF 4 FOR NOTES.

NOT TO SCALE

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 11/15/04

REGISTERED PROFESSIONAL ENGINEER
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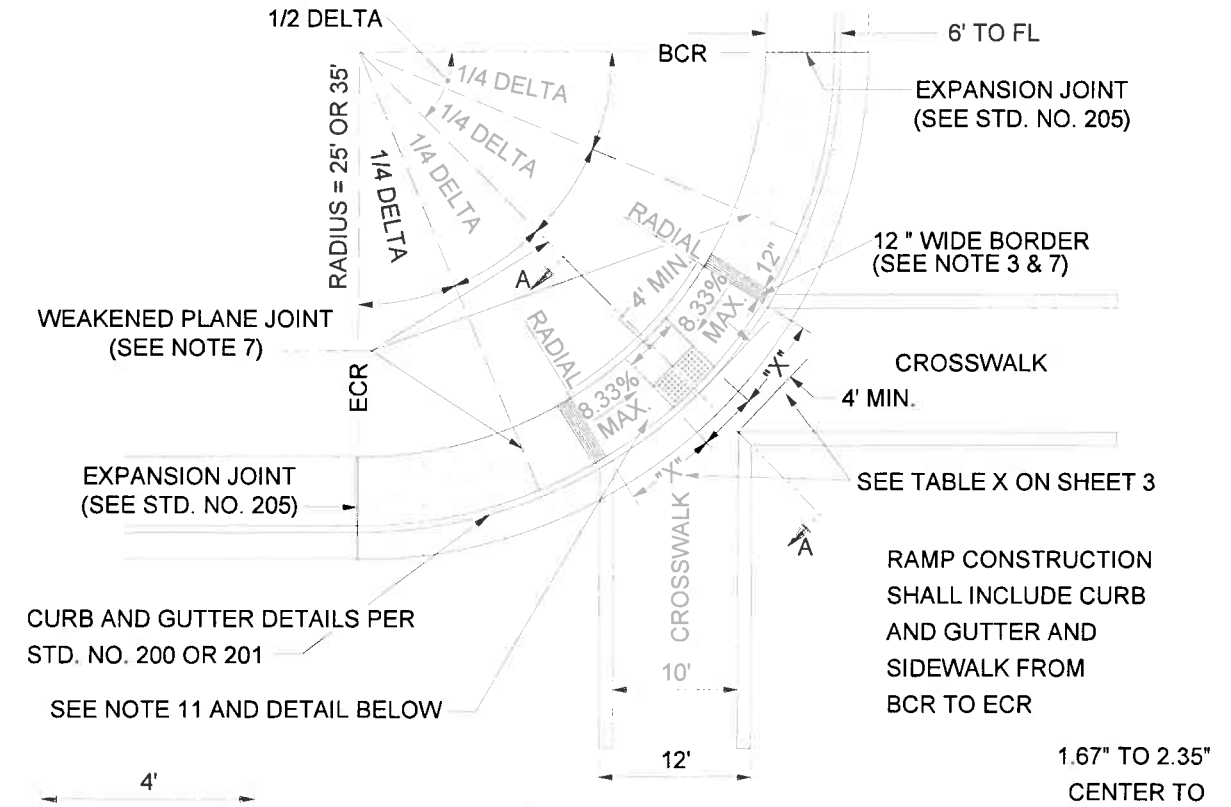
No. CE 42328
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

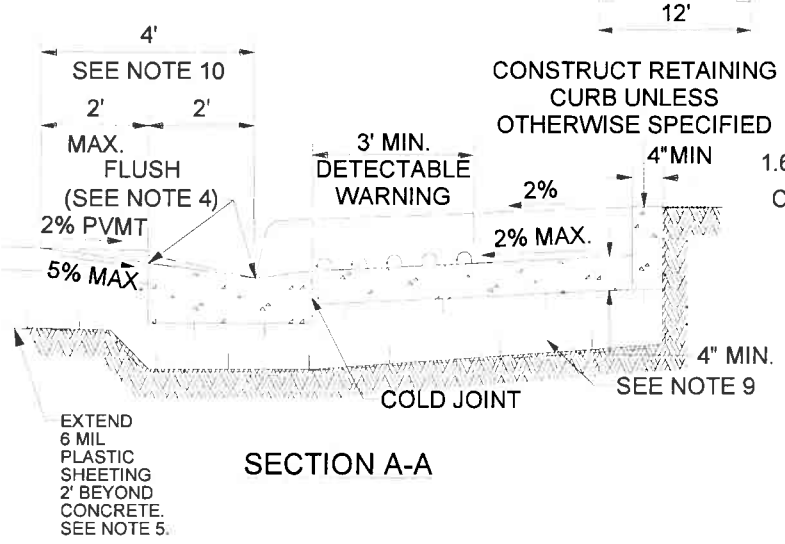
COUNTY OF RIVERSIDE

CURB RAMP
CASE A

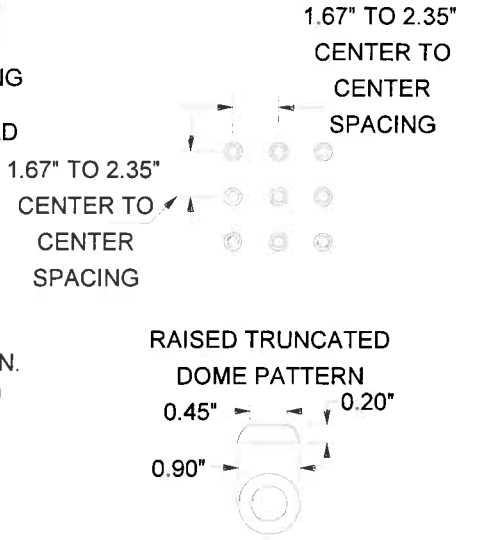
STANDARD NO. 403 (1 OF 4)

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			





SECTION A-A



RAISED TRUNCATED DOME
DETECTABLE WARNING SURFACE
SEE NOTE 11

SEE SHEET 4 OF 4 FOR NOTES.

NOT TO SCALE

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 11/15/04

REGISTERED PROFESSIONAL ENGINEER
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Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

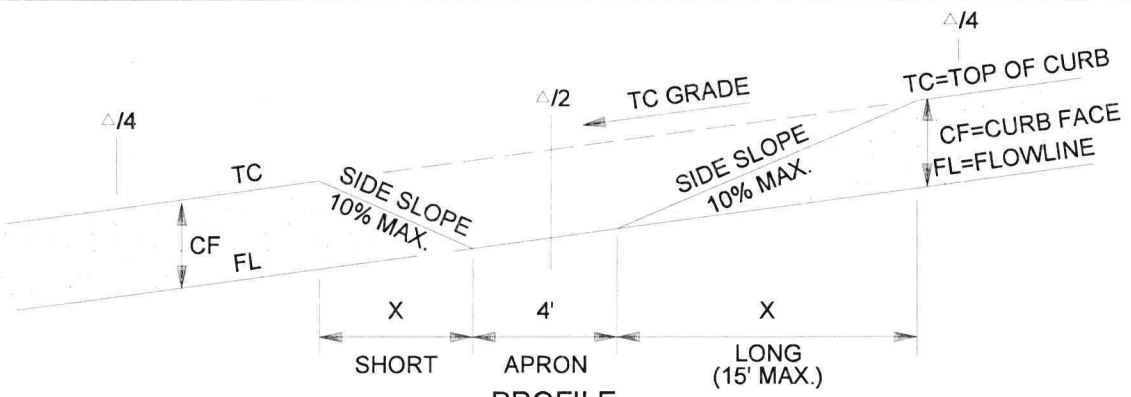
COUNTY OF RIVERSIDE

CURB RAMP
CASE B

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY.	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			

12-97

STANDARD NO. 403 (2 OF 4)



PROFILE

TABLE X

CF (IN)	RADIUS (FT)	SIDE SLOPE	X	TC GRADE (ALONG CURB RETURN)					
				1%	2%	3%	4%	5%	6%
6"	35'	10%	X_S	4.6	4.2	3.9	3.6	3.4	3.2
			X_L	5.6	6.3	7.2	8.4	10.0	12.5
8"	35'	10%	X_S	6.1	5.6	5.2	4.8	4.5	4.2
			X_L	7.5	8.4	9.6	11.2	13.4	15.0

TO CALCULATE "X" DIMENSION:

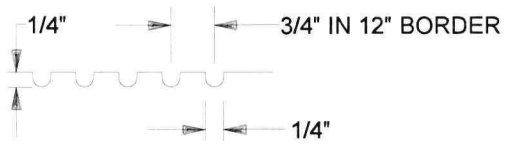
SHORT SIDE (DOWN SLOPE):

$$X_S\ (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE + TC GRADE}}$$

LONG SIDE (UP SLOPE):

$$X_L\ (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE - TC GRADE}}$$

ENGINEER TO SHOW X_S AND X_L ON IMPROVEMENT PLANS



GROOVING DETAIL

APPROVED BY:

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

DATE: 05/05/07

REGISTERED PROFESSIONAL ENGINEER
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No. CE 42328
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

CURB RAMP

STANDARD NO. 403 (3 OF 4)

REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			

CONSTRUCTION NOTES:

1. IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMODATE RAMP AND 4' LANDING, THEN USE THE CASE "B" RAMP.
2. IF SIDEWALK IS LESS THAN 6' WIDE, THE FULL WIDTH OF THE SIDEWALK SHALL BE DEPRESSED AS SHOWN IN CASE B. MINIMUM SIDEWALK WIDTH IS 4' FROM BACK OF CURB.
3. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH GROOVES 1/4" WIDE AND 1/4" DEEP APPROXIMATELY 3/4" ON CENTER. SEE GROOVING DETAIL.
4. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
5. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS ARE REQUIRED. SEE SPECIFICATIONS (SECTION 16.04).
6. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP (EXCEPT IN CASE B).
7. CONSTRUCT WEAKENED PLANE JOINTS AT 1/4 DELTAS WHEN RADIUS EQUALS 35' AND AT INSIDE EDGE OF GROOVED BORDER WHEN RADIUS EQUALS 25'.
8. IF EXPANSIVE SOIL IS ENCOUNTERED, THEN RAMP SHALL BE CONSTRUCTED OVER CLASS 2 AGGREGATE MATERIAL.
9. CONCRETE SHALL BE CLASS B.
10. MAXIMUM SLOPES OF ADJOINING GUTTERS: THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE BOTTOM OF THE CURB RAMP.
11. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL CURB RAMPS THAT ENTER INTO A VEHICULAR TRAVEL WAY.

APPROVED BY:

George A. Johnson DATE: 11/15/04

DIRECTOR OF TRANSPORTATION
GEORGE A. JOHNSON, RCE 42328

REGISTERED PROFESSIONAL ENGINEER GEORGE A. JOHNSON No. CE 42328 Exp. 3-31-08 CIVIL STATE OF CALIFORNIA

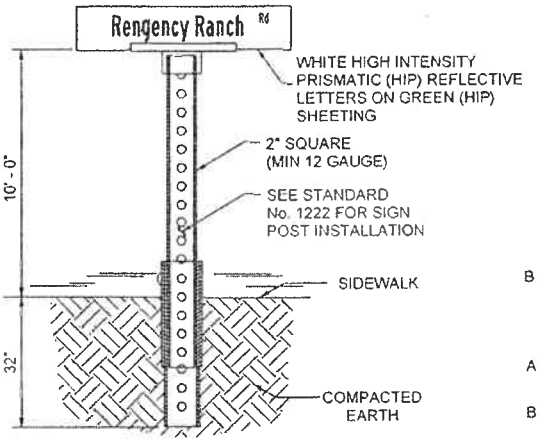
REVISIONS		REV.	BY:	APR'D	DATE	REV.	BY:	APR'D	DATE
8-77, 5-80	11-04	1				4			
10-81, 6-82		2				5			
9-88, 2-90		3				6			

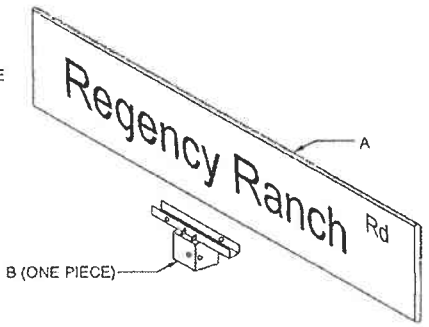
COUNTY OF RIVERSIDE

CURB RAMP CONSTRUCTION NOTES

STANDARD NO. 403 (4 OF 4)

12-97



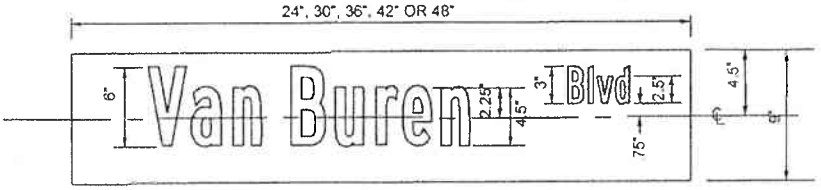


A - SIGN PLATES (5052-H38 ALUMINUM ALLOY MATERIAL)

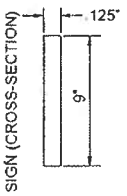
B - 2" SQ. x 12" CAST ANODIZED ALUMINUM POST CAP WITH SIX 3/8" ALLEN HEAD STAINLESS STEEL SET SCREWS TO FIT 0.125 SIGN BLANK

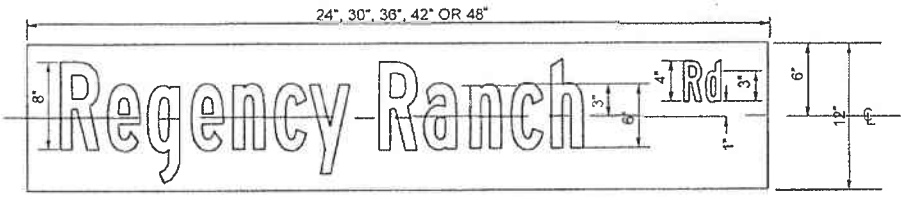
STD SUFFIXES

SUFFIX	ABBREV
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
COURT	Ct
DRIVE	Dr
LANE	Ln
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Tr
WAY	Way
LOOP	Lp

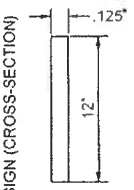


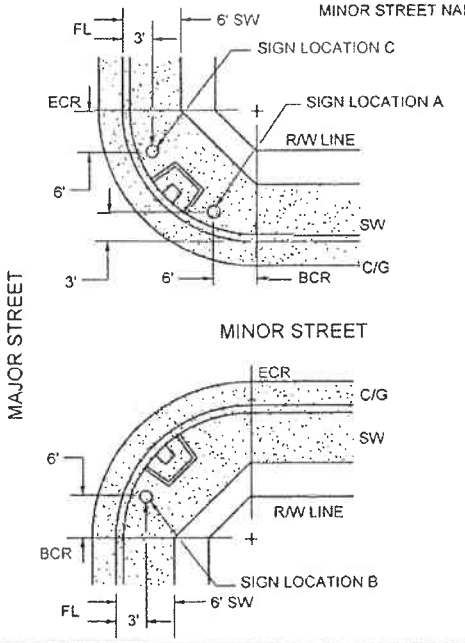
MAJOR STREET NAME SIGN SPECS (SIGN LOCATION A)





MINOR STREET NAME SIGN SPECS (SIGN LOCATION B)





NOTES:

- WHEN ONE OF THE INTERSECTING ROADWAYS HAS AN ULTIMATE PAVED WIDTH OR CURBED WIDTH GREATER THAN 60 FEET, STD 1220 SHALL BE USED.
- TWO SIGNS ARE REQUIRED FOR EACH DIRECTION OF TRAVEL, ON THE RIGHT-HAND SIDE OF THE INTERSECTION FOR APPROACHING TRAFFIC ON THE MAJOR STREET. SEE SIGN INSTALLATION DETAIL.
- AT "T" INTERSECTIONS, ONLY TWO STREET NAME SIGNS SHALL BE REQUIRED.
- MORE THAN FOUR STREET NAME SIGNS MAY BE REQUIRED AT INTERSECTIONS WITH MORE THAN FOUR LEGS.
- WHEN ALL INTERSECTING STREETS HAVE ULTIMATE PAVED WIDTHS OR CURBED WIDTHS OF 60 FEET OR LESS, AND THEY ARE NOT GENERAL PLAN ROADS, USE STANDARD 1221.

SIGN INSTALLATION DETAIL

A. 9" BLADE, WITH MAJOR STREET NAME, PERPENDICULAR TO MINOR STREET.

B. 12" BLADE, WITH MINOR STREET NAME, PERPENDICULAR TO MAJOR STREET.

C. 12" BLADE, WITH MINOR STREET NAME, PERPENDICULAR TO MAJOR STREET. *(ONLY USED IF SIGN LOCATION B DOES NOT PROVIDE GOOD SIGN VISIBILITY)

- FINAL SIGN LOCATION TO BE DETERMINED BY ENGINEER

- LETTER SIZING AND SPACING MUST MEET FHWA SPACING GUIDE LINES. MINOR VARIATIONS AS APPROVED BY ENGINEER.
- SIGNS SHALL NOT EXCEED 48" IF STREET NAME CONTAINS A SECOND WORD, SECOND WORD MAY BE ABBREVIATED AS FOLLOWS:

WORD	ABBREV
CENTER	Ctr
CANYON	Cyn
RANCH	Rch
SPRING	Spr
SCHOOL	Sch

APPROVED BY:

Patricia Romo

ASSISTANT DIRECTOR OF TRANSPORTATION
PATRICIA ROMO, RCE 56064

11-25-14
DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

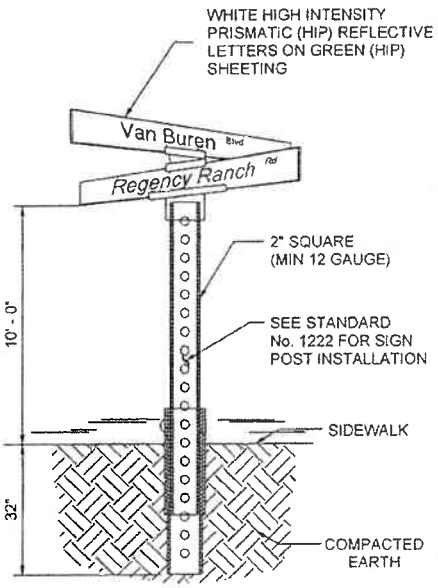
STREET NAME SIGN

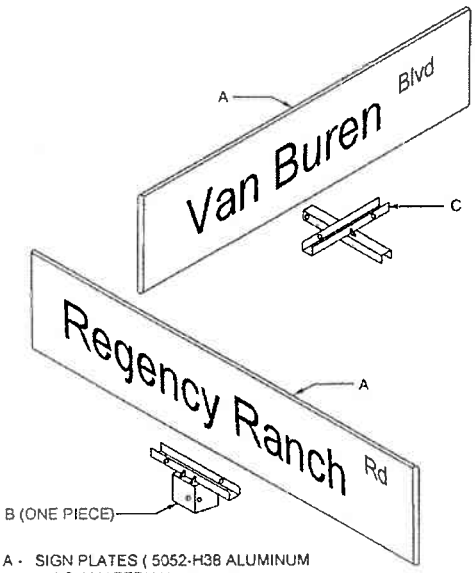
(CURB TO CURB WIDTH GREATER THAN 60')

NO SCALE

STANDARD No. 1220

REVISIONS	REV	BY:	APR'D	DATE	REV	BY:	APR'D	DATE
	1							
	2							
	3							





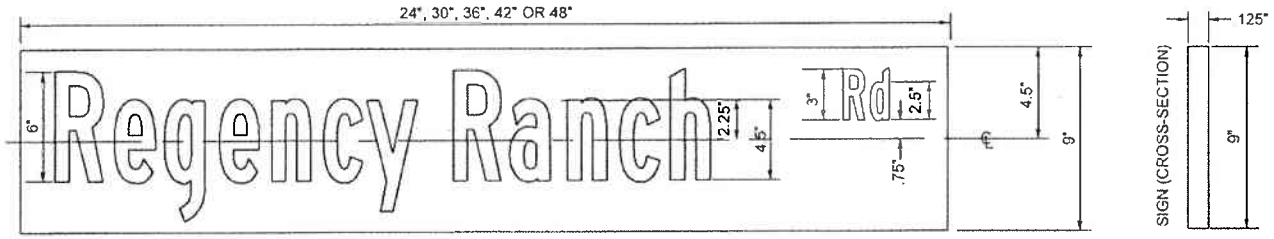
A - SIGN PLATES (5052-H38 ALUMINUM ALLOY MATERIAL)

