

CITY OF LAFAYETTE

3675 Mt. Diablo Boulevard, Suite 210
(925) 284-1951
www.ci.lafayette.ca.us



NOTICE TO CONTRACTORS BID PROPOSAL CONTRACT AGREEMENT CONTRACT SPECIAL PROVISIONS

FOR

CITY OF LAFAYETTE 2016 ROAD REHABILITATION PROJECT

Project No. 014-9706

**Bid Opening Date
Thursday, May 26, 2016, 2:30 p.m.**

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APPENDIX B: STANDARD PLANS

APPENDIX C: ROAD CLOSURE SAMPLE LETTER AND SIGNS

NOTICE TO CONTRACTORS

Sealed proposals will be accepted at the office of the City Clerk, 3675 Mt. Diablo Boulevard, Suite 210, Lafayette, California until 2:30 P.M., Thursday, May 26, 2016, at which time they will be publicly opened and read, for construction of **City of Lafayette, 2016 Road Rehabilitation Project, Project No. 014-9706**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree removal, clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and asphalt curb, gutter, flatwork; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, asphalt concrete pavement, storm drain facilities, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.

The Engineer's cost estimate is \$1,700,000.

Beginning May 2, the contract documents, including the Plans and Specifications, will be available and may be obtained through the City of Lafayette Engineering Services Division by contacting the Engineering Assistant at tkain@lovelafayette.org or (925)284-1951.

This project shall be constructed in accordance with the March 2013 edition of the City of Lafayette Standard Specifications, which may be obtained at the City of Lafayette Engineering Services Division. The cost of the Standard Specifications is \$20 per set; the cost of mailing is an additional \$8.

Bids shall be submitted in a sealed envelope titled "**Proposal: City of Lafayette, 2016 Road Rehabilitation Project, Project No. 014-9706**".

The Contractor shall possess a Class "A" license at the time this contract is awarded.

Bidder's attention is directed to requirements in Sections 2 and 3 of the Standard Specifications General Provisions. All bids shall be accompanied by a cashier's or certified check, or a bidder's bond executed by a corporate surety insurer. The bidder's guarantee shall be in the amount equal to at least ten (10) percent of the total bid and shall be made payable to the City of Lafayette. The successful bidder shall furnish a payment bond and a performance bond.

The City of Lafayette reserves the right to waive any informalities or to reject any or all bids. The City has ascertained the General Prevailing Rates of Wages applicable to this work, and these rates are on file at the City offices.

Time of completion allowed for this project will be 75 working days. Bidder's attention is directed to the order of work stated in Section 5 of the Special Provisions.

The plan holders list, as well as the City Standard Specifications, the Project Special Provisions and the General Prevailing Rates of Wages applicable to this work may be downloaded free of charge from the City of Lafayette web page at <http://www.ci.lafayette.ca.us> (click on *Public Works and Construction* under the Quick Links sidebar on the homepage, then *City Construction Projects; 2016 Road Rehabilitation Project* is accessible under *Projects Bidding*). Or you may contact the Engineering Assistant at (925) 284-1951. Questions regarding the project Plans or Specifications may be directed to Matt Luttrupp, City Engineer's Office, (925) 299-3247.

CITY OF LAFAYETTE

Date: April 25, 2016

By: /s/
Tony Coe, City Engineer

**CITY OF LAFAYETTE
CALIFORNIA**

BID PROPOSAL

2016 ROAD REHABILITATION PROJECT

PROJECT No. 014-9706

TO THE CITY COUNCIL OF THE CITY OF LAFAYETTE:

In compliance with the annexed notice inviting sealed proposals, the undersigned bidder hereby proposes and agrees to perform the work therein described and to furnish all labor, materials and equipment necessary therefor, in accordance with the Plans and Specifications therefor, and further agrees to enter into a contract therefor, at the following prices:

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
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(SEE ATTACHED BID SCHEDULE)

- NOTES:
- All unit prices shall be considered the prices for providing a complete, in-place facility.
 - In the event of a discrepancy between the unit price and item total on the Bid Schedule, the unit price shall be used.

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Bidder acknowledges the receipt of the following addenda to the drawings and specifications.

<u>Addendum No.</u>	<u>Date</u>	<u>Addendum No.</u>	<u>Date</u>
_____	_____	_____	_____
_____	_____	_____	_____

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2016 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9706
BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	Mobilization (SP-12)	1	LS		
2	Project Identification Signs (City Furnished) (SP-12)	9	EA		
3	Construction Area Signs (SP-13)	18	EA		
4	Traffic Control (SP-14)	1	LS		
5	Clearing and Grubbing, Tree Trimming, and Tree Protection (SP-16)	1	LS		
6	Tree Removal (SP-16)	2	EA		
7	Lower Existing Manhole or Rodding Inlet Frame (SP-17)	33	EA		
8	Raise Existing Manhole or Rodding Inlet Frame and Cover to Grade (SP-17)	33	EA		
9	Adjust Existing Utility Valve Frame and Cover (SP-17)	44	EA		
10	Adjust Utility Box to Grade (SP-17)	4	EA		
11	Remove Concrete Headwall (SP-17)	13	EA		
12	Remove Drainage Inlet (SP-17)	6	EA		
13	Remove Storm Drain Pipe (Various Sizes) (SP-17)	742	LF		
14	Remove Asphalt Concrete Driveway, Pathway, Shoulder or Conform (SP-17)	31,004	SF		
15	Remove Paver Driveway or Pathway (SP-17)	263	SF		
16	Remove Concrete Ditch or Channel (SP-17)	2,913	SF		
17	Remove Concrete Curb and Gutter (SP-17)	2,290	LF		
18	Remove Concrete Curb (SP-17)	29	LF		
19	Sawcut Gutter Lip (SP-17)	25	LF		
20	Remove Concrete Driveway, Sidewalk, or Shoulder (SP-17)	1,645	SF		
21	Remove Concrete Valley Gutter (SP-17)	45	SF		
22	Relocate/Repair Sanitary Sewer Lateral (SP-17)	20	LF		
23	Remove Brick Pillar Containing Mailbox/Reinstall Mailbox on New Post (SP-17)	1	EA		
24	Relocate Mailbox on New Post (SP-17)	14	EA		
25	Concrete Curb (SP-23)	10	LF		
26	Concrete Headwall (SP-23)	7	EA		

2016 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9706
BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
27	Concrete Curb and Gutter (SP-23)	2,290	LF		
28	Concrete Driveway (SP-23)	643	SF		
29	Concrete Sidewalk (SP-23)	646	SF		
30	Concrete Curb Ramp with Detectable Panel (SP-23)	253	SF		
31	Concrete Channel (SP-23)	31	SF		
32	Install Type 'G' Inlet (SP-23)	10	EA		
33	Install Type 'J' Inlet (SP-23)	4	EA		
34	Install Type 'H' Inlet (SP-23)	1	EA		
35	Retrofit Type 'A' Inlet Top to Type 'G' Top (SP-23)	1	EA		
36	Retrofit Type 'C' Inlet Top to Type 'G' (SP-23)	2	EA		
37	Retrofit Modified Type 'E' Inlet Top to Type 'G' (SP-23)	1	EA		
38	Concrete Collar (SP-24)	3	EA		
39	Sheeting and Shoring (SP-24)	1	LS		
40	12" HDPE Pipe (SP-24)	208	LF		
41	15" HDPE Pipe (SP-24)	991	LF		
42	18" HDPE Pipe (SP-24)	138	LF		
43	24" HDPE Pipe Lining Existing CMP (SP-24)	55	LF		
44	10" SDR 35 Pipe Lining Existing CMP (SP-24)	20	LF		
45	Edge Drain with Cleanouts (SP-24)	150	LF		
46	Line Bottom of CMP with Concrete (SP-24)	6	LF		
47	Extend Private Drain Line to Storm Drain Line or Inlet (SP-24)	7	EA		
48	Reset Brick Paver Surfacing (SP-27)	263	SF		
49	Remove and Reset Dry Stacked Rock Wall (SP-27)	44	LF		
50	Full-Depth Asphalt Concrete Recycling (SP-18)	9,800 (F)	CY		
51	Cement Treat Pulverized Base Material (SP-18)	5,090 (F)	CY		
52	Roadway Excavation (SP-20)	2,500 (F)	CY		

2016 ROAD REHABILITATION PROJECT
PROJECT NO. 014-9706
BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
53	Cold Plane Pavement (SP-21)	278	SY		
54	Asphalt Concrete Pavement (SP-22)	5,898	TONS		
55	AC Driveway, Pathway or Shoulder on Existing Base Material (SP-22)	9,406	SF		
56	Type 'A' Asphalt Dike/Berm (SP-22)	2,906	LF		
57	Type 'C' Asphalt Dike/Berm (SP-22)	2,332	LF		
58	Temporary Pavement Delineation (SP-14)	1	LS		
59	Paint Curb (Red) (SP-25)	95	LF		
60	Detail 22- Centerline (SP-25)	2,180	LF		
61	Detail 23 - Centerline (SP-25)	103	LF		
62	Detail 27B - 4" White Thermoplastic Edge Stripe (SP-25)	85	LF		
63	12-Inch Thermoplastic Stripe (SP-25)	346	LF		
64	Thermoplastic Pavement Legends and Markings (SP-25)	66	SF		
65	Two-Way Reflective Pavement Markers (Blue) (SP-25)	10	EA		
66	Install New Monument (SP-26)	25	EA		
67	Shoulder Backing (SP-27)	6,361	LF		
68	Re-grade Earth Ditch (SP-27)	135	LF		
69	Relocate Traffic Sign on New Post (SP-28)	2	EA		
	TOTAL BASE BID				

(F) Denotes Final Pay Quantity per Section 9-1.015 of the State Specifications

Bidder agrees that in case of default in executing and returning the required contract and bonds within ten (10) calendar days after having received the contract, proceeds of the guarantee accompanying his bid will become the property of the City of Lafayette.

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In conformance with Subsection 2-13 "Listing of Proposed Subcontractors" of the Standard Specifications, the name and location of the place of business of each subcontractor is as follows:

	<u>NAME</u>	<u>DIR NUMBER</u>	<u>ADDRESS</u>	<u>WORK TO BE PERFORMED</u>
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

o o o

Bidder certifies that he is licensed in accordance with an act providing for the registration of Contractors as follows:

License No. _____ Class _____

o o o

Bidder certifies that he has not, nor have any of his or its agents, officers, representatives, or employees, been guilty of collusion with any officer or representative of the City of Lafayette or with any other party or parties in the submission of this Proposal; nor has said bidder received any preferential treatment by any officer or employee of the City of Lafayette in the matter of making or submitting this proposal. The undersigned declares under penalty of perjury that the foregoing is true and correct.

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Bidder certifies that there will be no discrimination in employment with regard to race, color, religion, sex, sexual orientation, or national origin; that all Federal, State, and local directives and executive orders regarding nondiscrimination in employment will be complied with and that the principle of equal opportunity in employment will be demonstrated positively and aggressively.

All bidders that have not had a contract with the City of Lafayette during the past three (3) years shall list below previous jobs that they have successfully completed and shall also show the amount of the contract

therefor.

Name and Address of Agency or Individual for Whom Work was Done	Phone Number	Date Completed	Contract Price
1.			
2.			
3.			
4.			
5.			
6.			

NONCOLLUSION DECLARATION

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid.
Title Firm

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 to 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 or 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 laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____, at
Date

_____, _____
City State

By: _____
Signature

Name: _____
Printed or Typed

Date: _____

Title: _____

PROPOSAL GUARANTEE

BID BOND

2016 ROAD REHABILITATION PROJECT

PROJECT No. 014-9706

KNOW ALL PERSONS BY THESE PRESENTS that _____, as BIDDER, and _____, as SURETY, are held and firmly bound unto City of Lafayette, as Owner, in the penal sum of _____ dollars (\$) which is ten percent of the total amount bid by BIDDER to Owner for the above stated project, for the payment of which sum, BIDDER and SURETY agree to be bound, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that, whereas BIDDER is about to submit a bid to Owner for the above stated project, if said bid is rejected, or if said bid is accepted and a contract is awarded and entered into by BIDDER in the manner and time specified, then this obligation shall be null and void, otherwise it shall remain in full force and effect in favor of Owner.

IN WITNESS WHEREOF the parties hereto have set their names, titles, hands, and seals this ____ day of _____, 2016.

BIDDER _____

SURETY _____

Subscribed and sworn to this ____ day of _____, 2016.

NOTARY PUBLIC _____

PROPOSAL SIGNATURE SHEET

The completed proposal submitted herewith includes all sheets numbered "P-1 through P-10" at the bottom. The following required attachments have been executed and are included:

- a. Bid Proposal (with Addenda acknowledgement)
- b. Bid Schedule
- c. Noncollusion Declaration
- d. Proposal Guarantee "Bid Bond" with Notarized Signatures
- e. Proposal Signature Sheet
- f. Public Works Contractor Registration Certification

Legal Name of Firm: _____

Business Address: _____

Telephone Number: () _____

Type of Organization: () Individual () Partnership () Corporation

Joint Venture Proposal?: () Yes () No

Authorized Signature: _____

Name: _____

Position: _____

Date of Execution: _____

For a partnership, name all co-partners below,
For a corporation, name president, secretary, treasurer and manager.

NAME	TITLE
_____	_____
_____	_____
_____	_____
_____	_____

Corporate Seal:

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See <http://www.dir.ca.gov/PublicWorks/PublicWorks.html> for additional information.

No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Contractor hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Name of Contractor: _____

DIR Registration Number: _____

Contractor further acknowledges:

1. Contractor shall maintain a current DIR registration for the duration of the project.
2. Contractor shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: _____

Name and Title: _____

Dated: _____

**CITY OF LAFAYETTE
CONTRACT AGREEMENT
FOR
CONSTRUCTION**

THIS AGREEMENT is made and entered into as of _____, 2016, by and between the CITY OF LAFAYETTE ("City") and _____ ("Contractor").

RECITALS

- A. City desires to retain the services of Contractor to provide services for Construction of **2016 Road Rehabilitation Project, Project No. 014-9706**, ("Project") including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree removal, clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and asphalt curb, gutter, flatwork; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, asphalt concrete pavement, storm drain facilities, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.
- B. Contractor has represented to City that it has the expertise, experience and qualifications to perform the services described in Paragraph A, above, and those services which are more fully described below.

NOW, THEREFORE, in consideration of the foregoing and the covenants and agreements set forth below, City and Contractor agree as follow:

- 1. Contract Documents. The contract documents for the aforesaid project shall consist of the Notice to Contractors, Bid Proposal, General Provisions, Technical Provisions, Special Provisions including appendices, Design Drawings, and all referenced specifications, details, standard drawings, and their appendices; together with this Contract Agreement and all required bonds, insurance certificates, permits, notices and affidavits; and also including any and all addenda or supplemental agreements clarifying, amending, or extending the work contemplated as may be required to insure its completion in an acceptable manner. All of the provisions of said contract documents are made a part hereof as though fully set forth herein.
- 2. Services. For and in consideration of the payments and agreements to be made and performed by City, Contractor agrees to furnish all materials and perform all work required for the above-stated project, and to fulfill all other obligations as set forth in the aforesaid contract documents. Contractor agrees to receive and accept the prices set forth in the Proposal as full compensation for furnishing all materials, performing all work, and fulfilling all obligations hereunder. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of the work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the aforesaid contract documents; also including those arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work, suspension or discontinuance of the work, and all other unknowns or risks of any description connected with the work.

3. **Employment by City.** City hereby promises and agrees to employ, and does hereby employ, Contractor to provide the materials, do the work, and fulfill the obligations according to the terms and conditions herein contained and referred to, for the prices aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions set forth in the contract documents.
4. **Worker's Compensation.** Contractor acknowledges the provisions of the State Labor Code requiring 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 certifies compliance with such provisions. Limits shall be not less than those specified in the insurance requirements contained in the General Provisions of the Standard Specifications, and as modified in these Special Provisions.
5. **Insurance.** With respect to performance of work under this contract, Contractor shall maintain and shall require all of its subcontractors to maintain insurance as required in the General Provisions of the Standard Specifications, and as modified in these Special Provisions.
6. **Indemnity.** Contractor shall comply with the indemnification requirements contained in the General Provisions of the Standard Specifications.
7. **Assignment.** This contract is not assignable nor the performance of either party's duties delegable without the prior written consent of the other party. Any attempted or purported assignment or delegation of any of the rights or obligations of either party without the prior written consent of the other shall be void and of no force and effect.
8. **Non-discrimination.** Contractor shall not discriminate in the hiring of employees or in the employment of subcontractors on any basis prohibited by law.
9. **Independent Contractor.** Contractor is and shall at all times remain as to City, a wholly independent contractor. Neither City nor any of its agents shall have control of the conduct of Contractor or any of the Contractor's employees, except as herein set forth. Contractor shall not at any time or in any manner represent that it or any of its agents or employees are in any manner agents or employees of City.
10. **Contractor and Subcontractor Registration.** Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public works must be registered with the Department of Industrial Relations. No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work. Contractor is directed to review, fill out and execute the Public Works Contractor Registration Certification contained in the Bid Proposal prior to contract execution.
11. **Labor Compliance.** This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. It shall be the Contractor's sole responsibility to evaluate and pay the cost of complying with all labor compliance requirements under this Contract and applicable law.
12. **Notices.** All notices and communications shall be sent to the parties at the following addresses:

CITY: City Engineer
 City of Lafayette
 3675 Mount Diablo Boulevard, Suite 210
 Lafayette, California 94549

CONTRACTOR: _____

- 13. **Authorized Signature.** Contractor affirms that the signatures, titles, and seals set forth hereinafter in execution of this contract agreement represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein.
- 14. **Entire Agreement; Modification.** This contract supersedes any and all other agreements either oral or written, between the parties and contains all of the covenants and agreements between the parties pertaining to the work of improvements described in Paragraph A of the Recitals herein above. Each party to this contract acknowledges that no representations, inducements, promises, or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that any other agreement, statements or promise not contained in this contract shall not be valid or binding. Any modification of this contract will be effective only if signed by the party to be charged.
- 15. **Claims Procedure.** In the event of a dispute between the parties regarding a) a time extension demand, b) payment arising for work performed by or on behalf of the contractor which is not otherwise expressly provided for, or c) an amount the payment of which is disputed by the City, the procedure in Section 10 of the City of Lafayette Standard Specifications shall be used.

IN WITNESS WHEREOF the parties hereto for themselves, their heirs, executors, administrators, successors, and assigns do hereby agree to the full performance of the covenants herein contained and have caused this Contract Agreement to be executed in duplicate by setting hereunto their names, titles, hands, and seals this ____ day of _____ 2016.

Contractor: _____
<Type Business Name Here>
Name: _____
Title: _____

Contractor's License No. _____
Agency Business License No. _____
Federal Tax Identification No. _____

Subscribed and sworn to this ____ day of _____ 2016.

Notary Public _____

Agency: _____
City Manager of the City of Lafayette

Attested: _____
City Clerk of the City of Lafayette

Date: _____

PAYMENT BOND

(TO BE EXECUTED WITHIN TEN [10] CALENDAR DAYS OF CONTRACT AWARD)

WHEREAS, the City of Lafayette (Owner) has awarded to _____, as Contractor, a contract for the work described as follows: Construction of **2016 Road Rehabilitation Project, Project No. 014-9706**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree removal, clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and asphalt curb, gutter, flatwork; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, asphalt concrete pavement, storm drain facilities, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.

AND WHEREAS, said Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materials persons, and other persons as provided by law;

NOW, THEREFORE, we, the undersigned Contractor and surety, are held firmly bound unto the Owner in the sum of _____ Dollars (\$_____), for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH:

That if said Contractor, its heirs, executors, administrators, successors, or assigns, or subcontractors, shall fail to pay any of the persons named in Civil Code Section 3282, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with respect to such work and labor, that the surety or sureties herein will pay for the same in any amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the said surety will pay a reasonable attorney's fee to the Owner in an amount to be fixed by the court.

This bond shall insure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 2016.

CONTRACTOR: _____	SURETY _____
Print Name: _____	NAME _____
Title: _____	ADDRESS _____
	TELEPHONE _____

PERFORMANCE BOND

(TO BE EXECUTED WITHIN TEN [10] CALENDAR DAYS OF CONTRACT AWARD)

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, the City of Lafayette (Owner) has awarded to _____, as Contractor, a contract for the work described as follows: Construction of **2016 Road Rehabilitation Project, Project No. 014-9706**, including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree removal, clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and asphalt curb, gutter, flatwork; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, asphalt concrete pavement, storm drain facilities, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.

AS WHEREAS, the Contractor is required to furnish a bond in connection with said contract guaranteeing the faithful performance thereof;

NOW, THEREFORE, we, the undersigned Contractor and surety, are held firmly bound unto the Owner in the sum of _____ Dollars (\$_____), to be paid to the Owner, its successors and assigns, for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH:

That if said Contractor, its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in the foregoing contract and any alteration thereof made as therein provided on its or their part to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Owner, its officers, and agents, as therein stipulated, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect. In case suit is brought upon this bond, the said surety will pay a reasonable attorney's fee to the Owner in an amount to be fixed by the court. Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said surety does hereby waive notice of any such amendment, change extension of time, alteration, or addition to said contract, and of any feature or item or items of performance required therein or thereunder.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 2016.

CONTRACTOR: _____	SURETY _____
Print Name: _____	NAME _____
Title: _____	ADDRESS _____
	TELEPHONE _____

SPECIAL PROVISIONS SECTION SP-1

GENERAL
(NO BID ITEM)

SP1-01 REFERENCES

The work to be done under this contract, except as modified or supplemented herein, shall conform to the following:

- The City of Lafayette General Provisions of the Standard Specifications dated March 2013, herein referred to as the "General Provisions of the Standard Specifications".
- The City of Lafayette Technical Provisions of the Standard Specifications dated March 2013, herein referred to as the "Technical Provisions of the Standard Specifications".

Where specifically referred to, the work shall also conform to the following:

- The State of California Department of Transportation (Caltrans) Standard Specifications, For Construction of Local Streets and Roads, 2010 Edition, herein referred to as the "State Specifications" or "State Standard Specifications".
- The State of California Department of Transportation (Caltrans) Standard Plans, 2010 Edition, herein referred to as the "State Standard Plans".
- The Contra Costa County Public Works Department Standard Plans, most current edition, herein referred to as the "County Standard Plans".

These Special Provisions are additions, modifications, or clarifications to the referenced Standard Specifications and generally supersede the referenced or applicable sections of said Standard Specifications. Refer to Section 5-4, "Precedence of Contract Documents", of the General Provisions of the Standard Specifications for the order of precedence of Contract Documents. Where ambiguity or conflict exist in the interpretation of precedence, the provision resulting in the highest quality or most expensive grade of construction or product shall govern.

SPECIAL PROVISIONS SECTION SP-2, 3 (NOT USED)

SPECIAL PROVISIONS SECTION SP-4

PLANS AND SPECIFICATIONS (GENERAL)
(NO BID ITEM)

The provisions of Section 4, "Plans and Specifications (General)," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP4-01 SCOPE OF WORK

The work to be performed under this contract including, but not limited to: mobilization; traffic control and construction signage; potholing utilities; tree removal, clearing and grubbing including tree protection and trimming; removal and disposal of asphalt concrete pavement and subgrade, concrete and asphalt curb, gutter, flatwork; pulverizing, mixing, excavating, grading and compacting pavement subgrade and base materials; cement treatment of pulverized material; construction of minor concrete structures, concrete and/or asphalt curb, gutter, driveways, asphalt concrete pavement, storm drain facilities, traffic stripes, markers, and markings; adjustment of utility covers; installation of survey monuments; and all other miscellaneous work as shown on the Plans and as described in the Specifications to provide a complete project.

SP4-02 PAYMENT

No separate payment will be made for preparing and submitting "As-Built Drawings." Full compensation for preparing and submitting "As-Built Drawings" shall be considered as included in the prices paid for various contract items of work, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-5

CONTROL OF WORK AND MATERIALS
(NO BID ITEM)

The provisions of Section 5, "Control of Work and Materials," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP5-01 CONSTRUCTION SURVEY STAKING

The Engineer will provide paint markings for pavement conforms, driveway paving conform limits, removal and replacement of pavement, curb, gutter, and driveways of all kinds.

The City shall provide all construction survey staking for alignment and grades of roadway, curb, gutter, storm drain, and other items which, in the opinion of the Engineer, require survey staking. The Contractor shall submit staking requests in writing at least five (5) working days in advance of beginning work that requires construction survey staking. The Contractor shall be responsible for paying the cost of resetting survey stakes which are damaged or obliterated by the Contractor's operations.

Survey stakes for roadway alignment and grade will be set on one side of the roadway only. These stakes will provide offset distances, and cuts or fills to the new crown or control line grade breaks, and where applicable, new curb and/or left and right edges of pavement.

The Contractor will be responsible for providing traffic control for the City's survey crew as necessary for any required offset stakes which will need to be set in the roadway, including providing a lane closure and/or flaggers when required. The Engineer will notify the Contractor a minimum of 48 hours prior to the required survey staking in order to coordinate traffic control.

SP5-02 MATERIAL SAMPLING AND TESTING

Compaction tests and/or material sampling and testing may be performed by the City's representatives on roadway subgrade, pulverized material, aggregate base, portland cement concrete, asphalt concrete, and other work and materials, which in the opinion of the Engineer, require sampling or testing. Test locations shall be determined by the Engineer. The Contractor shall coordinate and cooperate with the Engineer and testing personnel, and no claims of delays or inconvenience due to testing and/or sampling shall be allowed.