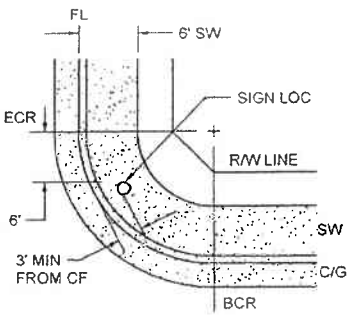
B - 2" SQ. x 12" CAST ANODIZED ALUMINUM POST CAP WITH SIX 3/8" ALLEN HEAD STAINLESS STEEL SET SCREWS TO FIT 0.125 SIGN BLANK

C - CENTER CROSS SADDLE SHALL BE 12" ONE-PIECE CAST ANODIZED ALUMINUM WITH FOUR 3/8" STAINLESS STEEL ALLEN HEAD SET SCREWS TO FIT 0.125 SIGN BLANK

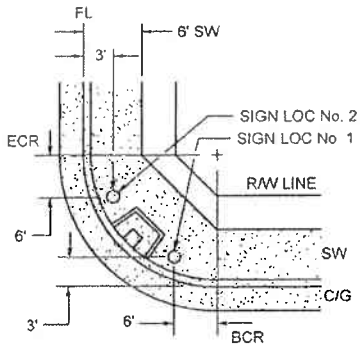
STD SUFFIXES

SUFFIX	ABBREV
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
COURT	Ct
DRIVE	Dr
LANE	Ln
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Tr
WAY	Way
LOOP	Lp





INSIDE OF KNUCKLE



INTERSECTION

SIGN INSTALLATION DETAILS

SIGN LOC No. 1 - FOR RESIDENTIAL STREETS WITHIN A TRACT

SIGN LOC No. 2 - ALL OTHER STREETS THAT ARE NON-RESIDENTIAL STREETS WITHIN A TRACT

- FINAL SIGN LOCATION TO BE DETERMINED BY ENGINEER

NOTE:

- ONE COMPLETE NAME SIGN UNIT IS REQUIRED AT EACH INTERSECTION WHEN PAVED WIDTHS OR CURBED WIDTHS OF ALL INTERSECTING STREETS ARE 60 FEET OR LESS. AT INTERSECTIONS WITH ONE OR MORE STREETS WITH AN ULTIMATE PAVED WIDTH OR CURBED WIDTH GREATER THAN 60 FEET, USE STANDARD 1220.
- SIGNS SHALL NOT EXCEED 48" IF STREET NAME CONTAINS A SECOND WORD, SECOND WORD MAY BE ABBREVIATED AS FOLLOWS:

WORD	ABBREV
CENTER	Ctr
CANYON	Cyn
RANCH	Rch
SPRING	Spr
SCHOOL	Sch

* LETTER SIZING AND SPACING MUST MEET FHWA SPACING GUIDE LINES. MINOR VARIATIONS AS APPROVED BY ENGINEER.

APPROVED BY:

Patricia Romo

ASSISTANT DIRECTOR OF TRANSPORTATION
PATRICIA ROMO, RCE 56064

11-25-14
DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

REVISIONS		REV	BY	APR'D	DATE	REV	BY	APR'D	DATE
		1							
		2							
		3							

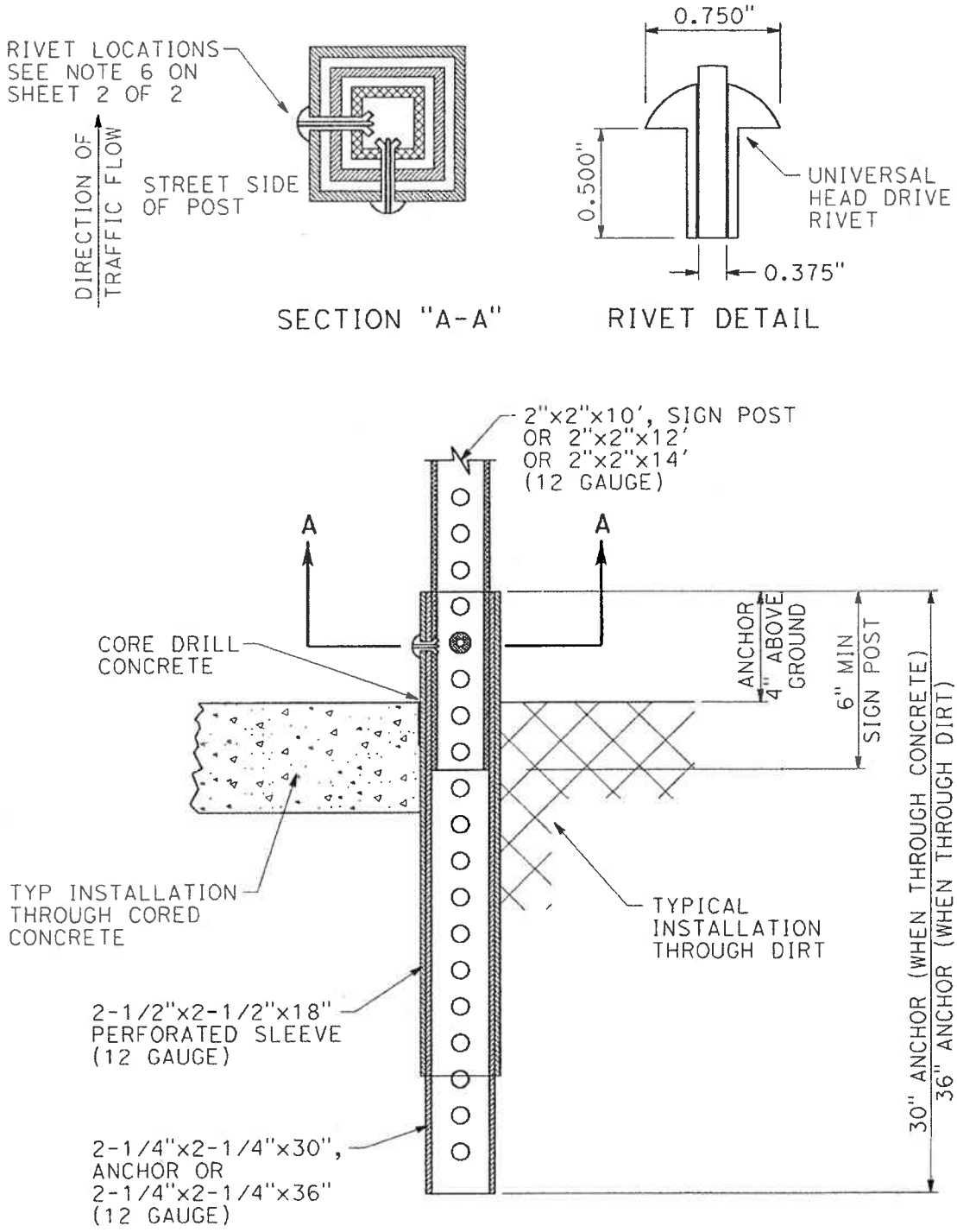
COUNTY OF RIVERSIDE

STREET NAME SIGN

(CURB TO CURB WIDTH LESS THAN OR EQUAL TO 60')

NO SCALE

STANDARD No. 1221



APPROVED BY:

ASSISTANT DIRECTOR OF TRANSPORTATION
PATRICIA ROMO, RCE 56064

11-25-14
DATE

REGISTERED PROFESSIONAL ENGINEER
No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

SIGN POST INSTALLATION

NO SCALE

STANDARD No. 1222 (1 of 2)

REVISIONS		REV	BY:	APR'D	DATE	REV	BY:	APR'D	DATE
		1				4			
		2				5			
		3				6			

NOTES:

1. SQUARE PERFORATED STEEL TUBE POST WITH TWO PIECE ANCHOR AND SLEEVE, "TELESPAR", SHALL BE USED FOR ALL TRAFFIC CONTROL AND INFORMATIONAL SIGNS WITHIN ROAD RIGHT OF WAY.
2. THE NUMBER OF POSTS REQUIRED FOR SIGN INSTALLATION SHALL BE DETERMINED BY THE AREA OF THE SIGN OR COMBINATION OF SIGNS TO BE INSTALLED. A SINGLE POST SHALL BE USED WHERE BOTH THE LENGTH AND WIDTH ARE 48" OR LESS. DOUBLE POSTS SHALL BE USED WHERE EITHER THE LENGTH OR WIDTH EXCEEDS 48".
3. THE 2 PIECE ANCHOR AND SLEEVE ASSEMBLY SHALL CONSIST OF A 2 1/4" SQUARE BY 30" (THROUGH SIDEWALK) OR 36" (THROUGH SOIL) ANCHOR WITH A 2 1/2" SQUARE BY 18" SLEEVE. ALL SLEEVES AND ANCHORS SHALL BE 12 GAUGE.
4. THE ANCHOR AND SLEEVE ASSEMBLIES SHALL BE DRIVEN SIMULTANEOUSLY UNTIL ONLY 4" REMAINS ABOVE GROUND LEVEL.
5. ALL DIRT SHALL BE REMOVED FROM THE INSIDE TOP 6" MINIMUM OF THE ANCHOR ASSEMBLY TO ALLOW FOR THE INSTALLATION OF THE SIGN POST.
6. INSTALL 2" SQUARE SIGN POST MINIMUM 6" INTO THE ANCHOR ASSEMBLY AND SECURE IN PLACE WITH TWO 3/8" DRIVE RIVETS AS SHOWN. THE RIVETS SHALL BE INSTALLED ON THE SIDE FACING TRAFFIC FLOW AND THE SIDE OF APPROACHING TRAFFIC AS SHOWN IN ORDER TO ACHIEVE THE MAXIMUM BREAK-AWAY EFFECT.
7. INSTALLATION ACCORDING TO THESE REQUIREMENTS IS ESSENTIALTO MAINTAIN BREAK-AWAY CHARACTERISTICS OF THE POST SYSTEM.
8. SEE STANDARD No. 1220 AND 1221 FOR PLACEMENT OF SIGN POST.
9. ALL ANCHOR ASSEMBLIES SHALL BE CORE DRILLED THROUGH CONCRETE AND ASPHALT.
10. ALL SIGNS ATTACHED TO PERFORATED POSTS SHALL HAVE ZINC COATED OR STAINLESS STEEL WASHERS BEHIND THE RIVET THAT ARE LARGER THAN THE HEAD OF THE RIVET.
11. ALL REGULATORY, WARNING, AND GUIDE SIGNS INSTALLED SHALL BE 0.080 INCHES IN THICKNESS.
12. ALL SIGNS 36" OR LARGER SHALL BE INSTALLED WITH BACK BRACES (2" RISE) SPECIFICALLY DESIGNED FOR 2" SQUARE PERFORATED POSTS.
13. IN SOME INSTANCES CONCRETE FOUNDATION MAY BE REQUIRED TO ENSURE PROPER STABILITY, THIS OPTION IS TO BE USED AT THE DISCRESTION OF THE ENGINEER OR ONSITE INSPECTOR.

APPROVED BY:

Patricia Romo 11-25-14

ASSISTANT DIRECTOR OF TRANSPORTATION — DATE

PATRICIA ROMO, RCE 56064

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

SIGN POST INSTALLATION

NO SCALE

STANDARD No. 1222 (2 of 2)

REVISIONS		REV	BY:	APR'D	DATE	REV	BY:	APR'D	DATE
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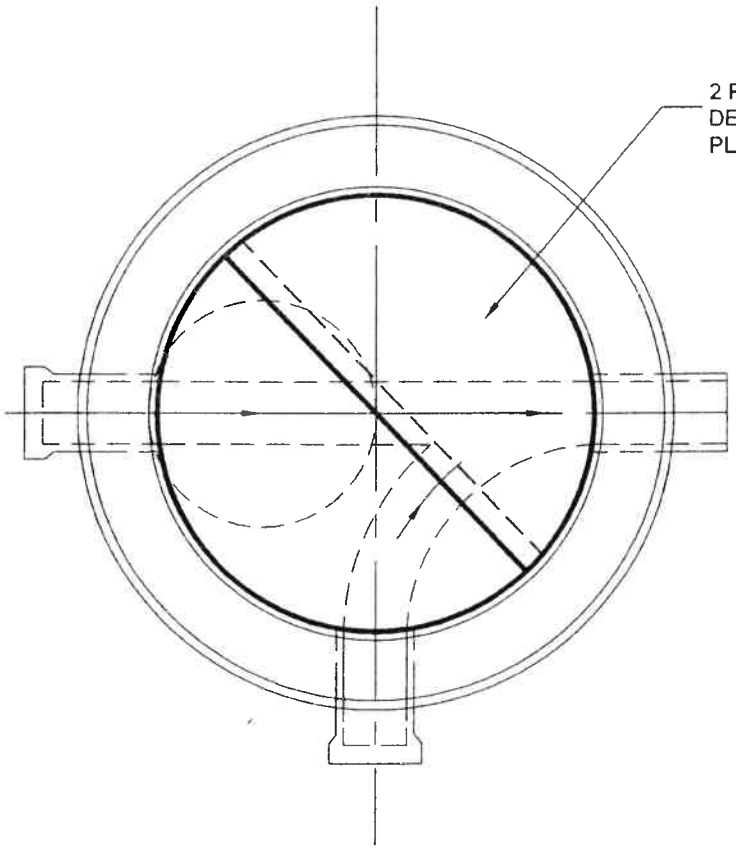
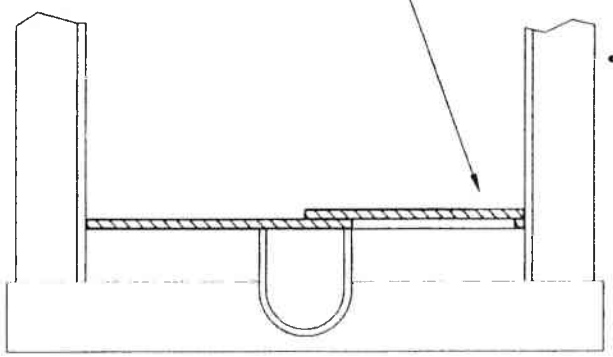
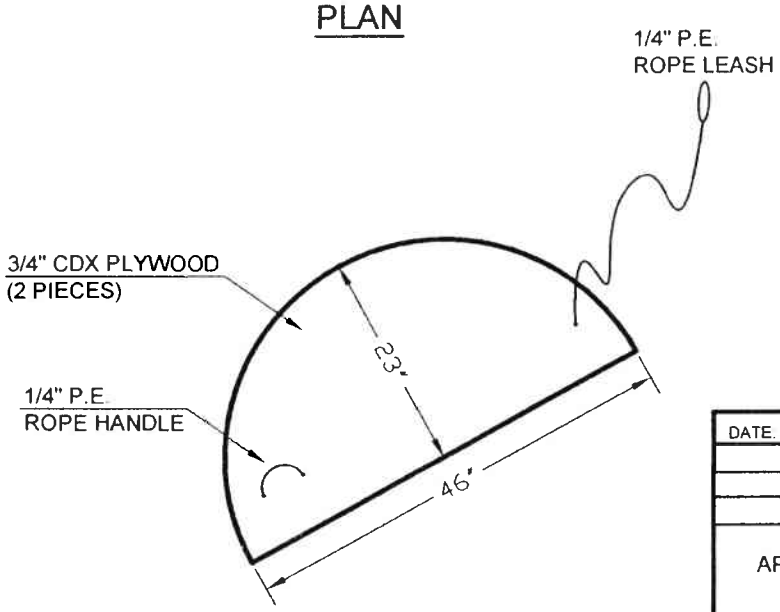
		2				5			
		3				6			



PLAN



SECTION



DETAIL "A"

DATE.	REVISION	BY

APPROVED BY _____
GENERAL MANAGER DATE:

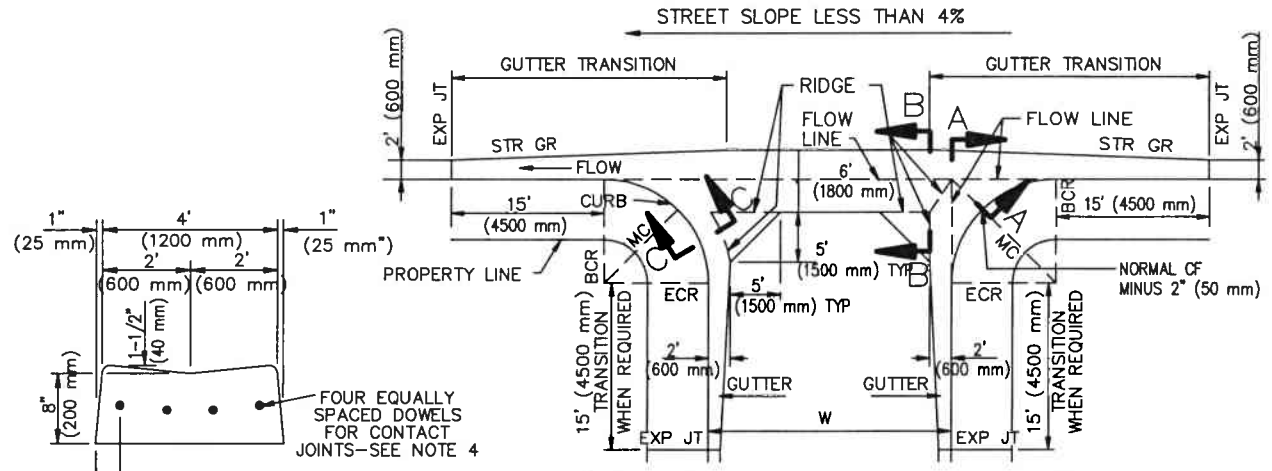
D. Wall 6/5/09
CHIEF ENGINEER DATE:

SCALE: NONE	DRAWN BY: S.R.W.