SP5-03 SUBMITTALS

At minimum, the Contractor shall provide submittals to the Engineer for the following materials. Additional submittals may be found in the various Special Provisions for the Work.

- Aggregate Base Class 2 (Material Source)
- Asphalt Concrete Mix Designs of All Types
- Portland Cement Concrete Mix Designs of All Types
- Cement Treatment of Subgrade
- Reinforcing Steel
- Storm Drain Inlet Grates and Covers
- HDPE and RCP Pipes
- Pavement Markers
- Thermoplastic Striping Material
- Sign and Post Materials
- Survey Monument Frames and Covers

- Water Pollution Control Plan
- Waste Management Plan
- Traffic Control Plan and Certification of Qualified Personnel
- CAL/OSHA Excavation Permit

SP5-04 ORDER OF WORK

Unless otherwise directed by the Engineer, the following major items of work shall be performed in the following general order. Not every item of Contract Work is shown. Contractor shall accordingly coordinate miscellaneous and coincidental work related to or associated with major work items in order to avoid out-of-sequence construction and conflicts. Not all stages of work apply to every location within the Project.

- 1) Notify Underground Service Alert (USA) to have utilities marked.
- 2) Install construction area signs and project identification signs one week in advance of the start of work on a specific street or work area.
- 3) Install water pollution control measures.
- 4) Install tree protection.
- 5) Submit waste management plan prior to commencing any demolition work.
- 6) Perform utility potholing work to confirm depths of existing utility lines. No additional excavation work will be permitted until Contractor's Utility Pothole Log (Appendix to Standard Specifications) is submitted to the Engineer.
- 7) Clearing, grubbing, tree trimming and tree removal.
- 8) Sawcut driveway conforms.
- 9) Remove, repair, modify, and/or construct storm drain facilities.
- 10) Remove, replace, and/or construct concrete curb, gutter, sidewalk, driveways, and other flatwork.
- 11) Reference and/or adjust survey monuments, all utility frames and covers to below grading plane.
- 12) Complete full-depth recycling, including cement treatment; finish grade and compact subgrade to design grades; and place asphalt concrete base course.
- 13) Sawcut and remove pavement at transverse conform joints at limits of paving.
- 14) Place asphalt concrete finish course. Place temporary roadway delineation.
- 15) Place asphalt concrete berms.
- 16) Pave driveway conforms and road shoulders
- 17) Raise/adjust all existing monument and utility frames and covers to final grade. Install new monuments.
- 18) Place permanent striping, markers and legends.
- 19) Complete all other construction work and punch list items.

- 20) Remove tree protection, construction area signs and project identification signs.
- 21) Submit completed waste assessment summary report form.
- 22) Submit as-built plans.

The Contractor's attention is directed to Section SP-8-02, "Progress Schedule", of these Special Provisions.

Any deviation from these requirements and provisions shall be sufficient cause for the Engineer to suspend the work in accordance with the provisions of Section 8-3, "Temporary Suspension of the Work", of the General Provisions. The contractor will not be permitted to resume the work until Contractor has remedied said deviation in accordance with the provisions of the Contract.

SP5-05 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-6

LEGAL RELATIONS AND RESPONSIBILITIES

(NO BID ITEM)

The provisions of Section 6, "Legal Relations and Responsibilities," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein, and in other related sections of these Special Provisions.

SP6-01 PUBLIC NOTIFICATIONS

Notification requirements in Section 6-10, 6-12.3, and 6-13 of the Standard Specifications General Provisions shall apply. Notices for driveway closures must be issued each time a driveway access is restricted and must indicate the specific date and time of the anticipated restricted access.

ROAD CLOSURE NOTIFICATIONS

At least 10 calendar days prior to performing work that requires road closures, Contractor shall mail a written notice to all residents, emergency services, public transit operators, garbage and recycling collection agencies, the US Postal Service and, school bus services. The City will supply the contractor with the text for the notices as well as a mailing list to be distributed (see Appendix C for sample text).

At least 10 calendar days prior to performing work that requires road closures, Contractor shall provide and install road closure notification signs at all exits from the limits of work. The signs shall be printed with black lettering on a yellow background and shall have text similar to the example signs found in Appendix C of these Special Provisions. The signs shall be a minimum of 3 feet wide by 3 feet tall and shall state the dates that the road will be closed. The signs may be printed on paper mounted to plywood. The contractor shall mount the signs to a Type III barricade. The Contractor shall submit a proof set for all notification signs to the Engineer for review and approval prior to manufacturing the signs.

If any road closure identified in the written notice to residents or subsequent road closure notification sign is not undertaken on the date(s) identified, Contractor shall install updated notification signs in-kind at least two days in advance of performing work on the street.

The Contractor shall maintain road closure notification signs in legible condition for the duration of their use.

SP6-02 COORDINATION WITH WASTE/RECYCLING OPERATIONS

The Contractor shall not impair or impede waste hauler and recycling operations scheduled to be conducted within the project area. It is the Contractor's responsibility to determine which waste haulers and recycling operators are scheduled to operate within the project area and to develop a project schedule that will not impair or impede the waste haulers or recycling operations. Contractor acknowledges that he is aware that various haulers and operators operate on different days on different streets within the project area.

SP6-03 PERMITS AND LICENSES

The Contractor shall fill out and submit the City of Orinda encroachment permit in Appendix A at the pre-construction meeting. This permit only applies to the portion of White Oak Drive that is within the city limits of Orinda.

SP6-04 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-7 (NOT USED)

SPECIAL PROVISIONS SECTION SP-8

PROGRESS OF WORK
(NO BID ITEM)

The provisions of Section 8, "Progress of Work," of the General Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP8-01 PRE-CONSTRUCTION MEETING

A pre-construction meeting for this project will be held on Tuesday, June 28 at 2:00 p.m. at the City Offices. The Contractor shall submit all required bonds, insurance, and signed contracts prior to this meeting. The Notice to Proceed will be issued to the Contractor at the pre-construction meeting. Note: The prime contractor's full-time on-site superintendent or foreman for the project, along with any subcontractor that will be adjusting utility facilities (lowering and raising iron) are required to attend the preconstruction meeting.

At the pre-construction meeting, representatives of the Owner, the Contractor, Subcontractors, and the Engineer will discuss in detail certain procedural aspects of the Work, including, but not limited to:

- Administrative procedures for transmittals, approvals, change orders, and similar items;
- Review of the method of application for payment, progress payments, retention; and final payment;
- Review of the Contractor's construction progress schedule;
- Clarifications of any questions regarding the contract Plans and Special Provisions;
- Review of traffic control procedures;
- At the preconstruction meeting the Contractor shall provide a Cal/OSHA trenching permit;

SP8-02 PROGRESS SCHEDULE

The Contractor shall submit the construction progress schedule to the Engineer at the pre-construction meeting. Contractor shall also submit an updated schedule by no later than Friday

morning of each work week, and as requested by the Engineer per Section 8-2, "Progress Schedule," of the General Provisions of the Standard Specifications.

Attention is directed to Section SP5-04, "Order of Work," of these Special Provisions. Each schedule shall specifically note the timeframe and work to be performed by all subcontractors. Subcontractors shall receive all updated schedules so they can plan an appropriate work force to meet the prime Contractor's timeframe.

SP8-03 WORKING HOURS

Without prior written approval by the Engineer, and except for emergency work, work or activity of any kind shall be limited to the hours from 8:00 a.m. to 5:00 p.m. Monday through Friday. Contractor's attention is directed to hours for lane/road closures in Section SP-14 of these Special Provisions.

SP8-04 TIME OF COMPLETION AND LIQUIDATED DAMAGES

The Contractor shall complete the entire Work in this Contract within **seventy five (75)** working days from the start date, including completion of all "Punch List" work. Liquidated damages shall be assessed per Section 8-10, "Liquidated Damages," the General Provisions of the Standard Specifications.

The count of working days for this project will start no later than Tuesday, July 5, 2016.

SP8-05 PAYMENT

No separate payment will be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-9, 10, 11 (NOT USED)

SPECIAL PROVISIONS SECTION SP-12

MOBILIZATION

(BID ITEM NO. 1 AND 2)

The provisions of Section 1, "Mobilization," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP12-01 MEASUREMENT AND PAYMENT

The lump sum Contract Price paid for "Mobilization" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for all the work involved in mobilization of forces, equipment, materials, and meeting all general conditions and provisions of Contract Documents and as directed by the Engineer, and no additional compensation will be allowed therefor.

The Contract Price paid for each "Project Identification Sign" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work involved in coordinating with the City to obtain the sign, transporting, installing signs on barricades, maintaining signs, removing signs and barricades, and returning signs to the City as specified in the Standard Specifications and these Special Provisions and as directed by the Engineer and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-13

CONSTRUCTION AREA SIGNS

(BID ITEM NO. 3)

SP13-01 GENERAL

The Engineer shall approve all locations prior to the Contractor installing signs. Signs shall be in place on the project site at least two (2) days prior to the start of work on each street, but not more than seven (7) days prior to the start of work on each street. Signs shall be removed within five (5) days of completing all work on each street. The Contractor shall notify the regional notification center for operators of subsurface installations (USA-Underground Service Alert: 1-800-227-2600), at least four (4) working days, but not more than fourteen (14) calendar days, prior to commencing any excavation for construction area sign posts.

The bottom of the mounted sign panel shall be seven (7) feet above existing grade.

SP13-02 MEASUREMENTS AND PAYMENT

Construction area signs shall be counted and paid based on the number of sign panels installed regardless of the number of sign posts installed.

The Contract Price paid per each for "Construction Area Sign" shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all work involved in furnishing, erecting, maintaining, and removing all construction area signs, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

SPECIAL PROVISIONS SECTION SP-14

TRAFFIC CONTROL

(BID ITEM NO. 4)

TEMPORARY PAVEMENT DELINEATION

(BID ITEM NO. 58)

SP14-01 GENERAL

Work shall conform to the requirements of Section 6-12, "Traffic Control," of the General Provisions and Section 15-4, "Removal of Existing and Temporary Traffic Stripes and Pavement Markings," of the Technical Provisions of the Standard Specifications. Nothing in these Special Provisions shall be construed as relieving the Contractor from his/her responsibilities as specified in said sections. Any traffic striping or markings that are removed due to any phase of work shall be replaced, or re-aligned if required, with temporary traffic stripes or pavement markings. All temporary striping and markings shall be placed the same day the permanent striping or markings are removed and they shall be placed before opening the roadway to public traffic.

SP14-02 ROAD CLOSURE AND HOURS

Contractor's attention is directed to noticing requirements in Section SP6-01.

Road closures shall only be permitted during the pavement pulverization, grading, cement treating, and finish-course paving phases of work. Road closure hours for those phases of work shall be allowed between 8:30 a.m. and 4:30 p.m. with the following exceptions:

Road closure hours on Panorama Drive, Cambridge Drive, and Palo Alto Drive shall be as follows:

- June 20, 2016, through August 19, 2016, Road Closure hours shall be 8:30 a.m. to 4:30 p.m. Monday through Friday, excluding holidays.
- Prior to June 20 and after August 19, 2016, road closure hours shall be 9:30 a.m. to 2:00 p.m. Monday through Friday, excluding holidays.

The Contractor may work under lane closure conditions in accordance to these Specifications before and after the allowable road closure dates and hours.

Contractor shall stage and sequence work such that road closures and disruptions to mobility of the public are minimized. Even under road closure conditions, Contractor shall make best efforts to allow passage of vehicles through the work zone when doing so does not interfere with active, critical work. This includes but is not limited to accommodating residents with medical, health, or safety-related needs (doctor appointments, emergency access, and access requirements due to physical disabilities). If work requiring closure is not actively in progress during allowed closure hours, the Engineer may order the road opened to public traffic. The Contractor shall coordinate road closures with garbage and recycling collection to ensure continuation of service during the construction period.

The full width of the traveled way shall be open for use by public traffic at all other times. Notwithstanding anything to the contrary, emergency vehicles shall be provided immediate access through the construction area at all times.

SP14-03 MEASUREMENT AND PAYMENT

The contract lump sum price paid for “**Traffic Control**” shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals needed to perform all traffic control work, for all phases of the work performed by the Contractor or the Contractor’s “subcontractors” including, but not limited to, all signs, barricades, steel plates, traffic control plan, maintaining traffic, lane and road closures, flagmen and all other traffic control devices; and all other work as shown on Standard Plans, as specified in the Standard Specifications, the State Specifications, these Special Provisions, and as directed by the Engineer and no additional compensation shall be allowed therefor. There shall be no additional compensation for traffic control due to an increase in the quantities shown on the bid proposal for pay items within the project limits.

Traffic Control required by work which is classified as extra work, as provided in Section 9.3, “Extra Work”, of the General Provisions of the Standard Specifications, will be paid for as part of said extra work.

The contract lump sum price paid for “**Temporary Pavement Delineation**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals and for doing all the work necessary to lay out, place, maintain, and remove temporary pavement striping, legends, arrows, glue down delineators, markers and markings, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-15

DUST CONTROL
(NO BID ITEM)

The provisions of Section 4, "Dust Control and Watering", of the Technical Provisions of the Standard Specifications shall apply in their entirety and as supplemented herein.

SP15-01 GENERAL

On streets receiving pulverization and cement treatment, Contractor shall keep the pulverized or cement-treated street moist to control dust, using a water truck or other similar equipment. The street surface shall be moistened a minimum of four times each day (including weekends), and more often as needed to control the dust. If the road becomes too wet, and vehicles track material onto adjacent surfaces, or the wet condition poses a hazard to drivers, the Contractor shall modify his dust control method accordingly to remedy the situation.

SP15-02 PAYMENT

No separate payment shall be made for conforming to the provisions of this section. Full compensation for conforming to all the provisions of this section shall be considered as included in the prices paid for various contract items of work and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-16

CLEARING AND GRUBBING, TREE TRIMMING, REMOVAL
AND PROTECTION
(BID ITEM NO. 5, 6)

The provisions of Section 2, "Clearing and Grubbing," Section 21, "Tree Trimming and Removal," and Section 22-3, "Tree and Plant Protection," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP16-01 GENERAL

In addition to requirements of the Standard Specifications, clearing and grubbing work shall also include removing and/or relocating landscape borders, decorative rocks, and similar decorative features that conflict with planned construction. Where they occur, Contractor shall salvage these features by placing removed items in a neat stack at an adjacent location on the property frontage to be designated by the Engineer.

All cleared and grubbed areas shall be approved by the Engineer before further grading commences.

SP16-02 MEASUREMENT AND PAYMENT

The contract lump sum price paid for “Clearing & Grubbing, Tree Trimming, and Tree Protection” and per each for “Tree Removal” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work involved in implementing tree protection measures, clearing and grubbing, tree trimming and removal, and all other work as shown on the Plans, as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor

SPECIAL PROVISIONS SECTION SP-17

EXISTING HIGHWAY FACILITIES

(BID ITEM NO. 7-24)

SP17-01 GENERAL

Work shall consist of removing, abandoning, relocating, or protecting existing facilities which interfere with construction. Work performed in connection with various existing highway facilities shall conform to applicable provisions of Section 7, “Existing Utilities,” of the General Provisions, Section 2, “Clearing and Grubbing,” and Section 22, “Protection and Restoration of Existing Improvements,” of the Technical Provisions of the Standard Specifications, these Special Provisions, and as directed by the Engineer.

The Contractor shall fully document pre-construction conditions at all points around the work area. This documentation shall consist of notes, still photographs, and video. Special effort shall be made to document the existing conditions at all buildings and private improvements not to be disturbed. These documents shall be available to the City upon request.

If Contractor damages or destroys materials or facilities designated on the Plans, in these Special Provisions, or by the Engineer to be protected, salvaged or reused, he shall repair or replace them in kind at his sole expense.

SP17-02 REMOVALS

Contractor’s attention is directed to Section 6-11, “General Safety,” of the Standard Specifications General Provisions, and Section SP-27, “Temporary Pavement Delineation,” of these Special Provisions.

Removals of existing road facilities not considered to be included in other Contract Work include—concrete, paver, or asphalt concrete driveway, pathway, sidewalk, shoulder, and other flatwork; concrete curb and gutter; over-pour at lip of concrete gutter; storm drain pipes, structures, ditches, and channels; and mailbox pillars. All other removals as shown on the drawings and as directed by

the Engineer to accommodate new construction as intended by Contract, for which no specific Bid Item is shown, shall be considered as incidental work.

Where existing curb and gutter is to be removed and replaced, and the adjacent pavement is intended to remain, removal work shall include the removal of said curb and gutter and a sufficient area of the adjacent pavement to a proper depth to allow the forming and construction of the replacement new curb and gutter.

For removals that involve sawcutting, all sawcut lines shall be approved by the Engineer prior to sawcutting. Sawcutting of gutter lips shall be to a neat, straight line in alignment with the projected gutter lip line of adjacent sections. Removal of obstructions in gutters shall be done with care so as to avoid damaging the underlying gutter to remain.

Removals of area in preparation for new construction shall extend to a depth that is sufficient to accommodate the new improvements to be constructed, including any necessary subgrade. Otherwise, removal shall extend to a depth at least six inches below the surface of the final condition required by Contract.

Storm drain facilities adjoining those designated to be removed shall be protected. Except where Contract Work requires a replacement facility, or otherwise directed by the Engineer, openings leading to/from the facility to be removed shall be plugged per Section 2-5 of the Technical Provisions of the Standard Specifications.

Relocation and repair of sanitary sewer laterals shall conform to Section 22-8 of the Technical Provisions of the Standard Specifications.

Where existing facilities such as pavers, flagstones, fencing, and miscellaneous property frontage improvements are required to be removed temporarily to provide clearance for construction, upon completion of said construction they shall be reset to their original location and alignment, in a condition equal to or better than that pre-existing.

The Engineer may direct Contractor to salvage components of private improvements designated to be removed. In such cases, Contractor shall take care to remove the components in a manner to reasonably minimize damage and stockpile them neatly in a location designated by the Engineer.

SP17-03 MONUMENTS AND PROPERTY CORNERS

All monuments and property corners are to be preserved unless designated on the plans to be replaced. The Contractor shall bear the expense of replacing and recording with the County any monument or benchmark that is disturbed and was not designated to be replaced. Replacement shall be done only under the direction of and in the presence of the Engineer or a licensed surveyor.

SP17-04 REMOVE AND RELOCATE MAILBOX

Existing mailboxes shall be removed and reset on a new redwood post, or existing post if the owner of the mailbox prefers to salvage and re-use a painted or decorative post. Mailbox removal locations shall be as shown on the Plans or any location that an existing mailbox interferes with contract work. The exact relocation shall be designated by the Engineer or mail carrier. Mailboxes shall be removed reset during the same work day. The new installation shall be in accordance with Contra Costa County Detail CA90i, "Mailbox Details," or matching the existing condition (post, footing, mailbox, size, color), whichever is of a higher quality or more expensive construction in current dollars. To coordinate with other construction, Contractor may set a mailbox in a temporary condition acceptable to the Engineer and the mail carrier.

Architectural pillars containing mailboxes shall be removed while salvaging the mailbox to be relocated to a standard post as described above. The pillar foundation shall be removed to a point six inches below the grading plane of any new construction shown to occur at that location.

All excavation resulting from removals shall be backfilled with Class II aggregate base and compacted to 90% relative compaction.

SP17-05 LOWERING AND RAISING MANHOLE COVERS AND RODDING INLETS

Work involves storm drain, sanitary sewer, gas and similar utility manhole covers and sanitary sewer rodding inlets. Work consists of initially lowering these facilities to accommodate construction and subsequently raising them to finished grade in conformance with Section 22-9 of the Technical Provisions of the Standard Specifications.

Before excavating the existing roadway, manhole structures and rodding inlets located within repaving limits shall be lowered to a point below the final roadway planing, pulverizing, or excavation depth. If a manhole or rodding inlet condition does not allow said lowering, then the facility shall be lowered as much as practically possible using all reasonable means. Contractor shall then coordinate his construction equipment, means, and methods to avoid damage to the facility during construction.

Adjustments below the planing, pulverizing, or excavation depth shall include but not be limited to placement of temporary false bottoms in manholes, removal of existing concrete collars, cutting riser pipes, salvaging the existing frames and covers, removal of riser rings, placing and securing in place an acceptable temporary steel cover below the required depth, and placement of temporary asphalt concrete over and around the temporary cover to allow safe passage of vehicular traffic prior to and following roadway excavation. Each false bottom shall be constructed of two pieces of standard-grade plywood, or similar material, that is hinged together so that they can be folded in half to fit through the manhole opening. The false bottom shall be set securely near the bottom of the manhole structure above the sewer flowline, in a manner so as to ensure that flow in the manhole is not impeded by debris entering the manhole inadvertently. Any debris that does enter the manhole or inlet shall be immediately removed. For rodding inlets, the adjustment shall include placing a

temporary plug in the riser pipe and covering the pipe with a temporary steel lid. The plug shall be a mechanical type plug. Inflatable plugs shall not be allowed.

Manholes and rodding inlets located within new paving limits shall be raised to finished grades per Section 22-9.2 and Section 22-9.3 of the Standard Specifications, Technical Provisions, following the placement of the final lift of asphalt concrete. For all rodding inlets, the maximum distance between the finished pavement grade and the top of the riser pipe shall be six (6) inches. If the distance to the top of the riser pipe is greater than six (6) inches, the riser shall be extended with a new section of pipe connected with a mechanical fitting that produces a smooth interior with no offset or obstruction. The adjusted sanitary sewer manholes and rodding inlets shall conform to all utility company standards and requirements.

Frames and covers for sanitary sewer manholes may be re-used if they are in good condition and if the manhole covers have a nominal diameter dimension of twenty-five inches (25"). Existing frames and covers that exceed this dimension shall be replaced. In this case, the Central Contra Costa Sanitary District shall provide new frames and covers to be installed by Contractor. At its discretion CCCSD may also elect to provide new sewer rodding inlet frames and covers to be installed by Contractor. Contractor shall coordinate the delivery and integration of materials to be furnished by CCCSD with the District representative.

CCCSD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-06 LOWERING AND RAISING EXISTING UTILITY VALVE FRAMES AND COVERS

Work consists of initially lowering utility valve frames and covers to accommodate construction and subsequently raising them to finished grade in conformance with Section 22-9 of the Technical Provisions of the Standard Specifications.

Before excavating the existing roadway, utility valve frames, covers and riser pipes shall be lowered to a point below the final roadway planing, pulverizing, or excavation depth. These facilities shall be subsequently adjusted to finished grade in conformance with Section 22-9.2 of the Standard Specifications Special Provisions. Extension of the riser pipe shall be made using similar material and the two pipes shall be mechanically connected to provide a smooth interior with no offset or obstruction.

Water valves shall be adjusted to grade using a new "G5" box as shown in the detail in Appendix A. The G5 boxes will be provided by the East Bay Municipal Utility District (EBMUD) free of charge. Contractor shall coordinate the delivery or pick-up and integration of materials to be furnished by EBMUD with District representatives. All other frames and covers, shall be adjusted reusing the existing riser and cover with a concrete collar and that is topped with asphalt concrete.

Contractor shall phase his work so that all water valves are lowered for a maximum of 20 calendar days prior to being raised to finished grades. In the event that Contractor fails to adjust the valves to grade and make them fully accessible within twenty (20) calendar days from the initial lowering, Contractor expressly agrees to defend, indemnify, and hold harmless City of Lafayette, EBMUD and their Directors, officers, agents, and employees from and against any and all loss, liability, expense, claims, suits, and damages, including attorneys' fees, arising out of or resulting from the inability to operate said valves.

EBMUD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-07 UTILITY BOX ADJUSTMENTS

Where utility boxes are encountered within the limits of the planned work, Contractor shall adjust utility boxes to the new finished grade. Said adjustment shall include relocation of boxes to a new location as necessary to accommodate new construction. Relocation shall require Contractor to modify and extend the associated existing plumbing to the new location.

For water meters, Contractor shall coordinate with EBMUD to obtain new utility boxes and integrate them into the Work. All boxes shall be placed securely in place on a compacted base in native material, asphalt concrete, or concrete as applicable, in a manner that would not result in settling over time. The boxes shall be set so that they are accessible by utility personnel.

EBMUD at its sole discretion may elect to adjust its own facilities. In that case, the quantities shown on the Bid Schedule shall be adjusted accordingly, and Contractor shall comply with Section 22-9.3 of the Standard Specifications Special Provisions.

SP17-08 NOT USED

SP17-09 MEASUREMENT AND PAYMENT

No separate payment shall be made for conforming to the provisions of this section, with the exception of the items specified below. Full compensation for conforming to all the provisions of this section, including minor removal work and the resetting of temporary removals, for which no specific payment is allowed in Contract, shall be considered to be incidental work included in prices paid for various other contract items of work, and no additional compensation will be allowed therefor.