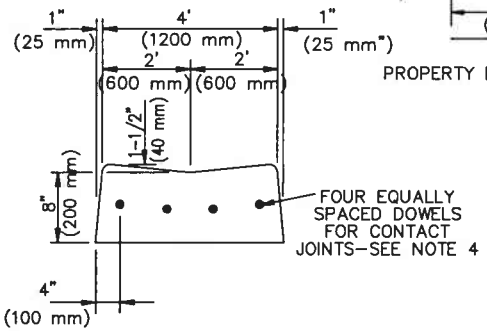
LAKE HEMET MUNICIPAL WATER DIST.
WATER IMPROVEMENT

TEMPORARY FALSE BOTTOM / DEBRIS CATCH FOR STANDARD SEWER MANHOLE

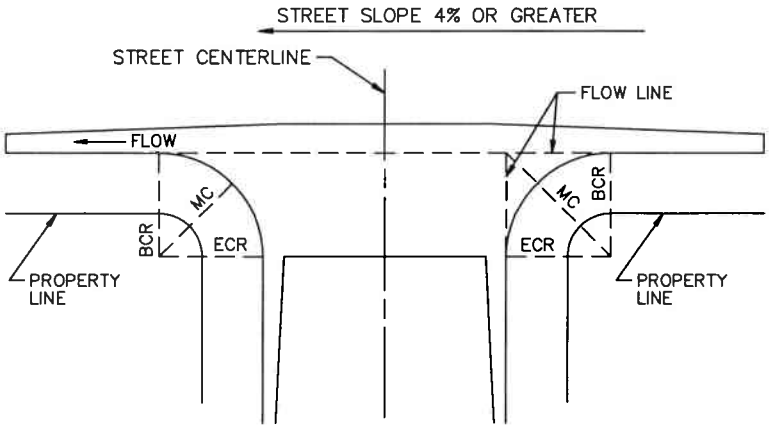
STANDARD NO.11



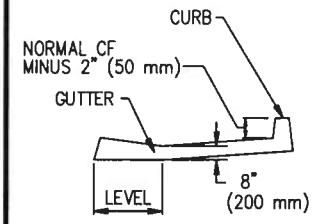
TYPICAL CROSS GUTTER PLAN
STREET SLOPE LESS THAN 4%



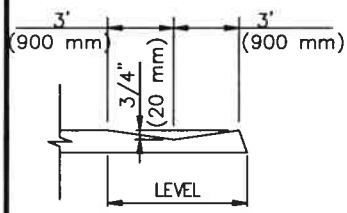
LONGITUDINAL
GUTTER



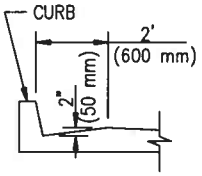
TYPICAL CROSS GUTTER PLAN
STREET SLOPE MORE THAN 4%



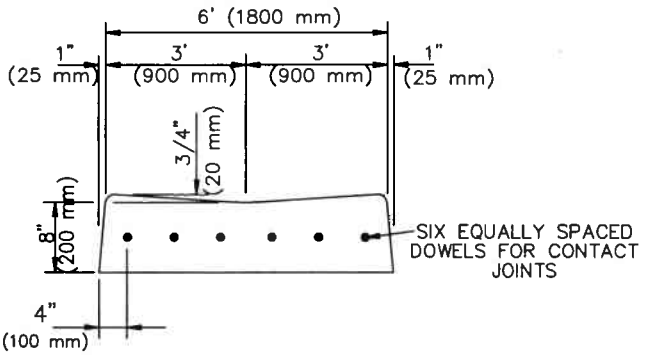
SECTION A–A



SECTION B–B



SECTION C–C



SECTION D–D

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

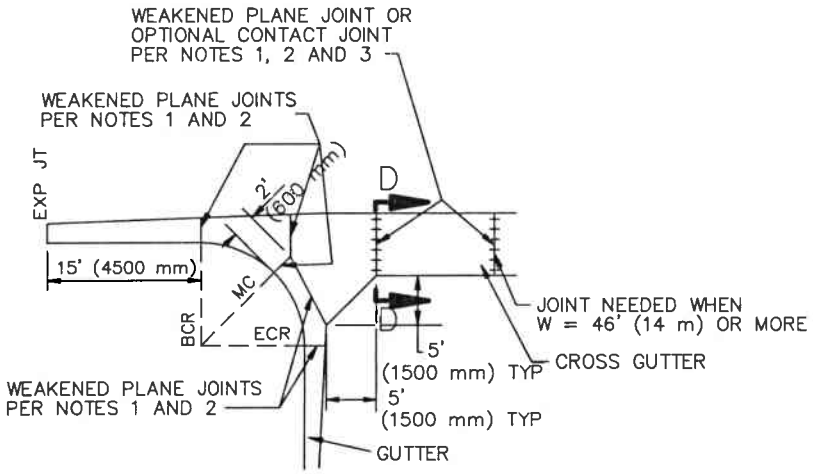
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1984 REV. 1996, 2009

CROSS AND LONGITUDINAL GUTTERS

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 122–2

SHEET 1 OF 2



TYPICAL JOINT PLAN

NOTES:

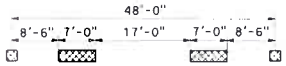
1. WEAKENED PLANE AND/OR CONTACT JOINTS SHALL BE PLACED IN CURB AND GUTTER AT LOCATIONS SHOWN ON THE TYPICAL JOINT PLAN HEREON.
2. WEAKENED PLANE JOINTS SHALL BE PLASTIC CONTROL JOINTS OR 1–1/2" (40 mm) DEEP SAW CUTS. CONCRETE SAWING SHALL TAKE PLACE WITHIN 24 HOURS AFTER CONCRETE IS PLACED.
3. DOWELS FOR CONTACT JOINTS SHALL BE #4 BARS 18" LONG (#13M BARS 450 mm LONG).
4. PLACE A WEAKENED PLANE OR CONTACT JOINT WHERE LONGITUDINAL ALLEY GUTTER JOINS CONCRETE ALLEY INTERSECTION.
5. ALL EXPOSED CORNERS ON PCC GUTTERS SHALL BE ROUNDED WITH 1/2" (15 mm) RADIUS.
6. CONCRETE SHALL BE INTEGRAL WITH CURB UNLESS OTHERWISE SPECIFIED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
CROSS AND LONGITUDINAL GUTTERS	**122–2**
	SHEET 2 OF 2

CENTERLINES
(2 LANE HIGHWAYS)

DETAIL 1

DETAIL 2



~~DETAIL 3~~ DETAIL 3 DELETED

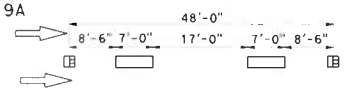
~~DETAIL 4~~ DETAIL 4 DELETED

LANELINES
(MULTILANE HIGHWAYS)

DETAIL 8

DETAIL 9

DETAIL 9A
SEE NOTE



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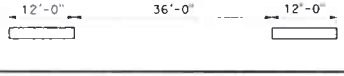
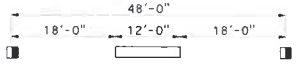
DETAIL 11

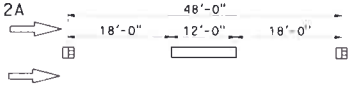


LANELINES (Cont)
(MULTILANE HIGHWAYS)

DETAIL 12



DETAIL 12A
SEE NOTE



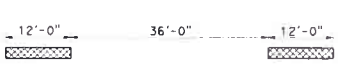
~~DETAIL 13~~ DETAIL 13 DELETED

~~DETAIL 14~~ DETAIL 14 DELETED

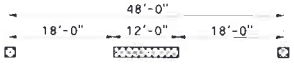
~~DETAIL 14A~~ DETAIL 14A DELETED

NO PASSING ZONES-ONE DIRECTION

DETAIL 5



DETAIL 6



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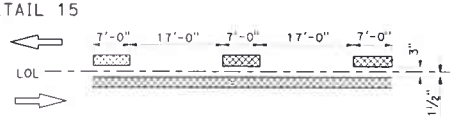
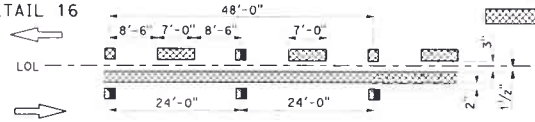
DETAIL 15



DETAIL 16



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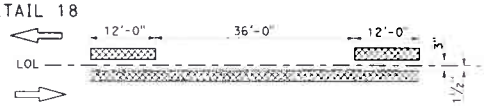
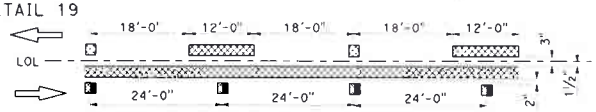
DETAIL 18



DETAIL 19



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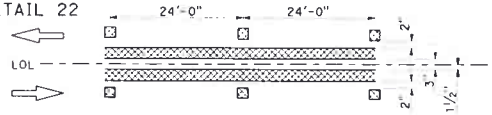
NOTE:
FOR FREEWAY APPLICATION ONLY

NO PASSING ZONES-TWO DIRECTION

DETAIL 21

DETAIL 22



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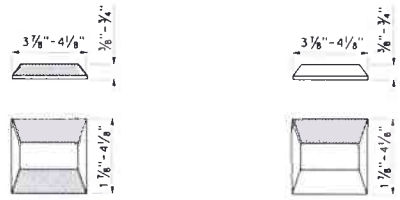
LEGEND

MARKERS

- TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE

LINES

- 6" WHITE
- 6" YELLOW



TYPE C AND TYPE D | TYPE G AND TYPE H

RETROREFLECTIVE FACE

May 31, 2018

Atifo Ferouz C80402 Exp. 3-31-19

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

A20A

2018 STANDARD PLAN A20A

12

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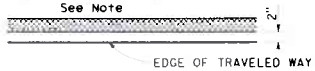
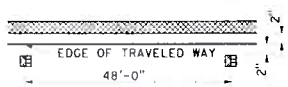
LEFT EDGE LINES

(DIVIDED HIGHWAYS)
See Note

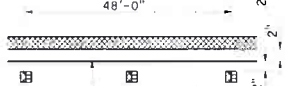
DETAIL 24



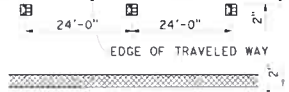
DETAIL 25



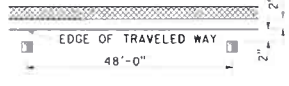
DETAIL 25A



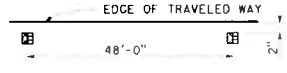
DETAIL 25B



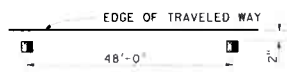
DETAIL 26



DETAIL 26A



DETAIL 26B

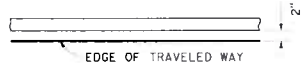


DETAIL 27

RIGHT EDGE LINES

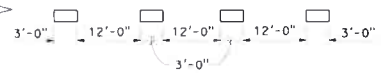
~~DETAIL 27A~~ DETAIL 27A DELETED

DETAIL 27B



RIGHT EDGE LINE EXTENSION THROUGH INTERSECTIONS

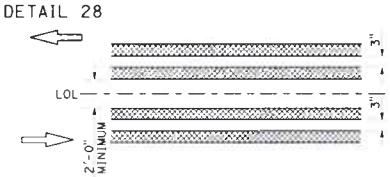
DETAIL 27C



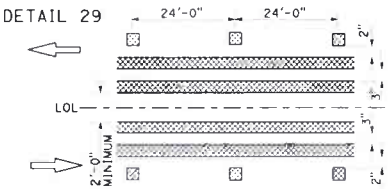
LEFT EDGE LINES NOTE:
On freeways use traffic stripe details with Type RY markers.

MEDIAN ISLANDS

DETAIL 28



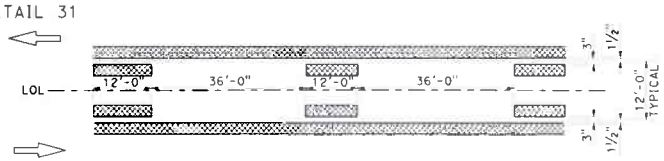
DETAIL 29



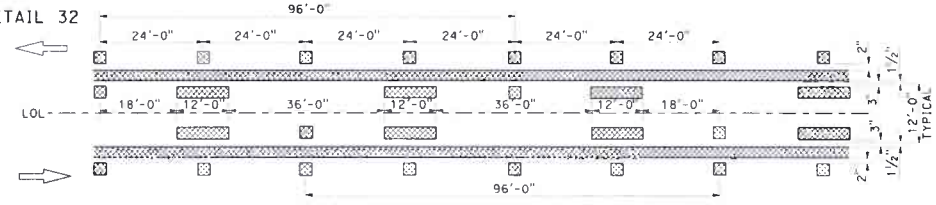
~~DETAIL 30~~ DETAIL 30 DELETED

TWO-WAY LEFT TURN LANES

DETAIL 31



DETAIL 32



~~DETAIL 33~~ DETAIL 33 DELETED

LEGEND

MARKERS

- TYPE D — TWO-WAY YELLOW RETROREFLECTIVE
- TYPE H — ONE-WAY YELLOW RETROREFLECTIVE
- TYPE RY — RED-YELLOW RETROREFLECTIVE

LINES

- 6" WHITE
- 6" YELLOW

Atifa Feroz
April 19, 2019
PLAN APPROVAL DATE

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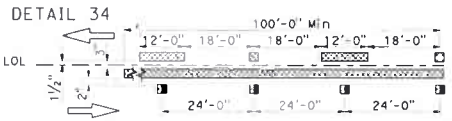
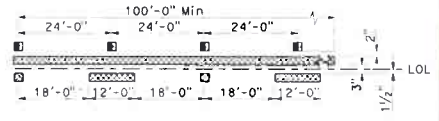
Atifa Feroz
C80402
Exp. 3-31-21

INTERSECTION TREATMENTS

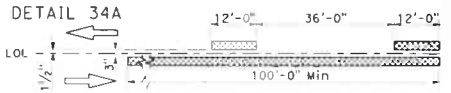
TO ACCOMPANY PLANS DATED _____

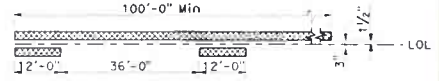
DETAIL 34



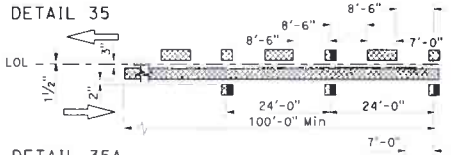


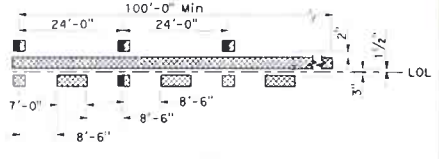
DETAIL 34A



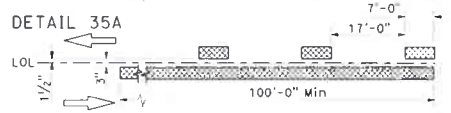


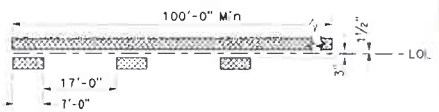
DETAIL 35





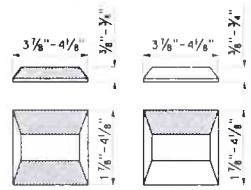
DETAIL 35A





CENTERLINE INTERSECTING STREET

MARKER DETAILS



TYPE RY AND TYPE D

TYPE H

RETROREFLECTIVE FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

RSP A20B DATED APRIL 19, 2019 SUPERSEDES STANDARD PLAN A20B DATED MAY 31, 2018 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP A20B

2018 REVISED STANDARD PLAN RSP A20B

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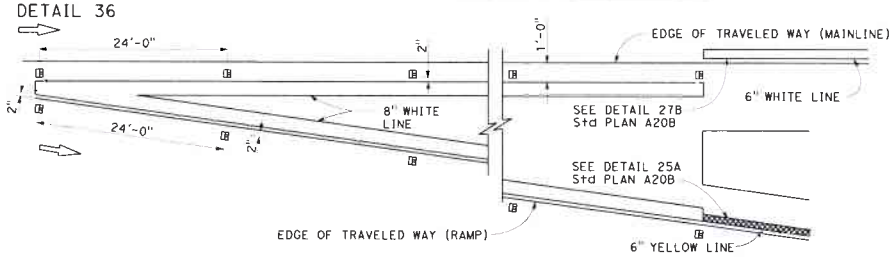
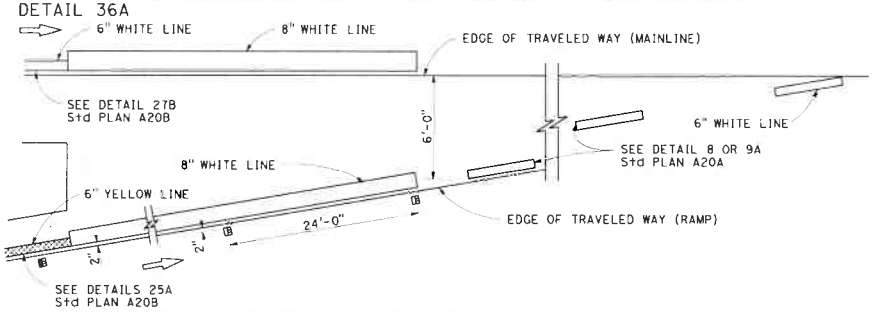
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



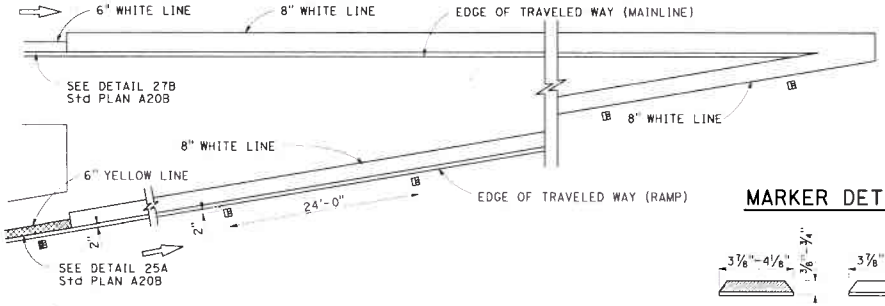
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

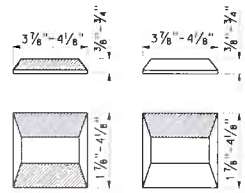


LEGEND:

MARKERS

- TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE RY RED-YELLOW RETROREFLECTIVE

MARKER DETAILS



TYPE C AND TYPE RY | TYPE G

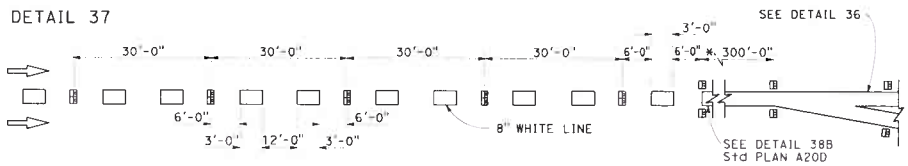
RETROREFLECTIVE FACE

Atifa Ferouz
REGISTERED CIVIL ENGINEER
October 19, 2018
PLAN APPROVAL DATE
Atifa Ferouz
C80402
Exp. 3-31-19
CIVIL
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF OR ALTERATIONS TO THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

LANE DROP AT EXIT RAMPS

DETAIL 37

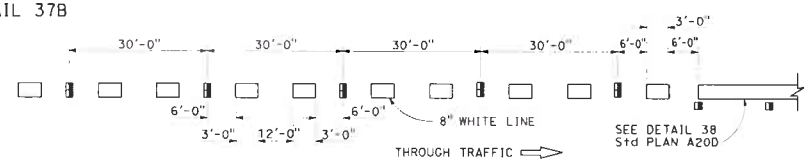


* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

~~DETAIL 37A~~ DETAIL 37A DELETED

LANE DROP AT INTERSECTIONS

DETAIL 37B



~~DETAIL 37C~~ DETAIL 37C DELETED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

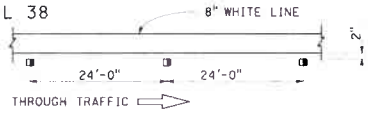
RSP A20C DATED OCTOBER 19, 2018 SUPERSEDES STANDARD PLAN A20C DATED MAY 31, 2018 - PAGE 14 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP A20C

2018 REVISED STANDARD PLAN RSP A20C

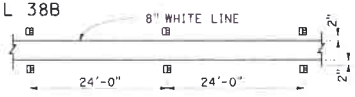
CHANNELIZING LINE

DETAIL 38



DETAIL 38A

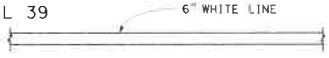
DETAIL 38B



~~DETAIL 38C~~ DETAIL 38C DELETED

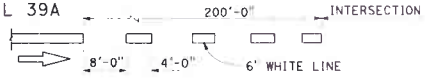
BIKE LANE LINE

DETAIL 39



INTERSECTION LINE
BIKE LANE

DETAIL 39A



LANE LINE EXTENSIONS THROUGH INTERSECTIONS

DETAIL 40

~~DETAIL 40A~~ DETAIL 40A DELETED

CENTER LINE EXTENSIONS THROUGH INTERSECTIONS

DETAIL 41

~~DETAIL 41A~~ DETAIL 41A DELETED

LEGEND

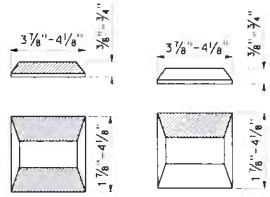
MARKERS

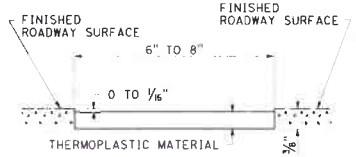
TYPE C RED-CLEAR RETROREFLECTIVE

TYPE G ONE-WAY CLEAR RETROREFLECTIVE

6" YELLOW LINE

MARKER DETAILS





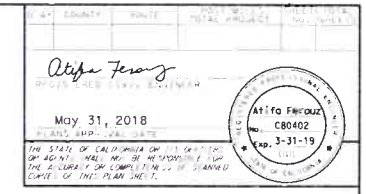
DETAIL FOR RECESSED THERMOPLASTIC TRAFFIC STRIPE

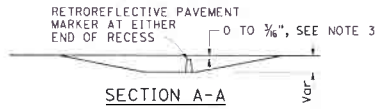
See Notes A and B.