The contract unit prices paid per each for "Lower Existing Manhole or Rodding Inlet Frame" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to lower the frames and covers; including, but not limited to- locating, referencing, and setting marks; lowering the facility; placement of "false bottoms"; cleaning out the structure or riser; placement of temporary cover; placement of temporary asphalt concrete;

maintain temporary asphalt concrete; and all other work as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Adjust Existing Utility Valve Frame and Cover”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to lower and adjust to finish grade water valve covers, including but not limited to- locating, referencing, and setting marks; all coordination work; lowering the facility; raising the facility to finished grade; placement of temporary and permanent asphalt concrete; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefore. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Raise Existing Manhole or Rodding Inlet Frame and Cover to Grade”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to raise the frames and covers, including but not limited to- locating, referencing, and setting marks; all coordination work; raising the facility to finished grade; placement of concrete collars and temporary and permanent asphalt concrete; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The contract unit prices paid per each for **“Adjust Utility Box to Grade”** include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in adjusting the facilities to grade complete in place, including all required excavation, backfilling, compaction, placing of temporary asphalt concrete, and permanent restoration to match surrounding materials, and all other work as shown on the plans and/or applicable standard plans, and as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The Contract Price paid per each for **“Relocate Mailbox on New Post,”** and **“Remove Brick Pillar Containing Mailbox/Reinstall Mailbox on New Post,”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to perform the demolition, removal, disposal or salvaging as directed, remove and reset mailboxes, including, but not limited to all excavation and backfill, temporary installations, new mailbox posts and concrete footings, and all other work as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract Prices paid per square foot for **“Remove Concrete Driveway, Sidewalk or Shoulder,” “Remove Paver Driveway or Pathway,” “Remove Asphalt Concrete Driveway, Pathway, Shoulder or Conform,” “Remove Concrete Ditch or Channel,”** and **“Remove Concrete Valley Gutter”** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to sawcut, remove, dispose of and/or salvage existing improvements, and all excavation and preparation required to accommodate new improvements as shown on the contract plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract Prices paid per linear foot for **“Remove Concrete Curb and Gutter”** and **“Remove Concrete Curb”** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to remove and dispose of existing concrete curb and gutter, adjacent asphalt pavement or other paving as necessary to accommodate form boards, and all excavation and backfill as required to accommodate new improvements as shown on the contract plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Contract quantities may be reduced or eliminated based on work to be performed by others. No adjustment in the bid item price shall be allowed due to any change in contract quantities.

The Contract Prices paid per linear foot for **“Sawcut Gutter Lip”** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals necessary to sawcut, remove, and dispose of the overpour or uneven edges of the existing concrete gutter where noted on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract Prices paid per linear foot for **“Remove Storm Drain Pipe (Various Sizes)”** and per each for **“Remove Drainage Inlet”** and **“Remove Concrete Headwall”** shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to excavate, sawcut, remove, and dispose of the existing facilities, including shoring and backfill where required, and all other work as noted on the plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract Prices paid per linear foot for **“Relocate/Repair Sanitary Sewer Lateral”** shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to excavate, sawcut, remove, and dispose of the existing facilities, install new improvements and make all connections, including shoring, bedding and backfill, and all plumbing modifications where required, and all other work as noted on the plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-18

FULL-DEPTH ASPHALT CONCRETE RECYCLING
(BID ITEM NO. 50-51)

The provisions of Section 11, "Full-Depth Asphalt Concrete Recycling," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP18-01 GENERAL

Pulverizing and mixing shall be performed using a pulverizing machine. A grinding machine shall not be acceptable.

Per Section SP-7, "Existing Utilities," of these Special Provisions, Contractor shall pothole to confirm all utilities are below the designed street pulverization depth, and that utilities will not be damaged while pulverizing and mixing the existing asphalt concrete, base and subgrade material. Contractor shall take precautions to protect manholes, valves, and similar facilities that have been lowered to the lowest grade possible but are still within the designed pulverizing depth. Pulverizing and mixing of the roadway over these facilities shall be at a depth that provides a minimum of 6-inches of clearance.

Contractor's attention is directed to SP-20-02, "Roadway Excavation," regarding the removal of excess pulverized materials prior to grading and compaction of new subgrade.

All streets designed to receive cement treatment shall be treated within three (3) working days of the pulverizing being completed. The asphalt concrete base course shall be installed within three (3) working days after the minimum 48-hour cure time of the cement treatment. Each day after the total eight-working-day period described above, failure to complete the base course per these Special Provisions shall constitute a violation subject to a penalty of \$250 per violation per street. Said penalty assessment shall be deducted from any payments due to Contractor. In addition, the Engineer may require the implementation of additional dust control measures as outlined in Section SP15 "Dust Control" of these Special Provisions.

SP18-02 MEASUREMENT AND PAYMENT

The final pay Contract Price paid per cubic yard for "Full-Depth Asphalt Concrete Recycling" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals, and for doing all the work, including, but not limited to- potholing; pulverizing; asphalt dike removal within the pulverizing limits; mixing; moisture conditioning; grading; and compacting pulverized material; constructing, maintaining, removing, and disposing of temporary ramps; dust

control; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Cement treatment is measured and paid separately as follows.

The final pay Contract Price paid per cubic yard for “**Cement Treat Pulverized Base Material**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals for doing all work involved including but not limited to- furnishing, spreading and mixing cement and water; grading; excavation; shaping; compaction; trimming; curing; monitoring and maintenance over weekends and holidays; dust control; proof-rolling; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

Payment for excavating, loading, offhauling and disposal of unstable material shall be paid as extra work at the contract item price per cubic yard for “Roadway Excavation,” and shall conform to the provisions of Section SP-20, “Excavations,” of these Special Provisions. Payment for backfilling unstable areas with asphalt concrete as base repairs shall be paid at the contract item price per ton for “Asphalt Concrete Pavement,” and shall conform to the provisions of Section SP-22, “Asphalt Concrete,” of these Special Provisions.

The quantities shown for “Full-Depth Asphalt Concrete Recycling” and “Cement Treat Pulverized Base Material” on the Bid Schedule shall be “Final Pay” quantities in accordance with the provisions of Section 9-6 of the General Provisions or the Standard Specifications.

SPECIAL PROVISIONS SECTION SP-19

AGGREGATE BASE **(NO BID ITEM)**

The provisions of Section 8, “Aggregate Base”, of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

For certain installations, in lieu of Class II aggregate base, Contractor may be allowed to use pulverized material with maximum-size aggregates less than two (2) inches, generated from Project Work. The pulverized material shall be free of organic and other deleterious debris. The Engineer shall determine whether the material is suitable as a substitution based on inspection. The Engineer’s decision shall be at his sole discretion, shall be final, and shall not constitute a contract change.

SP19-01 MEASUREMENT AND PAYMENT

There shall be no separate measurement or payment for furnishing and placing the aggregate base used in the construction of the various items of work shown on the Plans, bid proposal, and specified herein, and full compensation shall be considered as included in the contract unit prices paid for those bid items requiring aggregate base, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-20

EXCAVATIONS **(BID ITEM NO. 52)**

SP20-01 GENERAL

Excavation of all kinds shall conform to Section 3, "Earthwork," of the Standard Specifications Technical Provisions.

Pavement cores were obtained to determine the existing pavement section thickness and subgrade material. The cores for this project do not reveal any concrete in the areas to be excavated. The coring locations are shown on the Contract Plans.

Contractor's attention is directed to Section 6-5, "Weight Limitation," of the General Provisions of the Standard Specifications.

SP20-02 ROADWAY EXCAVATION

Work shall include the excavation and disposal of pulverized materials determined by the Contractor to be excess, as part of the Full-Depth Asphalt Concrete Recycling process. Said excavation and disposal shall be to achieve the structural section as shown on the plans and in these Special Provisions. All material not suitable or used as road subgrade, shoulder backing, or backfill shall be considered excess. The excess material shall be removed with a grinding (or milling) machine conveying material directly into hauling trucks, which immediately off-haul the material from the work-site. Disposal shall be in accordance with the provisions of Section 6-16, "Disposal Outside Project Limits," of the General Provisions of the Standard Specifications.

Excess pulverized/mixed material will consist of asphalt concrete, base material and native material, and may contain reinforcing fabric and/or other particles that are a by-product of asphalt concrete. The City makes no guarantee that the material will be reusable or recyclable. No additional compensation shall be allowed to the Contractor if the pulverized material is deemed not reusable or recyclable. Any testing, if required, by the disposal site shall be arranged and paid for by the Contractor.

SP20-03 MEASUREMENT AND PAYMENT

Unless otherwise provided by a Contract Bid Item, there is no separate measurement or payment for excavation associated with various Contract Work, such as curb and gutter, walkway, driveways, storm drains, and minor structures. All excavation and backfill necessary to construct all Contract Work shall be considered as included in the Contract Prices paid for the various items of work.

The final pay Contract Price per cubic yard for "Roadway Excavation" shall include full compensation for all labor, materials, tools, equipment and incidentals, and all work involved, to remove, load, handle, off-haul, and dispose of materials as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The quantities shown for "Roadway Excavation" on the Bid Schedule shall be a "Final Pay Quantity" in accordance with the provisions of Section 9-6 of the General Provisions of the Standard Specifications.

SPECIAL PROVISIONS SECTION SP-21

COLD PLANING
(BID ITEM NO. 53)

The provisions of Section 13, "Cold Planing," of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP21-01 GENERAL

Work includes milling pavement in areas to receive an asphalt concrete inlay. Cold planing of areas to receive inlay include grinding to correct the grades and cross-slope of the existing roadway. In some areas Contractor may be required to make multiple passes to achieve the desired grades.

SP21-02 MEASUREMENT AND PAYMENT

The Contract Price per square yard for "Cold Plane Pavement" shall include full compensation for all labor, materials, tools, equipment and incidentals, and all work involved, including but not limited to-sawcutting; grinding; milling; excavating; loading, hauling, and disposing of all grinding material, including asphalt concrete, aggregate base, or subbase; constructing, maintaining, removing, and disposing of temporary ramps; and all other work as required to construct Contract Work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-22

ASPHALT CONCRETE
(BID ITEM NO. 54-57)

The provisions of Section 9, "Asphalt Concrete", of the Technical Provisions of the Standard Specifications shall apply in its entirety except as modified or supplemented herein. Failed pavement area repair shall conform to Section 5, "Street Failed Area Repair," of said Technical Provisions.

SP22-01 DRIVEWAYS, PATHWAYS, AND SHOULDER CONFORM PAVING

Asphalt driveway, pathway and shoulder conform limits are approximate. The Engineer will delineate actual conform lines prior to the start of work. Substrate conditions for conform paving differ depending on the project location as shown on the Plans. Conform paving may be installed on existing pavement, on existing base, or on new subbase. In all cases, a paint binder (tack coat) conforming to Standard Specification Technical Provision Section 9-11 shall be required. When conform paving is installed on unpaved base materials, the minimum thickness of finish asphalt concrete paving is three (3) inches.

Where asphalt concrete thickness is required to be three (3) inches minimum, Contractor may install asphalt concrete in multiple lifts to a total thickness greater than three (3) inches to meet the design or conform grades. At Contractor's option, suitable backfill materials may be used to prepare the subgrade such that the finish asphalt concrete paving meets the three (3) inch minimum. Suitable backfill may be Class II Aggregate Base conforming to SP-19 or pulverized material, having maximum-size aggregates less than two (2) inches, generated from Contract Work and determined to be suitable by the Engineer.

Where a new subbase is required per the Contract Plans, the subgrade shall be excavated and compacted to the required depth to accommodate the design structural section. New subbase shall be six (6) inches minimum, consisting of Class II aggregate base conforming to SP-19 and compacted to 95% relative compaction.

All conforms shown adjacent to a berm of any type shall be paved at the same time as the berm placement and shall be compacted with a vibraplate, small roller, or similar compactor, at the time of placement.

SP22-02 ASPHALT BERM (DIKE)

Berms, or dikes, shall be in accordance with applicable details shown on State Standard Plans. Berm locations include those shown on the Plans.

Prior to placement of the berm, the underlying pavement shall be thoroughly cleaned and a tack coat per Standard Specifications Technical Provisions Section 9-11 shall be applied to the pavement surface. The berm shall be placed and compacted utilizing a self-propelled mechanical extruding machine capable of achieving the lines and grades shown on the Plans and the finished dimensions for the specified type of berm. The Contractor shall protect newly-placed berm to allow sufficient time for curing. Berms that slough, fall apart, or otherwise become damaged before curing shall be completely removed and replaced at the Contractor's expense. If a section of berm looks "patched," it shall be entirely removed and replaced with a conforming berm that is smooth and uniform in appearance.

Berms shall be reduced to 2-inches in height at driveways. The top of the berm at driveways shall be compacted with a vibraplate, or similar compactor, at the time of placement. Driveway and shoulder conforms adjacent to any asphalt concrete berms shall be placed and compacted at the same time as the berms to achieve a monolithic construction.

The ends of new berms shall be painted white with two coats of traffic paint for a minimum length of one foot, and a Type "C" pavement marker shall be placed on top of the berm where it tapers to end.

Private drain lines terminating near the edge of the existing road shall be extended through the face of new Type 'A' asphalt berm using 3" diameter schedule 40 PVC pipe. Contract Work for the installation of new asphalt berms shall include extending said drain lines to the new face of berm and integrating them into the new construction.

All berms shall be backed with either asphalt concrete conform paving, select fill, pulverized material, aggregate base, topsoil, gravel, or other material that matches the existing surrounding shoulder material.

SP22-03 MEASUREMENT AND PAYMENT

The contract unit price paid per ton for "**Asphalt Concrete Pavement**" shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals to complete the necessary work, including but not limited to- cleaning existing pavement; furnishing, transporting, placing, spreading and compacting asphalt concrete; tack coat binder; constructing, maintaining, removing, and disposing of temporary asphalt concrete ramps; all roadway conform paving; any necessary corrective measures; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract unit prices paid per square foot for "**AC Driveway, Pathway, or Shoulder on Existing Base Material**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals and for doing all work involved including but not limited to- excavation required to install required structural section; subgrade preparation; cleaning; tack coat; furnishing, placing, spreading, and compacting the asphalt concrete to the specified depth; and all other work as

shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The contract unit prices paid per linear foot for “Asphalt Berm” of various types shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to construct the asphalt concrete dike including but not limited to- cleaning; tack coat binder; placing, compacting, protecting and backfilling berms; white traffic paint and Type “C” markers on berm ends; incidental extension of private drain pipes to be incorporated into the berm construction; and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor. Note that in certain constructions the payment of backfill of berms may be included in other items of work elsewhere in the Contract.

SPECIAL PROVISIONS SECTION SP-23

CONCRETE CONSTRUCTION

(BID ITEM NO. 25-37)

The provisions of Section 17, “Concrete Construction,” of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein. Section 17-7 of said Technical Provisions shall also apply to construction of storm drain inlets.

SP23-01 GENERAL

All new curb, gutter, driveways, and storm drain structures shall conform to the latest applicable Contra Costa County (CCC) Public Works Department “Standard Plans” unless otherwise specified or modified by Contract Documents. All new concrete construction shall include installation of a subbase consisting of a minimum six (6)-inch-thick layer of Class 2 aggregate base, conforming to SP-19, compacted to 95% relative compaction. Work also includes constructing dowelled connections between new and existing facilities.

All new inlet tops shall have a City-furnished sticker, stating “No Dumping – Drains to Creek.” affixed to the curb or other logical nearby location.

All new storm drain connections to new or existing storm drain inlets or manholes shall include a weep hole to drain the pipe backfill. Weep holes shall only be required where new storm drains enter the structure.

All new storm drain inlets shall have one 4” PVC schedule 40 pipe stubbed into the structure for future private drain connections. Pipe shall extend a minimum of 6 inches beyond the outside wall of the structure and as directed by the engineer. Pipe shall be capped with a PVC cap.

The void between the back of new concrete curbs, inlets, and driveways and the surrounding terrain

shall be filled with material to match existing surrounding material. This material is typically topsoil, gravel or base rock. Fill material shall be placed and compacted to the top of the new concrete improvements and sloped at a maximum of 3:1 to conform to the existing terrain. The fill material shall be compacted to 90% relative compaction. In areas where topsoil is placed, a 1-inch layer of mulch shall be placed over the topsoil.

SP23-02 CONCRETE REQUIREMENTS

Concrete used for all items on this project shall be Class 564-C-3250 with minimum 28-day compressive strength of 3,250 pounds per square inch. The maximum slump shall be four (4) inches.

SP23-03 MINOR CONCRETE CONSTRUCTION

Curb and gutter shall match existing curb and gutter configuration except that 6 inches of base rock shall be placed under new curb and gutter.

Where existing curb is of colored concrete contractor shall make every effort to match the existing color.

Where curb drains exist in curb and gutter to be removed and replaced, Contract Work for the replacement new curb and gutter shall include extending said drain lines to the new face of curb and integrating them into the new construction conforming to the details shown on the Plans or various Standard Plans.

In modifying inlet tops, Contractor shall remove existing tops of inlets in any manner that protects the base of the inlets and their connections to storm drain pipes. Precautions shall be taken to avoid introducing debris into the storm drain system. New inlet tops shall be cast in place and dowelled into the existing inlet base per details on the Plans. Dowels shall have a maximum spacing of 6 inches.

Dowels used in connections between new and existing facilities shall be #4 rebars, 12" long. The dowels shall be in drilled holes, grouted and spaced in conformance with the details shown on CCC Standard Plan CA74i and these Special Provisions. All dowels shall have a minimum 1 ½" concrete cover.

Contractor's attention is directed to the potential existence of private irrigation facilities located behind the existing curb and gutter or at drain inlet locations. Coordination, protection, and relocation of these facilities are considered incidental to Contract Work per Section 7 of the Standard Specifications General Provisions. Contractor shall repair any damage on the same day that it is caused by his activities, to a fully functional condition.

SP23-04 PATH OF TRAVEL TACTILE SURFACES

The color of detectable tactile warning panels shall be onyx black (Federal Color No. 17038). Contractor shall submit a six (6)-inch square sample of the product to be used, along with the manufacturer's product data and "cut-sheets" for review and approval prior to ordering. The detectable warning surface shall conform to:

1. Americans with Disabilities Act (ADA) Title III Regulations, 28 CFR Part 36 "ADA Standards For Accessible Design," Appendix A, Section 4.29 for "Detectable Warnings."
2. Division of the State Architect - Access Compliance (DSA-AC) approved detectable warning products as provided in the California Code of Regulations (CCR) Title 24, Part 2, Section 205 definition of "Detectable Warning."

City may accept products from ADA solutions (800-372-0519), Answer Industries (909-230-4064), and Armor-Tile (916-844-4132).

SP23-05 CONFORM PAVING

Unless otherwise specifically provided elsewhere in these Special Provisions, conform paving adjacent to new concrete construction, such as curb, gutter, inlets and associated aprons, and valley gutter shall be considered to be included in the Contract Work to construct those items. Asphalt concrete for conform paving shall conform to SP-22.

SP23-06 MEASUREMENT AND PAYMENT

The Contract Price paid per linear foot for **"Concrete Curb and Gutter," "Concrete Curb,"** per square foot for **"Concrete Driveway," "Concrete Sidewalk," "Concrete Channel"** and **"Concrete Curb Ramp with Detectable Panel"** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to complete the work, including but not limited to- sawcutting; excavation and preparing subbase; dewatering; loading, hauling, and disposal of spoils; forming, placing, and finishing concrete; backfill; conform paving; doweled connections; setting tactile surfaces in accordance with manufacturer's instructions, and all other work necessary to construct the facility complete and in place as shown on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract Price paid per each for the **retrofit and installation of various drainage structures (inlets and manholes)** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals for doing all work involved, including but not limited to- sawcutting; removals where needed; excavation and preparing subbase; dewatering; loading, hauling, and disposal of spoils; forming, placing, and finishing concrete; installing frames and grates; backfill; doweled connections; and all other work necessary to construct the facility complete and in place as

shown on the plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

“Concrete Curb Ramp with Detectable Panel” shall be measured as the ramp area up to the outer most groove line defining the ramp, up to and including the adjacent retaining curb where it exists, and inclusive of the detectable panel. The retaining curb associated with a curb ramp shall not be paid separately as a curb item.

Concrete inlet aprons, regardless of size, are measured and paid per linear foot as “Concrete Curb and Gutter.”

SPECIAL PROVISIONS SECTION SP-24

STORM DRAINS (BID ITEM NO. 38-47)

The provisions of Section 18, “Storm Drains”, of the Technical Provisions of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP24-01 PRIVATE DRAIN MODIFICATIONS

At the locations shown on the Plans, and possibly at additional locations if unseen private drains are encountered during storm drain installation, private drain pipes shall be extended and connected to a downstream inlet or storm drain pipe. Piping and connections shall be per Plan Details. Work shall include excavation, pipe, fittings, grate, connectors, backfill, compaction and all other work to install a complete functional drain system.

SP24-02 CONNECTIONS

Connections between new and existing storm drain pipes and structures shall be made with a concrete collar per details shown on the Project Plans. Openings in existing structures shall be made with care so as to minimize damage to the structure wall, with the minimum clearance practicable to properly seat the connecting pipe into the opening. The connection point shall be grouted smooth. Extensive damage that is deemed by the Engineer to compromise the integrity of the structure shall be repaired by replacing the structure or the entire wall face. Concrete shall conform to the requirements of SP-23 of these Special Provisions.

SP24-03 EDGE DRAIN WITH CLEANOUTS

Edge drains shall be constructed per the Contra Costa County standard detail CD08 “Edge Drain Details”. Filter fabric is required to wrap around the permeable material as indicated on the standard detail.

Cleanout frame and cover shall be a traffic rated G5 box with cast iron lid. Lid shall be stamped "Cleanout".

SP24-04 LINE CORRUGATED METAL PIPE WITH NEW PIPE

The Contractor shall construct a HDPE or SDR35 liner inside the existing corrugated metal storm drain pipe as shown on the plans. At each end of the pipe the annular space between the new pipe and existing corrugated metal pipe shall be closed with brick and mortar to form a plug. The annular space between the two pipes shall be filled along the entire length of the pipe run.

The work shall include cleaning the existing storm drain pipe of all debris, rocks, and silt; filling eroded cavities with cement slurry; and dewatering or diverting water to remove all water from the pipe invert while lining work is ongoing.

Concrete Slurry for filling the annular space shall be 200-E-500. Slurry cement backfill conforming to Section 19-3.02D, "Slurry Cement Backfill," of the State Specifications shall not be used.

SP24-05 CONCRETE LINED PIPE INVERT

The Contractor shall construct an invert liner for the existing 36-inch corrugated storm drain pipe as shown on the plans.

Concrete shall be Class 560-E-3000.

This work shall include cleaning the existing storm drain pipe of all debris, rocks, and silt; filling eroded cavities with concrete; and dewatering or diverting water to remove all water from the pipe invert while placing concrete. A dry condition shall be maintained for forty-eight (48) hours after concrete liner is placed.

Concrete shall be given a steel trowel finish and cured with Type 1 curing compound (clear or translucent with red fugitive dye).

SP24-06 MEASUREMENT AND PAYMENT

The Contract Prices paid per linear foot for **installation of various pipe classes** shall be considered as full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary to perform all work, including but not limited to- potholing; sawcutting; excavation; installing various pipes with fittings; bedding and backfill; compaction; temporary asphalt concrete paving; coordination with, protecting, and supporting existing utilities; and all other work as shown on the Plans, as specified in the Standard Specifications, these Special Provisions, and as directed by the Engineer; and no additional compensation shall be allowed therefor.

The contract lump sum price paid for "**Sheeting and Shoring**" shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals for doing all the work

involved in sheeting and shoring as specified in the Standard Specifications; as required by the California Occupational Safety and Health Administration, the California Division of Industrial Safety, and all applicable laws; and these Special Provisions; and as directed by the Engineer; and no additional compensation shall be allowed therefor.

The Contract Price paid per linear foot for **“Edge Drain with Cleanouts”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals for doing all the work involved in installing edge drain and cleanouts as shown on the plans, as specified in these Specifications, and as directed by the Engineer, and no additional compensation shall be allowed therefor

The Contract Price paid per linear foot for **“Line Bottom of CMP with Concrete”, “24” HDPE Pipe Lining Existing CMP”, and “10” SDR 35 Pipe Lining Existing CMP”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals for doing all the work involved as shown on the plans, as specified in these Specifications, and as directed by the Engineer, and no additional compensation shall be allowed therefor

The contract unit price paid per each for **“Concrete Collar” and “Extend Private Drain Line to Storm Drain Line or Inlet”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals for doing all the work involved in modifying the storm drain system as shown on the plans, as specified in these Specifications, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-25

PAVEMENT STRIPING, MARKERS AND DELINEATION

(BID ITEM NO. 59-65)

The provisions of Section 15, **“Pavement Striping, Markers, and Delineation”**, of the Technical Specifications of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP25-01 GENERAL

Contractor’s attention is directed to notification requirements in Section 15-2 of the Standard Specifications Technical Provisions. No payment shall be made for any striping work performed without notification to the City conforming to the above.

During pavement striping and marking operations, the Contractor shall implement traffic control as specified in SP-14 of these Special Provisions.

SP25-02 MEASUREMENT AND PAYMENT

Traffic stripes shall be measured by the linear foot along the line of the traffic stripe without deductions for the gaps, shown on the standard details. Deductions will be made for gaps at cross streets and driveways.

Measurement for legends and markings shall be per the areas shown on State Standard Plans.

The Contract Prices paid per linear foot for **curb painting and various stripes and striping details**, per square foot for **“Thermoplastic Pavement Legends & Markings,”** and per each for **“Two-Way Reflective Pavement Markers (Blue),”** shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, including any necessary cat tracks, dribble lines and layout work; and all other work as shown on the Plans, the State Standard Plans, and as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-26

SURVEY MONUMENT
(BID ITEM NO. 66)

SP26-01 GENERAL

Contractor shall remove and dispose of existing monuments where shown on the plans or as directed by the Engineer. New survey monuments shall be set at locations shown on the Plans or as designated by the Engineer in the field in accordance with the details shown on County Standard Plan CC105, “Street Survey Monument.” Frames, covers, collars, concrete cores and brass markers shall be furnished and installed by the Contractor. The City will set reference points, prior to the start of construction, for existing survey points.