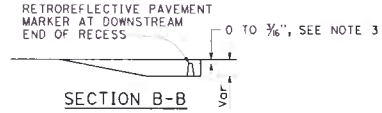
RECESSED THERMOPLASTIC NOTES

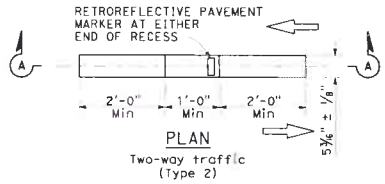
A. See typical traffic line details for pavement marking patterns.

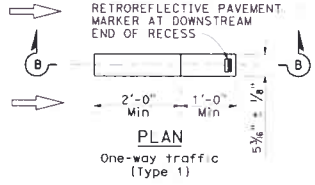
B. The top of the thermoplastic installed in recessed pavement shall be 0 to 1/16" below the pavement surface.



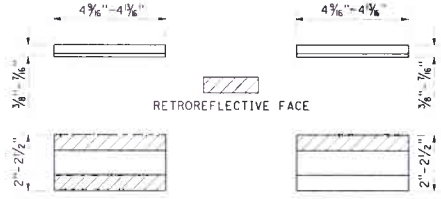








RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER



TYPE C AND TYPE D TYPE G AND TYPE H

See Notes 1 and 2.

RETROREFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION

RECESSED MARKER NOTES:

1. See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
2. The retroreflective pavement markers shown for recessed installations are not to be used for non-recessed installations.
3. The top of pavement markers installed in recesses shall be 0 to ⅛" below the pavement surface.

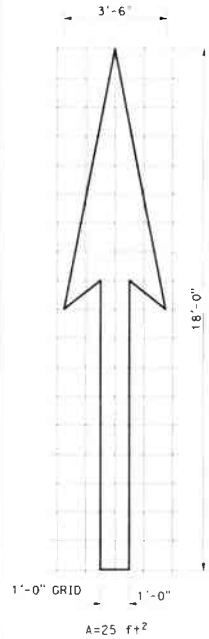
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

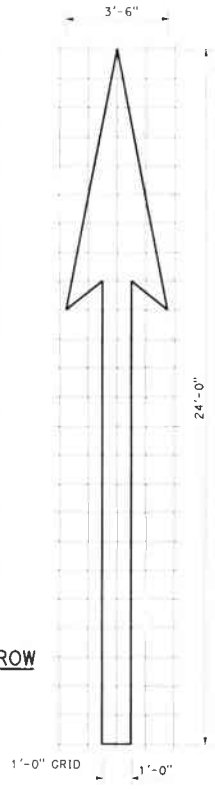
A20D

2018 STANDARD PLAN A20D



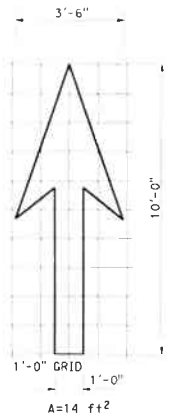
A=25 ft²

TYPE I 18'-0" ARROW



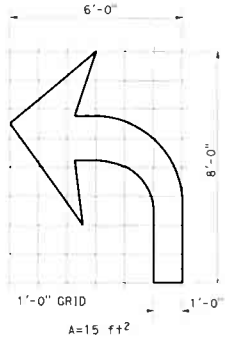
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

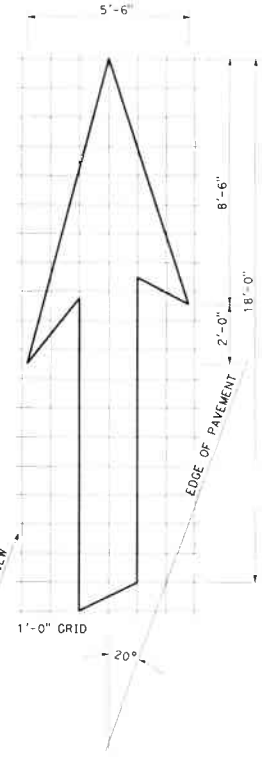
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

(For Type IV (R) arrow, use mirror image)

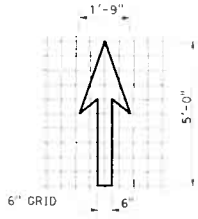


A=42 ft²

TYPE VI ARROW

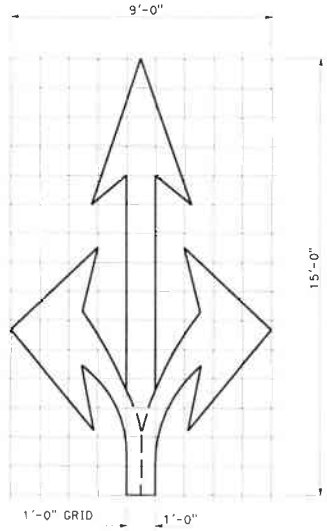
Right lane drop arrow

(For left lane, use mirror image)



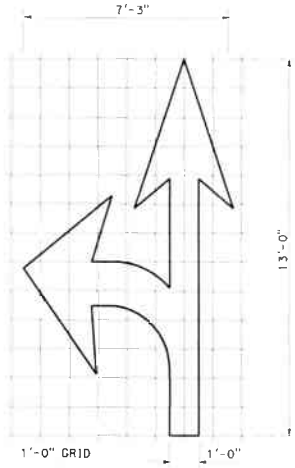
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)

NOTE:

Minor variations in dimensions may be accepted by the Engineer.

Atifa Ferouz

May 31, 2018

Atifa Ferouz
C80402
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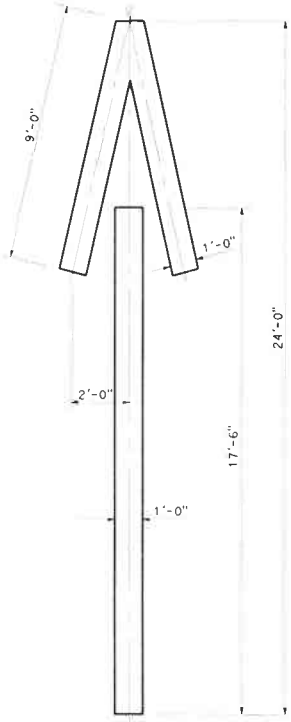


A=33 ft²

TYPE V ARROW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

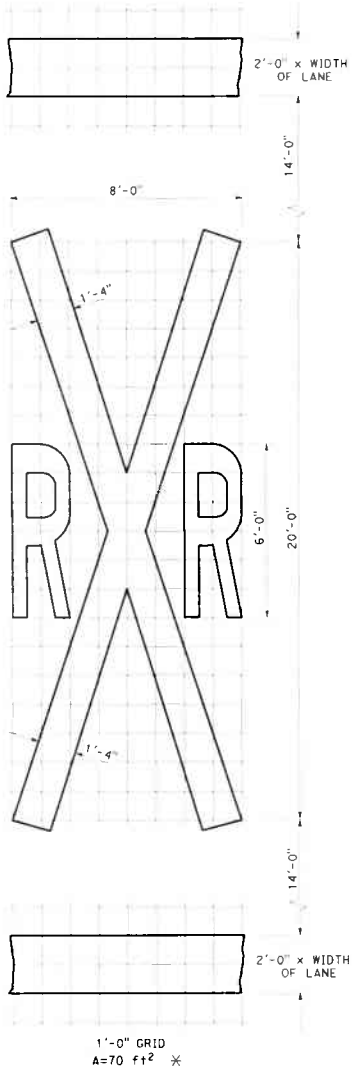
PAVEMENT MARKINGS ARROWS

NO SCALE

A24A

2018 STANDARD PLAN A24A

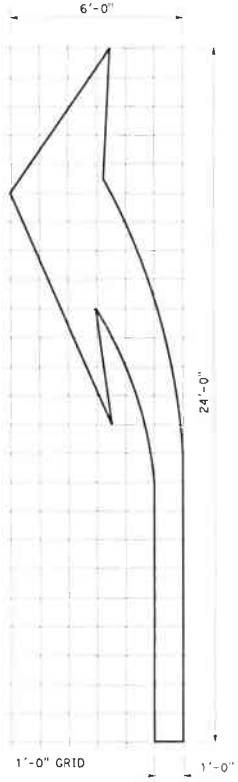
17



A=70 ft² *

RAILROAD CROSSING SYMBOL

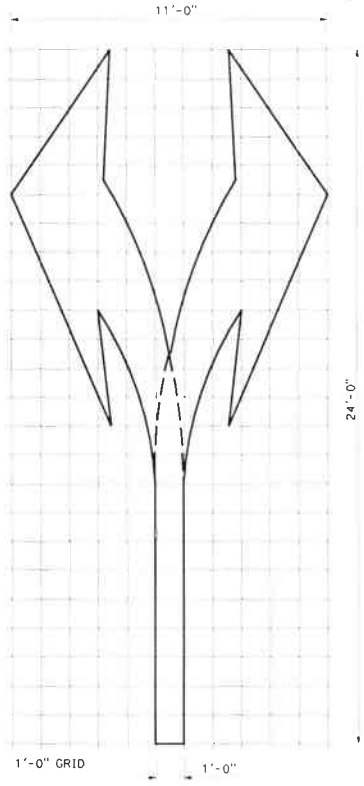
* 70 ft² does not include the 2'-0" x variable width transverse lines.



A=42 ft²

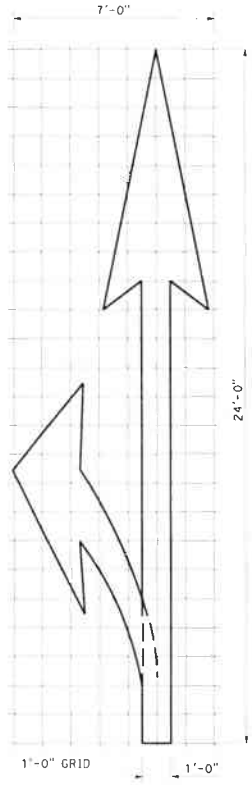
TYPE III (L) ARROW

(For Type III (R) use mirror image)



A=73 ft²

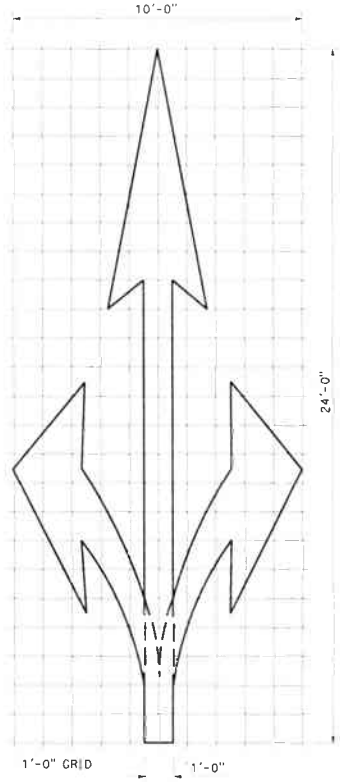
TYPE III (B) ARROW



A=45 ft²

TYPE II (L) ARROW

(For Type II (R) use mirror image)



A=59 ft²

TYPE II (B) ARROW

NOTE:

Minor variations in dimensions may be accepted by the Engineer.

Atifa Ferouz
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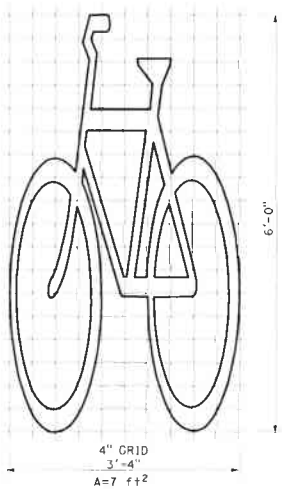
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS AND SYMBOLS

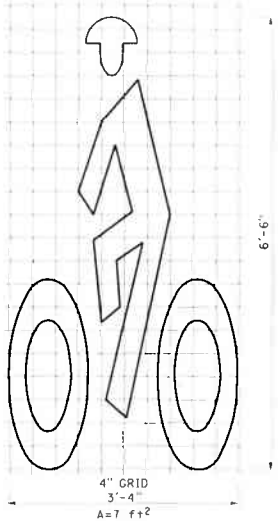
NO SCALE

A24B

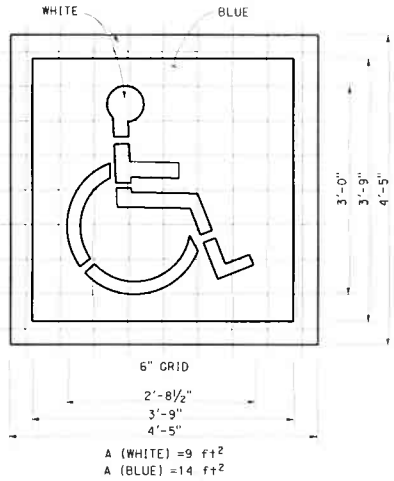
2018 STANDARD PLAN A24B



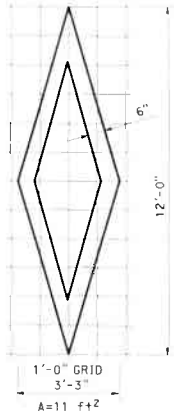
BIKE LANE SYMBOL WITHOUT PERSON



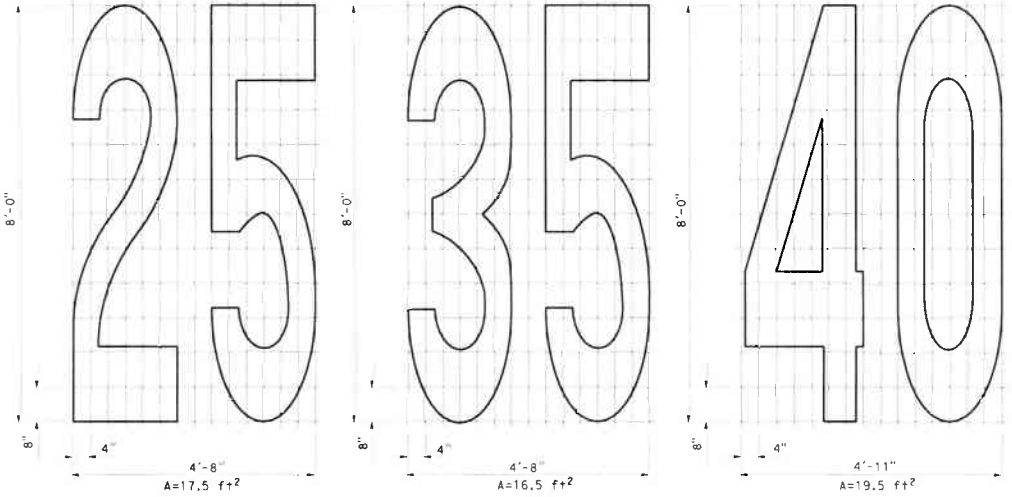
BIKE LANE SYMBOL WITH PERSON



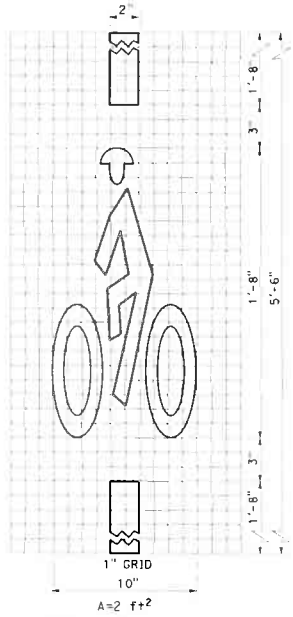
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



DIAMOND SYMBOL



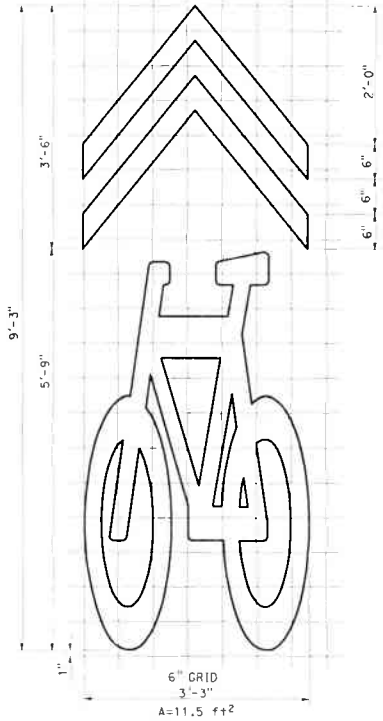
NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

NOTE:

Minor variations in dimensions may be accepted by the Engineer.



SHARED ROADWAY BICYCLE MARKING

Atifa Ferouz
May 31, 2018
Atifa Ferouz
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Exp. 3-31-19

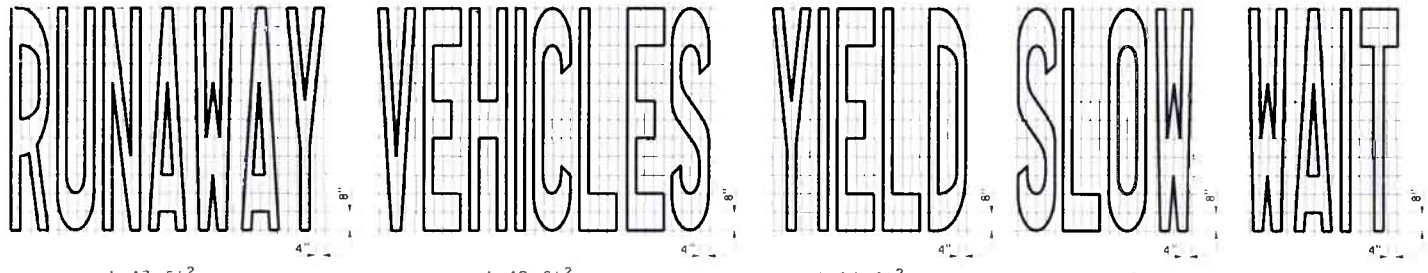
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

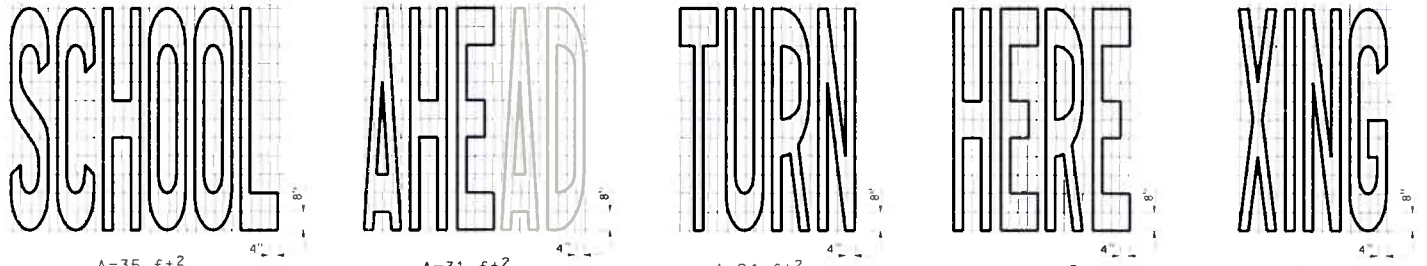
NO SCALE

A24C

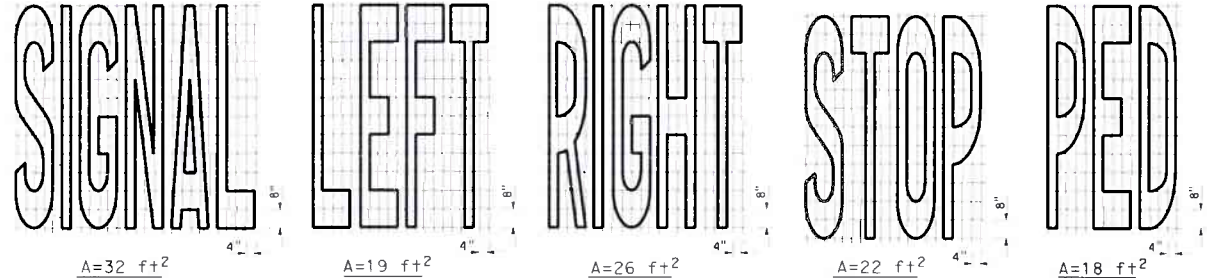
2018 STANDARD PLAN A24C



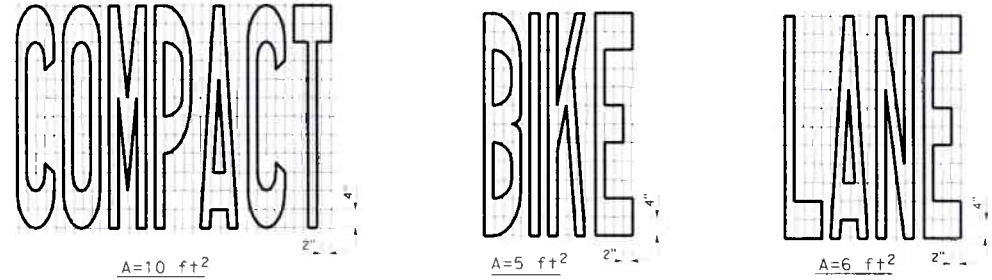
A=43 ft² A=42 ft² A=24 ft² A=23 ft² A=19 ft²