At least five (5) working days prior to the installation of monuments, Contractor shall deliver brass markers to the Engineer for the stamping of the land surveyor’s license number on the disks.

Survey monument in pavement shall be installed after the final lift of paving is completed and after the City Surveyor has set temporary straddle survey points. If permanent asphalt concrete paving cannot be placed the same day that the monument frame and collar are installed, Contractor shall place and maintain temporary asphalt concrete until the permanent pavement is placed.

SP26-02 MEASUREMENT AND PAYMENT

The Contract Price paid per each for **“Install New Monument”** shall include full compensation for furnishing all labor, supervision, materials, tools, equipment and incidentals necessary; including but not limited to- excavation; removing and restoration of asphalt concrete pavement; removal and

disposal of existing monuments; concrete collar; placement, maintenance, and removal of temporary asphalt concrete around the monument, and all other work to completely install the monument in place as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-27
MISCELLANEOUS CONSTRUCTION
(BID ITEM NO. 48-49 and 67-68)

SP27-01 GENERAL

Miscellaneous work covered under this section includes:

- Shoulder backing
- Re-grade earth ditch
- Reset brick paver surfaces
- Remove and reset dry stacked rock wall

SP27-02 SHOULDER BACKING

Contractor shall place shoulder backing along the edge of the finish course of all new asphalt concrete paving that is not confined by a concrete gutter or other paving. Shoulder backing shall also be placed behind curbs and berms, and other similar vertical edges of construction or void space to either buttress the improvement or conform the work to surrounding grades. Shoulder backing shall consist of clean native material, select fill, aggregate base, or pulverized material to best match the existing surrounding condition. Select fill and pulverized materials shall have maximum-size aggregates less than two (2) inches and be free of organic particles. Aggregate base shall be Class II conforming to SP-19.

Shoulder backing along unconfined edges of pavement is typically 4 feet wide, placed to the top of pavement finished grade, and sloped to match adjacent grades at a maximum slope of 3 to 1, horizontal to vertical. Shoulder backing behind tops of berms and curbs shall be within half an inch of top of curb/berm, and sloped to match adjacent grades as described above. Materials shall be appropriately moisture-conditioned prior to placement. Select fill shall be compacted to 90% relative compaction. Aggregate base and pulverized material shall be compacted to 95% relative compaction. Shoulder backing shall be trimmed neatly and compacted in place on the same day that the material is placed.

Conform between new pavement or improvements and decorative gravel driveways or shoulders shall be treated as shoulder backing. When disturbing such driveways and shoulders, Contractor

shall salvage sufficient existing gravel to allow for the construction of conforms. If necessary, Contractor shall import new material in kind.

SP27-03 RE-GRADE EARTH DITCH

At the location shown on the Plans and at locations designated by the Engineer, Contractor shall grade the existing earth ditch, removing all earth, vegetation, and root matter to restore positive drainage and provide a neatly-trimmed, well-defined, compacted, and stable embankment at least 18 inches high on both sides of the ditch.

SP27-04 REMOVE AND RESET DRY STACKED ROCK WALL

Contractor shall salvage with care all rocks to be reused and reset. Damaged rocks shall be replaced in kind to equal the pre-existing appearance, function, and quality. Rocks shall be keyed into the existing ground to a minimum depth of 6-inches and set to match the appearance of adjacent undisturbed sections of wall. Rock wall shall be backfilled, graded and compacted to 90% relative compaction to match surrounding undisturbed areas in grade and materials.

SP27-05 RESET BRICK PAVERS

Contractor shall salvage with care all brick pavers to be reused and reset. Damaged and broken pavers shall be replaced in kind to equal the pre-existing appearance, function, and quality. Pavers shall be set on sand or mortar to match the existing surrounding condition. Cutting shall be to a neat, straight line, with no cut unit having a minimum dimension less than three (3) inches. For pavers set in sand, a fine sand course shall be swept over the finished surface, then vibrated to lock the paver units in place.

SP27-06 MEASUREMENT AND PAYMENT

The Contract price paid per linear foot for **“Shoulder Backing”** shall be considered as full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited to- providing, placing, and compacting fill material, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract price paid per linear foot for **“Re-grade Earth Ditch”** shall include full compensation for furnishing all labor, tools, equipment, and incidentals and for doing all work involved, including but not limited to- removing vegetation, excavation, hauling and disposal of spoils, grading, and all other work as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract price paid per square foot for **“Reset Brick Paver Surfacing”** shall include full compensation for furnishing all labor, tools, equipment, and incidentals to perform all work to salvage, store, protect, and reset brick pavers, including replacement of damaged units, as shown on

the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

The Contract price paid per square foot for “**Remove and Reset Dry Stacked Rock Wall**” shall include full compensation for furnishing all labor, tools, equipment, and incidentals to perform all work to salvage, store, protect, and reset dry stacked rock wall, including replacement of damaged or lost rocks, as shown on the Plans, as specified in these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

SPECIAL PROVISIONS SECTION SP-28

TRAFFIC SIGN **(BID ITEM NO. 69)**

The provisions of Section 16, “Traffic Signs,” of the Technical Specifications of the Standard Specifications shall apply in their entirety except as modified or supplemented herein.

SP28-01 GENERAL

To relocate signs, existing posts to be removed shall be completely removed and the excavation backfilled with material matching the surrounding area and adjacent grades.

At no additional cost to the City, Contractor shall replace all signs damaged by Contractor’s operations or lost while in Contractor’s possession.

Signs posts shall be galvanized 1 ¾” Ulti-Mate square post systems or approved equal.

All road signs shall be installed with a minimum of 7’ of vertical clearance measured from the lowest point of the sign panel to the ground surface.

SP28-02 MEASUREMENT AND PAYMENT

The Contract Price paid per each for “**Relocate Traffic Sign on New Post**” shall include full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals, and for doing the work involved in removing existing signs and posts where designated, disposal of said existing posts and foundations, backfilling excavations, installing signs on new posts complete in place, including mounting hardware and new sign panels where required, and all other work as shown on the Plans, as specified by these Special Provisions, and as directed by the Engineer, and no additional compensation shall be allowed therefor.

APPENDICES

APPENDIX A

**WASTE MANAGEMENT PLAN
INSTRUCTIONS**

AND

CITY OF ORINDA ENCROACHMENT PERMIT



Planning & Building Department

3675 Mt. Diablo Boulevard, Suite 210
Lafayette, CA 94549-1968
Tel. (925) 284-1976 • Fax (925) 284-1122
<http://www.ci.lafayette.ca.us>

WASTE MANAGEMENT PLAN INSTRUCTIONS CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

GENERAL

The City of Lafayette is mandated by the State of California to divert 50-percent of all solid waste from landfills either by salvage or recycling. To help meet this goal, the City requires completion of a Waste Management Plan (WMP) for covered projects identifying how at least 50-percent of project waste materials will be diverted from the landfill. A "covered project" is defined as:

1. Construction, renovation, and demolition projects where the total costs are projected to be equal to or greater than \$50,000; and/or
2. Construction or renovation projects equal to or greater than 1,000 sq. ft.; and/or
3. Demolition projects equal to or greater than 300 sq. ft.

All phases of a project and all related projects taking place on single or adjoining parcels are considered a single project.

GREEN HALO SYSTEMS

For a covered project, applicants are required to submit their WMP to the City using Green Halo Systems. Green Halo is a free web-based service for waste diversion and recycling tracking. Through Green Halo, applicants can establish, monitor and document their waste management plan and compliance online. Applicants can set-up a Green Halo account at www.greenhalosystems.com. For applicants who do not have access to the internet, Green Halo can set-up an account over the phone at 1-888-525-1301. Once an applicant has created a Green Halo account, they can track and manage multiple projects for different jurisdictions on their account.

PROCEDURE

Prior to issuance of a grading, demolition, and/or building permit for a covered project:

1. Submit a non-refundable administrative fee, payable to the City of Lafayette. See "[Planning Fees](#)" handout for current rate.
2. Submit a WMP to the City using Green Halo that includes the following:
 - a) Identification of all the materials you estimate will be recycled, salvaged, or disposed; and
 - b) Identification of which [certified C&D facilities](#) the various material types will go.
3. Green Halo will notify the City that a WMP has been submitted. The City will review the submitted WMP on Green Halo. The WMP will only be approved when all of the following conditions have been met:
 - a) The WMP provides all information noted above; and
 - b) The WMP indicates that at least 50% of all construction and demolition debris generated by the project will be diverted.
4. The WMP will be approved or not approved. If the WMP is incomplete and/or fails to meet the required diversion rate, the WMP will not be approved and the applicant will be notified about the reasons for non-approval. No grading, building, and/or demolition permit will be issued until the WMP is approved.

INFEASIBILITY EXEMPTION

If an applicant for a covered project experiences unique circumstances that make it infeasible to comply with the diversion requirement, the applicant may apply for an exemption at the time the WMP is submitted. Increased costs to the applicant generally will not be a sufficient basis for an exemption. The applicant shall indicate on the WMP the minimum rate of diversion he/she believes is feasible for each material and the specific circumstances that he/she believes make it infeasible to comply with the diversion requirement.

UPON COMPLETION OF THE PROJECT

Prior to the final inspection of a grading, demolition, and/or building permit and within 30 days after project completion, the applicant shall submit their WMP to the City through Green Halo for final review. The goal of the final review is to provide documentation to the City showing that the diversion requirement has been met. The WMP submitted for final review shall include the following:

1. Receipts from the certified facilities that collected or received each material showing the actual volume or weight of the material received and how the material was disposed of; and
2. Any additional information the applicant believes is relevant to determining its efforts to comply in good faith with the diversion requirement.

Through Green Halo, the City will review the WMP and documentation noted above and a determination will be made if the applicant has complied with the diversion requirement as follows:

1. **Full compliance** - If the applicant has fully complied with the diversion requirement.
2. **Good Faith Effort to Comply** - If the diversion requirement has not been achieved, the City will determine on a case-by-case basis whether the applicant has made a good faith effort to comply with the diversion requirement. In making this determination, the City will consider the availability of markets for the C&D debris landfilled, the size of the project and the documented efforts of the applicant to divert the C&D debris.
3. **Noncompliance** - If the City determines that the applicant has not complied with the diversion requirement, the City may withhold final project approval until full compliance can be established.

No hold on final shall be released, until the WMP has been provided to and approved by the City as either full compliance or good faith effort to comply.

NONCOMPLIANCE

Please note that if the required documentation is not submitted and approved by the City, or the applicant has not made a good faith effort to comply, the applicant is in noncompliance status and is in violation of the Lafayette Municipal Code (LMC) and is liable for a civil penalty, or any other remedy provided in the LMC. This violation makes the property owner liable to the City for a civil penalty of \$1,000 or one percent (1%) of the project cost, whichever is less. The project will not be approved and holds will not be released, until the project is in full compliance, meets the good faith effort to comply, or the civil penalty has been paid.

APPEAL

Appeal of the determination made by the City shall be made to the City Council within 30 days of the City's determination. To appeal, an applicant must submit a letter to the city manager concisely stating the facts of the case and the grounds of appeal. The city manager will schedule a meeting before the city council and notify the applicant of the date, time, and place. The decision of the city council is final. Appeals shall be limited to:

1. The granting or denial of an exemption; or
2. Whether the applicant has made a good faith effort to comply with the WMP.

NOTE: The applicant and property owner are responsible for the actions of their contractors or other agents with regard to the diversion requirement. Therefore, when reviewing proposals from project managers, contractors, site cleanup, vendors, and other building professionals, all aspects of the proposal should be considered and not just the cost.



REVOCABLE ENCROACHMENT PERMIT NO. 16 - _____

CITY OF ORINDA - Public Works Department

22 ORINDA WAY

ORINDA, CA 94563

Phone: (925) 253-4236 Fax: (925) 253-7699

PERMIT TO DO WORK IN ACCORDANCE WITH CHAPTER 12.08 OF THE CITY OF ORINDA MUNICIPAL CODE AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

APPLICANT: Please type/print in block letters. Applicant must complete all double-underlined sections.

Permittee:
 Contractor License #: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Emergency Phone: _____
 Fax: _____
 E-Mail: _____

Admin. Cost: _____
 Inspect. Hrs./Cost: _____
 Bond: _____
 Total Due or Refund: _____
 Receipt #: _____
 USA Notification #: _____

NO FEE

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE.

TO ARRANGE FOR INSPECTION CALL (925) 253-4236 AT LEAST 48 HOURS BEFORE YOU START WORK.

Work is to begin on or about 7/1/16 and completed by 11/1/16. If the work is not completed by this date you must get a new permit, unless an extension has been authorized.

PROPERTY OWNER: City of Orinda
(Name, Address, Phone)

WORK LOCATION: On White Oak Drive, from City Limits to Col - De - Sac
(Street Address)

DESCRIPTION OF WORK:
Pavement Rehabilitation - Full Depth Reclamation

Special Requirements: (By Department of Public Works)

- Work on road with restricted working hours (III.6)
- Monument Preservation Certification required (III.7)
- Traffic Control Plan required (I.2)
- Special Requirements, See Attached
- Installation/Replacement of the Storm Drain Inlet Marker (Provided by City)
- Other
- Project Identification Sign (Provided by City)
- Call when paving is completed.
- Call before starting project.
- Call when job completed.
- Moratorium Street

SEE REVERSE SIDE OF PERMIT FOR REQUIREMENTS

The permittee agrees to save, indemnify and hold harmless the City of ORINDA or its representatives from all liabilities imposed by law by reason of injury to or death of any person or persons or damage to property which may arise out of the work covered by this permit and does agree to defend the City in any claim or action asserting such liability. Accepting this permit or starting any work hereunder, shall constitute acceptance and agreement to all of the conditions and requirements of this permit and the ordinance and specifications authorizing issuance of such permit. Acceptance of this permit acknowledges that it is REVOCABLE by the City of Orinda Public Works Director at any time for any reason relating to the public benefit, in accordance with Orinda Municipal Code Section 12.08.010(E).

Signature of Permittee
By: _____ Date: _____

By: [Signature]
or: Bob Frazier, Public Works Inspector
By: _____

Final Inspection
By: _____ Date: _____

Date: 5/2/16
Charles Swanson, Dir of Public Works/Eng.

I. GENERAL INSTRUCTIONS

1. **WORK MUST BE INSPECTED** - Call at least 48 hours before starting or resuming work. Work done without inspection may have to be removed or done over again.
2. **PROTECTION** - Provide and maintain enough barricades, lights, signs, flagmen and other safety measures to protect the public, in accordance with the Caltrans Manual of Warning Signs, Lights and Devices. Permittee shall submit a traffic control plan if work has impact on the traveled way.
3. **TRAFFIC** - A City road may not be closed to public traffic without the approval of the City Council. While working, keep one 10' wide traffic lane open to traffic. At all other times, two 10' wide (minimum) lanes shall be open. Follow CALTRANS standards for traffic control. Parked vehicles shall not obstruct traffic flow. Material storage is not allowed within the public right-of-way.
4. **STANDARDS** - Work shall be in accordance with the City Ordinance, County Specifications and Std. Drawings, as adopted by the CITY.
5. **UTILITIES** - Utility relocation is the responsibility of the permittee.
6. **UNDERGROUND ALERT** - Permittee is responsible for notifying USA (Telephone 800-642-2444) prior to excavating.
7. **CONSTRUCTION STAGING AREAS** - proposed locations shall be approved by the Public Works Inspector/Public Works Director. Areas outside of the public right of way must have the approval of the owner and the City Planning Department.
8. **ALL SIDEWALK AND/OR PAVEMENT MARKINGS** painted by Underground Service Alert (U.S.A.) or other utility company(ies) shall be removed to the satisfaction of the Public Works Director within ten working days after completion of construction. If the markings are not removed, Permittee hereby authorizes the City to perform this work at Permittee's expense and Permittee shall pay all costs and charges to the City upon written demand.
9. **BEST MANAGEMENT PRACTICES** - Protect storm drain inlets and watercourses prior to breaking up asphalt or concrete. Prevent concrete, steel, wood, metal parts or other work materials from entering storm drain. Transfer, load or stockpile materials away from streets, gutters, storm drain inlets, or watercourses. Store materials under cover; prevent wind-blown powders from entering streets, gutters, or storm drains. Use as little water as possible making saw cuts and contain slurry; shovel or vacuum dry slurry residue. Use dry cleaning methods wherever practical for surface cleaning. Block storm drain inlets when cleaning with water; discharge to landscaping or collect. Wash equipment in areas away from drain inlets.

II. SPECIAL REQUIREMENT - DRIVEWAYS

1. Minimum driveway construction shall consist of 2" of asphalt pavement on 8" of Class 2 Aggregate Base. Entire portion of concrete driveways within the city road right of way shall consist of a min. of 6" of Class B concrete over 3" of Class 2 aggregate base. The driveway is to be sloped to prevent sheet flow from crossing the road and shall not interfere with drainage or cause erosion or deposition of silt.
2. The driveway shall not enter a roadway within 5' of existing or planned curb returns, shall not interfere with a legal encroachment or create a hazard or nuisance, and shall be spaced to make street parking available (see CC 306).
3. (A) The top elevation of driveway 5' behind curb is to be 0.60' (7%) higher than the flow line of the gutter.
(B) The driveway elevation at the property line shall be within one foot of the elevation of the near shoulder and shall merge with the shoulder to preserve the roadbed section.
4. If existing driveway depression is not used, it shall be completely removed (curb, gutter and sidewalk) by saw cut at next nearest expansion joint or scoremark (SEE CC 306) and replaced with concrete to conform to adjacent improvements. Form board to be used at gutter lip and the pavement restored in kind. Sidewalk and curb which is replaced shall be doweled. Existing curb and gutter, or curb, gutter and sidewalk shall be removed for full width of driveway using the same procedure.
5. (A) Shape a valley gutter across the driveway. The flow line shall match the flow line of existing roadside ditch.
(B) Install a culvert for full width of driveway. This culvert is to be laid to the flow line grade of exist. roadside ditch. Only corrugated galvanized metal, corrugated aluminum pipe, or reinforced concrete pipe Class III may be used. The culvert size shall be approved by the permit engineer.
6. The driveway will require the use of a template to determine acceptable clearances. The template will be 18'6" long and will have two 6" projections from its bottom plane, one located 3' and one 5' from an end.
7. All broken or damaged curb, gutter and sidewalk to be completely removed by saw cut at nearest expansion joint or score mark and replaced to true grade and cross-section. The new curb and sidewalk shall be doweled.

III. SPECIAL REQUIREMENTS - STREET CUTS

1. **MASTER PERMIT CONDITIONS** - All work shall be performed in conformance with the Contra Costa Utility Coalition UTILITY TRENCH MASTER PERMIT CONDITIONS.
2. **FINAL PATCHING** - Arterial Streets shall receive final patching within 48 hours; all other final patches shall be completed within 14 calendar days.
3. **TRENCH EXCAVATION** - Do not start until pipe and other materials are at the site. Open up only that length of trench which can be backfilled the same day. Shoring shall comply with "Trench Construction Safety Orders" of Title 8 of the California Code of Regulations. Pavement shall be scored to neat lines and removal shall not cause damage to pavement outside the scored lines. Excess excavated material shall be removed immediately from the site.
4. **ROADS WITH RESTRICTED WORKING HOURS** - Roads with restricted working hours are: Camino Pablo*, El Toyonal*, Glorietta Boulevard*, Miner Road, Moraga Way*, Rheem Boulevard, Ivy Drive*, Lombardy Lane*, Dalewood Drive*, Lomas Cantadas, and Bear Creek Road. Working hours are Monday through Friday 9:00 am to 3:30 pm. On streets with an asterisk (*), working hours are 9:00 am to 2:30 pm. For all other working hours and restrictions, refer to City of Orinda Municipal Code 15.04.180.
5. **MONUMENT PRESERVATION** - Per Business Code Section 8771, a Certification is required by a licensed Land Surveyor, retained by the utility or permittee, that either the project will not disturb any existing monuments or that the project will disturb an existing monument(s) and that the monument(s) will be restored at the end of the project. An original, signed and stamped statement is required prior to the start of work.

IV. SPECIAL REQUIREMENTS - SIDEWALK DRAINS

1. Install a 3" inside diameter non-corrosive pipe through curb or through curb and sidewalk. One panel of sidewalk curb and gutter, or where there is no sidewalk, 1' of curb only to be removed by saw cut. Pipe flow line shall match gutter flow line, and pipe shall be cut off flush with face of curb. Sidewalk concrete shall encase pipe in 3" concrete jacket. Replace curb, gutter, sidewalk and pavement to match adjacent improvements and dowel into existing concrete.

Subscribe to email notifications

In an effort to improve city-wide communication, the City of Orinda has instituted a new email notification program. The email notification system provides updates on important community alerts, emergency notifications and City Council meeting notices. You can register online at www.cityoforinda.org and click on 'subscribe to email notifications'. Once you register, you can sign up for community alerts or City Council meeting notices or both. Once you subscribe online, you will receive an email validation in your email inbox. Please follow the instructions in the email to confirm your email address was added to the new electronic notification system.

APPENDIX B

STANDARD PLANS

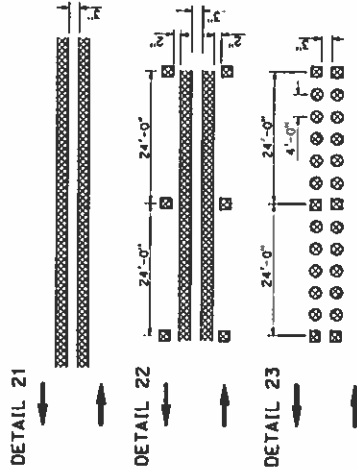
CALTRANS STANDARD PLANS

STATE, COUNTY, ROUTE, LOCAL PROJECT, SHEET NO. OF SHEETS

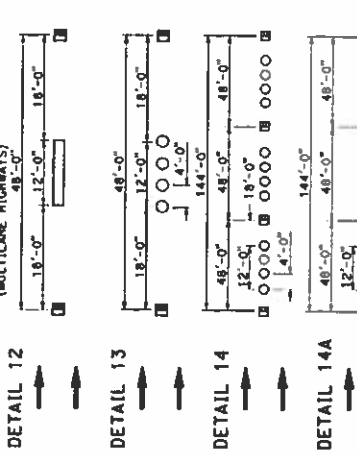
REGISTERED CIVIL ENGINEER
 May 20, 2011
 2-205 APPROVAL DATE
 FOR ALL STATE PROJECTS THE RESPONSIBILITY FOR THE CORRECTNESS OF THIS DRAWING IS SOLELY THAT OF THE CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER
 CALIFORNIA
 2-211-1

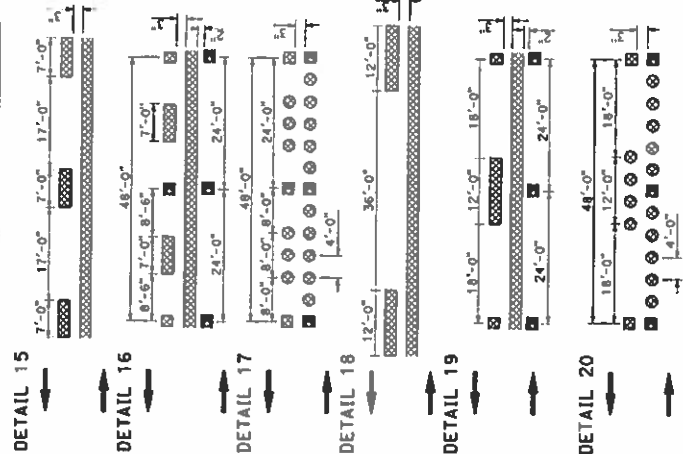
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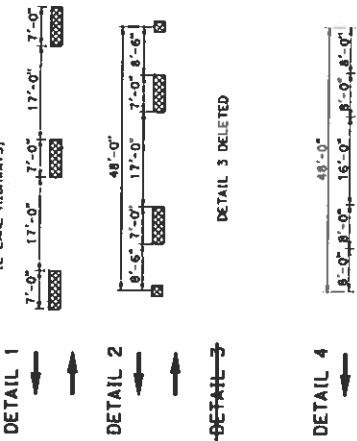
LANELINES (Cont)
(MULTILANE HIGHWAYS)



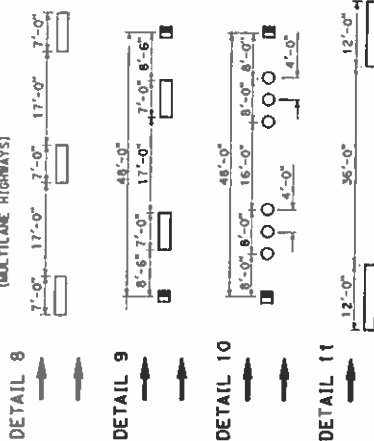
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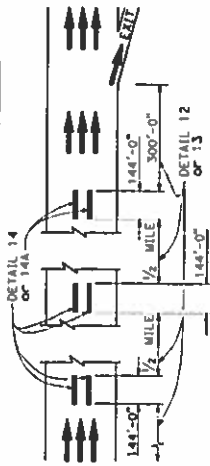
CENTERLINES
(2 LANE HIGHWAYS)



LANELINES
(MULTILANE HIGHWAYS)



**TYPICAL LANE LINE DELINEATION
IN ADVANCE OF EXIT RAMP**



NOTE:
 Detail 14 is to be used in combination with Detail 13. Detail 14A is to be used in combination with Detail 12.