A=35 ft² A=31 ft² A=24 ft² A=26 ft² A=21 ft²



A=32 ft² A=19 ft² A=26 ft² A=22 ft² A=18 ft²



A=10 ft² A=5 ft² A=6 ft²

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NOTES:

1. If a message consists of more than one word, it must read "UP", i.e., the first word must be nearest the driver.
2. The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

WORD MARKINGS

ITEM	ft²	ITEM	ft²	ITEM	ft²	ITEM	ft²
XING	21	YIELD	24	BIKE	5	PED	18
AHEAD	31	SCHOOL	35	SLOW	23	COMPACT	10
WAIT	19	SIGNAL	32	STOP	22	RUNAWAY	43
LANE	6	TURN	24	LEFT	19	VEHICLES	42
RIGHT	26	HERE	26				

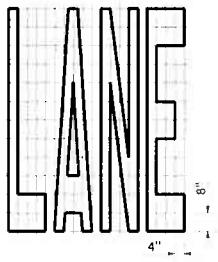
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS

NO SCALE

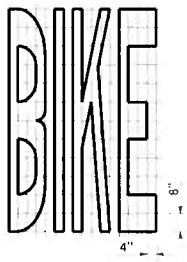
A24D

2018 STANDARD PLAN A24D

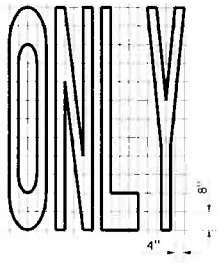


A=24 ft²

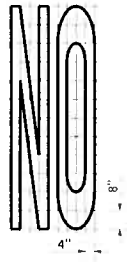
A=27 ft²



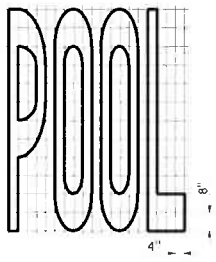
A=21 ft²



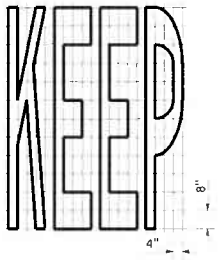
A=22 ft²



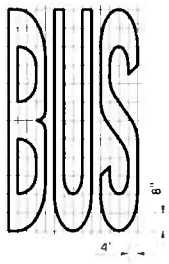
A=14 ft²



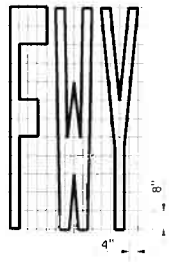
A=23 ft²



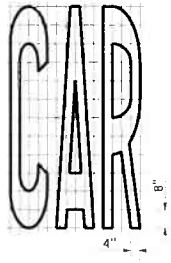
A=24 ft²



A=20 ft²



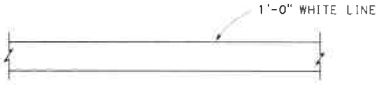
A=16 ft²



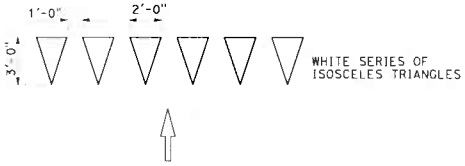
A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

A=2 ft²
See Notes 6 and 7



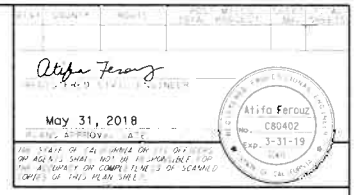
LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it must read "UP", i.e., the first word must be nearest the driver.
2. The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.



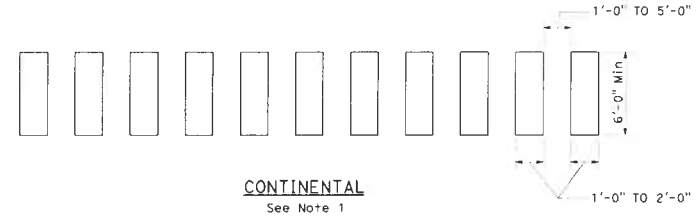
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

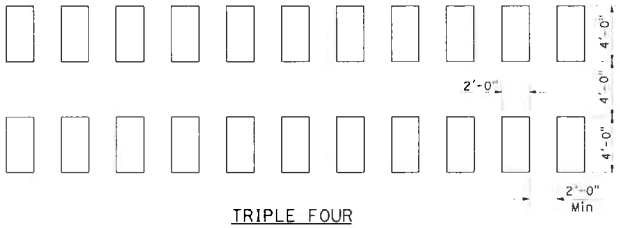
NO SCALE

A24E

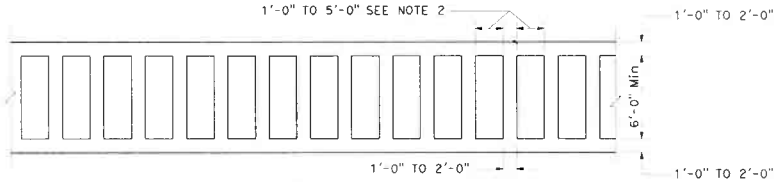
2018 STANDARD PLAN A24E



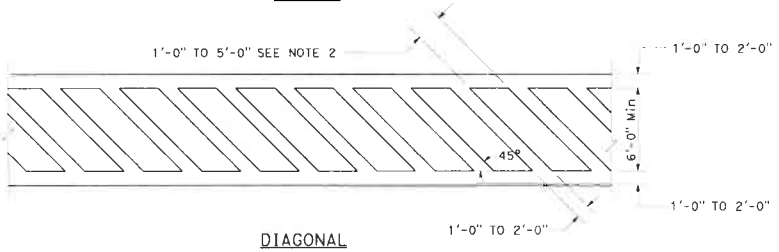
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

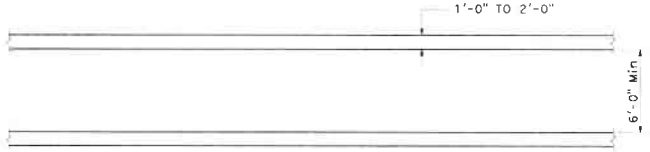


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings must be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

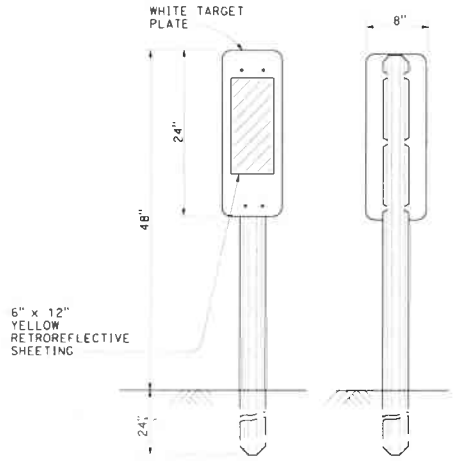
PAVEMENT MARKINGS
CROSSWALKS

NO SCALE

A24F

Atifa Ferouz
May 31, 2018
Atifa Ferouz
C80402
Exp. 3-31-19

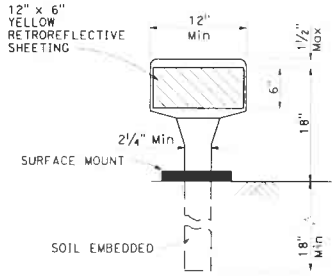
2018 STANDARD PLAN A24F



FRONT BACK

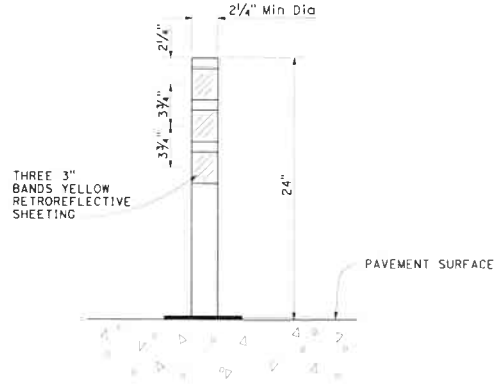
TYPE L-1 (CA)

See Note 1



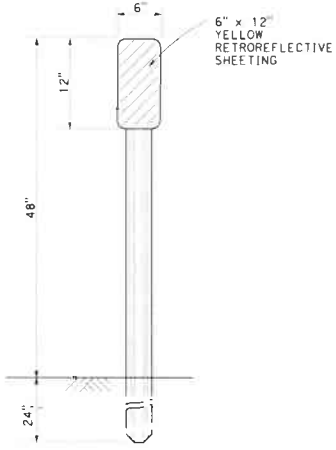
TYPE K-1 (CA)

(Flexible post with horizonal orientation of sheeting)



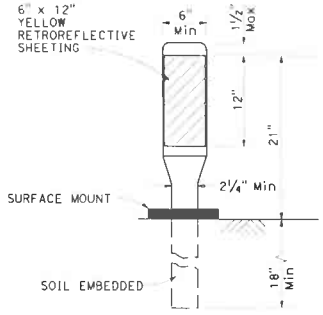
TYPE Q (CA)

(Tubular flexible post surface mount)



TYPE L-2 (CA)

See Note 1



TYPE K-2 (CA)

(Flexible post with vertical orientation of sheeting)

NOTE:

1. See Standard Plan A73B for metal post details and additional markers.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OBJECT MARKERS

NO SCALE

A73A

2018 STANDARD PLAN A73A

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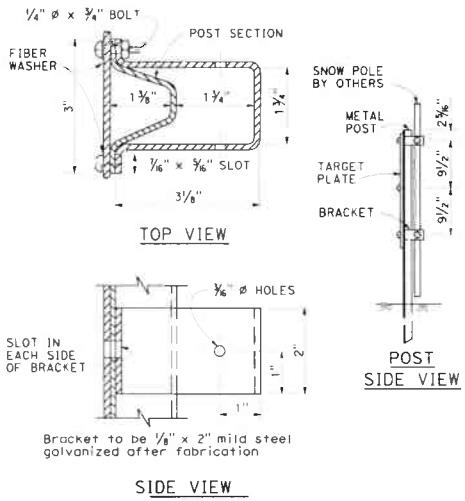
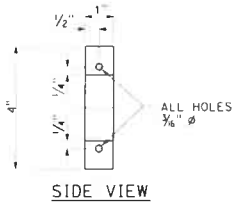
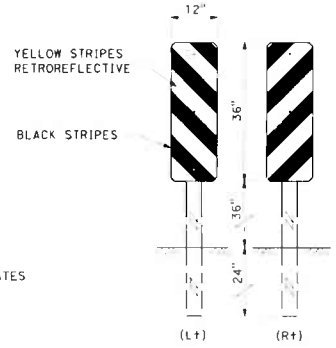


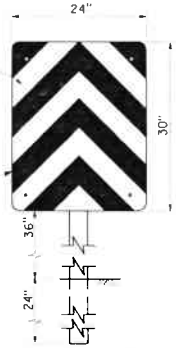
SNOW POLE BRACKET



TWO PLATE POST MOUNT



TYPE P (CA)



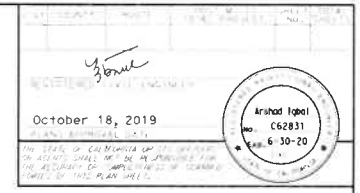
TYPE R (CA)

NOTES:

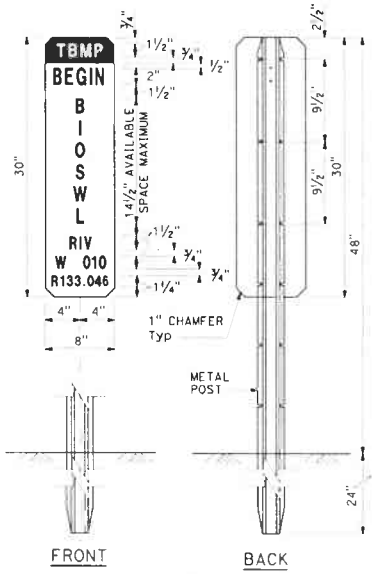
A. See Std Plan A73A for additional object markers.

B. Type P(CA) and R(CA) markers shall have orange and white retroreflective stripes in work zones.

C. Diagonal stripes on Type P(CA) markers shall be sloped down in the direction of travel.



TO ACCOMPANY PLANS DATED _____

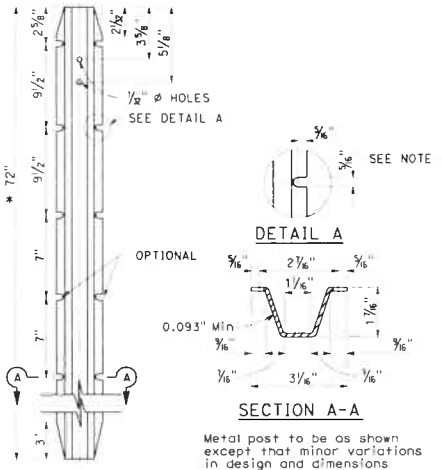


TBMP MARKER

TREATMENT BEST MANAGEMENT PRACTICE (TBMP) MARKER

NOTES:

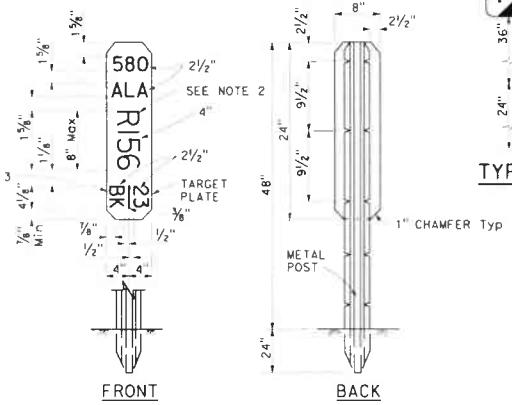
1. The marker header shall be green (non-reflective) background with white (non-reflective) Series C letters.
2. The marker body shall be white (non-reflective) target plate with black Series C numbers and letters.
3. "BEGIN" or "END" shall apply as directed by the Engineer.
4. TBMP abbreviations shall be Series D letters up to a maximum of 2" tall, to fit within the available maximum space of 14.5".
5. See Project Plans for TBMP abbreviations.



Metal post to be as shown except that minor variations in design and dimensions will be permitted to meet manufacturer's standards.

* 8'-0" for Type P object marker

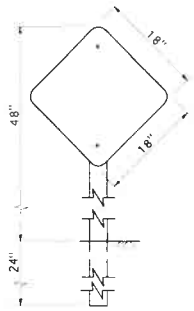
METAL POST DETAIL



MILEPOST MARKER

MILEPOST MARKER NOTES:

1. The marker shall be white (non-reflective) target plate with black Series D numerals and letters.
2. A post mile prefix, such as "R", shall apply only when directed by the Engineer.
3. "BK" (Back), "AH" (Ahead), or a blank space shall apply as directed by the Engineer.
4. All information shall be in U.S. Customary units (miles).



TYPE N-1 (CA), N-2 (CA), N-3 (CA)

N-1(CA). Yellow retroreflective.
N-2(CA). Red retroreflective.
N-3(CA). Orange retroreflective.

OBJECT MARKERS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

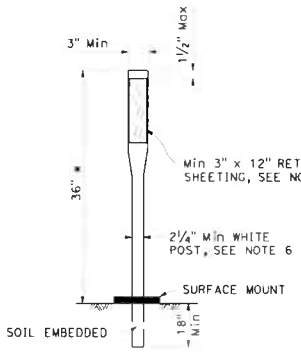
MARKERS

NO SCALE

RSP A73B DATED OCTOBER 18, 2019 SUPERSEDES RSP A73B DATED OCTOBER 19, 2018 AND STANDARD PLAN A73B DATED MAY 31, 2018 - PAGE 39 OF THE STANDARD PLANS BOOK DATED 2018.

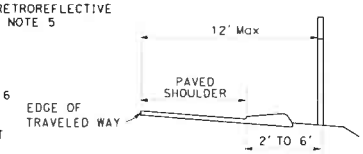
REVISED STANDARD PLAN RSP A73B

2018 REVISED STANDARD PLAN RSP A73B

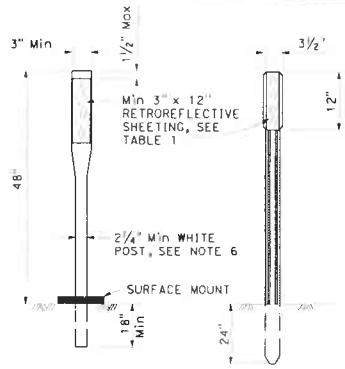


* 36" Min where speeds are 40 miles/h or less.

CHANNELIZERS



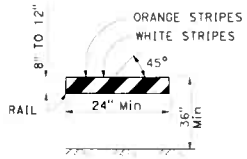
DELINEATOR POSITIONING



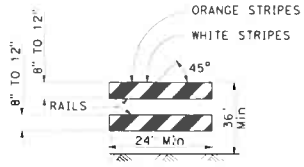
CLASS 1 FLEXIBLE POST

CLASS 2 METAL POST
See Note 4

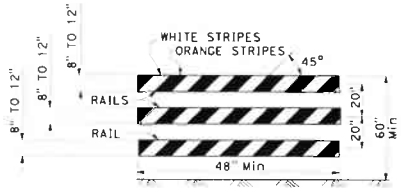
DELINEATORS



TYPE I BARRICADE
See Note A



TYPE II BARRICADE



TYPE III BARRICADE

BARRICADES (See Note 3)

Only face of rails shown. Barricade construction materials and supports as specified in the specifications.

TABLE 2 - BARRICADES

BARRICADE	TYPE I	TYPE II	TYPE III
WIDTH OF RAIL	8" Min - 12" Max *	8" Min - 12" Max *	8" Min - 12" Max *
LENGTH OF RAIL	24" Min	24" Min	48" Min
WIDTH OF STRIPES * *	6"	6"	6"
HEIGHT	36" Min	36" Min	60" Min
NUMBER OF RETROREFLECTIVE RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTION

* For the wooden option dimensions are nominal lumber dimensions.

* * For rails less than 36" long, 4" wide stripes shall be used.

NOTE A:

Barricades to have a minimum of 270 square inches of retroreflective area facing traffic when used on freeways, expressways, and other high speed highways.

Atifa Ferouz
May 31, 2018
Atifa Ferouz
No. C80402
3-31-19

TABLE 1- DELINEATORS

TYPE	RETROREFLECTIVE SHEETING	
	FRONT	BACK
E	WHITE	WHITE (SEE NOTE 1)
F	WHITE	NONE
G	YELLOW	NONE
J	RED	NONE

NOTES:

1. The retroreflective sheeting used on the back of delineator shall be a minimum size of 3" x 3".
2. The type of delineator to be installed will be designated on the plans.
3. All barricade stripes shall be retroreflective and sloped downward in the direction of the opened traffic lane.
4. See Standard Plan A73B for Metal Post Details.
5. Unless shown otherwise on the plans, or as directed by the Engineer, the color of the retroreflective sheeting for permanent channelizers shall conform to the color of the pavement markings it supplements.
6. Except, Class 1 (Flexible Post) temporary delineators and temporary channelizers in work zones shall be orange post with white retroreflective sheeting.