MARKER DETAILS



- LEGEND**
- TYPE A WHITE NON-REFLECTIVE
 - ⊙ TYPE AY YELLOW NON-REFLECTIVE
 - ⊗ TYPE C RED-CLEAR RETROREFLECTIVE
 - ⊠ TYPE D TWO-WAY YELLOW RETROREFLECTIVE
 - ⊡ TYPE G ONE-WAY CLEAR RETROREFLECTIVE
 - ⊢ TYPE H ONE-WAY YELLOW RETROREFLECTIVE
- MARKERS**
- 4" WHITE
 - ▨ 4" YELLOW
- LINES**
- DIRECTION OF TRAVEL
- ▨ RETROREFLECTIVE FACE

TYPE A AND TYPE AY

TYPE C AND TYPE D

TYPE G AND TYPE H

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS
AND TRAFFIC LINES
AND TYPICAL DETAILS**

NO SCALE

A20A

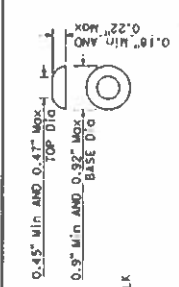
11.171 COUNTY ROUTE TOTAL SHEET NO. 10111 SHEET NO. 10111

REGISTERED CIVIL ENGINEER

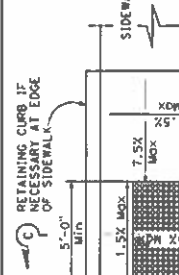
July 3, 2015

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
STANDARD PLANS
FOR THE STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED _____

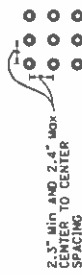


RAISED TRUNCATED DOME



NOTES:

- As site conditions dictate, Case A through Case C curb ramps may be used. Case A through Case C curb ramps used in Detail A do not have to be the same. Case A through Case C curb ramps do not have to be used at mid block locations, as site conditions dictate.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
- Side slope of ramp faces vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- Transitions from ramps and landing to sidewalks, gutters or streets shall be flush (no lip) and free of abrupt changes.
- Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%); gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
- Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp, a 4'-0" wide detectable warning surface shall extend 4'-2" beyond the ramp. The Standard Warning Surfaces shall conform to the requirements in the Standard Specifications.
- Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp shall be relocated or constructed prior to curb ramp construction.
- Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.



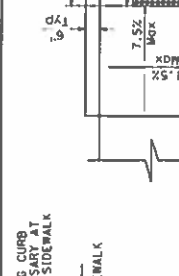
RAISED TRUNCATED DOME PATTERN (IN-LINE)
DETECTABLE WARNING SURFACE

See Note 9

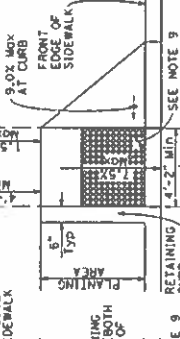
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE

RSP A88A DATED JULY 3, 2015 SUPERSEDES RSP A88A DATED MARCH 21, 2014 AND RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

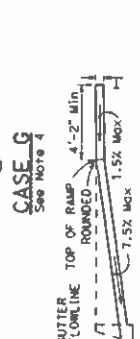
REVISED STANDARD PLAN RSP A88A



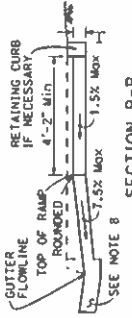
CASE D



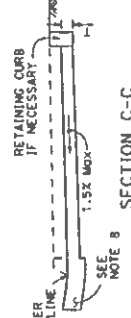
CASE E



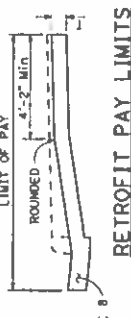
CASE F



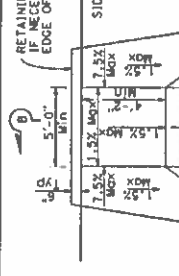
SECTION A-A



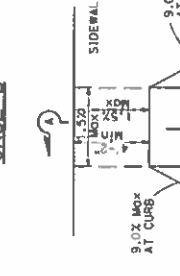
SECTION B-B



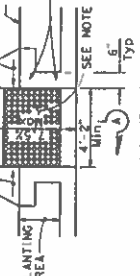
SECTION C-C



CASE B



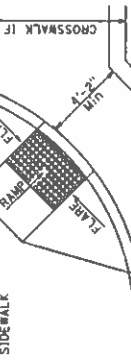
CASE C



CASE D



DETAIL A



DETAIL B



RETROFIT PAY LIMITS

Existing curb and sidewalk

TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1

TYPICAL ONE-RAMP CORNER INSTALLATION
See Notes 1 and 3

12" x 18" COUNTY ROUTE TOTAL PROJECT SHEET NO. 1

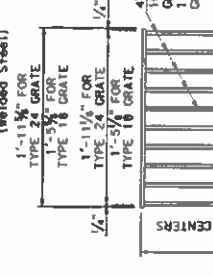
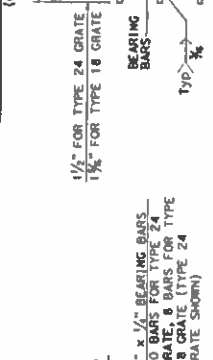
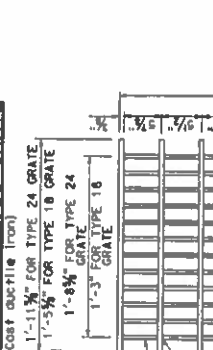
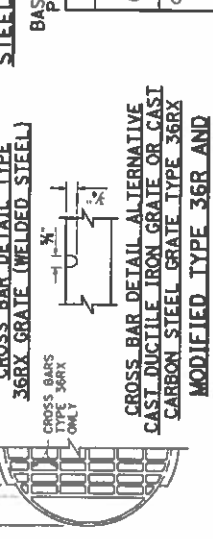
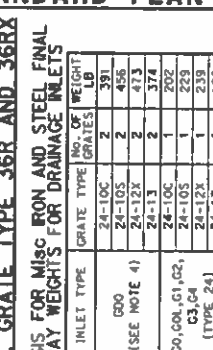
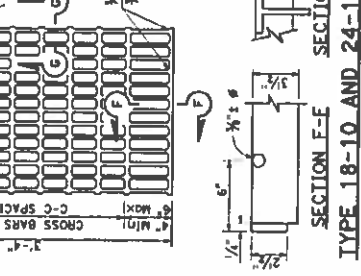
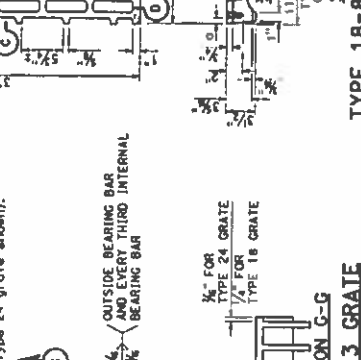
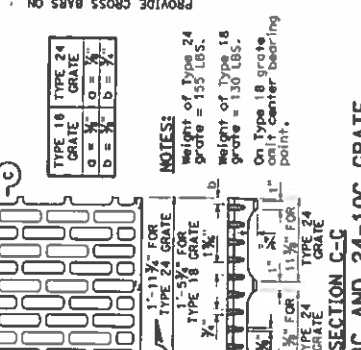
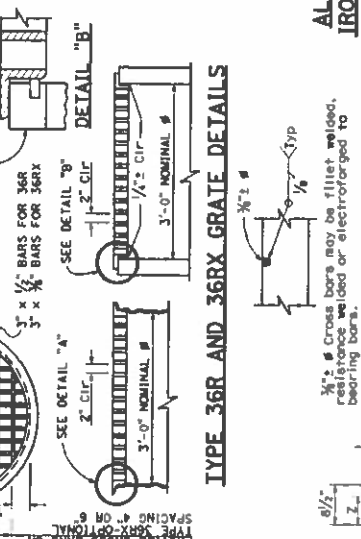
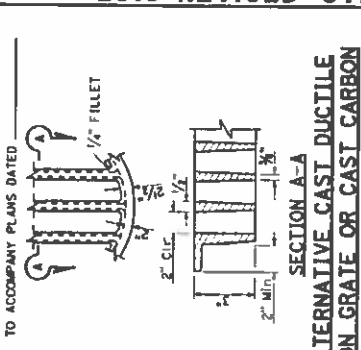
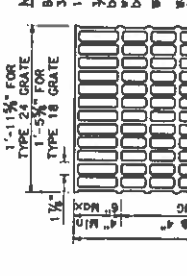
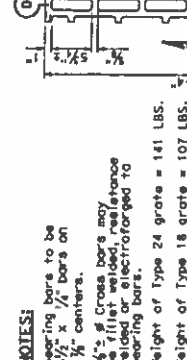
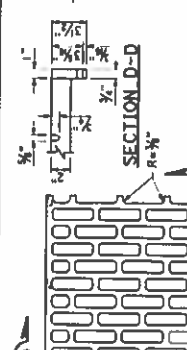
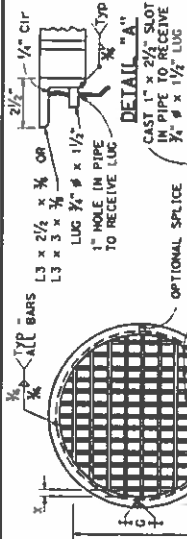
APR 11 19, 2013

REGISTERED CIVIL ENGINEER

STATE OF CALIFORNIA

NO. 10000

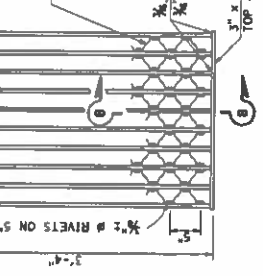
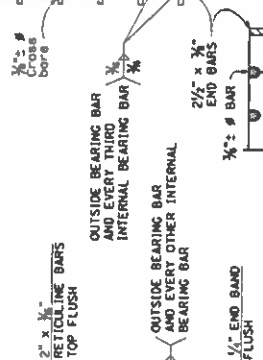
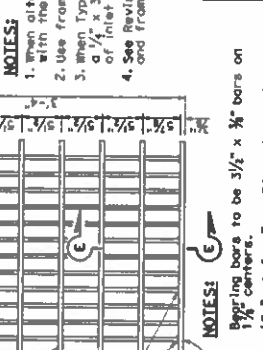
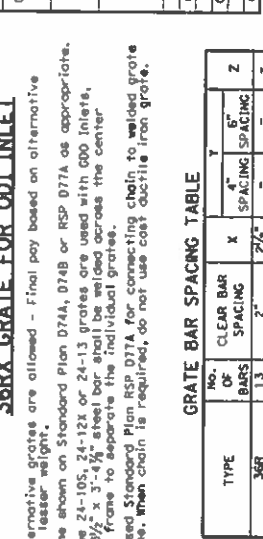
EXPIRES 12/31/16



SECTION A-A
ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE TYPE 36R AND 36RX

BASIS FOR MISC IRON AND STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
G00	24-10C	2	391
(SEE NOTE 4)	24-12X	2	473
	24-13	2	374
G0, G0N, G1, G2, G3, G4	24-10C	1	202
(TYPE 24)	24-12X	1	239
	24-13	1	189
G4 (TYPE 18)	18-8S	1	187
55, G6	18-9X	1	149
	18-10	2	374
	18-8S	2	374
G11, G12	18-9X	2	374
	18-10	2	298
G13, G14	24-10C	2	404
	24-12X	2	459
	24-13	2	478
G01	36RX (Mod)	1	196
GMP, GCP, GCP1	36RX	1	215
G01	36R	1	220
GMP, GCP, GCP1	36R	1	236
TRASH RACK	36R	1	22
GRATE CHAIN		2	3



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

GRATE DETAILS No. 2
NO SCALE

RSP D77B DATED APRIL 19, 2013 SUPERSEDES RSP D77B DATED JULY 20, 2012 AND STANDARD PLAN D77B DATED MAY 20, 2011 - PAGE 165 OF THE STANDARD PLANS BOOK DATED 2010.

GRATE BAR SPACING TABLE

TYPE	NO. OF BARS	CLEAR BAR SPACING	X	Y	Z
36R	13	2"	2 1/2"	3"	5"
36RX (STEEL)	13	2"	2 1/2"	3"	5"
36RX (CAST)	15	2"	2 1/2"	3"	5"
36R Mod	12	2"	2 1/2"	3"	5"
36RX MOD (STEEL)	13	2"	2 1/2"	3"	5"
36RX MOD (CAST)	12	2"	2 1/2"	3"	5"

SECTION B-B
TYPE 18-8S AND 24-10S GRATE
(Welded Steel) Rect/cutline type

NOTES:
Weight of Type 24 grate = 182 LBS.
Weight of Type 18 grate = 145 LBS.

SECTION C-C
TYPE 18-8C AND 24-10C GRATE
(Cast ductile iron)

NOTES:
Weight of Type 24 grate = 155 LBS.
Weight of Type 18 grate = 130 LBS.

SECTION D-D

NOTES:
Bearing bars to be 3/2" x 1/2" bars on 1 1/2" centers.
3/2" # Cross bars may be fillet welded, resistance welded or electroforged to bearing bars.
Weight of Type 24 grate = 141 LBS.
Weight of Type 18 grate = 107 LBS.

SECTION E-E
TYPE 18-9X AND 24-12X GRATE
(Welded Steel)

NOTES:
Bearing bars to be 3/2" x 1/2" bars on 1 1/2" centers.
12 Bars for Type 24 grate - 9 bars for Type 18 grate. (Type 24 grate shown).
Weight of Type 24 grate = 192 LBS.
Weight of Type 18 grate = 145 LBS.
3/2" # Cross bars may be fillet welded, resistance welded or electroforged to bearing bars.

SECTION F-F
TYPE 18-10 AND 24-13 GRATE
(Welded Steel)

NOTES:
Weight of Type 24 grate = 182 LBS.
Weight of Type 18 grate = 145 LBS.

SECTION G-G
TYPE 18-10 AND 24-13 GRATE
(Welded Steel)

NOTES:
Weight of Type 24 grate = 182 LBS.
Weight of Type 18 grate = 145 LBS.

SECTION H-H
TYPE 18-9X AND 24-12X GRATE
(Welded Steel)

NOTES:
Weight of Type 24 grate = 192 LBS.
Weight of Type 18 grate = 145 LBS.

**CONTRA COSTA COUNTY
STANDARD PLANS**

STD. PLAN CA20

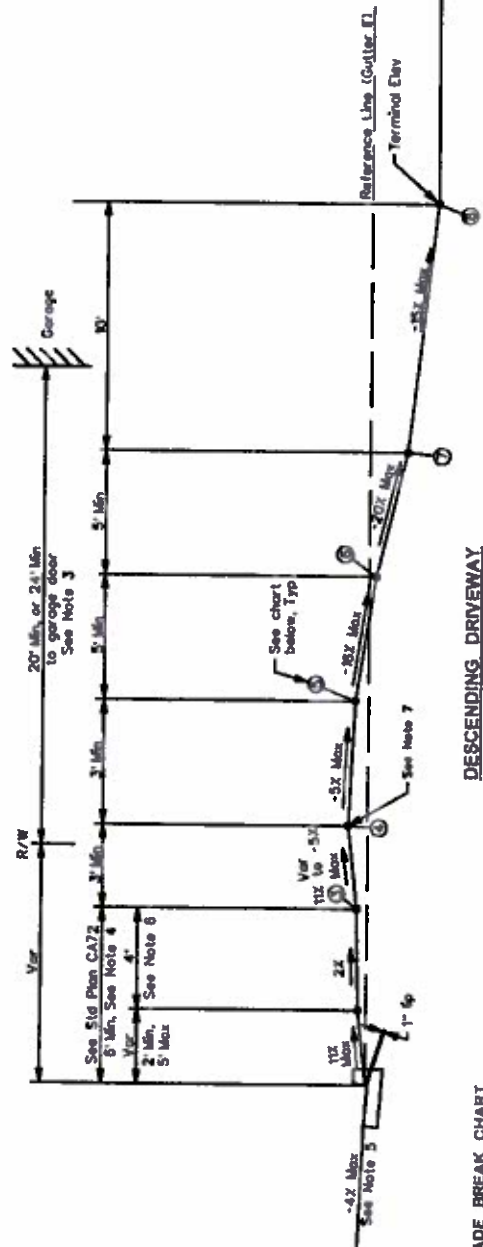
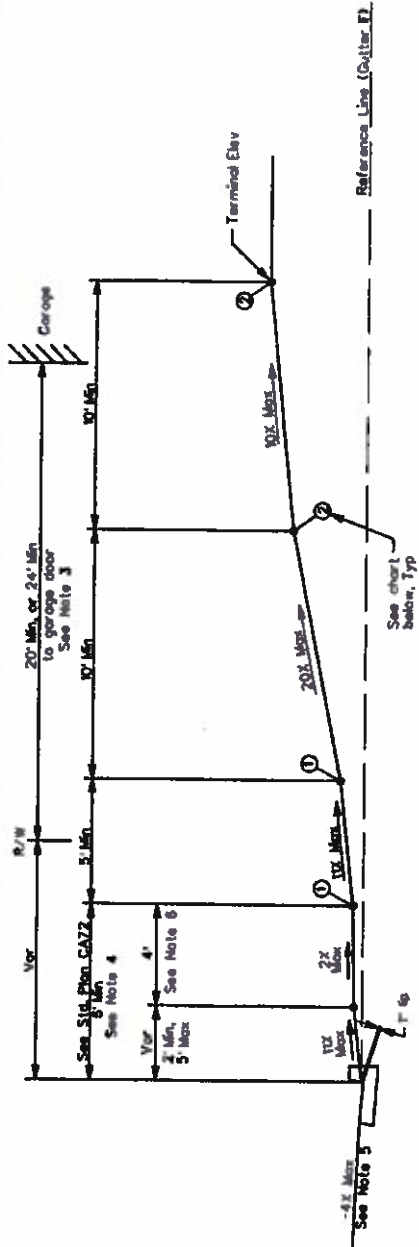


Julia B. Buerki
 PUBLIC WORKS DIVISION
 DATE: March 11, 2014
 P.L.S. APPROVAL DATE

The County of Contra Costa is the owner of the rights in and to the design and construction of the project. The County of Contra Costa is not responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

1. Car dimensions were obtained from the 1991 edition of "Parking Dimensions," Motor Vehicle Manufacturers Association. This design and construction is based on the most unfavorable dimensions of cars listed. For unique or oversized cars, a special design is required.
2. For maximum grade breaks at numbered points, see chart on this plan. Whenever possible grades should be as flat as possible.
3. 20' minimum allowed if garage has sectional door(s). Otherwise, 24' minimum to garage.
4. See Standard Plan CA72 for driveway ramp details.
5. If pavement cross slope exceeds 4%, a modified driveway profile shall be used with the slope of the driveway ramp reduced such that the difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway between the gutter line shall not exceed 1/2". Reduce driveway ramp slope, not the gutter slope. Other dimensions shall be modified as approved by the Public Works Department.
6. If the Public Works Department determines that no sidewalk will ever be constructed, this 4' segment at 22' may be deleted.
7. If ① is not a minimum of 0.5' above reference line, the grade at ① shall be a minimum of 0.5' above reference line. Exceptions to this requirement are subject to the approval of the Public Works Department.



GRADE BREAK CHART

Max Grade Break	
1	8%
2	10%
3	9%
4	8%
5	11%
6	9%
7	10%
8	15%

NO.	DATE	REVISION DESCRIPTION

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARINEZ CALIFORNIA

STANDARD PLAN

DRIVEWAY PROFILE DESIGN STANDARDS

SCALE: NO. SCALE DATE: 3/14
 DRAWN BY: H. HUSSEY PLAN NO. CA20
 CHECKED BY: H. HUSSEY

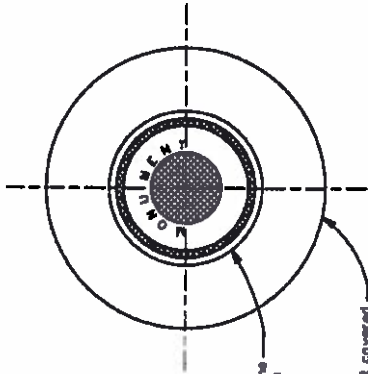
STD. PLAN CA40

Substantive

PUBLIC WORKS DIRECTOR
ALAN BURNER
 March 11, 2014
 PLANS APPROVAL DATE

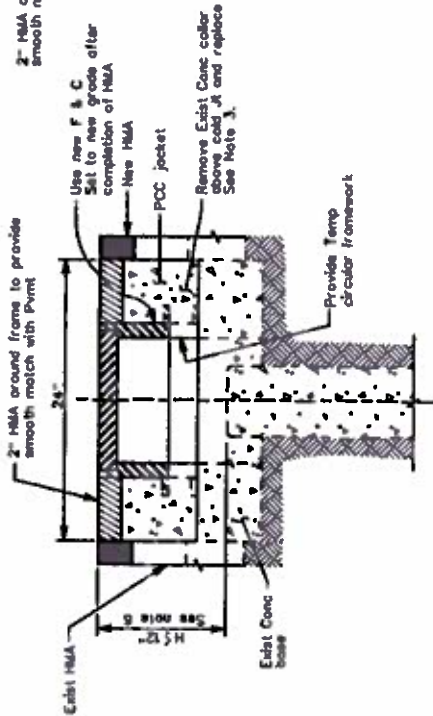
THE COUNTY OF CONTRA COSTA, BY THE OFFICER OF RECORD
 COUNTY ENGINEER FOR THE COUNTY OF CONTRA COSTA
 APPROVED FOR CONSTRUCTION UNDER THE STATE PLANS ACT.

STANDARD PLAN
 CA40
 DATE 3/11/14

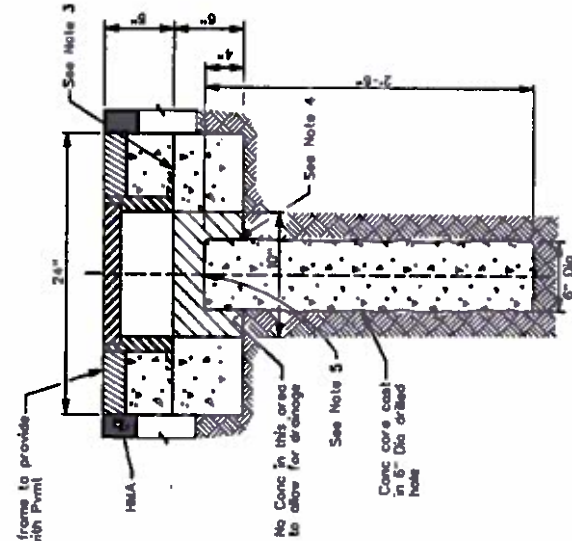


Metal cover and frame (non-removable only) - See Note 2.

24" Dia PCC jacket covered with 2" of HMA - See Note 1



FRAME ADJUSTMENT DETAIL



NEW INSTALLATION DETAIL

NOTES:

1. Concrete for jacket and core shall contain not less than 500 lbs of cementitious material per cubic yard, 1/2" maximum aggregate grading, in conformance with Section 90, "Concrete", of the California Department of Transportation's Standard specifications.
2. Approved covers and frames are those manufactured by Driscoll Co. Casting, Part No. 9277M or 9278 or approved equivalent. Covers shall be marked "Monument" shall be non-racking and designed for a 15000 lb. wheel load.
3. 30" felt or 1/4" layer of sand to create a "cold joint".
4. 6" diameter collar formed with 30" felt or non-metallic form tube (may be left in place).
5. Set brass marker (2" to 2 1/2" diameter top and 2" minimum shown) with distinctive punch and R.L. or U.S. number.
6. When "r" exceeds 12", a complete reconstruction of monument is required.

COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT SUNNYVALE, CALIFORNIA	
STANDARD PLAN	
STREET SURVEY MONUMENT	
SCALE: NO. SCALE	DATE 3/14
DRAWN BY: L. COBIA	PLAN NO.
BY: CHECKED BY: R. Z. GARDNER	CA40

NO.	DATE	REVISION DESCRIPTION

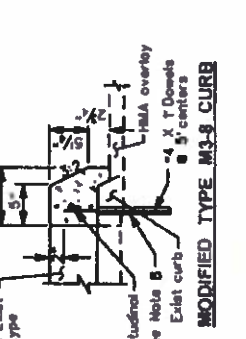
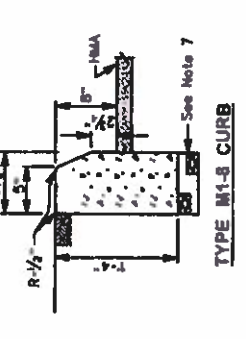
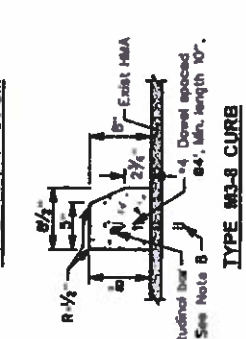
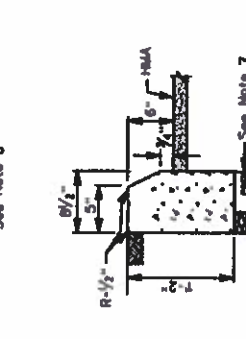
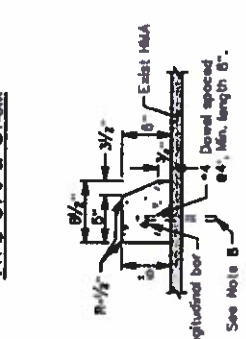
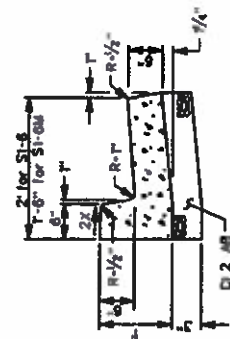
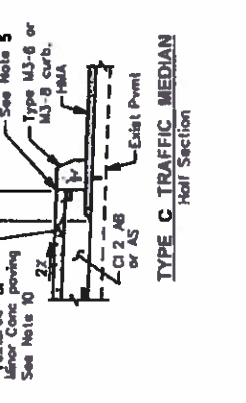
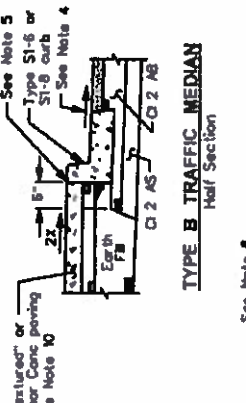
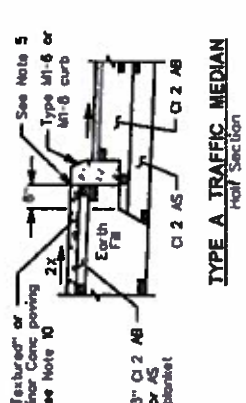
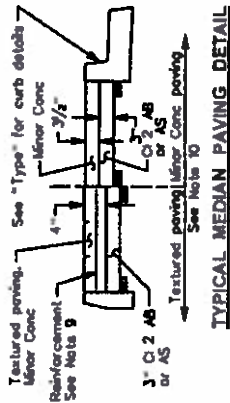
STD. PLAN CA71

JULIA R. BREEN
No. 17317
CIVIL ENGINEER
STATE OF CALIFORNIA

Julia R. Breen
DATE: 1/20/14
PROJECT: PUBLIC WORKS SECTION

APPROVAL DATE: 1/20/14

The County of Contra Costa or its officers or agents shall not be responsible for the correctness or completeness of information supplied on this plan sheet.



NOTES:

- Minor Concrete in conformance with Section 90-7, "Minor Concrete" of the California Department of Transportation's Standard Specifications containing no less than 505 lb. per cubic yard of cementitious material shall be used for all concrete construction detailed on this plan.
- Weakened plane joints shall be provided at 10' intervals on all curbs. See Standard Plan CA70, "Detail B".
- All new curb where it conforms to existing facilities shall be detailed as per Standard Plan CA74.
- When the street slopes away from the curb, the gutter stops shall match the cross slope of the street.
Paving at the gutter lip shall conform to Standard Plan CA70 Detail A, except that where the street slopes away from the curb, the paving shall match the gutter lip.
- Curb may be constructed monolithically with the median paving, in which case a weakened plane joint conforming to Standard Plan CA70 Detail B shall be provided along the back of the curb.
- Type M3 curb shall be used only when placed on existing or overlaid pavement.
- A 3" minimum compacted layer of Class 2 aggregate base or subbase shall be placed under Type M1 curbs, unless noted otherwise on the plans.
- Place dowels in 1" diameter drilled hole (filled with 1:1 sand grout). Omit dowels when curb is extruded.
- Reinforcement shall be #4 bars at 18" OC each way or 8" x 8" x 8", 10 gauge welded wire fabric.
- Median paving may be "textured" as approved by the Public Works Department.
- Width of HMA path shall be a minimum of 4'-6" measured from top face of curb or dike.

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MARTINEZ, CALIFORNIA
STANDARD PLAN

**MEDIAN, CURB AND HMA DIKE
DETAILS**

SCALE: NO. SCALE DATE: 3/14
DRAWN BY: H. HUSSEY PLAN NO. CA71
CHECKED BY: B. HILLIS/STW

NO.	DATE	REVISION DESCRIPTION

Julia R. Busch

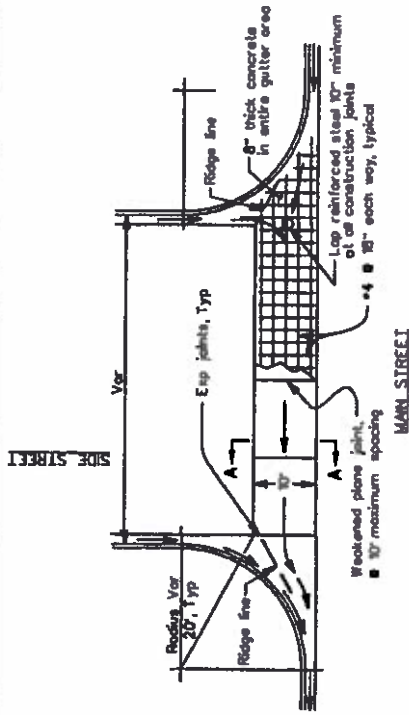
PUBLIC WORKS DIRECTOR
JULIA R. BUSCH
 3/13/17
 CIVIL

PLANNED APPROVAL DATE

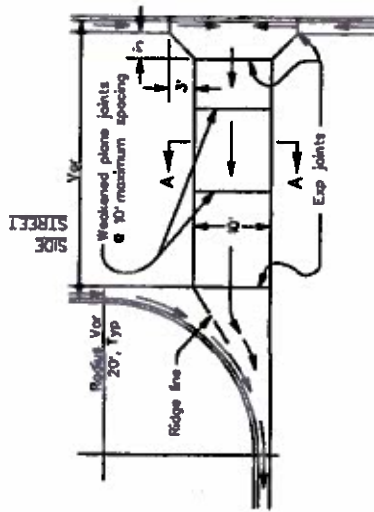
The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of technical content of this plan sheet.

NOTES:

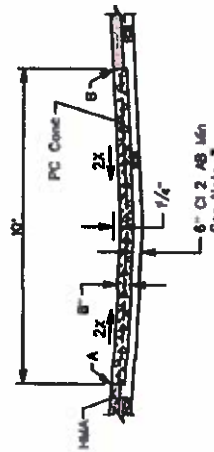
1. Valley gutters shall only be used on local roads or roads with a low volume of traffic as approved by the Public Works Department.
2. Concrete to be used for all construction shown on this plan and shall contain a minimum of 500 lbs per cubic yard of cementitious material, 1" maximum aggregate grading in conformance with Section 90, "Concrete" of the California Department of Transportation Standard Specifications.
3. If total pavement structural section thickness of side street exceeds 14", aggregate base thickness shall be increased to match total side street pavement structural section thickness.
4. For weakened plane joint and expansion joint details, see details on Standard Plan CA70.



TYPICAL PLAN - VALLEY GUTTER



JUNCTION PLAN - VALLEY GUTTER



Points A & B shall be at the same Elev.

SECTION A-A

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA

STANDARD PLAN

**CONCRETE VALLEY GUTTER
 DETAILS**

SCALE: NO SCALE DATE: 3/14

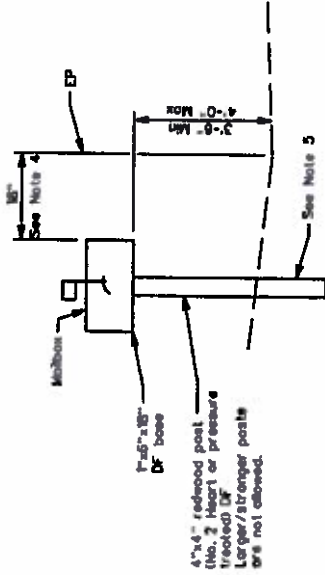
DRAWN BY: A. KUSSEY PLAN NO: CA73

CHECKED BY: R. HOLLANDSMITH

NO.	DATE	REVISION DESCRIPTION	BY



J. A. Nussey
 PUBLIC WORKS DIRECTOR
 March 11, 2014
 PUBLIC APPROVAL DATE
 The County of Contra Costa or its officers or agents
 shall not be responsible for the accuracy or
 completeness of information outside of this plan sheet.

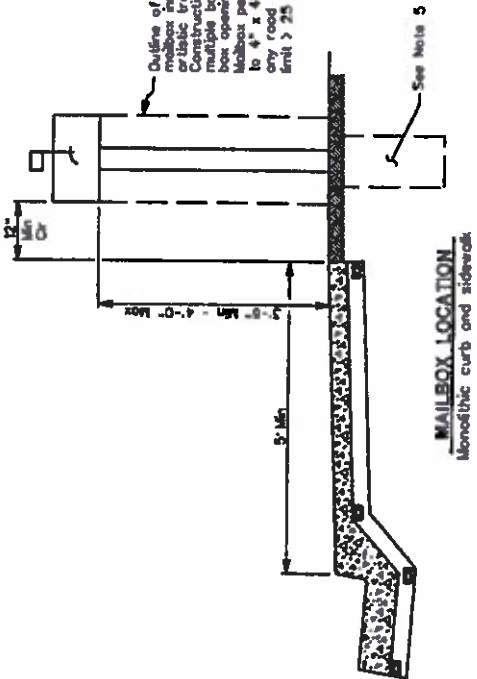


RURAL MAILBOX DETAIL

NOTES:

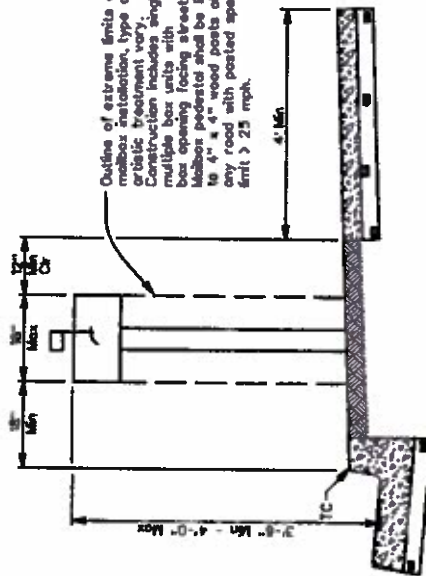
1. Distances are established by Postal regulations and may vary depending on jurisdiction. Check with local Post Office for current regulations.
2. Encroachment permit is required if mailbox is to be installed in existing sidewalk, or if installation requires modification of dimensions shown on this plan.
3. See Standard Plan CA70 & CA71 for sidewalk and curb details.
4. Where AC base or curb is placed at edge of pavement, the minimum distance is measured from the face of curb or base.
5. Post depth shall be as required to adequately support mailbox to be installed. Minimum 2' depth with compacted soil backfill, no PCC backfill.

Outline of extreme limits of mailbox installation, type and artistic treatment vary. Construction includes single and multiple box units with backspacing from curb. Mailbox pedestal shall be limited to 4" x 4" wood posts along any road with posted speed limit > 25 mph.



MAILBOX LOCATION
 Monolithic curb and sidewalk

Outline of extreme limits of mailbox installation, type and artistic treatment vary. Construction includes single and multiple box units with back spacing facing street. Mailbox pedestal shall be limited to 4" x 4" wood posts along any road with posted speed limit > 25 mph.



MAILBOX LOCATION
 Separated sidewalk with planting strip

COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT MARTINEZ, CALIFORNIA	
STANDARD PLAN	
MAILBOX DETAILS	
SCALE: NO SCALE	DATE: 3/14
DRAWN BY: J. A. NUSSEY	PLAN NO: CA90
CHECKED BY: M. WILSON	

NO.	DATE	REVISION DESCRIPTION

ALLAN B. BERMAN

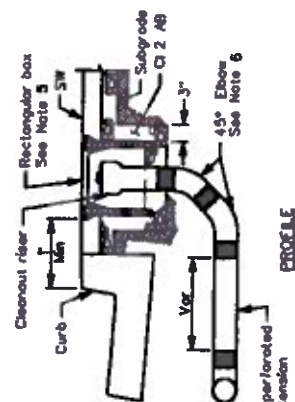
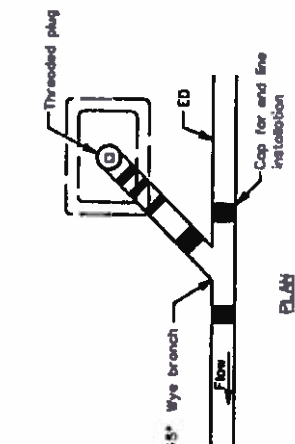
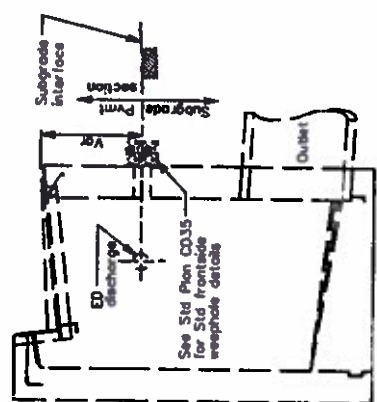
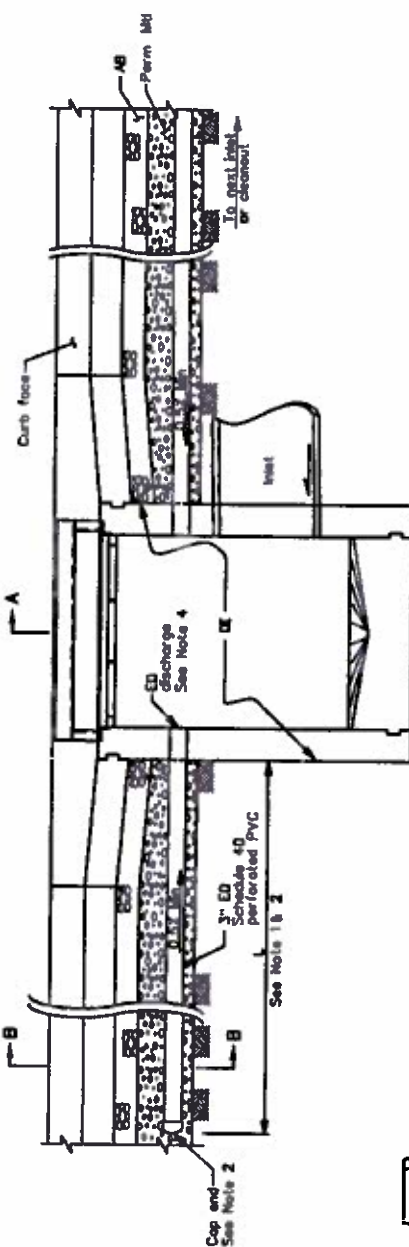
 PUBLIC WORKS DEPARTMENT

 APPROVAL DATE: March 2014

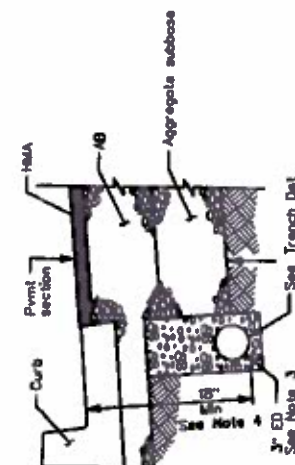
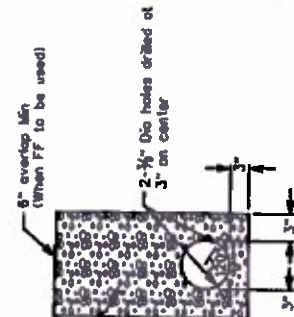
 This Change of County Code or the contents of orders and rules are responsible for the accuracy of reproduction of materials copies of 2014 plan sheet.

NOTES:

- Edge drains shall be installed to the lengths (L) as dictated by the Public Works Department or as shown on project construction plans.
- Place cap of end when dimension "L" is less than 250'. For "L" greater than 250', place cleanout every 250' and a cleanout at end of edge drain.
- Edge drain pipe shall conform to Section 68, "Subsurface Drains," of California Department of Transportation Standard Specifications, or as approved by the Public Works Department.
- Edge drain elevation varies depending on depth of the adjoining pavement section. It shall be at or slightly below the pavement section subgrade elevation with a minimum depth of 18" below curb flange and a minimum slope of 0.3%.
- Rectangular box (10 3/4" x 17 1/2") shall be Crestal, Model B9 or equivalent. See Standard Plan CU60 for box clearances.
- No single elbow shall be installed with a bend greater than 45 degrees.
- Alternate Designer: Other proprietary subdrain products such as "Multi-flow Drainage Systems" may be allowed by the Public Works Department on a case-by-case basis. These alternate edge drain systems must be placed at the same depths as shown on this plan with access points for flushing located outside road pavement no less than every 250 feet.



IN-LINE CLEANOUT



SECTION B-B

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN

EDGE DRAIN DETAILS
 SCALE: NO SCALE
 DATE: 3/14
 DRAWN BY: N. HUSSETT
 CHECKED BY: H. HOLLANDER

NO.	DATE	REVISION DESCRIPTION

PLAN NO **CD08**

APPROVAL

[Signature]

DATE: 12/23/07

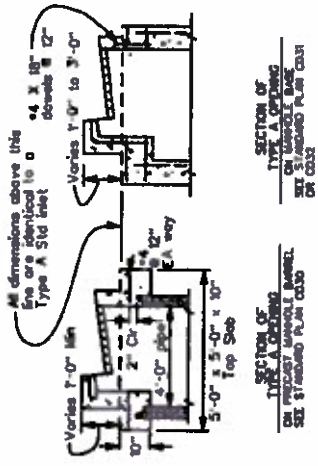
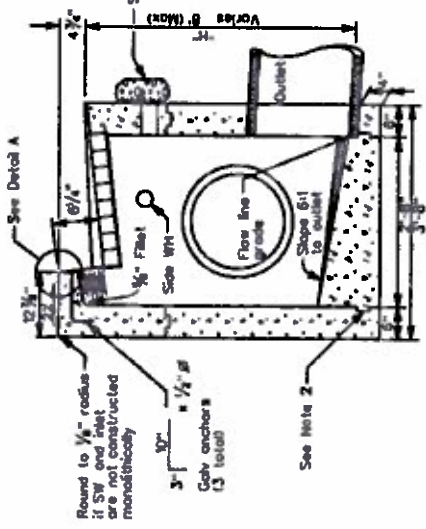
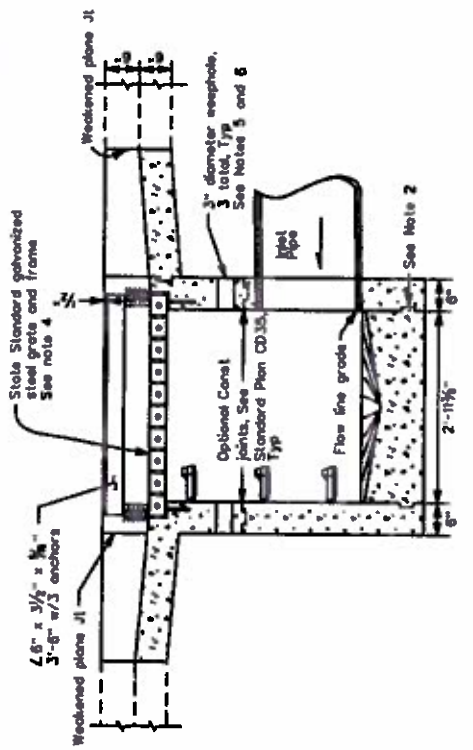
PROJECT: PUBLIC WORKS DEPARTMENT

PLANS APPROVAL DATE: 12/23/07

BY: JALIA R. BLEREN

FOR: CD27

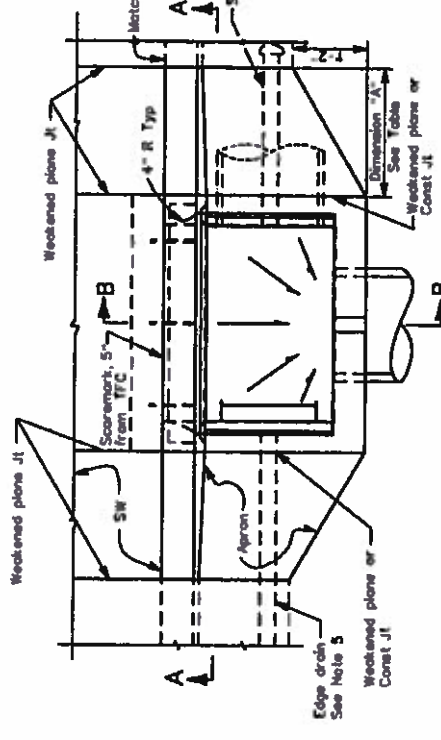
THE COUNTY OF CONTRA COSTA, IN THE OFFICE OF THE ENGINEER OF WATER AND POWER, HAS REVIEWED AND APPROVED THIS PLAN FOR THE CONSTRUCTION OF THE ABOVE DESCRIBED WORKS.



SECTION A-A
NO SCALE

SECTION B-B
NO SCALE

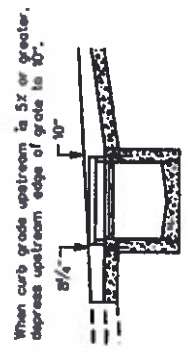
SECTION OF TYPE A OPENING ON MERMOLLE BASE OR CD35



PLAN
NO SCALE
GRATE NOT SHOWN

TABLE

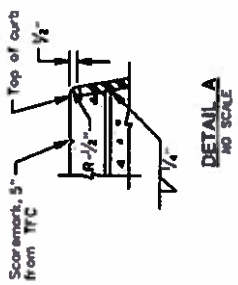
UPSTREAM CURB GRADE	DOWNSTREAM CURB GRADE	APPROXIMATE CURB SLOPE
1.00	0.90	1:10
1.00	0.80	1:20
1.00	0.70	1:30
1.00	0.60	1:40
1.00	0.50	1:50
1.00	0.40	2:1
1.00	0.30	2.5:1
1.00	0.20	3:1
1.00	0.10	4:1
1.00	0.00	5:1
1.00	0.00	6:1
1.00	0.00	7:1
1.00	0.00	8:1
1.00	0.00	9:1
1.00	0.00	10:1
1.00	0.00	12:1
1.00	0.00	15:1
1.00	0.00	20:1
1.00	0.00	25:1
1.00	0.00	30:1
1.00	0.00	40:1
1.00	0.00	50:1
1.00	0.00	60:1
1.00	0.00	75:1
1.00	0.00	100:1



DETAIL FOR STEEP CURB SLOPE

NOTES:

1. For Inlet General Notes and Details, see Standard Plan CD35.
2. Construction joints are optional where shown, other locations are subject to the approval of the Public Works Department.
3. Key dimensions 1/2" ± 3".
4. When dimension "r" exceeds 6'-0", use a mermolle base with Type "G" Inlet top.
5. See California Standard Plan D777A for inlet frame and Caltrans Standard Plan D778 for type 24-10S Inlet grate.
6. If edge drains are specified by Public Works Department or shown on the plans, see Standard Plan CD08 for edge drain (ED) details. See Standard Plan CD35 for weephole drainage details unless edge drain is shown on plans or as specified by Public Works Department. For edge drain details, see Standard Plan CD08.



DETAIL A
NO SCALE

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MAYFIELD, CALIFORNIA
STANDARD PLAN

TYPE "G" INLET

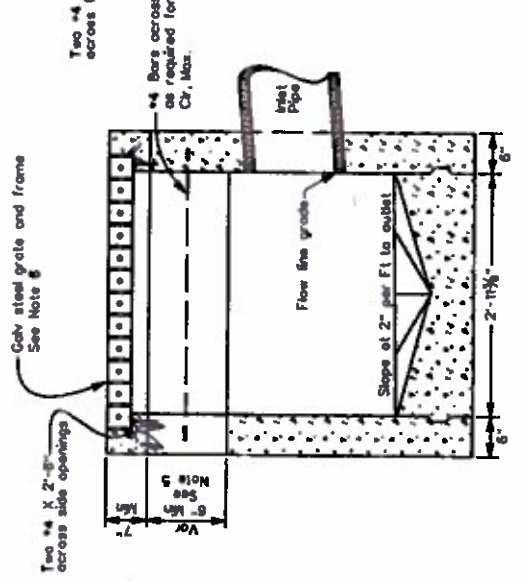
SCALE: NO SCALE DATE: 3/14

DRAWN BY: L. COSTA PLAN NO. CD27

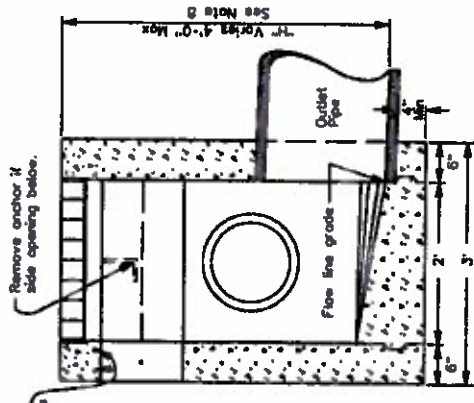
CHECKED BY: R. WILSON/SMITH

NO.	DATE	REVISION DESCRIPTION	BY

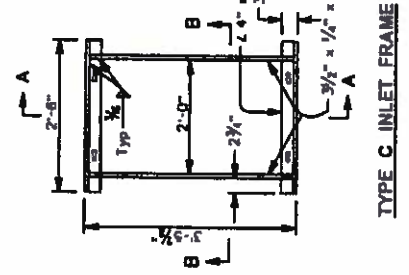
Public Works Department
 Planning Approval Date: March 11, 2014
 JALIA R. BUDNER
 CIVIL
 372617



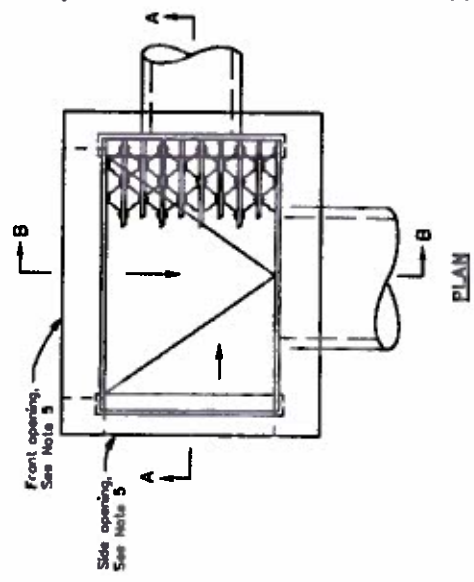
SECTION A-A
(Thru frame and grate)



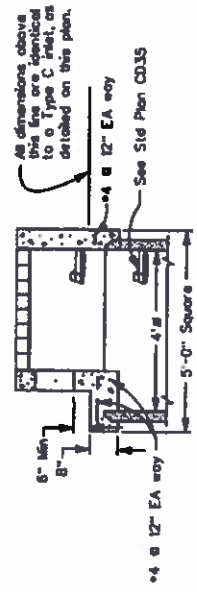
SECTION B-B
(Thru frame)



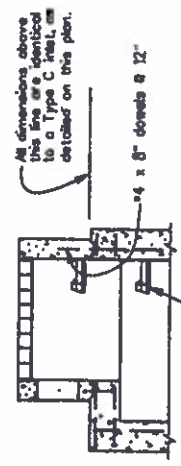
TYPE C INLET FRAME



PLAN



TYPE "C" OPENING ON PRECAST MANHOLE BARREL
 REFER TO STANDARD PLAN CD30



TYPE "C" OPENING ON MANHOLE BASE
 REFER TO STANDARD PLAN CD31

NOTES:

1. See Standard Plan CD35 for Inlet General Drainage Notes.
2. Type J inlets shall not be used in pedestrian areas.
3. Construction joints are optional where shown. Other locations are subject to the approval of the Public Works Department. Key Dimensions are 3/4" x 2 1/2".
4. Min clearance shall be 2" for all reinforcing steel.
5. Location, flowing elevation and size of side openings to be as shown on plans, or as directed by the Public Works Department.
6. All inlets shall be constructed with Caltrans Type 24-105 grates, see Caltrans Standard Plan D778, and Type J inlet frame shown on this plan.
7. No precast Type J inlets are allowed without prior approval of the Public Works Department.
8. Maximum depth for Type J inlet shall be 4'. For depths greater than 4', use a manhole base with a Type J top. The Type J inside wall with steps shall be flush with manhole base inside wall below.