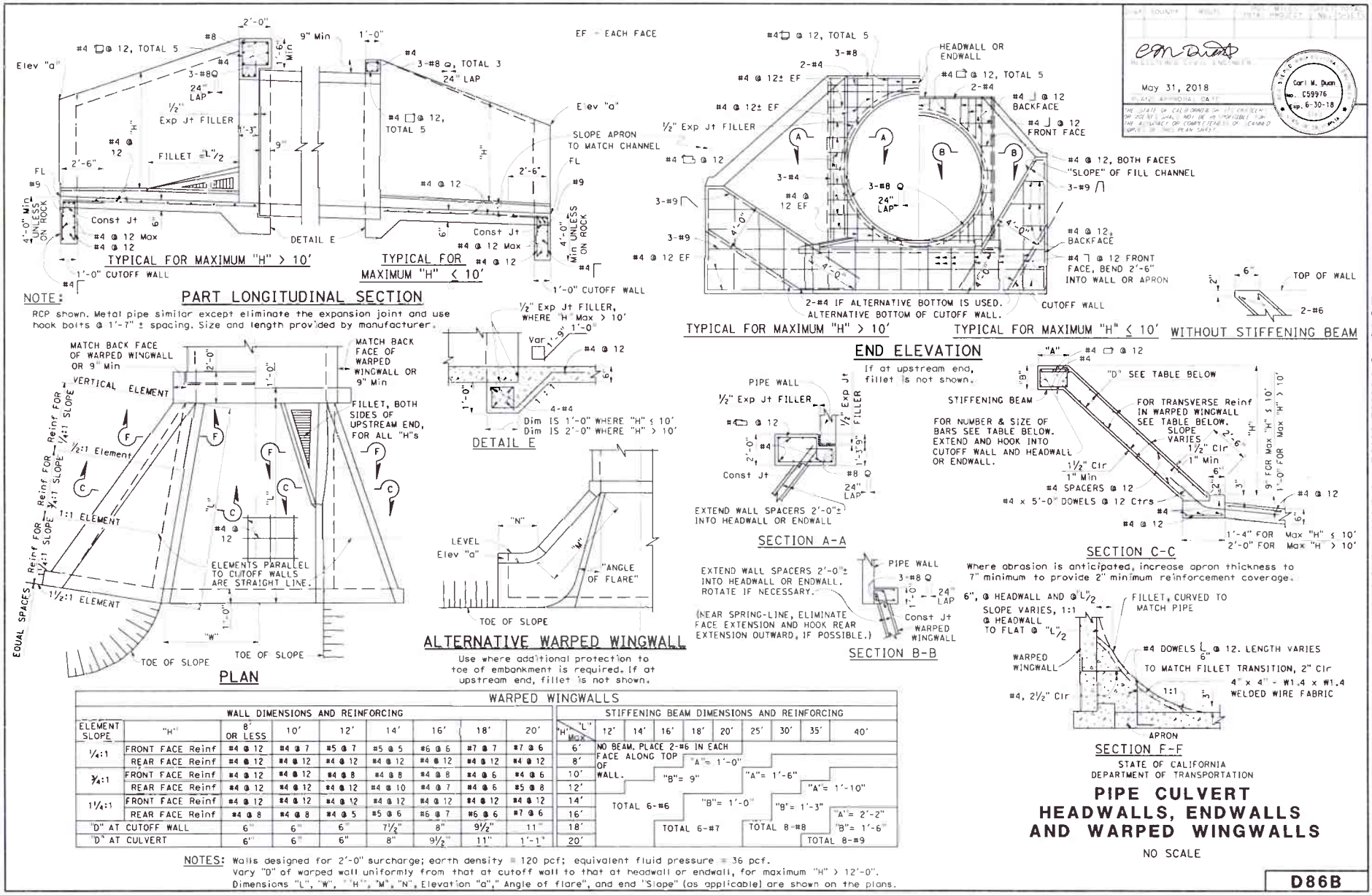
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DELINEATORS, CHANNELIZERS AND BARRICADES

NO SCALE

A73C

2018 STANDARD PLAN A73C



WARPED WINGWALLS

ELEMENT SLOPE	"H"	WALL DIMENSIONS AND REINFORCING 8' OR LESS	10'	12'	14'	16'	18'	20'
¼:1	FRONT FACE Reinf	#4 @ 12	#4 @ 7	#5 @ 7	#5 @ 5	#6 @ 6	#7 @ 7	#7 @ 6
	REAR FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
¾:1	FRONT FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 8	#4 @ 8	#4 @ 8	#4 @ 6	#4 @ 6
	REAR FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 10	#4 @ 7	#4 @ 6	#5 @ 8
1¼:1	FRONT FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
	REAR FACE Reinf	#4 @ 8	#4 @ 8	#4 @ 5	#5 @ 6	#6 @ 7	#6 @ 6	#7 @ 6
"D" AT CUTOFF WALL		6"	6"	6"	7½"	8"	9½"	11"
"D" AT CULVERT		6"	6"	6"	8"	9½"	11"	1'-1"

STIFFENING BEAM DIMENSIONS AND REINFORCING									
"H" Max	"L" 12'	14'	16'	18'	20'	25'	30'	35'	40'
6'	NO BEAM, PLACE 2-#6 IN EACH FACE ALONG TOP OF WALL.								
8'									
10'									
12'	TOTAL 6-#6								
14'									
16'									
18'									
20'									

"A" = 1'-0", "B" = 9"
"A" = 1'-6", "B" = 1'-0", TOTAL 6-#7
"A" = 1'-10", "B" = 1'-3", TOTAL 8-#8
"A" = 2'-2", "B" = 1'-6", TOTAL 8-#9

NOTES: Walls designed for 2'-0" surcharge; earth density = 120 pcf; equivalent fluid pressure = 36 pcf.
Vary "D" of warped wall uniformly from that at cutoff wall to that at headwall or endwall, for maximum "H" > 12'-0".
Dimensions "L", "W", "H", "M", "N", Elevation "a", "Angle of flare", and end "Slope" (as applicable) are shown on the plans.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PIPE CULVERT HEADWALLS, ENDWALLS AND WARPED WINGWALLS

NO SCALE

D86B

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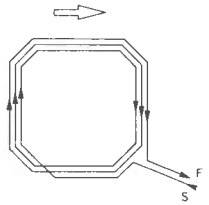
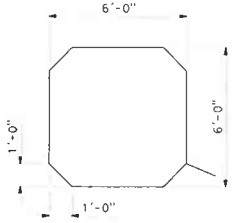
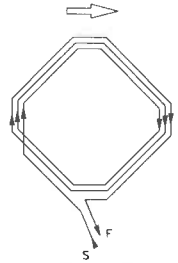


WINDING DETAIL

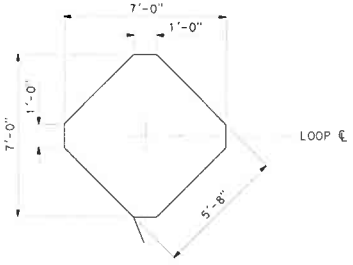


SAW CUT DETAIL

TYPE A LOOP DETECTOR CONFIGURATION

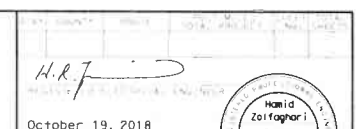


WINDING DETAIL



SAW CUT DETAIL

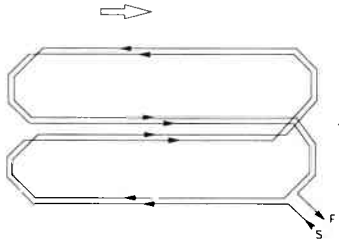
TYPE B LOOP DETECTOR CONFIGURATION



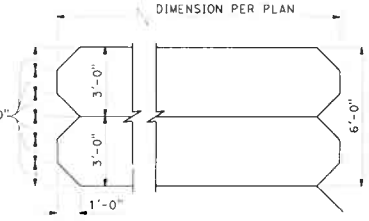
TO ACCOMPANY PLANS DATED _____

NOTES:

1. Round corners of acute angle saw cuts to prevent damage to conductors.
2. Typical distance separating loops from edge to edge is 10' for Type A, B, D, E, and F installation in single lane.
3. Use Type D and F loops for limit line detection and bicycle lanes.

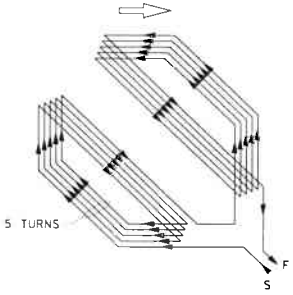


WINDING DETAIL

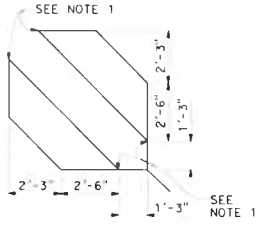


SAW CUT DETAIL

TYPE C LOOP DETECTOR CONFIGURATION



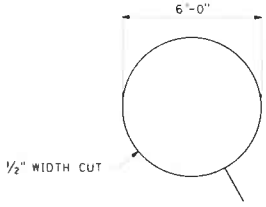
WINDING DETAIL



SAW CUT DETAIL

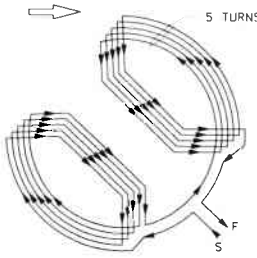
TYPE D LOOP DETECTOR CONFIGURATION

WINDING DETAIL

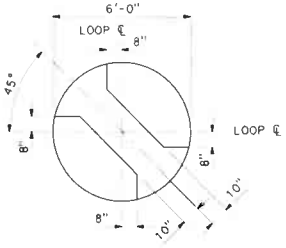


SAW CUT DETAIL

TYPE E LOOP DETECTOR CONFIGURATION

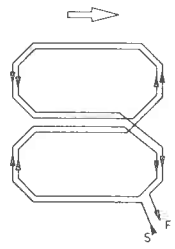


WINDING DETAIL

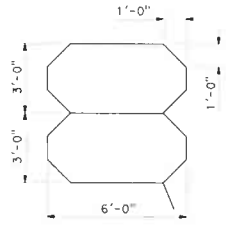


SAW CUT DETAIL

TYPE F LOOP DETECTOR CONFIGURATION

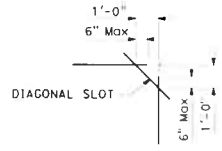


WINDING DETAIL



SAW CUT DETAIL

TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5B DATED OCTOBER 19, 2018 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 31, 2018- PAGE 505 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP ES-5B

2018 REVISED STANDARD PLAN RSP ES-5B

Appendix C

County Of Riverside
Transportation Department
Contractor Job Mix Formula Proposal

CONTRACTOR JOB MIX FORMULA PROPOSAL

FOR *HOT MIX ASPHALT*

CONTRACTOR NAME, ADDRESS, PHONE NO. & FAX NO:	CONTRACT NO. / TRACT NO. / PERMIT NO. / OTHER:
	PROJECT INFORMATION (LOCATION, NAME AND PHASE NO):

SUBMITTED BY CONTRACTOR (PRINT NAME AND SIGN):	DATE:

HOT MIX ASPHALT (HMA) TYPE:	ASPHALT BINDER, ASPHALT MODIFIER AND CRUMB RUBBER MODIFIER (CRM) SUPPLIER / ASPHALT RUBBER BINDER PRODUCER:
HMA PRODUCER NAME, ADDRESS AND PHONE NO:	
PRODUCER MIX IDENTIFICATION NUMBER / NOTES:	GRADE OF ASPHALT BINDER / NOTES:

JOB MIX FORMULA (JMF)

Sieve Size	JMF Target Value (TV) (% passing)	TV Limits (% passing)	Project Specification Limits (TV± Tolerance)
1.50"			
1.00"			
0.75"			
0.50"			
0.375"			
No. 4			
No. 8			
No. 16			
No. 30			
No. 50			
No. 100			
No. 200			
RAP percentage (dwa)			
Asphalt binder percentage (dwa)			

Aggregate sources and California Mine and SMARA identification numbers for each *bin:*

Reclaimed asphalt pavement (RAP) source:

Note to Contractor:
Please include with your submittal all supporting HMA design data.

Appendix D

State of California
Department of Transportation
Encroachment Permit

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120 (REV. 6/2012)

Permit No.	
08-21-N-MC-1398	
Dist/Co/Rte/PM	
08-RIV-74, PM 43.59	
Permit Approval Date	
12/28/2021	
Fee Paid	Deposit
$ EXEMPT	$ EXEMPT
Performance Bond Amount (1)	Payment Bond Amount (2)
$ 0.00	$ 0.00
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

☒ Your application of November 4, 2021

☐ Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: Riverside County Transportation and Land Management Agency (TLMA)
3525 14th Street,
Riverside, CA, 92501
Attn: Mike Heath 951-955-2366

, **PERMITTEE**

and subject to the following, PERMISSION IS HEREBY GRANTED to:

Enter onto State Route 74 right-of-way at Soboba Street in the County unincorporated area of Hemet, to place temporary traffic control signs to grind and overlay existing pavement, cut and reconnect replacement traffic signal loops, and to re-stripe the new pavement, as per plans date stamped December 28, 2021 and/or to the satisfaction of the Caltrans representatives.

Notwithstanding General Provision #4, your contractor is required to apply for and obtain an encroachment permit prior to start work. A fee/deposit of $2200.00 for review and inspection, approved SWPPP, copy of his payment and performance bonds and the traffic control plans are required at the time of application.

A pre-job meeting with the assigned Caltrans Representative, Payman Hatam, (909) 383-7549, (951) 312-1897, is required at least 7 days prior to start of any work under this permit. Failure to do so may result in permit revocation with no prejudice.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit *(Check applicable)*:

☒ Yes ☐ No General Provisions
☐ Yes ☒ No Utility Maintenance Provisions
☒ Yes ☐ No Storm Water Special Provisions
☒ Yes ☐ No Special Provisions
☐ Yes ☒ No A Cal-OSHA permit, if required: Permit No. _____
☐ Yes ☒ No As-Built Plans Submittal Route Slip for Locally Advertised Projects
☐ Yes ☒ No Storm Water Pollution Prevention Plan / Water Pollution Control Plan

In addition to fee, the permittee will be billed actual costs for:

☐ Yes ☒ No Review
☐ Yes ☒ No Inspection
☒ Yes ☐ No Field Work

(if any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before June 27, 2022
This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all the other necessary permits and the environmental clearances have been obtained.

PERMIT ENGINEER: Mandeep Kingra
COPIES TO:
Maintenance: Hemet
Inspector: Payman Hatam

APPROVED:

Michael D. Beauchamp, District Director

BY:

ANDY QUACH, P.E., District Permit Engineer

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FM 91 1436 (D8 Permit App.)

ENCROACHMENT PERMIT GENERAL PROVISIONS

TR – 0045 (REV. 04/2021)

1. **AUTHORITY:** The California Department of Transportation ("Department") has authority to issue encroachment permits under Division 1, Chapter 3, Article 1, Sections 660 through 734 of the Streets and Highways Code.
2. **REVOCATION:** Encroachment permits are revocable on five (5) business days' notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. Notwithstanding the foregoing, in an emergency situation as determined by the Department, an encroachment permit may be revoked immediately. These General Provisions and any applicable Special Provisions are subject to modification or abrogation by the Department at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State of California ("State") highway right-of-way may be exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay encroachment permit fees when due may result in rejection of future applications and denial of encroachment permits.
4. **ASSIGNMENT:** This encroachment permit allows only the Permittee or Permittee's authorized agent to work within or encroach upon the State highway right-of-way, and the Permittee may not assign or transfer this encroachment permit. Any attempt to assign or transfer this encroachment permit shall be null and void.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept and comply with these General Provisions, the Special Provisions, any and all terms and/or conditions contained in or incorporated into the encroachment permit, and all attachments to the encroachment permit (collectively "the Permit Conditions"), for any encroachment, work, and/or activity to be performed under this encroachment permit and/or under color of authority of this encroachment permit. Permittee understands and agrees the Permit Conditions are applicable to and enforceable against Permittee as long as the encroachment remains in, under, or over any part of the State highway right-of-way.
6. **BEGINNING OF WORK:** When traffic is not impacted (see General Provision Number 35), the Permittee must notify the Department's representative two (2) business days before starting permitted work. Permittee must notify the Department's representative if the work is to be interrupted for a period of five (5) business days or more, unless otherwise agreed upon. All work must be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this encroachment permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within State highway right-of-way must conform to all applicable Departmental construction standards including but not limited to: Standard Specifications, Standard Plans, Project Development Procedures Manual, Highway Design Manual and Special Provisions.

   Other than as expressly provided by these General Provisions, the Special Provisions, the Standard Specifications, Standard Plans, and other applicable Departmental standards, nothing in these General Provisions is intended to give any third party any legal or equitable right, remedy, or claim with respect to the encroachment permit and/or to these General Provisions or any provision herein. These General Provisions are for the sole and exclusive benefit of the Permittee and the Department.

   Where reference is made in such standards to "Contractor" and "Engineer," these are amended to be read as "Permittee" and "Department's representative," respectively, for purposes of this encroachment permit.
8. **PLAN CHANGES:** Deviations from plans, specifications, and/or the Permit Conditions as defined in General Provision Number 5 are not allowed without prior approval from the Department's representative and the Federal Highway Administration ("FHWA") representative if applicable.
9. **RIGHT OF ENTRY, INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. The United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, and other state, and federal agencies, and the FHWA, through their agents or representatives, must have full access to highway facilities/encroachment area, at any and all times for the purpose of inspection, maintenance, activities needed for construction/reconstruction, and operation of the State highway right-of-way.

   Upon completion of work, Permittee must request a final inspection for acceptance and approval by the Department. The local public agency Permittee must not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee must keep the permit package or a copy thereof at the work site at all times and must show it upon request to any Department representative or law enforcement officer. If the permit package, or a copy thereof, is not kept and made available at the work site at all times, the work must be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee must yield start of work to ongoing, prior authorized work adjacent to or within the limits of the Permittee's project site. When existing encroachments conflict with Permittee's work, the Permittee must bear all cost for rearrangements (e.g., relocation, alteration, removal, etc.).

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12. **PERMITS AND APPROVALS FROM OTHER PUBLIC AGENCIES AND/OR ENTITIES:** This encroachment permit is invalidated if the Permittee has not obtained all permits and approvals necessary and required by law, including but not limited to permits from the California Public Utilities Commission ("CPUC"), California Occupational Safety and Health Administration ("Cal-OSHA"), and any other public agency and/or entity having jurisdiction. Permittee warrants all such permits and approvals have been obtained before beginning work under this encroachment permit. The Department may, at the Department's discretion, require the Permittee to demonstrate that Permittee has obtained all such permits/approvals, and Permittee shall demonstrate this at the time and in the manner specified by the Department.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe continuous passageway must be maintained through the work area at existing pedestrian or bicycle facilities. At no time must pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades must be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.04 "Public Safety," and to Section 12-4.04 "Temporary Pedestrian Access Routes," and to Section 16-2.02 "Temporary Pedestrian Facility," of the Department's Standard Specifications, and to California Vehicle Code section 21760, subdivision (c).
14. **PUBLIC TRAFFIC CONTROL:** The Permittee must provide traffic control protection, warning signs, lights, safety devices, etc., and take all other measures necessary for the traveling public's safety as required by law and/or the Department. While providing traffic control, the needs of all road users, including but not limited to motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act, must be an essential part of the work activity.

    Lane, Bike Lane, Sidewalk, Crosswalk, and/or shoulder closures must comply with the Department's Standard Specifications and Standard Plans for Temporary Traffic Control Systems & Temporary Pedestrian Access Routes, and with the applicable Special Provisions. Where issues are not addressed in the Standard Specifications, Standard Plans, and/or Special Provisions, the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control) must be followed.
15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee must plan and conduct work so as to create the least possible inconvenience to the traveling public (motorized vehicles, unmotorized vehicles such as bicycles, pedestrians, person(s) with disabilities, etc.), such that traffic is not unreasonably delayed.
16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this encroachment permit. If encroachment permit Special Provisions allow for the storage of equipment or materials within the State highway right-of-way, the equipment and material storage must also comply with Section 7-1.04, Public Safety, of the Department's Standard Specifications.
17. **CARE OF DRAINAGE:** Permittee must provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Department's Standard Specifications, Standard Plans, and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN STATE HIGHWAY RIGHT-OF-WAY:** Permittee is responsible for restoration and repair of State highway right-of-way resulting from permitted work (Streets and Highways Code, section 670 et seq.).
19. **STATE HIGHWAY RIGHT-OF-WAY CLEAN UP:** Upon completion of work, Permittee must remove and dispose of all scraps, refuse, brush, timber, materials, etc. off the State highway right-of-way. The aesthetics of the highway must be as it was before work started or better.
20. **COST OF WORK:** Unless stated otherwise in the encroachment permit or a separate written agreement with the Department, the Permittee must bear all costs incurred for work within the State highway right-of-way and waives all claims for indemnification or contribution from the United States, the State, the Department, and from the Directors, officers, and employees of the State and/or the Department. Removal of Permittee's personal property and improvements shall be at no cost to the United States, the State, and the Department.
21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the Permittee actual costs at the currently set Standard Hourly Rate for encroachment permits.
22. **AS-BUILT PLANS:** When required, Permittee must submit one (1) set of folded as-built plans within thirty (30) calendar days after completion and acceptance of work in compliance with requirements listed as follows:
    a) Upon completion of the work provided herein, the Permittee must submit a paper set of As-Built plans to the Department's representative.
    b) All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
    c) The plans are to be prominently stamped or otherwise noted "AS-BUILT" by the Permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a Department stamp, or by signature of the Department's representative, must be used for producing the As-Built plans.
    d) If construction plans include signing or striping, the dates of signing or striping removal, relocation, or installation must be shown on the As-Built plans when required as a condition of the encroachment permit. When the construction plans show signing and striping for staged construction on separate sheets,

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the sheet for each stage must show the removal, relocation, and installation dates of the appropriate staged striping and signing.

e) As-Built plans must contain the Encroachment Permit Number, County, Route, and Post Mile on each sheet.

f) The As-Built Plans must not include a disclaimer statement of any kind that differs from the obligations and protections provided by sections 6735 through 6735.6 of the California Business and Professions Code. Such statements constitute non-compliance with Encroachment Permit requirements and may result in the Department retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future encroachment permits or a provision requiring a public agency to supply additional bonding.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the State highway right-of-way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt encroachment permit is issued to the Permittee for the purpose of providing a notice and record of work. The Permittee's prior rights must be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" must be stamped across the face of the encroachment permit.

24. **BONDING:** The Permittee must file bond(s), in advance, in the amount(s) set by the Department and using forms acceptable to the Department. The bonds must name the Department as obligee. Failure to maintain bond(s) in full force and effect will result in the Department stopping all work under this encroachment permit and possibly revoking other encroachment permit(s). Bonds are not required of public corporations or privately-owned utilities unless Permittee failed to comply with the provisions and/or conditions of a prior encroachment permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedure section 337.15. A local public agency Permittee also must comply with the following requirements:

a) In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local public agency Permittee agrees to require the construction contractor to furnish both a payment and performance bond in the local public agency's name with both bonds complying with the requirements set forth in Section 3-1.05 Contract Bonds of the Department's Standard Specifications before performing any project construction work.

b) The local public agency Permittee must defend, indemnify, and hold harmless the United States, the State and the Department, and the Directors, officers, and employees of the State and/or Department, from all project construction related claims by contractors, subcontractors, and suppliers, and from all stop notice and/or mechanic's lien claimants. The local public agency also agrees to remedy, in a timely manner and to the Department's satisfaction, any latent defects occurring as a result of the project construction work.

25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the Permittee must comply with said notice at the Permittee's sole expense.

26. **ENVIRONMENTAL:**

a) ARCHAEOLOGICAL/HISTORICAL: If any archaeological or historical resources are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified archaeologist who must evaluate the site at Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.

b) HAZARDOUS MATERIALS: If any hazardous waste or materials (such as underground storage tanks, asbestos pipes, contaminated soil, etc.) are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified hazardous waste/material specialist who must evaluate the site at the Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.

Attention is directed to potential aerially deposited lead (ADL) presence in unpaved areas along highways. It is the Permittee's responsibility to take all appropriate measures to protect workers in conformance with California Code of Regulations Title 8, Section 1532.1, "Lead," and with Cal-OSHA Construction Safety Orders, and to ensure roadway soil management is in compliance with Department of Toxic Substances Control (DTSC) requirements.

c) Biological: If any regional, state, or federally listed biological resource is identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified biologist who must evaluate the site at Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.

27. **PREVAILING WAGES:** Work performed by or under an encroachment permit may require Permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the California Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements must be directed to the California Department of Industrial Relations.

28. **LIABILITY, DEFENSE, AND INDEMNITY:** The Permittee agrees to indemnify and save harmless the United States, the State, the Department, and the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director

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of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind, and description, including but not limited to those brought for or on account of property damage, invasion of privacy, violation or deprivation of a right under a state or federal law, environmental damage or penalty, or injury to or death of any person including but not limited to members of the public, the Permittee, persons employed by the Permittee, and/or persons acting on behalf of the Permittee, arising out of or in connection with: (a) the issuance and/or use of this encroachment permit; and/or (b) the encroachment, work, and/or activity conducted pursuant to this encroachment permit, or under color of authority of this encroachment permit but not in full compliance with the Permit Conditions as defined in General Provision Number 5 ("Unauthorized Work or Activity"); and/or (c) the installation, placement, design, existence, operation, and/or maintenance of the encroachment, work, and/or activity; and/or (d) the failure by the Permittee or anyone acting on behalf of the Permittee to perform the Permittee's obligations under any part of the Permit Conditions as defined in General Provision Number 5, in respect to maintenance or any other obligation; and/or (e) any change to the Department's property or adjacent property, including but not limited to the features or conditions of either of them, made by the Permittee or anyone acting on behalf of the Permittee; and/or (f) a defect or obstruction related to or caused by the encroachment, work, and/or activity whether conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constituting Unauthorized Work or Activity, or from any cause whatsoever. The duty of the Permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code.

It is the intent of the parties that except as prohibited by law, the Permittee will defend, indemnify, and hold harmless as set forth in this General Provision Number 28 regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of: the United States, the State; the Department; the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors; the Permittee; persons employed by the Permittee; and/or persons acting on behalf of the Permittee.

The Permittee waives any and all rights to any type of expressed or implied indemnity from or against the United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors.

The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the encroachment, work, and/or activity whether conducted pursuant to this encroachment permit or constituting Unauthorized Work or Activity, and further agrees to defend, indemnify, and save harmless the United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, penalties, liability, suits, or actions of every name, kind, and description arising out of or by virtue of the Americans with Disabilities Act.

The Permittee understands and agrees the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, are not personally responsible for any liability arising from or by virtue of this encroachment permit.

For the purpose of this General Provision Number 28 and all paragraphs herein, "contractors of the State and/or of the Department" includes contractors, and their subcontractors, under contract to the State and/or the Department.

This General Provision Number 28 and all paragraphs herein take effect immediately upon issuance of this encroachment permit, and apply before, during, and after the encroachment, work, and/or activity contemplated under this encroachment permit, whether such work is in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, except as otherwise provided by California law. The Permittee's obligations to defend, indemnify, and save harmless under this General Provision Number 28 take effect immediately upon issuance of this encroachment permit and have no expiration date, including but not limited to situations in which this encroachment permit expires or is revoked, the work or activity performed under this encroachment permit is accepted or not accepted by the Department, the encroachment, work, and/or activity is conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, and/or no work or activity is undertaken by the Permittee or by others on the Permittee's behalf.

If the United States or an agency, department, or board of the United States is the Permittee, the first two paragraphs of this General Provision Number 28 (beginning "The Permittee agrees to indemnify..." and "It is the intent of the parties...") are replaced by the following paragraph:

Claims for personal injury, death, or property damage allegedly caused by the negligent or wrongful act or omission of any employee of the United States acting within the scope of their official duties are subject to the Federal Tort Claims Act, as amended, 28 U.S.C. § 1346 and § 2671 et seq. (Chapter 171).

29. **NO PRECEDENT ESTABLISHED:** This encroachment permit is issued with the understanding that it does not establish a precedent.
30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**

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a) As part of the consideration for being issued this encroachment permit, the Permittee, on behalf of Permittee and on behalf of Permittee's personal representatives, successors in interest, and assigns, does hereby covenant and agree that:
   i) No person on the grounds of race, color, or national origin may be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
   ii) That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination must be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
   iii) That such discrimination must not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the State highway right-of-way.
   iv) That the Permittee must use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.

b) That in the event of breach of any of the above nondiscrimination covenants, the State and the Department have the right to terminate this encroachment permit and to re-enter and repossess said land and the facilities thereon and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE:** The Permittee is responsible at Permittee's sole expense for the encroachment, and the inspection, maintenance, repair, and condition thereof, so that it does not negatively impact State highway safety, maintenance, operations, construction, activities needed for construction/reconstruction, State facilities, or other encroachments. Additional permits or approval documents may be required authorizing additional work related to inspection, repair, and/or maintenance activities.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code section 682.5 and 682.7, the Department is not responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the United States, the State, the Department, and the Directors, officers, employees, agents, and contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of any activity for which this encroachment permit is issued.

The Permittee is required, as a condition of this encroachment permit, for any event that awards prize compensation to competitors in gendered categories, for any participant level that receives prize compensation, to ensure the prize compensation for each gendered category is identical at each participant level. (Streets and Highways Code, section 682.7.)

The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the event, and further agrees to defend, indemnify, and save harmless the United State, the State and the Department, and the Directors, officers, and employees of the State and/or Department, including but not limited to the Director of the Department and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of or by virtue of the Americans with Disabilities Act.

33. **PRIVATE USE OF STATE HIGHWAY RIGHT-OF-WAY:** State highway right-of-way must not be used for private purposes without compensation to the State. The gifting of public property uses and therefore public funds is prohibited under the California Constitution, Article XVI, Section 6.
34. **FIELD WORK REIMBURSEMENT:** Permittee must reimburse the Department for field work performed on Permittee's behalf to correct or remedy hazards or damaged facilities, or to clear refuse, debris, etc. not attended to by the Permittee.
35. **LANE CLOSURE REQUEST SUBMITTALS AND NOTIFICATION OF CLOSURES TO THE DEPARTMENT:** Lane closure request submittals and notifications must be in accordance with Section 12-4.02, and Section 12.4-04, of the Department's Standard Specifications or as directed by the Department's representative. The Permittee must notify the Department's representative and the Traffic Management Center ("TMC") before initiating a lane closure or conducting an activity that may cause a traffic impact. In emergency situations when the corrective work or the emergency itself may affect traffic, the Department's representative and the TMC must be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The Permittee, upon notification by the Department's representative, must immediately suspend all traffic lane, bike lane, sidewalk, crosswalk, and/or shoulder closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension must be borne by the Permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code section 4216 et seq., including but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The Permittee must provide notification to the Department representative at least five (5) business days before, and the regional notification center at least forty-

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eight (48) hours before, performing any excavation work within the State highway right-of-way.

38. **COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA):** All work within the State highway right-of-way to construct and/or maintain any public facility must be designed, maintained, and constructed strictly in accordance with all applicable Federal Access laws and regulations (including but not limited to Section 504 of the Rehabilitation Act of 1973, codified at 29 U.S.C. § 794), California Access laws and regulations relating to ADA, along with its implementing regulations, Title 28 of the Code of Federal Regulations Parts 35 and 36 (28 C.F.R., Ch. I, Part 35, § 35.101 et seq., and Part 36, § 36.101 et seq.), Title 36 of the Code of Federal Regulations Part 1191 (36 C.F.R., Ch. XI, Part 1191, § 1119.1 et seq.), Title 49 of the Code of Federal Regulations Part 37 (49 C.F.R., Ch. A, Part 37, § 37.1 et seq.), the United States Department of Justice Title II and Title III for the ADA, and California Government Code section 4450 et seq., which require public facilities be made accessible to persons with disabilities.

    Notwithstanding the requirements of the previous paragraph, all construction, design, and maintenance of public facilities must also comply with the Department's Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects" and Standard Plans & Specifications on "Temporary Pedestrian Access Routes."

39. **STORMWATER:** The Permittee is responsible for full compliance with the following:
    a) For all projects, the Department's Storm Water Program and the Department's National Pollutant Discharge Elimination System (NPDES) Permit requirements under Order No. 2012-0011-DWQ, NPDES No CAS000003; and
    b) In addition, for projects disturbing one acre or more of soil, with the California Construction General Permit Order No. 2009-0009-DWQ, NPDES No CAS000002; and
    c) In addition, for projects disturbing one acre or more of soil in the Lahontan Region with Order No. R6T-2016-0010, NPDES No CAG616002.
    d) For all projects, it is the Permittee's responsibility to install, inspect, repair, and maintain all facilities and devices used for water pollution control practices (Best Management Practices/BMPs) before performing daily work activities.

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STORMWATER SPECIAL PROVIONS FOR MINIMAL OR NO IMPACT (SWSP)

TR-0400 (Rev 05/2018)

1. **GENERAL:** The purpose of these Special Provisions is to provide the Permittee with specifications for water pollution control to minimize, prevent, or control the discharge of material into the air, surface waters, groundwater, and storm sewers owned by the State or local agencies. These provisions are not intended to take the place of the Caltrans Water Pollution Control Program (WPCP) for projects where soil disturbance from work activities less than one acre, or work activities of one acre or more subject to the preparation of the Caltrans Storm Water Pollution Prevention Plan (SWPPP). The Permittee must comply with the following Special Provisions and the direction of the State Representative. All Stormwater Best Management Practices (BMPs) must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.
2. **NPDES REQUIREMENTS:** The Permittee must be responsible for full compliance with the Caltrans Storm Water Program and the Caltrans National Pollutant Discharge Elimination System (NPDES) Permit requirements (*Order No. 2012-0011-DWQ, NPDES No CAS000003*) and for and projects disturbing one acre or more of soil, full compliance with the California Construction General Permit *(Order No. 2009-0009-DWQ, NPDES No CAS000002)* or for projects for projects that have one acre or more of soil disturbance in the Lahontan Region *(Order No. R6T-2016-0010, NPDES No CAG616002)*. It is the Permittee's responsibility to install, inspect, and repair or maintain facilities and devices used for water pollution control practices (BMPs) before performing daily work activities. Installation, inspection and maintenance responsibilities on the job site include: 1) soil stabilization materials in work areas that are inactive or prior to storm events, 2) water pollution control devices to control sediment and erosion, 3) implementation of spill and leak prevention procedures for chemical and hazardous substances stored on the job site, 4) material storage, 5) stockpile management, 6) waste management, 7) non-stormwater management, 8) water conservation, 9) tracking controls and 10) illicit connection, illegal discharge detection and reporting. The Permittee must report to the State representative when discharges enter into receiving waters, adjacent property, drainage systems or when discharges could be a cause or a threat for water pollution. The Permittee must also control illicit discharges or illegal dumping prior to start of daily work schedule. Copies of written notices or orders from the Regional Water Quality Control Board or other regulatory agency must be provided to the State representative within 48 hours of reported activity. For additional information on stormwater compliance, visit the State Water Resources Control Boards storm water Website at:

   http://www.waterboards.ca.gov/water_issues/programs/stormwater

3. **RESPONSIBILITY FOR DEBRIS REMOVAL:** The Permittee must be responsible for preventing sediment, trash, debris, and other construction waste from entering the street, the storm drains, local creeks, or any other bodies of water.
4. **SPOILS AND RESIDUE:** The Permittee must vacuum any saw-cut concrete waste material, debris, residue, etc. No spoils, debris, residue, etc. must be washed into a drainage system.
5. **SWEEPING:** Sweep paved roads at construction entrance and exit locations and surrounding paved areas daily within the job site during: 1) clearing and grubbing, 2) earthwork, 3) trenching, 4) soil disturbance, 5) pavement grinding and/or cutting, and 6) after observing tracking of material onto or off the State property. Keep dust to a minimum during sweeping activities. Use vacuum whenever dust generation is excessive or sediment pickup is ineffective.

   Roadways or work areas must not be washed down with water. Street sweeping operations must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.
6. **VEHICLES AND EQUIPMENT:** Permittee must prevent all vehicles, equipment, etc. from leakage or mud tracking onto roadways. If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.
7. **MAINTENANCE AND FUELING OF VEHICLES AND EQUIPMENT:** Maintenance and fueling of equipment must not result in any pollution at the job site. The Permittee must immediately clean up spills/leaks, and properly dispose of contaminated soil and materials.
8. **CLEANING VEHICLES AND EQUIPMENT:** Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. The Permittee must clean all equipment within a bermed area or over a drip pan large enough to prevent run-off. No soaps, solvents, degreasers, etc. must be used in State right-of-way. Any water from this operation must be collected and disposed of at an appropriate site. Containment berms or dikes must be used for fueling, washing, maintaining and washing vehicles or equipment in outside areas. Containment must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain. Keep adequate quantities of absorbent spill- cleanup material and spill kits in the fueling or maintenance area and on fueling trucks.
9. **DIESEL FUELS:** The use of diesel fuel from petroleum or other fossil fuel as a form-oil or solvent is not allowed.
10. **WEATHER CONDITIONS AT WORKSITE:** Any activity that would generate fine particles or dust that could be transported off site by stormwater must be performed during dry weather.
11. **WIND EROSION PROTECTION:** The use of Wind Erosion BMPs must be deployed year-round in instances where dust or fine particles could be transported off site.
12. **HOT MIX ASPHALT:** Runoff from washing hot mix asphalt must not enter into any drainage conveyances.
13. **PROTECTION OF DRAINAGE FACILITIES:** The Permittee must protect/cover gutters, ditches, drainage courses, and inlets with gravel bags, fiber rolls, State approved fabric filters, etc., to the satisfaction of the State representative during grading, paving, saw-cutting, etc. and materials must conform to Section 13-6.02 Materials for Water Pollution Control of Caltrans' Standard Specifications. No such protection measures must cause an obstruction to the traveling public. The Permittee must implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site (including secondary containment requirements) in accordance to section 13-4.03B Spill Prevention and Control, and 14-11 Hazardous Waste and Contamination, Water Pollution Control of Caltrans' Standard Specifications.
14. **PAINT:** Rinsing of painting equipment and materials is not permitted in State right-of-way. When thoroughly dry, dispose of

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the following as solid waste: dry latex paint, paint cans, used brushes, rags, gloves, absorbent materials, and drop cloths. Oil based paint sludge and unusable thinner must be disposed of at an approved hazardous waste site.

15. **CONSTRUCTION MATERIALS:** Stockpile of all construction materials, including, but not limited to: pressure treated wood, asphalt concrete, cold mix asphalt concrete, concrete, grout, cement containing premixes, and mortar, must conform to section 13-4.03C (2) Material Storage & 13-4.03C (3) Stockpile Management of Caltrans' Standard Specifications.
16. **CONCRETE EQUIPMENT:** Concrete equipment must be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.
17. **EXISTING VEGETATION:** Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation must be replaced as directed by the State Representative.
18. **SOIL DISTURBANCE:** Soil disturbing activities must be avoided during the wet weather season. If construction activities during wet weather are allowed in your permit, all necessary erosion control and soil stabilization measures must be implemented in advance of soil disturbing activity.
19. **SLOPE STABILIZATION AND SEDIMENT CONTROL:** Consider a certified expert in Erosion and Sediment control in cases where slopes are disturbed during construction. The Permittee is directed to comply with Section 13.5 Temporary Soil Stabilization and Section 21 Erosion Control of Caltrans' Standard Specifications during application of temporary soil stabilization measures to the soil surface. Fiber rolls or silt fences may be required down slope until permanent soil stabilization is established. Remove the accumulated sediment whenever the sediment accumulates to 1/3 of the linear sediment barrier height. The Permittee must limit the use of plastic materials when more sustainable, environmentally friendly alternatives exist or when environmental regulations prohibit their use within the project.
20. **STOCKPILES:** Stockpiles containing aggregate and/or soil must be stored at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain, and must be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles must be stored on an impermeable surface and covered with 9 mil plastic to prevent contact with water. Minimize stockpiling of materials on the job site. Manage stockpiles by implementing the water pollution control practices in Section 13-4.03C (3) Stockpile Management of the State of California standard specifications for construction.
21. **DISCOVERY OF CONTAMINATION:** The State Representative must be notified in case any unusual discoloration, odor, or texture of ground water, is found in excavated material or if abandoned, underground tanks, pipes, or buried debris are encountered.
22. **SANITARY AND SEPTIC WASTE:** Do not bury or discharge wastewater from a sanitary or septic system within the highway. Properly connected sewer facilities are free from leaks. With State Representative approval place portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines. Permittee must comply with local health agency provisions when using an on-site disposal system.
23. **LIQUID WASTE:** Prevent job site liquid waste from entering storm drain systems and receiving waters. Drilling slurries, grease or oil-free waste water or rinse water, dredging, wash water or rinse water running off a surface or other non-storm water liquids not covered under separate waste water permits must be held in structurally sound, leak-proof containers, such as portable bins or portable tanks. Store containers at least 50 feet away from moving vehicles and equipment. Liquid waste may require testing to determine hazardous material content prior to disposal. All measures must conform to section 13-4.03D (5) Liquid Waste, Water Pollution Control of Caltrans' Standard Specifications.
24. **WATER CONTROL AND CONSERVATION:** Manage water use in a way that will prevent erosion and the discharge of pollutants into storm drain systems and receiving waters. Direct runoff, including water from water line repair from the job site to areas where it can infiltrate into the ground. Direct water from off-site sources around the job site or from contact with jobsite runoff.
25. **PILE DRIVING:** Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans, absorbent pads, or plastic sheeting with absorbent material, and away from stormwater run-on when not in use.
26. **DEWATERING:** Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations must comply with the latest Caltrans guidelines including the Field Guide for Construction Site Dewatering. Contact State representative for approval of dewatering discharge by infiltration or evaporation, otherwise, any effluent discharged into a permitted storm water system requires approval from the Regional Water Quality Control Board. Prior to the start of dewatering, the Permittee must provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.03G Dewatering, Water Pollution Control of Caltrans' Standard Specifications. A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board must be provided to the State representative.