COUNTY OF CONTRA COSTA
 PUBLIC WORKS DEPARTMENT
 MARTINEZ, CALIFORNIA
 STANDARD PLAN

TYPE "J" INLET

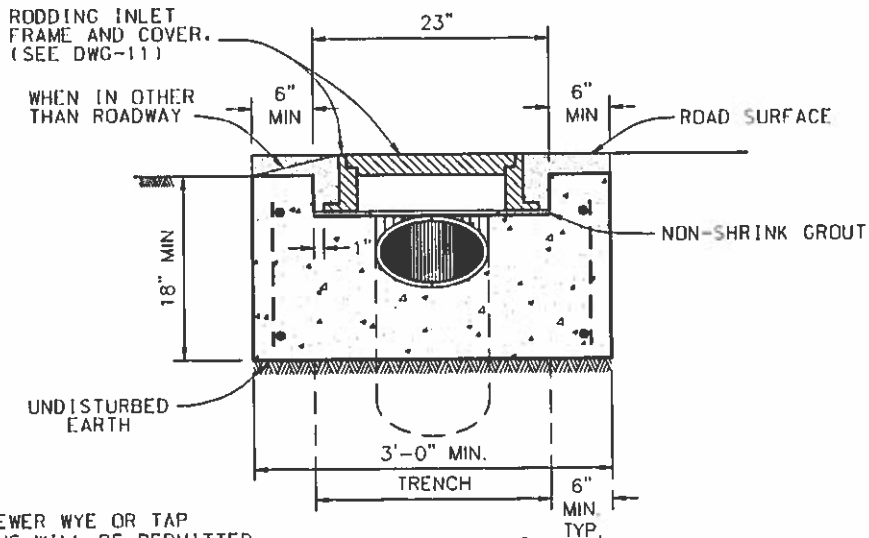
NO.	DATE	REVISION DESCRIPTION	BY	CHECKED BY

SCALE: NO SCALE
 DATE: 3/14
 DRAWN BY: L. COSTA
 PLAN NO: CD29
 CHECKED BY: M. HILLESBERGER

**CENTRAL CONTRA COSTA SANITARY DISTRICT
STANDARD PLANS**

CENTRAL CONTRA COSTA SANITARY DISTRICT MARTINEZ, CALIFORNIA

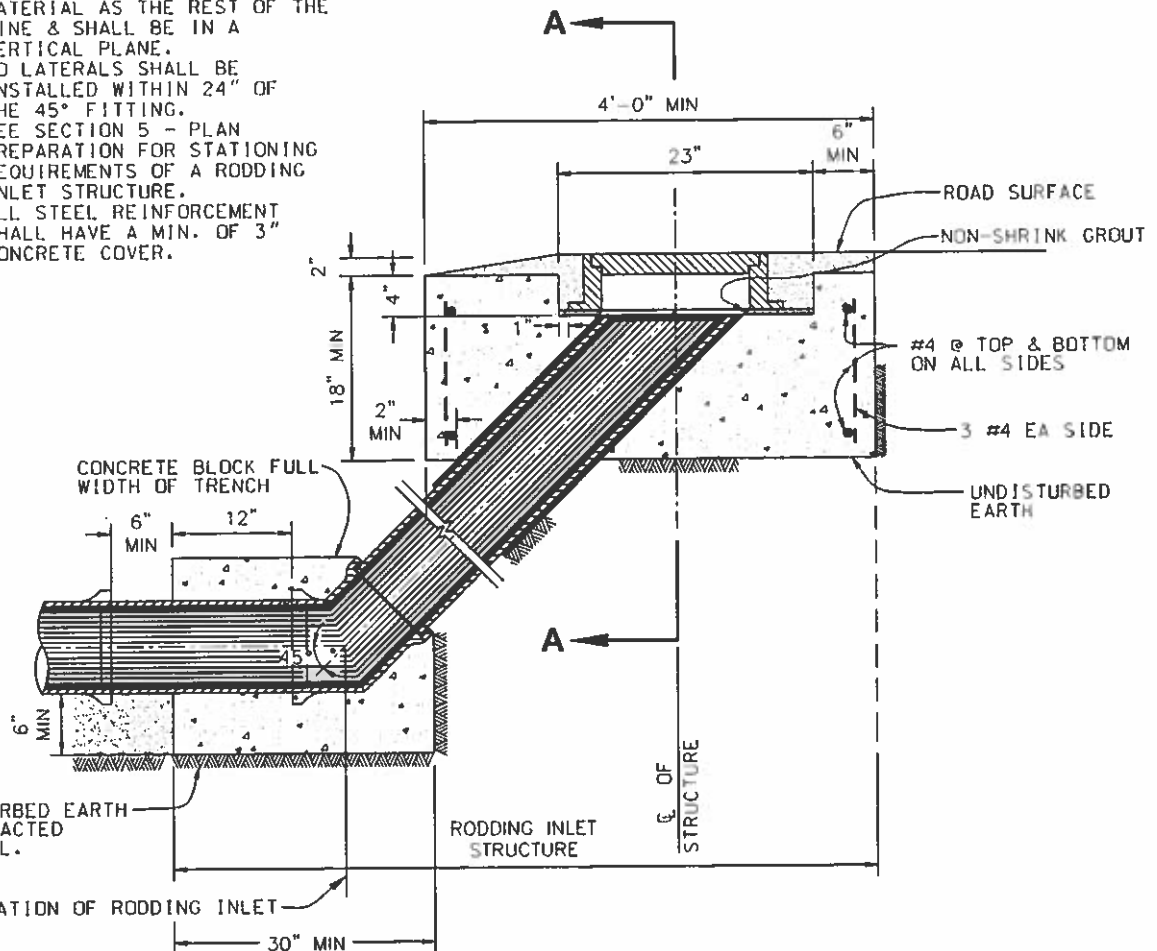
RODDING INLET



SECTION A - A

NOTES:

1. NO SIDE SEWER WYE OR TAP CONNECTIONS WILL BE PERMITTED IN RISER PIPE.
2. RISER PIPE SHALL BE THE SAME MATERIAL AS THE REST OF THE LINE & SHALL BE IN A VERTICAL PLANE.
3. NO LATERALS SHALL BE INSTALLED WITHIN 24" OF THE 45° FITTING.
4. SEE SECTION 5 - PLAN PREPARATION FOR STATIONING REQUIREMENTS OF A RODDING INLET STRUCTURE.
5. ALL STEEL REINFORCEMENT SHALL HAVE A MIN. OF 3" CONCRETE COVER.

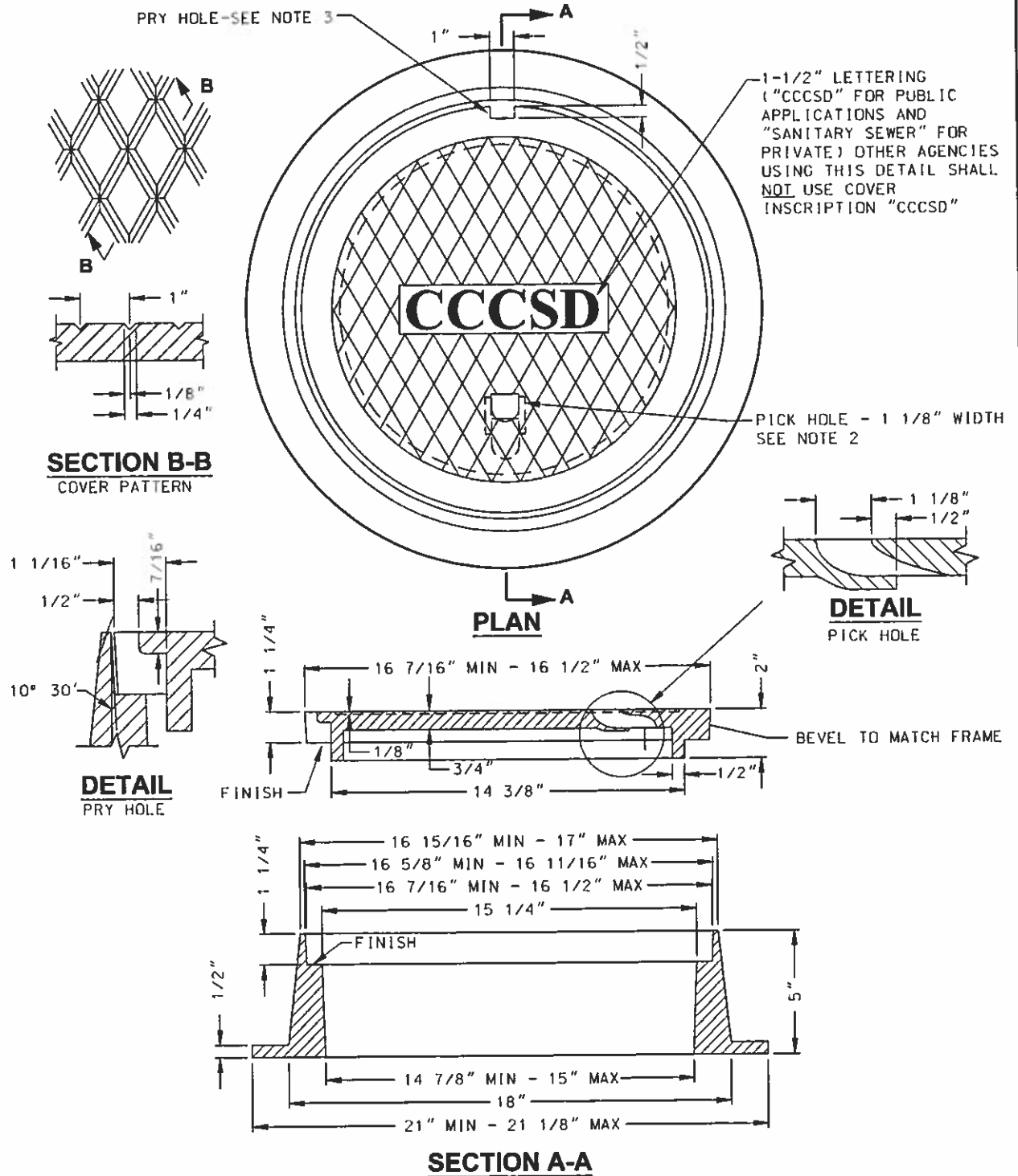


VERTICAL SECTION

08-Jul-2014 K:\Projectal_standards\Special\lays\10_RoddingInlet.dwg

**CENTRAL CONTRA COSTA SANITARY DISTRICT
MARTINEZ, CALIFORNIA**

RODDING INLET FRAME & COVER

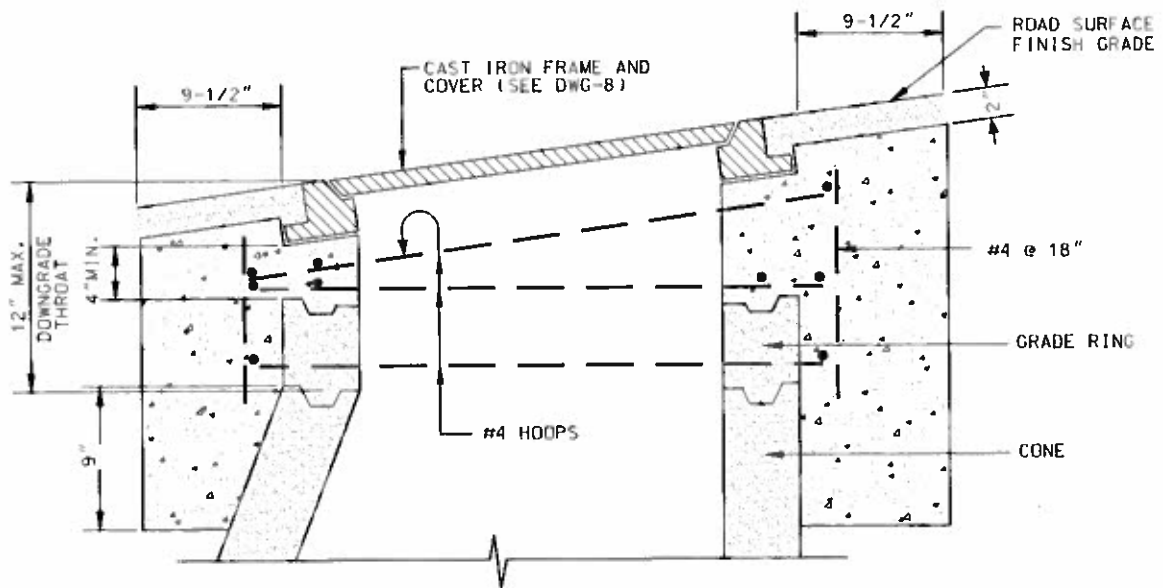


NOTES:

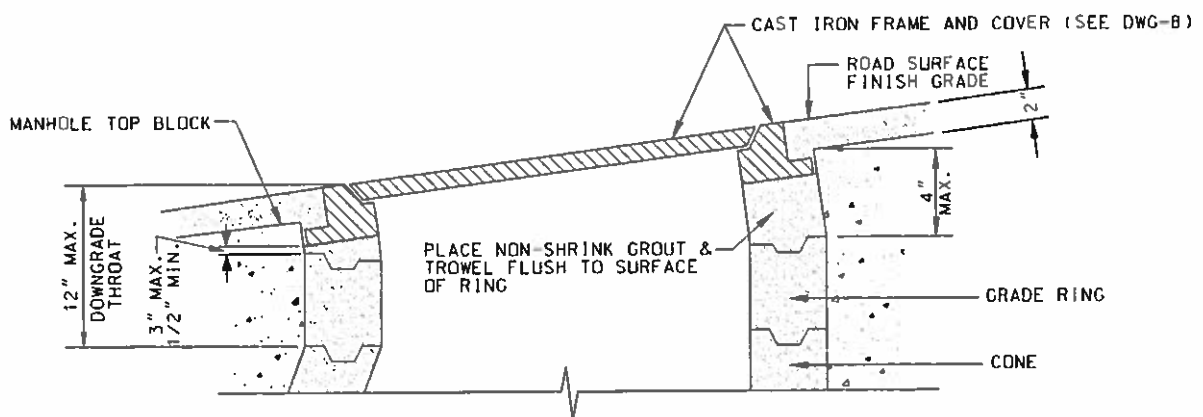
1. COVER SHALL BE DESIGNED FOR HS-20 HIGHWAY LOADING.
2. PICK HOLE SHALL BE OPEN AND FIT A STANDARD PICK.
3. PRY HOLE SHALL BE LOCATED AT TOP CENTER OF THE RODDING INLET COVER AS SHOWN.

**CENTRAL CONTRA COSTA SANITARY DISTRICT
MARTINEZ, CALIFORNIA**

**MANHOLE ADJUSTMENT TO FINISH GRADE
PAVED AREAS**



GREATER THAN 13% GRADE

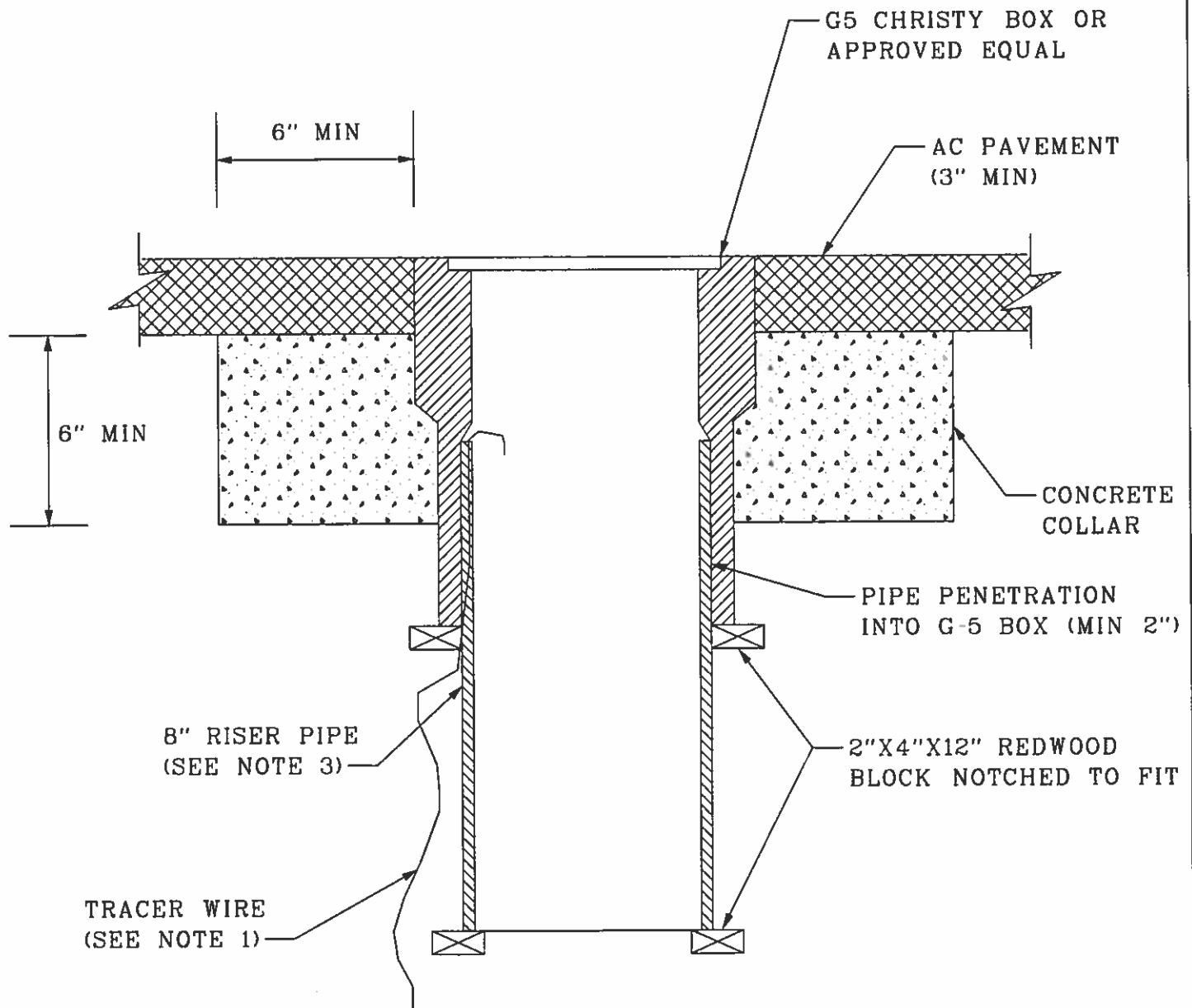


NOTE:

1. SEE DWG-1 FOR TOP BLOCK DETAILS

13% GRADE OR LESS

VALVE BOX



NOTES:

1. AC PAVEMENT TO COMPLY WITH STREET PAVEMENT REQUIREMENTS
2. FOR VALVE BOXES INSTALLED IN NON TRAFFIC AREAS, CONCRETE COLLAR SHALL BE EXTENDED TO FINISH GRADE AND SLOPED TO DRAIN AWAY FROM LID.
3. RISER PIPE TO BE ONE CONTINUOUS PIECE, APPROVED PVC CLASS 150, 200 OR STEEL PIPE WITH A MIN 10 GA WALL THICKNESS
4. IF TRACER WIRE IS OF SUFFICIENT LENGTH RE-ROUTE AS SHOWN

G5
VALVE BOX WITH CAST IRON TRAFFIC LID
NT5

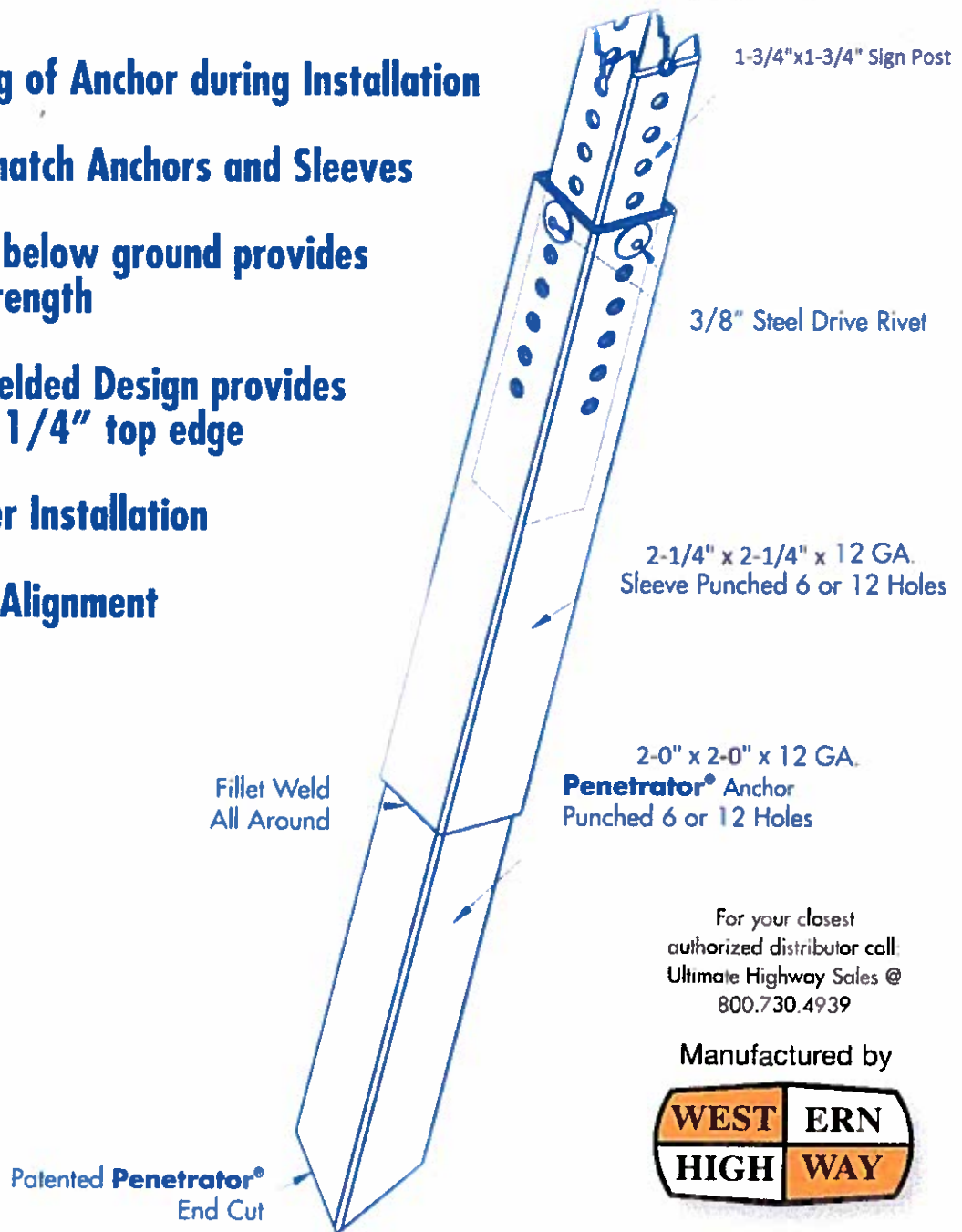
SIGN POST & ACCESSORIES

The Anchor-Mate[®]

The Best Drivable Anchor in the World!

by **Ulti-Mate**
The Ultimate Sign Support System

- No Deforming of Anchor during Installation
- No need to match Anchors and Sleeves
- Solid section below ground provides additional strength
- Two Piece Welded Design provides almost a full 1/4" top edge
- Quicker Easier Installation
- Perfect Hole Alignment



For your closest
authorized distributor call:
Ultimate Highway Sales @
800.730.4939

Manufactured by



<http://www.westernhighway.com>
E-mail: whpsales@westernhighway.com

Ulti-Mate[®]

The Ultimate Sign Support System

Traffic signs are the primary source of information for motorists. The biggest and brightest sign is only effective if the support it is mounted on keeps the sign in its intended position. Sign supports need to be strong,

versatile and cost effective. The Ulti-Mate[®] sign support system, approved by the Federal Highway Administration, is the most reliable, economical and easiest to install support system available.

MATERIALS & SPECIFICATIONS

The Ulti-Mate sign support system is available in 12 and 14 gage steel complying with ASTM specification A653, hot dip galvanized conforming to coating designation G-140 for excellent corrosion prevention.

- Available with 7/16" holes on 1" centers on 2 or 4 sides (11.1mm on 25.4mm centers).
- The Ulti-Mate sign support system is completely compatible with all existing square posts.
- Mating tube sections allow for fast, safe ground level installations.

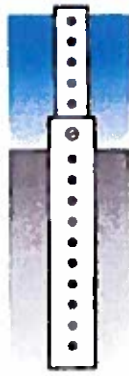
- Ground anchor posts allow for rapid replacement installations when necessary.
- Square tube sections provide superior resistance to wind and other forces over U-channel or round posts.
- The Ulti-Mate sign support system provides four flat surfaces for mounting signs in any direction and at any height without the need for additional hardware.
- FHWA approved as meeting safety requirements for sign supports.
- Custom sign support colors available on request.

FHWA APPROVED INSTALLATIONS



DIRECT INSTALLATION

The Ulti-Mate sign post can be installed directly into the ground using power equipment or a sledge-hammer with driving cap.



EZ INSTALLATION

The Ulti-Mate 12 gage anchor system allows crews to work at ground level for fast installations and replacements. The Ulti-Mate anchor is installed directly into the ground, leaving 1 or 2 holes above grade level. The Ulti-Mate sign post slides into the anchor for safe and easy installations.



HI-IMPACT INSTALLATION

The Ulti-Mate double 12 gage system is for areas that require frequent replacements due to damaged sign posts. This unique method utilizes a two-piece breakaway anchor that makes replacement work fast and safe.

For an easy to follow post-selection ordering guide, contact your local Ulti-Mate distributor.

AVAILABLE PRODUCTS

Tube Size	English			Metric		
	Wall Thickness Gage	Wall Thickness Inches	Pounds Per Foot	Tube Size	Wall Thickness (mm)	Kilograms Per Meter
1.75 x 1.75	14	0.083	1.71	44.45 x 44.45	2.10	2.54
2.00 x 2.00	14	0.083	1.99	50.80 x 50.80	2.10	2.96
2.25 x 2.25	14	0.083	2.28	57.15 x 57.15	2.10	3.39
1.50 x 1.50	12	0.105	1.74	38.10 x 38.10	2.66	2.59
1.75 x 1.75	12	0.105	2.09	44.45 x 44.45	2.66	3.11
2.00 x 2.00	12	0.105	2.44	50.80 x 50.80	2.66	3.63
2.25 x 2.25	12	0.105	2.79	57.15 x 57.15	2.66	4.16
2.50 x 2.50	12	0.105	3.14	63.50 x 63.50	2.66	4.69

Distributed by:

For the name of your closest authorized distributor, call Ultimate Highway Sales at (800) 730-4939

Because you don't need all those holes...

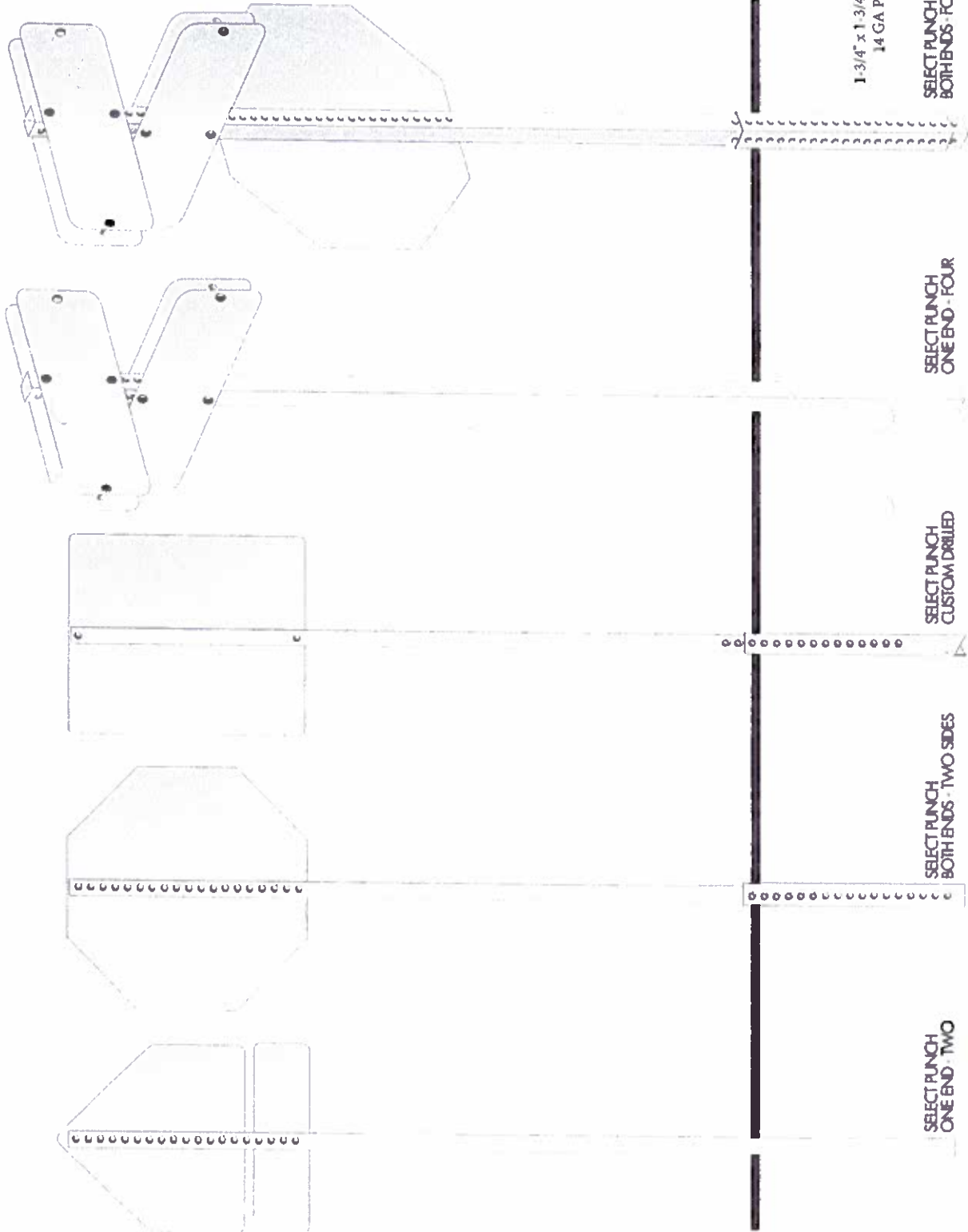
Since the introduction of Ulti-Mate, the Ultimate Sign Support System, we have talked to highway engineers, designers and installers across the country on how to make the best better. The most common response was, "We don't need all those holes". The typical twelve foot post has 56.4 holes; in most cases only 2 holes are required. With that in mind, we are pleased to offer the Selected Punch by Ulti-Mate. Choose the option that best serves your needs... No more unnecessary holes.

- Continuous punching in increments of six, on two or four sides and from either end.
- Custom drilling available to your exact location and hole size as required.
- Also available on all base posts including the Penetrator.
- Minimum of 25 posts per order.

Select Punch by Ulti-Mate. You talked and we listened. **The best just got better.**

Ulti-Mate®
The Ultimate Sign Support System

Manufactured by



1-3/4" x 1-3/4" x 120"
14 GA Post

SELECT PUNCH
BOTH ENDS - FOUR SIDES

SELECT PUNCH
ONE END - FOUR

SELECT PUNCH
CUSTOM DRILLED

SELECT PUNCH
BOTH ENDS - TWO SIDES

SELECT PUNCH
ONE END - TWO

HARDWARE FLAT AND EXTRUDED BLADES

MOUNTING COMPONENTS

<p>CONFIGURATION: End Mount</p> <p>Configuration includes nut and bolt set to hold sign in bracket</p> <p>Flat Blade Sign</p> <p>Mounting Straps</p> <p>End Mount Bracket (See chart below)</p> <p>Sign fully assembled on post.</p>	<p>CONFIGURATION: Single Mount Top of Pole</p> <p>Extruded Blade Sign</p> <p>Post Cap (See list below)</p> <p>Sign fully assembled on post.</p> <p>See note below for compatible posts</p> <p>Configuration includes set screws to hold sign in bracket and bracket onto post</p>	<p>CONFIGURATION: Four-Way Mount Top of Pole</p> <p>Flat Blade Sign</p> <p>Sign to Sign Bracket</p> <p>Post Cap (See list below)</p> <p>Sign fully assembled on post.</p> <p>See list for below for compatible posts</p> <p>Configuration includes set screws to hold signs in bracket and bracket onto post</p>
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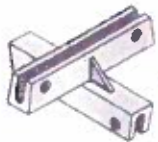
END MOUNT BRACKET
Blade street signs can be held on their ends with this bracket.

EMB-6 for AX-6 or AF-6 signs
EMB-6.75 for AX-6.75 or AF-6.75 signs
EMB-9 for AX-9 or AF-9 signs

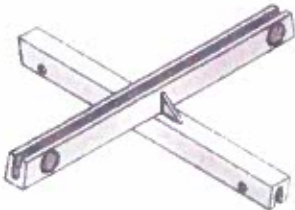


MOUNTING STRAP
Stainless Steel Strap/Clamp - inexpensive and convenient for mounting sign brackets and other uses. With a length of 32 inches, the clamp can accommodate poles up to 9 inches wide.

SIGN TO SIGN BRACKETS
Bracket allows two blade signs to be stack on top of one another.



707XCS for AX-6 or AX-6.75 signs
808XCS for AX-9 signs
606FCS for AF-6 or AF-6.75 signs
808FCS for AF-9 signs



812XCS for AX-9 signs
812FCS for AF-9 signs

POST CAPS AND POST INFORMATION

Post caps are recommended for "Single Top of Pole" or "Four-Way Top of Pole" configurations of blade street signs. Western Highway supplies post caps for the most common street sign posts. Use the following chart to see if your posts are compatible with our regularly available post caps.

<p>Cylindrical Post Caps</p>	<p>Fits 2" ID Diameter Post 707X-2 for AX-6 or AX-6.75 808X-2 for AX-9 signs 606F-2 for AF-6 or AF-6.75 signs 808F-2 for AF-9 signs</p>	<p>Fits 2-1/2" ID Diameter Post 707X-2.5 for AX-6 or AX-6.75 808X-2.5 for AX-9 signs 606F-2.5 for AF-6 or AF-6.75 signs 808F-2.5 for AF-9 signs</p>
<p>Square Post Cap</p>	<p>Fits Square Tube Post 850X for AX-6, AX-6.75 or AX-9 signs 850F for AF-6, AF-6.75 or AF-9 signs</p>	<p>Other post caps are available. Please call us to confirm inventory.</p>
<p>U-Channel Post Cap</p>	<p>Fits U-Channel Post 707XU for AX-6 or AX-6.75 signs 808XU for AX-9 signs 606FU for AF-6 or AF-6.75 signs 808FU for AF-9 signs</p>	

SIGN POST



H21-DP
DELINEATOR POSTS
 HOT DIPPED
 GALVANIZED
 OR BAKED ENAMEL
 GREEN
 5 ft
 6 ft
 1/2 inch x 30 - 3 ft holes on
 1" centers. Light weight but
 strong. Ideal for Detectors
 or marking Utility lines.



H21-GP
 5 ft, 6 ft. GUIDE POSTS
 (FOR MTO TARGET
 PLATES)
H21-GP
 40 inch
 (for mtg. Type "K" Plates)
 California Spec. Flanges
 notched ends pointed

PIPE POST



H21-RP2-12
H21-RP2.5-12
H21-RP2
H21-RP2.5
 GALVANIZED
 STEEL PIPE POSTS
 Schedule 40 steel pipe
 2 inch and 2 1/2 inch I.D.
 12' and 12 ft long
IN STOCK



"U" CHANNEL POSTS
 HOT DIPPED GALVANIZED OR
 BAKED ENAMEL GREEN

H21-SP
SIGN POSTS

6 ft. 7 ft.
 8 ft. 9 ft.
 10 ft. 11 ft.
 12 ft.

2 lb per foot

*Other lengths or special order. Hot dipped
 high carbon, hot steel. 30" holes punched
 on 1" centers, 4 ft length. Bottom painted
 high carbon steel is recommended because
 it holds bending. Needs 6 spaced California
 State road markers.

Ulti-Mate[®]

The Ultimate Sign Support System



DIRECT INSTALLATION

The Ulti-Mate sign post can be
 installed directly into the ground
 using power equipment or a
 sledgehammer with drive cap.



EZ INSTALLATION

The Ulti-Mate 12 gauge anchor
 system allows crews to work at
 ground level for fast installations
 and replacements. The Ulti-Mate
 anchor is installed directly into
 the ground, leaving 1 or 2 holes
 above grade level. The Ulti-Mate
 sign post slides into the anchor
 for safe and easy installations.



HI-IMPACT INSTALLATION

The Ulti-Mate double 12 gauge
 system is for areas that require
 frequent replacements due to
 damaged sign posts. This unique
 method utilizes a two-piece
 breakaway anchor that makes
 replacement work fast and safe.

Tube Size	English		Pounds Per Foot	Metric		
	Wall Thickness Gage	Inches		Wall Thickness (mm)	Kilograms Per Meter	
1.75 x 1.75	14	0.083	1.71	44.45 x 44.45	2.10	2.54
2.00 x 2.00	14	0.083	1.96	50.80 x 50.80	2.10	2.96
2.25 x 2.25	14	0.083	2.28	57.15 x 57.15	2.10	3.39
1.50 x 1.50	12	0.105	1.74	38.10 x 38.10	2.66	2.53
1.75 x 1.75	12	0.125	2.09	44.45 x 44.45	2.66	3.11
2.00 x 2.00	12	0.105	2.44	50.80 x 50.80	2.66	3.63
2.25 x 2.25	12	0.105	2.79	57.15 x 57.15	2.66	4.16
2.50 x 2.50	12	0.105	3.14	63.50 x 63.50	2.66	4.89

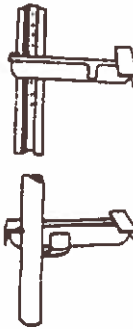
See Separate Literature

SIGN POST ACCESSORIES



H25-4A
DETACHABLE
POST PULLER ONLY
(Only shade post)
Must be used with Jack

H25-7
POST PULLER JACK
ONLY
Includes Base & Handle



H25-6
Self Locking
J Post Stop

H25-6A
Self Locking
2" Post Stop



H25-8
POST DRIVER
For Driving J Channel
Sign Posts
38 lb.



H26-SP
1 1/2" x 48" PIPE ONLY
Painted Black

Use H5 Spacer and H5-2.5
Bolts for mounting signs to
above



H26-20B
20" Base Only

H26-30B
30" Base Only

H26-40B
40" Base Only

5-16" dia steel plate
base Painted black



ULTI-MATE STOP

TO BE USED FOR
TEMPORARY TRAFFIC
CONTROL SITUATIONS.
See separate literature for
complete information



H21-SPDC
MANUAL DRIVE CAP
For U-Channel

H21-SPPDC
POWER DRIVE CAP
8 7/8" SHANK
For U-Channel

UM-MDC175
MANUAL DRIVE CAP
For 1 3/4" anchor posts

UM-MDC200
MANUAL DRIVE CAP
For 2" anchor posts

UM-MDC225
MANUAL DRIVE CAP
For 2 1/4" anchor posts

UM-MDC250
MANUAL DRIVE CAP
For 2 1/2" anchor posts



UM-PDC578-325
POWER DRIVE SHANK
1 1/2" x 3 1/4"

UM-PDC578-425
POWER DRIVE SHANK
1 1/2" x 4 1/4"

UM-PDC51-325
POWER DRIVE SHANK
1 1/4" x 3"

UM-PDC511/8-6
POWER DRIVE SHANK
1 1/8" x 6"

UM-PDC511/4-6
POWER DRIVE SHANK
1 1/4" x 6"



UM-PDC175
POWER DRIVE CAP
For 1 3/4" anchor posts

UM-PDC200
POWER DRIVE CAP
For 2" anchor posts

UM-PDC225
POWER DRIVE CAP
For 2 1/4" anchor posts

UM-PDC250
POWER DRIVE CAP
For 2 1/2" anchor posts



**STREET NAME
SIGN
HARDWARE**

WE MANUFACTURE A COMPLETE LINE OF STREET
NAME SIGN MOUNTING HARDWARE. LOOK FOR IT
IN THE STREET NAME SIGN SECTION OF YOUR
WESTERN HIGHWAY PRODUCTS CATALOG

10650 FERN AVENUE, STANTON, CALIFORNIA 90680
(714) 761-4811 (800) 479-3783 FAX (714) 952-2118
<http://www.westernhighway.com> E-mail whpsales@westernhighway.com

SIGN MOUNTING HARDWARE

	<p>H1-SL STRAP-ON BRACKET (Straight Leg) Extra Heavy 1/8" Steel Hot dipped galv with 5/16" tapped hole. Sockets for 3/4" Strap Mounting Bolt not included.</p> <p>H1-SLSS STAINLESS STEEL BRACKET Includes Mounting Bolt.</p>	<p>H6-STB SEAL-TITE BOLT 5/16" X 1 1/2" bolt with Neoprene washer for mounting Signs with tapped brackets on pipe.</p>
	<p>H2-FL STRAP-ON BRACKET (Flared Leg) For banding to large pipes. Extra heavy 1/8" steel. Hot dipped galv with 5/16" tapped hole. Sockets for 3/4" Strap.</p> <p>H2-FLSS STAINLESS STEEL BRACKET Includes Mounting Bolt.</p>	<p>H6-TPBKEY KEY WRENCH For tamper proof bolt.</p> <p>H6-TPDR RACKET DRIVER For tamper proof bolt.</p> <p>H6-TP TAMPER PROOF BOLT 5/16" X 1 1/2" special spanner head bolt. Use same as H6-STB bolt.</p>
	<p>H3-CLB STRAP-ON BRACKET CANTILEVER Heavy Gauge Aluminum Use one for each sign hole. For mounting double face Signs. sockets for 3/4" strap and punched for 5/16" bolts.</p>	<p>H6-VGNG For Galv. Bolt H6-VGNP For Plated Bolt VANDLGARD-NUT Tamper Proof Nut for Sign Mounting Call Western Highway for information on this unique, easily installed nut that suits sign cases.</p>
	<p>H4-D-007 STRAP-ON L-MOUNT BRKT Stainless Steel Double holes for mounting long signs. May be used back to back in pairs for extra rigid cantilever mounting. Sockets for 3/4" Strap.</p>	<p>H6-2.5 BG 2 1/2" - Galv. H6-2.5 BP 2 1/2" - Plated BUTTON THEFT PROOF BOLT When this button head bolt is used with H6-VGN above theft is almost impossible. 5/16" Diameter. Available in both galvanized and plated.</p> <p>H6-4.5 CB 4 1/2" Plated Carriage Bolt includes adapter washer. Washer can be SOG as separate item.</p>
	<p>H5 BOLT-ON SPACER Galv. Channel for 1 1/2" x 1 1/2" x 1/8" Provides flat mounting surface when bolting sign to any size pipe to prevent warpage.</p>	<p>H6-23 SIGN MTG. HDWR. For U Channel Posts. Aluminum spacer 3 1/2" x 2 1/2". 5/16" x 2 1/2" Bolt, Washer and Nut.</p> <p>H6-24 GUIDE PLATE MTG. HDWR. 1 1/4" X 1/2" Bolt, Washer and Lock Nut 18 sets req'd per Guide Marker.</p>

SIGN MOUNTING HARDWARE



HWSSC
STAINLESS STEEL CLAMP
 Inexpensive and convenient for mounting sign brackets and other uses. 3/2" long fits 2" to 3" diameter pipe.



H14-C130
3/4" STRAPPING TAPE
 C-15 Stainless Steel
 200 Ft. Roll



H9-2
H9-2.5
CLAMP ON U-BRACKETS
 (Single Bracket)
 Includes steel zinc coated U-bolt with nuts and cast aluminum bracket. Sign fastening tool for H10-J06.
 Use H8-S-7B or H8-T79.
 Fits 2" and 2 1/2" standard size aluminum strapping or drilling holes.

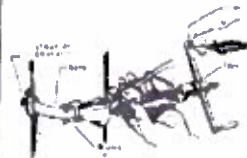
H14-C163
3/4" STRAPPING TAPE
 C-20 Stainless Steel
 250 Ft. Roll



H14-C150
VALUE CLIP
 100 per Box



H10-1 (3"6" x 1" x 36")
SIGN BRACE (Galv.)
 1/2" x 4 x 4 posts
H10-2 (3"6" x 1" x 37" x 4")
 1/2" x 4 x 4 posts
H10-3 SHG
HEX HEAD BRACE BOLT
 5/16" x 4 1/2" includes nut & washer
H10-4 SHG
HEX HEAD BRACE BOLT
 5/16" x 4 1/2" includes nut & washer
H10-5 SHG
HEX HEAD BRACE BOLT
 5/16" x 4 1/2" includes nut & washer



H18-C001
BANDING TOOL
 For use with any size banding or strapping tape.



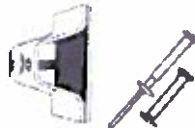
H11-C203 3/8"
H11-C204 1/2"
H11-C205 3/8"
H11-C206 3/4"
HEAVY DUTY BANDING TAPE
 316 Stainless Steel 100 Ft. Roll



H19-HP2
HAND PLIER RIVETING TOOL
 For self-setting rivets. Complete with 4 sizes Heads - 3/32" - 5/16" 5/32" 3/16"



H20-AB66A
3/16" SELF-SETTING RIVETS
 For fastening C.M. Riv. Buttons with Hand Plier. 100 per Box



H20-18
1/4" x 7/8" POP RIVET
 100 per Box

H20-25
CHERRY-MATE FASTENER
 1/4" x 1/2" x 3/8" POP RIVETS
 A convenient way to mount signs on the H21-SF sign posts.
 100 per Box



H16-C253 3/8"
H16-C254 1/2"
H16-C255 5/8"
H16-C256 3/4"
HEAVY DUTY BUCKLES
 Stainless Steel 100 per Box



H20-316 3/16" x 9/16"
DRIVE RIVETS
 For fastening C.M. Riv. Buttons with Hammer

H20-38 3/8" x 1/2"
 For sign mounting 100 per box

APPENDIX C

ROAD CLOSURE SAMPLE LETTER

ROAD CLOSURE SAMPLE SIGN

RE-NOTIFICATION ROAD CLOSURE SAMPLE SIGN



City Council

Mark Mitchell, Mayor
Mike Anderson, Vice Mayor
Brandt Andersson, Council Member
Traci Reilly, Council Member
Don Tatzin, Council Member

NOTICE OF ROAD CLOSURE

XXXXXXXX, 2016

Subject: City of Lafayette 2016 Road Rehabilitation Project, Project Number 014-9706

Dear Residents:

_____ will be starting the roadway reconstruction and paving phase of work starting XXXX, xxxxxxxx, 2016 on **Sample Street**. During this phase of work the street will be closed between 8:30 a.m. and 4:30 p.m., and parking on the shoulder of the road will be prohibited from 8:00 am. to 5:00 pm. You may park outside the closure on surrounding streets in any legal parking space to have access to your vehicle during the road closure hours. If the contractor allows vehicle traffic into or out of the closure it will be at their discretion and dependent on the construction activity and safety of the access. Please note that emergency vehicles will be provided access at all times.

The contractor's schedule calls for the following road closure dates:

Sample Street

Xxxxxxx - xxxxxxxxx – Pulverize, grade, & cement treat the roadway
(note no work will be done on the weekend)
XXXXXXXXXXXX - Paving Base Lift of asphalt
XXXXXXXXXXXX – Paving the final layer of asphalt

Changes in the work dates will be posted on or near the project information sign at the entrance to your street. In addition, weekly updates for the project schedule will be posted on the City's web site at <http://www.ci.lafayette.ca.us> Select "Public Works & Construction" in the quick links section of the home page; then select the link for this project under "City Construction Projects," then select the 2016 Road Rehabilitation Project.

The city and the contractor are anxious to complete this project with minimum delay and inconvenience to you. While the work is in progress, please lend us your cooperation and extra patience and be alert to equipment, workers, and traffic control.

During the construction, questions regarding the work may be directed to _____, Project Engineer for _____ at (xxx) xxx-xxxx. I may be reached at (925) 299-3247. Again, your patience and cooperation are very much appreciated.

Sincerely,

Matt Luttrupp
Senior Engineer

Sample Street

Road Reconstruction

ROAD CLOSED

Wed 9/23 – Fri 9/25

Mon 9/28 – Tue. 9/29

Mon 10/5 – Tues 10/6

8:30 am to 4:30 pm

UPDATE

Sample Street

Road Reconstruction

ROAD CLOSED

Mon 9/21 – Fri 9/25

Wed 9/30 – Thurs 10/1

8:30 am to 4:30 pm