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PAGE 1: ATTACHED TO AND MADE PART OF PERMIT NO. 08-21-N-MC-1398

In addition to the attached General Provisions, the following checked special provisions are applicable:

☒A PRE-JOB MEETING WITH THE ASSIGNED CALTRANS REPRESENTATIVE, Payman Hatam, (951) 312-1897 AT LEAST 7 DAYS IS REQUIRED PRIOR TO START OF ANY WORK UNDER THIS PERMIT. FAILURE TO DO SO WILL RESULT IN PERMIT CANCELLATION AND RESUBMITTAL MAY BE REQUIRED.

☒Notwithstanding General Provision #4, your contractor is required to apply for and obtain an encroachment permit prior to starting work. A fee/deposit of $ 2200 for inspection, and $ N/A for electrical equipment is required at the time of application.

☒You are required to submit an approved Storm Water Pollution Prevention Plan (SWPPP) for projects with a cumulative disturbed soil area equal or greater than 1 acre, and an approved Water Pollution Control Program (WPCP) for projects with a disturbed soil area less than 1 acre, unless otherwise required by other agencies (RWQCBs, U.S. Army Corps of Engineers, Department of Fish and Game, etc.).

☐Upon the expiration of this permit, the Permittee is required to apply for the countywide annual maintenance permit for this new facilities installed under the Permit No.: .

☒The Permittee is required to apply for a separate permit to maintain and/or replace in kind of these facilities on each occurrence upon the expiration of this permit.

☒The Permittee shall provide the stage construction traffic handling plans, work schedule and a list of all sub-contractors to the Department's Representative at the time of the pre-construction meeting or prior to start construction.

☒All traffic control, signing and striping shall comply with California MUTCD 2014. It is available at: http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca_mutcd.htm

☒Permittee and his/her contractors shall comply with Department 2018 Standard Specifications, Department 2018 Standard Plans, and all the latest revisions implemented as of this permit issued date, and the project specific special provisions for Oversight Projects and Streamlined Oversight Projects. It is the responsibility of the permittee and his/her contractors to verify with the Department Standard Plans, Standard Specifications, and all the latest revisions as of this permit issued date before ordering any materials for the project within the Department Right-Of-Way. The Department Standard Plans, Standard Specifications, and the Revisions are available at: http://www.dot.ca.gov/hq/esc/oe/standards.php

☒Permittee and/or permittee's authorized contractor/agent are required and responsible to identify the Department's underground electrical systems before performing any excavation work within the right of way.

☒All personnel shall wear hard hats and ANSI class II / III garments as appropriate while on State property.

☒The Permittee's work shall be subordinated to any operations which the Department may conduct and shall not delay, nor interfere with the Department's Forces or Department's Contractors.

☒Attention is directed to Standard Specifications Section 7-1.11, Preservation of Property, and Business and

Professions Code, Section 8771. The Permittee shall physically inspect the work site and locate survey monuments prior to work commencement. Monuments shall be referenced or reset in accordance with the Business and Professions Code.

. ☒Except for installing, maintaining and removing traffic control devices, any work encroaching within 3 feet of the edge of a traffic lane for areas with a posted speed limit below 45mph, or 6 feet of the edge of a traffic lane, for areas with a speed limit posted at 45mph or higher, shall require closing of the adjacent traffic lane. Permittee shall notify the Department's Representative, and obtain approval of, all traffic control, lane closures or detours, at least seven (7) WORKING DAYS prior to setting up of any traffic control.

☒No lane may be closed or obstructed at any time unless specifically allowed per the encroachment permit, shown in approved traffic control plans, and/or as directed by the Department's Representative.

☒ Traffic control is generally authorized between 9:00 AM and 3:00 PM only on Monday through Thursday and until 1:00 PM on Fridays, excluding holidays except specified in the Permit. Lane closure is not allowed on Saturdays, Sundays and designated holidays. The designated holidays are: January 1st, the third Monday in January, the second and third Mondays in February, March 31, the last Monday in May, July 4th, the first Monday in September, the second Monday in October, November 11th, Thanksgiving Day, the day after Thanksgiving Day, and December 25th. When a fixed holiday falls on Saturday, the preceding Friday shall be designated as holiday.

☒ Should any deviation from these procedures or conditions be observed, all work shall be suspended until satisfactory steps have been taken to ensure compliance.

☒If time extension is necessary, a request for time extension and the accompanying attachments must be made a minimum of two (2) weeks prior to completion date stated on face of permit. If work has not been started before completion date, the permit will be voided. Failure to comply with rules and regulations stated on permit will jeopardize future permit privileges.

☒ "AS-BUILT" PLANS ARE REQUIRED UPON COMPLETION OF ALL WORK. PLEASE REFER TO THE GENERAL PROVISION TR-0045, ITEM 22 FOR THE "AS-BUILT" REQUIREMENTS. NO FINAL INSPECTION WILL BE PERFORMED UNTIL THE DEPARTMENT IS IN RECEIPT OF "AS-BUILT" PLANS.

☒No vehicle or equipment shall be stored overnight within the right of way; it shall be removed immediately at the completion of the day's work. Refueling of vehicle or equipment within the right of way is strictly prohibited.

☒ Required traffic control devices shall be installed around fixed objects to warn the motoring public for safety. Personal vehicles of the contractor shall not be parked within freeway right of way.

☒ No materials or waste shall be stockpiled within State right of way.

☒Except as specifically provided herein, all requirements of the Vehicle Code and other applicable laws must be complied with in all particulars.

☒ When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane. The permittee shall not reduce the width of the existing lane to less than 10 feet without written approval from the Department's Representative.

☒Excavations made within the limits of the right of way shall be backfilled and resurfaced to original condition

before leaving the work area unless otherwise authorized by the Department's Representative.

☐All trenches repair shall comply with ENCROACHMENT PERMIT TRENCH DETAIL, TR-0153 or to the satisfaction of the Department's Representative.

. ☒ Permittee shall be responsible for arranging the services of a qualified traffic control contractor to provide any needed traffic control.
. ☒The permittee shall arrange a meeting between his field representative, traffic control contractor, Department's Representative and/or CHP at least two (2) weeks prior to start of any work covered under this permit to arrange date and time of starting work and determine appropriate methods of handling traffic. At least 3 working days notice shall be given to the Caltrans representative and/or the CHP, prior to the meeting to allow time to arrange for attendance.

☒ A copy of this permit, complete with all attachments, shall be kept by permittee/contractor working under this permit and must be shown to the Department Permit Inspector, Department's Representatives, or Law Enforcement Officer, on demand.

☒ The permittee shall be responsible for notifying the appropriate utility companies or underground service alert prior to any excavation work.

☒The permittee shall notify the California Highway Patrol Area Commander at least 72 hours prior to implementing traffic control.

☒When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails and bridges, together with warning and guidance devices and signs must be utilized so that the passageway for pedestrians, especially blind and other physically handicapped, is safe and well defined and shown on the approved permit plan.

☒Pedestrian walkways and canopies within State Right of Way shall comply with the requirements of the applicable local agency or of the latest edition of the Uniform Building Code whichever contains the higher standards.

[For City or County projects with utility relocations:]
☐ If existing public or private utilities conflict with the construction PROJECT, PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. PERMITTEE shall inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or removal which STATE or PERMITTEE must legally pay, will be borne by PERMITTEE. If any protection, relocation, or removal of utilities is required, including determination of liability for cost, such work shall be performed in accordance with STATE policy and procedure. PERMITTEE shall require any utility company performing relocation work in the STATE's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the as-built plans.

[For other projects with utility relocations:]
☐ If existing public or private utilities conflict with the construction PROJECT, PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. PERMITTEE shall inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or

removal shall be borne by PERMITTEE in compliance with the terms of the Highway Encroachment Permits, Case Law, Public Utility Regulations, and Property Rights. PERMITTEE shall require any utility company performing relocation work in the STATE's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the as-built plans.

☒ Permittee shall furnish to the Department's Representative a completed Form CEM-3101 "Notice of Materials Used", and approval of the material used shall be obtained prior to its installation.

☒ The electrical inspector shall be notified 48 hours prior to performing any work on the SIGNAL SYSTEM, this includes cutting the asphalt for the trench in the area of the detector loops.

☒ Cat Tracking of Lane Lines, Stop Bars, and Crosswalks shall be done prior to determining the location of traffic signal loops. It is the responsibility of the contractor to coordinate the scheduling of the striping and electrical sub-contractors in order to accomplish this task. Department will not be responsible for any unauthorized field changes that result in the misplacement of traffic loops after the initial loop layout has been approved.

☒ Traffic signal system shutdowns shall be limited to periods between the hours of 9:00 a.m. and 3:00 p.m.

☒Conduit to be installed underground shall be Type 3, Schedule 80. 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.

☒ 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. The minimum insulation thickness, at any point, for Type USE, RHH or RHW wire shall be 1.0 mm for conductor sizes No. 14 to No. 10, inclusive, and 1.3 mm for No. 8 to No. 2, inclusive. The minimum insulation thickness, at any point, for Type THW and TW wires shall be 0.69 mm for conductor sizes No. 14 to No. 10, inclusive, 1.02 mm for No. 8, and 1.37 mm for No. 6 to No. 2, inclusive.

☒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. Install #8 AWG bare grounding conductor in all galvanized rigid steel conduits which contain signal conductors. No. 10 AWG grounding conductor is required in conduits which contain only loop lead-in cable or signal interconnect cable or telephone cable. A No. 8 minimum, bare copper wire shall run continuously in circuits, except for series lighting circuits, where No. 6 bare copper wire shall run continuously. 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.

☒Signal Interconnect Cable (SIC) shall be the 6-pair type.

☒Traffic signal faces and fittings shall be of the metal type.

☒ Loop wire shall be Type 2. Loop detector lead-in cable shall be Type B. Slots shall be filled with hot-melt rubberized asphalt sealant. At the Contractor's option, where a Type A or a Type B loop is designated on the plans, a Type E loop may be substituted. For Type E detector loops, sides of the slot shall be vertical and the minimum radius of the slot entering and leaving the circular part of the loop shall be 40 mm. Slot width shall be a maximum of 20 mm. Loop wire for circular loops shall be Type 2. Slots of circular loops shall be filled with hot melt rubberized asphalt sealant.

☒ The Model 2070L and/ or 170 controller assemblies, including controller unit, completely wired controller cabinet and inductive loop detector sensor units, but without anchor bolts, will be State-furnished (to be paid by permittee).

☒ Ballasts for luminaries shall be the lag regulator type.

☒Contactors shall be the mechanical armature type. Photoelectric units for illuminated signs shall have a "turn-on" level of between 215 lux and 323 lux (corresponds to a switching level of approximately 430 lux to 646 lux measured in the horizontal plane). "Turn-off" level shall not exceed 3 times the "turn-on" level.

☐ State will furnish (to be paid by permittee) the Battery Backup System (BBS) (electronics only). The contractor shall furnished the externally mounted BBS cabinet and batteries.

☒ All signal indications shall be the LED type.

☒ Permittee shall procure, furnish and install LED signal modules.

☒All salvaged electrical equipment shall remain the property of the State of California and shall be delivered to the Department yard at 175 Cluster Street, San Bernardino, California, 92408.

EMERGENCY VEHICLE PREEMPTION SYSTEM

☒City/County of [ ] will install the Emergency Vehicle Preemption System. All costs for the maintenance, repair and replacement of system are the responsibility of City/County. When necessary for repair or replacement, Department will test, remove and reinstall Preemption System upon notification by City/County.

PROGRAMMED VISIBILITY VEHICLE TRAFFIC SIGNAL HEADS

☐Lamps for programmed visibility vehicle traffic signal heads shall be furnished by the Contractor. A signal technician qualified to program the programmed visibility signal heads shall be present at the time the signal heads are placed in operation. Lamps for the signal units shall be 150-W, 120 V (ac), incandescent lamps with a minimum average rated life of 6000 hours. The lamp and socket shall be the 3-prong type.

INTERNALLY ILLUMINATED STREET SIGNS:

☐City/County of [ ] will install Internally Illuminated Street Name Signs. City/County agrees to purchase all materials for installation and ongoing maintenance of the illuminated street name signs,

including signs, sign panels and all hardware. Department will notify City/County when materials are required for repair and maintenance of the signs.

PREFORMED INDUCTIVE LOOPS

☐ Preformed inductive loops shall be the type shown on the plans. The loop shall be 1.8 m square unless otherwise shown. The loop shall consist of 4 turns of No. 16, or larger, wire with Type THWN or TFFN insulation. The loop wires shall be encased in Size 10, minimum, Schedule 40 or Schedule 80 PVC or polypropylene conduit. The conduit shall be sealed to prevent the entrance of water and the movement of wires within the conduit. The loop wires from the preformed loop to the adjacent pull box shall be twisted together into a pair (at least 7 turns per meter) and encased in Schedule 40 or Schedule 80 PVC or polypropylene conduit between the preformed loop and the adjacent pull box or detector handhole. The lead-in conduit shall be sealed to prevent the entrance of water at the pull box or handhole end. In new roadways, the preformed loops and lead-in conduits shall be placed in the base course, with the top of the conduit flush with the top of the base, and then covered with asphalt concrete or Portland cement concrete pavement. Preformed loops and lead-in conduits shall be protected from damage prior to and during pavement placement. In new reinforced concrete structure decks, the preformed loops shall be secured to the top of the uppermost layer of reinforcing steel using nylon wire ties. The loop shall be held parallel to the structure deck by using PVC or polypropylene spacers where necessary. Conduit for lead-in conductors shall be placed between the uppermost 2 layers of reinforcing steel. Preformed inductive loops shall not be installed in existing structure decks. In existing pavement, preformed loop installation shall conform to the following:

a. Preformed loops and lead-in conduits shall be placed in slots, 32 mm minimum width, cut into the existing pavement. The top of the conduit shall be 50 mm, minimum, below the top of pavement.
b. Slots in asphalt concrete pavement shall be filled with elastomeric sealant or hot-melt rubberized asphalt sealant.
c. Slots in Portland cement concrete pavement shall be filled with epoxy sealant or hot melt rubberized asphalt sealant.

Loop detector sensor units for inductive detector loop installation will be State-furnished in conformance with the provisions in "Materials" of these special provisions. Loop wire shall be Type 2. Loop detector lead-in cable shall be Type B. Slots shall be filled with hot-melt rubberized asphalt sealant. At the Contractor's option, where a Type A or a Type B loop is designated on the plans, a Type E loop may be substituted. For Type E detector loops, sides of the slot shall be vertical and the minimum radius of the slot entering and leaving the circular part of the loop shall be 40 mm. Slot width shall be a maximum of 20 mm. Loop wire for circular loops shall be Type 2. Slots of circular loops shall be filled with hot melt rubberized asphalt sealant. 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. The minimum insulation thickness, at any point, for Type USE, RHH or RHW wire shall be 1.0 mm for conductor sizes No. 14 to No. 10, inclusive, and 1.3 mm for No. 8 to No. 2, inclusive. The minimum insulation thickness, at any point, for Type THW and TW wires shall be 0.69 mm for conductor sizes No. 14 to No. 10, inclusive, 1.02 mm for No. 8, and 1.37 mm for No. 6 to No. 2, inclusive.

PERMIT NO.: 08-21-N-MC-1398

CO/RTE/PM: 08-RIV-74-43.59-VAR

PRECONSTRUCTION MEETING AGREEMENT

I, _____, acting as an authorized agent for the permittee,_____ , do hereby agree to personally accomplish or have another designated person arrange for all involved company representatives to attend a pre-construction meeting with the authorized Department's Representative at_____ , as specified on this permit. Such meeting must be held two (2) days or more prior to the planned start of the work on this project. The Authorized Department's Representative shall have complete authority to determine whether the permit conditions, either implied or written, have been complied with. The Department's Representative may then allow the permit work to proceed as appropriate. The Pre-construction Meeting Record below must be signed by both the Department's Representative and the permittee before the permit work may start.

I have read and understand the attached General Provisions TR-0045 and other attached prosivions of this permit.

This agreement or a copy thereof, must be mailed back to the **Department's District 8 Encroachment Permit Office at 464 W. 4th. Street, MS 619, San Bernardino, CA 92401-1400**, within three (3) working days prior to the pre-construction meeting. Failure to return this form could delay the release of your bonds. A copy of this document shall be at the job site at all times when work is in progress and failure to do so may result in the suspension of work, as directed by the Department's Representative.

It is the permittee's responsibility to insure that the Department's Representative is notified of work completion and that the attached Completion Notice is mailed to the Department's Permit office.

Signature Date

Print or Type Name

Position or Title

PRECONSTRUCTION MEETING RECORD

Department's Representative Date

Permittee's Representative Date

Date Work May Begin: _____

PERMIT NO.: 08-21-N-MC-1398
CO/RTE/PM: 08-RIV-74-43.59-VAR

DEPARTMENT OF TRANSPORTATION-DISTRICT 8
ENCROACHMENT PERMITS OFFICE
464 W. 4th. Street, MS 619
San Bernardino, CA 92401-1400

100% COMPLETION NOTICE

Work on Permit No.: 08-21-N-MC-1398 has been completed. A final inspection meeting was held on

Permittee's Representative Date

Department's Representative Date

FAILURE TO COMPLETE AND RETURN THIS TO THE DISTRICT PERMITS OFFICE MAY CAUSE A DELAY IN THE RELEASE OF YOUR BONDS.

COUNTY OF RIVERSIDE * TRANSPORTATION DEPARTMENT

Printed: 3/3/2022 16:31

SOBOBA STREET RESURFACING PROJECT

Engineer's Estimate

FROM STETSON AVENUE TO FLORIDA AVENUE (SR-74)

W.O.# A8-0791

ITEM NO	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	BID	AMOUNT
33	840501	THERMOPLASTIC TRAFFIC STRIPE	LF	22,132	$1.40	$30,984.80
34	870111	INDUCTIVE LOOP DETECTOR (TYPE E AND TYPE D PER CALTRANS STD. ES-5B) [INCLUDING DLC WIRES AND CONNECT AT CONDUIT STUB-OUT]	EA	12	$1,500.00	$18,000.00
35	010602	MISCELLANEOUS WORK (AS DIRECTED)	FA	1	$65,000.00	$65,000.00
SUBTOTAL Items 1 - 35		One million, three hundred fifty eight thousand, eight hundred dollars "Words"				**$1,358,800**

ALTERNATIVE 1 - SCE MANHOLE ADJUSTMENTS

36	710212	ADJUST MANHOLE TO GRADE (SCE)	EA	4	$2,500.00	$10,000.00
SUBTOTAL Items 36 - 36		Ten thousand dollars "Words"				$10,000

ALTERNATIVE 2 - FRONTIER MANHOLE ADJUSTMENTS

37	710212	ADJUST MANHOLE TO GRADE (FRONTIER)	EA	1	$2,500.00	$2,500.00
SUBTOTAL Items 37 - 37		Two thousand, five hundred dollars "Words"				$2,500
SUBTOTAL Items 1 - 37		One million, three hundred seventy one thousand, three hundred dollars "Words"				$1,371,300

CONTINGENCY

	999994	CONTINGENCY	LS	10%	$137,130	$137,130
GRAND TOTAL		One million, five hundred eight thousand, four hundred thirty dollars "Words"				$1,508,430

Mike Heath — 12/14/2021

Prepared by:

Checked by: