PLANS AND SPECIFICATIONS

FOR

TOWN PROJECT #16-811-0230
E. Main Street Green Bike Lanes
(Recycled Glass)

Bid Opening
Friday, November 11, 2016

Approved by Town Council for the Town of Los Gatos

Recommended by:

Lisa Petersen, P.E.
Town Engineer

Approved by:

Matt Morley
Director of Parks and Public Works

Date: 10-18-2016

TABLE OF CONTENTS

SECTION	TITLE	PAGE

Part I – Bid and Award

Notice to Contractors I-1
Bid Documents
Bid Form I-3
A. Schedule of Quantities I-4
B. Bid Form I-5
C. Reservation I-5
D. Subcontractors I-5
E. Notice I-5
F. Disclosure I-5
G. Words and Phrases I-6
H. Certification I-6
I. Licensing I-6
List of Subcontractors I-9
Bidder's Bond I-12
Contract Documents
Construction Agreement I-13
Contractors Bond for Labor and Material I-21
Contractors Bond for Faithful Performance I-25

Part II – Standard Specifications

Section 1 DEFINITIONS AND TERMS II-1
1-1.01 Definitions II-1
1-1.02 Specifications II-2
1-1.03 General II-2
1-1.04 Statement of Work II-2
1-1.05 Drawings II-3
1-1.06 Business License II-3
1-1.07 Minority and Women Business Enterprises II-3
1-1.08 Proof of Competency of Bidder II-3
1-1.09 Special Notice II-3
Section 2 PROPOSAL REQUIREMENTS AND CONDITIONS II-4
2-1.01 Examination of Plans, Specifications and Site Work II-4
2-1.02 Contents of Bid II-4
2-1.03 Withdrawal of Bid II-4
2-1.03.A Withdrawal of Bids After Opening II-4
2-1.03.B Bidders Interested in More than One Bid II-4
2-1.04 Submission of Bids; Agreement to Assign II-5
2-1.05 List of Subcontractors II-5
2-1.06 Insurance II-5
2-1.07 Bidder's Bond II-5
2-1.08 Guarantee of Materials and Equipment II-5
Section 3 AWARD AND EXECUTION OF CONTRACT II-7
3-1.01 Award or Rejection of Bids II-7

SECTION	TITLE	PAGE

3-1.02	Rejection of Proposals	II-7
3-1.03	Substitution of Subcontractors	II-6
3-1.04	Performance Bond and Labor and Materials Bond	II-8
3-1.05	Execution of Agreement	II-8
3-1.06	Notification by Contractor	II-8
Section 4	SCOPE OF WORK	II-10
4-1.01	Location of Work	II-10
4-1.02	Changes to the Work	II-10
4-1.03	Notification of Change in Condition	II-10
Section 5	CONTROL OF WORK	II-12
5-1.01	Control of Work	II-12
5-1.02	Interpretation of Drawings and Documents Prior to Bidding	II-12
Section 6	CONTROL OF MATERIALS	II-13
6-1.01	Control of Materials	II-13
Section 7	LEGAL RELATIONS AND RESPONSIBILITY	II-14
7-1.01	Wages	II-14
7-1.02	Additional Sureties	II-14
7-1.03	Legal Relations and Responsibility	II-14
7-1.04	Employment of Apprentices	II-15
7-1.05	Storm Water Pollution Prevention	II-16
7-1.06	Public Works Contracts; Assignment to Awarding Body	II-16
7-1.07	Unfair Business Practice Claims	II-16
7-1.08	Traffic Control Plan and Devices	II-17
7-1.09	Insurance	II-17
7-1.10	Contract Documents on Site	II-19
7-1.11	Coordination of Work with Other Contracts	II-19
7-1.12	Equal Employment Opportunity Policy	II-19
7-1.12.A	Equal Employment Opportunity Officer	II-19
7-1.12.B	Dissemination of Policy	II-20
7-1.12.C	Recruitment	II-20
7-1.12.D	Personnel Actions	II-20
7-1.12.E	Training and Promotion	II-21
7-1.12.F	Unions	II-21
7-1.12.G	Subcontracting	II-21
7-1.12.H	Debarred Contractors and Subcontractors	II-22
7-1.12.I	Notices and Posters	II-22
7-1.12.J	Fair Employment Practices Statement	II-22
7-1.12.K	Records	II-22
7-1.12.L	Reports	II-23
7-1.12.M	Breach of Equal Employment Conditions	II-23
7-1.12.N	Disqualification from Future Contracts	II-24
7-1.12.O	Other Remedies	II-24
7-1.13	Equipment and Material Replacement	II-24
7-1.14	Public Safety Notice - Noise	II-24
Section 8	PROSECUTION AND PROGRESS	II-26
8-1.01	Progress Schedule	II-26
8-1.02	Start of Work and Time of Completion	II-26
8-1.03	Liquidated Damages	II-26
8-1.04	Adjustment and Preservation of Utilities	II-27
8-1.05	Working Hours	II-27

SECTION	TITLE	PAGE
8-1.06	Supervision	II-27
8-1.07	Pre-Construction Conference	II-27
Section 9	MEASUREMENT AND PAYMENT	II-29
9-1.01	Measurement and Payment	II-29

Part III – Special Provisions

Section 1	SPECIFICATIONS AND PLANS	III-1
	Special Provisions Section 1 – Section 9	III-1
Section 2	PROPOSAL REQUIREMENTS AND CONDITIONS	III-1
	Proposal Guaranty	III-1
Section 3	AWARD AND EXECUTION OF CONTRACT	III-1
	Determination of Low Bid	III-1
	Pre-Construction Conference	III-2
Section 4	BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES	III-2
	General	III-2
	Time of Completion	III-2
	Liquidated Damages	III-3
Section 5	GENERAL REQUIREMENTS	III-3
	Licenses	III-3
	Worker's Compensation	III-3
	Insurance Requirements	III-3
	Public Safety	III-4
	Labor Nondiscrimination	III-4
	Prevailing Wage	III-6
	Payroll Records	III-7
Section 6	CONTROL OF WORK	III-7
	Record Drawings	III-7
	Materials Testing	III-7
Section 7	CLAIMS	III-7
	General	III-7
Section 8	MATERIALS	III-10
	Town Furnished Materials	III-10
	Submittals	III-10
	Materials Submittal List	III-10
Section 9	DESCRIPTION OF WORK	III-13
	Description of Work	III-13
	Locations of Work	III-13

Part IV – Technical Specifications

Section 10-1	GENERAL CONSTRUCTION REQUIREMENTS	IV-1
	Project Plans	IV-1
	Mobilization	IV-1
	Order of Work	IV-1
	Cooperation	IV-1
	Progress Schedule	IV-1
	Record Drawings	IV-2
	General Measurement and Payment Requirements	IV-3

SECTION	TITLE	PAGE

Hours of Work IV-3
24-Hour Contact Number IV-3
Advance Public Notification IV-3
Meetings IV-4
Waste Haulers and Recycling Operations IV-5
Project Appearance and Street Sweeping IV-5
Right-of-Way IV-5
Tree Trimming IV-5
Landscaping Obstruction IV-5
Staging/Disposal Areas IV-5
Dust Control IV-6
Water for Construction IV-6
Sanitation IV-6
Water Pollution Control IV-6
Electric Blowers IV-7
Measurement and Payment IV-7
Section 10-2 TRAFFIC CONTROL REQUIREMENTS IV-7
General IV-7
Traffic Control/Management Plan IV-8
No Parking Signs IV-8
Detours, Temporary Striping, and Barriers IV-8
Additional Construction Area Signs and Controls IV-9
Maintenance of Pedestrian Access and Circulation IV-9
Lane Closures IV-9
Traffic Control System for Lane Closure IV-10
Temporary Pavement Delineation IV-11
Property Access Requirements IV-11
Measurement and Payment IV-11
Section 10-3 EXISTING FACILITIES IV-11
General IV-11
Protect Existing Facilities to Remain IV-11
Measurement and Payment IV-12
Section 10-4 PAVEMENT MARKER, THERMOPLASTIC MARKING, AND STRIPING REMOVAL IV-12
General IV-12
Measurement and Payment IV-13
Section 10-5 TEMPORARY PAVEMENT DELINEATION IV-13
General IV-13
Temporary Striping IV-14
Measurement and Payment IV-14
Section 10-6 TRAFFIC STRIPES, PAVEMENT MARKINGS, AND MARKERS IV-14
General IV-14
Raised Pavement Markers IV-15
Thermoplastic Traffic Stripe and Pavement Marking IV-15
Application IV-16
Extruded Thermoplastic IV-16
Measurement and Payment IV-16
Section 10-7 GREEN BIKE LANES (RECYCLED GLASS) IV-16
General IV-17
Surface Preparation IV-17

Construction Alignment....IV-17
Protection from Damage....IV-17
Material Color....IV-17
Tolerances and Appearance....IV-17
Polymer Resin Binder....IV-18
Polymer Resin Binder Requirements....IV-18
Aggregate Topping....IV-18
Construction....IV-19
Measurement and Payment....IV-19

Appendices

Appendix A Project Plans....App.-1
Appendix B Blueprint for a Clean Bay....App.-3
Appendix C Standard Plans-Traffic....App.-15

SECTION	TITLE	PAGE

NOTICE TO CONTRACTORS

NOTICE TO CONTRACTORS

Sealed proposals will be received at the office of the Town Clerk of the Town of Los Gatos, 110 E. Main Street, Los Gatos, CA 95030, until

2:00 PM **FRIDAY** **Friday, November 11, 2016**

for the following project:

Project #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass)

at which time they will be publicly opened and read aloud. Sealed proposals must be clearly marked on the outside with the Project name or number, date, and time of bid.

This following information is presented to indicate the size of the project and no warrant is made or intended as to final quantities:

The project includes the removal of existing pavement markings and installation and striping of green bike lanes on E. Main St.

All contractors and subcontractors have been required since April 1, 2015 to be registered with the Department of Industrial Relations (DIR). No contractor or subcontractor may be listed on a bid proposal or may work on a public works project unless registered with DIR.

All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement). For additional information, visit the DIR website at: http://www.dir.ca.gov/Public-Works/PublicWorks.html.

Each bid must be accompanied by a cashier's check, certified check, or Bidder's Bond executed by a corporate surety authorized to engage in such business in the State of California, payable to the Town of Los Gatos, in an amount not less than ten percent (10%) of the amount of the Base Bid. The successful bidder will be required to furnish a Performance Bond in an amount equal to one-hundred percent (100%) of the contract price, and a Labor and Material Bond in an amount equal to one-hundred percent (100%) of the contract price. Said bonds shall also be executed by a corporate surety authorized to engage in such business in the State of California and be made payable to the Town of Los Gatos.

If the successful bidder fails, neglects, or refuses for TEN (10) calendar days after the award of the contract to enter into the contract to perform the work, the cashier's check, certified check, or Bidder's Bond accompanying the bid and the amount therein named, shall be declared forfeited to the Town and shall be collected by it and paid into its general fund. No bidder may withdraw his/her bid for a period of SIXTY (60) calendar days after the date set for the opening thereof, and the same shall be subject to acceptance by the Town during this period.

The Town reserves the right to reject any or all bids, waive any irregularities in any bids and its determination as to which bid is the lowest responsible bid and is for the best interest of the Town shall be final. The Town shall have SIXTY (60) calendar days from and after the opening of the bids within which to make its determination.

The Contractor receiving the award of the contract shall begin work within FIFTEEN (15) calendar days after receipt of the Notice to Proceed and shall diligently prosecute the same to completion within the

time restrictions as listed in the technical specifications and all work shall be completed by the time allotted in the technical specifications.

The Contractor shall have **FIFTEEN (15) working days** to complete this project. Working days will be counted upon the Contractor's receipt of the Notice to Proceed, as noted above.

At the time the Contractor's bid proposal is submitted, the Contractor shall possess a valid Class **A** or **C-32** California Contractor's License. The Contractor shall also possess a valid Town of Los Gatos Business License at the time the contract is awarded.

The Town of Los Gatos hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin, sex, religion, age or disability. **The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR, Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may results in the termination of this contract, or such other remedy as recipient deems appropriate.**

Prevailing Rate of Wages: In accordance with the provisions of the California Labor Code, the Town Council hereby determines that the general prevailing per diem rate of wages in the Town of Los Gatos, for laborers and for each craft or type of worker and mechanic employed in the execution of the contract, is the Union Wage Scale established for Santa Clara County, which wage scale as of the execution date of the contract is incorporated herein as if fully set forth. Overtime shall be not less than one and one-half (1-1/2) times the established rates. Sundays and holidays shall be not less than two (2) times the established rates. In payment of labor, the Contractor shall comply with the provisions of Labor Code Sections 1770 to 1781 inclusive (Article 2, Chapter 1, Part 7, Division 2), and any acts amendatory thereto.

For any moneys earned by the Contractor and withheld by the Town to ensure the performance of the contract, the Contractor may, at the Contractor's request and expense, substitute securities equivalent to the amount withheld in the form and manner and subject to the conditions provided in Article 8, (commencing with Section 10263), Chapter 1, Part 2, Division 2 of the Public Contract Code of the State of California.

Plans and Specifications may be viewed at no cost or purchased for a non-refundable fee of thirty-seven dollars ($37.00) via the internet at www.printscharlesrepro.com (Plan Vault). Plans and Specifications may also be purchased by calling or emailing Prints Charles Reprographics at (408) 240-3330 or incoming@printscharlesrepro.com. Please make checks payable to Prints Charles Reprographics. Bidders requesting that Plans and Specifications be mailed/shipped to them will be charged the full cost of shipping. Plans, Specifications, and Plan Holder's list may also be viewed at the website noted above.

ATTEST:

Shelley Neis

Clerk Administrator

BID DOCUMENTS

BID FORM

TO: The Town of Los Gatos, County of Santa Clara, State of California, herein called Owner

FROM: _____, herein called Contractor

A. UNIT PRICE SCHEDULE

Pursuant to and in compliance with your Notice to Contractors and the Contract Documents relating to the **PROJECT #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass),** including Addenda No. _____, _____, _____, the undersigned bidder, having become thoroughly familiar with the terms and conditions of the Contract Documents and with the local conditions affecting the performance and the costs of the Work at the place where the Work is to be done, and having inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the Contract Documents (including the furnishing of any and all labor and materials) and do all the work required to construct and to complete said work in accordance with the Contract Documents, and that Contractor will take in full payment therefore the amounts shown on the following unit price schedule:

INSERT
SCHEDULE OF QUANTITIES
HERE

B. BID FORM

The quantities shown on this bid form are approximate only, being given as a basis for the comparison of bids, and the Owner does not, expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount or class or portion of the work as may be deemed necessary or advisable by the Director of Parks & Public Works. This bid will be rejected if bidder fails to provide a bid for each item. The Owner reserves the right to make a comparison of bids based on any combination of the above alternate bid items.

C. RESERVATION

It is understood that the Owner reserves the right to reject this bid, but that this bid shall not be withdrawn for a period of 60 days from the date prescribed for its opening.

D. SUBCONTRACTORS

Attached hereto and incorporated herein is the complete and entire list of subcontractors to be employed by the undersigned in the performance of the work.

E. NOTICE

If written notice of the acceptance of this bid is mailed or delivered personally to the undersigned within 60 days after the date set for the opening of this bid, or at any time thereafter before it is withdrawn, the undersigned bidder shall execute and deliver the Contract Documents to Owner in accordance with this bid as accepted, and will also furnish and deliver to Owner the Performance Bond, Labor and Material Bond as specified, and proof of insurance coverage as required in Part I, under "Construction Agreement," of these Specifications, all within 10 calendar days after personal delivery or after deposit in the mails, of the notification of acceptance of this bid. The above mentioned bonds shall be satisfactory to, and on the forms approved by Owner.

Notice of acceptance or request for additional information may be addressed to the undersigned at the address set forth below.

F. DISCLOSURE

The undersigned declares that this bid is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation; that the bid is genuine and not collusive or sham; that the undersigned has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid and has not directly or indirectly colluded or agreed with any bidder or anyone else to put in a sham bid or to refrain from bidding; that the undersigned has not directly or indirectly sought by agreement, communication or conference with anyone to fix his/her bid price or the bid price of any other bidder, or to fix any overhead, profit or cost element of such bid price or of that of any other bidder, or to secure any advantage against the Town of Los Gatos or anyone interested in the proposed Contract; that the only persons or parties interested in this bid as principals are those named herein; that all statements contained in this bid are true; that the undersigned has not directly or indirectly, submitted his/her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any other persons, partnership, corporation, or association except to such person or persons as have a direct financial interest in bidder's general business; and that the undersigned has not accepted any bid from any subcontractor or materialperson through any bid

depository, the Bylaws, Rules or Regulations of which prohibit or prevent the undersigned from considering any bid from any subcontractor or materialperson, which is not processed through said bid depository, or which may prevent any subcontractor or materialperson from bidding to any general contractor who does not use the facilities of or accept bids from or through such bid depository; and that the undersigned has not paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

G. WORDS AND PHRASES

Wherever in this bid an amount is stated in both words and figures, in case of discrepancy between words and figures, the words shall prevail; if all or any portion of the proposal is required to be given in unit prices and totals and a discrepancy exists between any such unit prices and totals so given, the unit prices shall prevail.

H. CERTIFICATION

The undersigned certifies that the Contract Documents have been thoroughly read and understood and that, except as may be specifically noted and contained in addenda, there are no discrepancies or misunderstandings as to the meaning, purpose or intent of any provision in the Contract Documents or as to the interpretation of the same. The undersigned hereby incorporates by reference, the same as though set out in full, all provisions of the Notice to Contractors and Information for Bidders published by Owner and pertaining to the work described in this bid.

Accompanying this bid is _____ [insert words "cash", "cashier's check", "certified check", or "bidder's bond", as the case may be], in amount equal to at least 10% of total of the bid, naming the Owner as Obligee or Payee, as applicable.

The names of all persons interested in the foregoing bid as principals are as follows:

IMPORTANT NOTICE: If bidder or other interested person is a corporation, give legal name of corporation, state where incorporated and names of the president and secretary thereof; if a partnership, give name of the firm, also names of all individual co-partners composing firm; if bidder or other interested person is an individual, give first and last names in full.

_____

I. LICENSING

The undersigned is licensed in accordance with State Law providing for the registration of Contractors, License No. _____. [A class "A" or “C-32” California Contractor's License is required.] The License expiration date is _____. No payment for work or material under this Contract will be made by Owner unless and until the Owner receives verification from the State Registrar of Contractors that the records of the Contractor's State License Board indicate the successful bidder was properly licensed at the time the Contract was awarded.

Any bidder not so licensed shall be subject to all legal penalties imposed by law, including, but not limited to, an appropriate disciplinary action by the Contractor's State License Board.

In addition, failure of the bidder to obtain and maintain proper and adequate licensing for the Contract shall constitute a failure to execute or perform this Contract and shall result in the forfeiture of the security of the bidder. The representations made herein are under penalty of perjury.

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth below, together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation; if bidder is a co-partnership, the name of the firm shall be set forth below, together with the signatures of the partner or partners authorized to sign contracts in behalf of the co-partnership; and if bidder is an individual, his/her signature shall be placed below.

I declare under penalty of perjury that I have the authority to execute this bid form and that the foregoing is true and correct.

BUSINESS ADDRESS: _____

DATE: _____

BIDDER: _____
(FIRM NAME)

BY: _____ TITLE: _____

ADDRESS / TELEPHONE: _____

_____

CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR)

REGISTRATION NUMBER: _____

LIST OF SUBCONTRACTORS

In compliance with the provisions of §§4100-4107 of the Public Contracts Code of the State of California, and any amendments thereof, the undersigned bidder has set forth below the name and the location of the place of business of each subcontractor who will perform work or labor or render service to the undersigned in or about the construction of the Work to be performed under the Contract Documents to which the attached bid is responsive, or of a person who will, off the job site, specially fabricate a portion of the Work or improvement according to detailed drawings contained in the *Standard Specifications*, Part II, and the portion of the Work which will be done by each such subcontractor or person that will be in an amount in excess of ½ of 1% of the prime Contractor's total bid, or $10,000, whichever is greater. Prime Contractor shall list the California Department of Industrial Relations (DIR) number for all subcontractors working on the project.

DIVISION OF WORK	SUBCONTRACTOR	COST OF WORK	ADDRESS	DIR #

_____
(Bidder's Signature)

BIDDER'S BOND

KNOW ALL PERSONS BY THESE PRESENTS:

That we, _____ as Principal, and _____ as Surety, are held and firmly bound unto the Town of Los Gatos, a municipal corporation of the State of California (hereinafter called "Town") in the penal sum of 10% of the total aggregate amount of the bid of the Principal above named, submitted by said Principal to the Town for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the Surety hereunder exceed the sum of ($_____) dollars.

The condition of this obligation is such that a bid to the Town for certain construction specifically described as follows, for which bids are to be opened on **Friday, November 11, 2016, at 2:00 p.m.**, has been submitted by Principal to Town:

BID TOTAL from BID SCHEDULE: _____

The quantities shown on this bid form are approximate only, being given as a basis for the comparison of bids, and the Owner does not, expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount or class or portion of the work as may be deemed necessary or advisable by the Director of Parks & Public Works.

NOW THEREFORE, if the Principal is awarded the Contract and within the time and manner required under the Specifications, after the prescribed forms are presented to the Principal for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files 2 bonds with the Town, to guarantee faithful performance of the Contract and to guarantee payment for labor and materials as provided by law as well as files insurance certificates and equal employment opportunity documentation required under the bid, then this obligation shall be null and void; otherwise, it shall remain in full force.

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

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, 20___.

PRINCIPAL:	**SURETY:**
_____	_____
(Seal)	(Seal)
_____	_____
(Seal)	(Seal)
_____	_____
(Seal) (Principal)	(Seal) (Principal)
_____	_____
(Address)	(Address)
_____	_____
(City, State, Zip)	(City, State, Zip)
_____	_____
(Phone Number)	(Phone Number)

NOTE: Attach Notary Acknowledgment for signatures of those executing for **PRINCIPAL** (owner) and **SURETY**.

CONTRACT DOCUMENTS

CONSTRUCTION AGREEMENT

This Agreement is dated for identification this ____ day of _____, 2016, and is made by and between the TOWN OF LOS GATOS, a California municipal corporation, whose address is 110 East Main Street, Los Gatos, California 95030 (hereinafter "TOWN"), and (CONTRACTOR NAME), whose address is (CONTRACTOR ADDRESS) (hereinafter "CONTRACTOR").

NOW, THEREFORE, the parties agree:

ARTICE I: WORK TO BE DONE AND DOCUMENTS FORMING THE CONTRACT.

That for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the said TOWN, and under the conditions expressed in the two bonds hereunto annexed, the said CONTRACTOR agrees with the said TOWN, at his own proper cost and expense, to do all the work and furnish all the materials and equipment necessary to construct and complete, in accordance with the plans and specifications hereinafter mentioned, in a good, workmanlike and substantial manner, under the supervision of the Town Engineer, or his, of the TOWN OF LOS GATOS, California, all the works and improvements described, mentioned and set forth in those plans and specifications on file in the Office of the Parks and Public Works of said TOWN, entitled:

"Plans and Specifications for
Project #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass)

which said plans and specifications and all the documents therein contained, including the TOWN OF LOS GATOS's Standard Provisions, are hereby specially referred to and by such reference made part of this contract.

ARTICLE II: CONTRACTOR'S ACCEPTANCE

CONTRACTOR agrees to receive and accept the prices shown on Exhibit "A," which is attached hereto and incorporated by reference herewith, as full compensation for furnishing all materials and equipment and for doing all the work described in the contract documents; also for all loss or damage as provided in the contract documents in the prosecution of the work until its acceptance by the Town Council of the TOWN OF LOS GATOS, and for well and faithfully completing the work, and the whole thereof, in the manner and according to the contract documents, plans and specifications, and the requirements of the Town Engineer.

ARTICLE III: ACCEPTANCE BY TOWN

The said TOWN hereby promises and agrees with the said CONTRACTOR to employ, and does hereby employ the said CONTRACTOR to provide the materials and to do the work 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 above set forth; and the said parties for themselves their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of the covenants herein contained.

ARTICLE IV: COMPLETION OF AGREEMENT

Reference is made to Part I – Page 1 of the TOWN's Project Specifications Notice to Contractors which are hereby made a part of this contract. Inasmuch as the work called for under this contract concerns a needed public improvement, the time of performance and completion of this work is of the essence of this contract. It is expressly understood and agreed by the parties hereto that all the work called for under this contract, in all its parts and requirements, shall be completed thirty (30) working days from Notice to Proceed.

ARTICLE V: HOURS OF LABOR

The CONTRACTOR shall forfeit, as a penalty, to the TOWN, Twenty-Five Dollars ($25) for each workman employed in the execution of the contract by him or by any subcontractor for each calendar day during which any workman is required or permitted to labor more than eight (8) hours in violation of the provisions of Sections 1810-1815 inclusive of the Labor Code and all amendments thereto.

ARTICLE VI: APPRENTICES

Attention is directed to the provisions in Sections 1777.5, 1777.6 and 1777.7 of the Labor Code governing the employment of apprentices by the CONTRACTOR or any subcontractor under him. CONTRACTOR and any of his subcontractors shall comply with the requirements of said sections of the Labor Code; CONTRACTOR shall have full responsibility for compliance with the said sections regardless of any other contractual or employment relationships alleged to exist.

Information relative to apprenticeship standards and other requirements may be obtained from the Director of Industrial Relations ex officio the Administrator of Apprenticeship, San Francisco, California or from the Division of Apprenticeship Standards at its branch offices.

ARTICLE VII: NONDISCRIMINATION

The CONTRACTOR sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. CONTRACTOR shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts.

Failure by CONTRACTOR to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as recipient deems appropriate.

ARTICLE VIII: INDEPENDENT CONTRACTOR

It is agreed that CONTRACTOR is an independent contractor, and all persons working for or under the direction of CONTRACTOR are CONTRACTOR's agents, servants and employees, and said persons shall not be deemed agents, servants or employees of TOWN.

ARTICLE IX: OWNERSHIP OF DATA AND DOCUMENTS

CONTRACTOR agrees that all records, specifications, data, maps, designs, graphics, writings, recordings and other tangible materials regardless of form or format, including, without limitation, electronically transmitted documents and ACAD files, and other collateral materials collected, compiled, drafted, prepared, produced and/or generated in the performance of this Agreement shall be the property

of TOWN. CONTRACTOR shall regularly provide such documents to TOWN upon TOWN's request. In the event that this Agreement is terminated prior to completion of the scope of work, CONTRACTOR shall provide all such data and documents to TOWN forthwith.

ARTICLE X: INSURANCE

a. Commercial General Liability/Automobile Liability Insurance:

CONTRACTOR shall obtain and maintain Commercial General Liability insurance and Automobile Liability insurance in the amount of One Million Dollars ($1,000,000) per occurrence. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this contract or the general aggregate limit shall be twice the required occurrence limit. CONTRACTOR's insurance coverage shall be written on an occurrence basis.

b. Workers' Compensation Insurance:

CONTRACTOR shall obtain and maintain statutory Workers' Compensation insurance and Employer's Liability insurance in the amount of One Million Dollars ($1,000,000) per accident.

CONTRACTOR is familiar with the Workers' Compensation laws of California (generally contained in Section 3700 of the Labor Code), including those provisions which provide for specific exemptions from the requirement that all employers must carry Workers' Compensation insurance, and CONTRACTOR maintains they are exempted under the law from the requirement to maintain Workers' Compensation insurance coverage.

In addition, during the term of any work for TOWN under said agreement: (1) CONTRACTOR will not employ any person in any manner so as to become subject to the Workers' Compensation laws of California, or (2) should CONTRACTOR become subject to the Workers' Compensation provisions of Section 3700 of the Labor Code for any reason, CONTRACTOR shall forthwith comply with those provisions and send evidence of financial compliance to TOWN.

c. Acceptability of Insurers: Insurance is to be placed with insurers with a current *Best Rating* of A:VII unless otherwise acceptable to TOWN.

d. Verification of Coverage: Insurance, deductibles or self-insurance retentions shall be subject to TOWN's approval. Original Certificates of Insurance with endorsements shall be received and approved by TOWN before work commences, and insurance must be in effect for the duration of the contract. The absence of insurance or a reduction of stated limits shall cause all work on the project to cease. Any delays shall not increase costs to TOWN or increase the duration of the project.

e. Other Insurance Provisions:

(1) The TOWN OF LOS GATOS, its officers, officials, employees and volunteers are to be covered as additional insured by Endorsement CG 20 10 11 85 or other endorsement approved by Town Attorney for Commercial General and Automobile Liability coverage.

(2) For any claims related to this project, CONTRACTOR's insurance coverage shall be primary and any insurance or self-insurance maintained by TOWN, its officers, officials, employees and volunteers shall not contribute to it.

(3) Each insurance policy required shall be endorsed that a thirty (30) day notice be given to TOWN in the event of cancellation or modification to the stipulated insurance coverage.

(4) In the event CONTRACTOR employs subcontractors as part of the work covered by this Agreement, it shall be the responsibility of CONTRACTOR to ensure that all subcontractors comply with the same insurance requirements that are stated in this Agreement.

(5) Approval of the insurance by TOWN or acceptance of the Certificate of Insurance by TOWN shall not relieve or decrease the extent to which CONTRACTOR may be held responsible for payment of damages resulting from CONTRACTOR's services or operation pursuant to this Agreement, nor shall it be deemed a waiver of TOWN's rights to insurance coverage hereunder.

(6) If, for any reason, CONTRACTOR fails to maintain insurance coverage that is required pursuant to this contract, the same shall be deemed a material breach of contract. TOWN, at its sole option, may terminate this contract and obtain damages from CONTRACTOR resulting from said breach. Alternately, TOWN may purchase such required insurance coverage, and without further notice to CONTRACTOR, TOWN may deduct from sums due to CONTRACTOR any premium costs advanced by TOWN for such insurance.

ARTICLE XI: HOLD HARMLESS

CONTRACTOR hereby agrees to and shall hold TOWN, its elective and appointive boards, commissions, officers, agents, registered volunteers, and employees harmless from any liability for damage or claims for damage for personal injury, including death, as well as from claims for property damage and any other claims of any sort whatsoever, including, but not limited to, any liabilities, claims, losses, or expenses in any manner caused by, arising out of, or in connection with, either directly or indirectly, the construction or installation of the work, the guarding of the work, the use of improper materials in construction of the work, or the negligent, willful, or intentional acts or omissions by CONTRACTOR or CONTRACTOR's subcontractors, agents, or employee operations under this Agreement, whether such operations by CONTRACTOR or by any of CONTRACTOR's subcontractors, or by any one or more persons directly or indirectly employed by, or acting as agent for CONTRACTOR or any of CONTRACTOR's subcontractors during the progress of the work or at any time before its completion and final acceptance, excepting suits and actions brought by the CONTRACTOR for default of this Agreement or arising from the sole active negligence or willful misconduct of the TOWN. The Town Council may retain so much of the money due to the CONTRACTOR as shall be reasonably necessary to protect the TOWN, until disposition has been made of such suits or claims for damages as aforesaid.

CONTRACTOR agrees to and shall pay TOWN's cost of defense (or, at the sole option of the TOWN, CONTRACTOR shall defend with counsel approved by the TOWN Attorney) and indemnify TOWN and its elective and appointive boards, commissions, officers, agents, and employees from any suits or actions at law or in equity arising out of the execution, adoption or implementation of this Agreement (exclusive of any such actions brought by CONTRACTOR), such indemnification to include all costs of defense, judgments, and any awards of attorneys' fees.

Should any accident or incident causing death, personal injury or property damage occur between the date CONTRACTOR is notified that its General Liability and/or Workers Compensation Insurance is canceled and the effective date of such cancellation, CONTRACTOR's obligation to indemnify, defend and save harmless the TOWN, as provided for hereinabove, shall in no manner be affected by the fact that the TOWN had not received the notice of cancellation prior to the date of such accident or incident.

ARTICLE XII: BONDING REQUIREMENT

CONTRACTOR agrees to post a Faithful Performance Bond and a payment bond for Labor and Materials, or other guarantees, in the required amounts upon bond forms provided by the TOWN, guarantying the performance of the terms of this Agreement. Surety issuing bonds for CONTRACTOR shall be approved by the U.S. Department of Treasury's Financial Management Service and shall be listed on the most current Treasury Circular 570 as contained in the Federal Register.

Contractor agrees to allow ten percent of the faithful performance bond to remain in effect for a period of two years following Town Council project acceptance as guarantee for any needed repair or replacement caused by defective materials and workmanship.

ARTICLE XIII: MAINTENANCE AND GUARANTY

CONTRACTOR shall promptly repair, replace, restore, or rebuild, as the TOWN may determine, any finished product in which defects of materials or workmanship may appear or to which damage may occur because of such defects, during a two (2) year period subsequent to the date of final acceptance.

This article does not in any way limit the guaranty on any items for which a longer guaranty is specified or on any items which a manufacturer gives a guaranty for a longer period, nor does it limit the other remedies of the TOWN in respect to a latent defect, fraud or implied warranties. CONTRACTOR shall furnish the TOWN all appropriate guaranties or warranty certificates upon completion of the project.

ARTICLE XIV: SHORING FOR TRENCHES

If the contract specifies an expenditure of Twenty-Five Thousand Dollars ($25,000) or greater for trenching, and if the depth of the trench is five feet (5') or more, then Section 6705 of the Labor Code shall also be applicable.

ARTICLE XV: APPLICABLE LAWS AND ATTORNEY'S FEES

This Agreement shall be construed and enforced pursuant to the laws of the State of California. Should any legal action be brought by a party for breach of this Agreement or to enforce any provision herein, the prevailing party of such action shall be entitled to reasonable attorneys' fees, court costs, and such other costs as may be fixed by the court. Reasonable attorneys' fees of the TOWN Attorney's Office, if private counsel is not used, shall be based on comparable fees of private attorneys practicing in Santa Clara County.

ARTICLE XVI: LIQUIDATED DAMAGES

It is mutually agreed by CONTRACTOR and TOWN that in the event that completion of the construction by CONTRACTOR under this Agreement is delayed beyond DATE, TOWN will suffer damages and will incur other costs and expenses of a nature and amount which is difficult or impractical to determine. The Parties agree that by way of ascertaining and fixing the amount of damages, costs and expenses, and not by way of penalty, CONTRACTOR shall pay to TOWN the sum of Five Hundred Dollars ($500.00) per day in liquidated damages for each and every calendar day such delay in completion of the services under this Agreement continues beyond DATE. In the event that the liquidated damages are not paid, CONTRACTOR agrees that TOWN may deduct the amount of unpaid damages from any money due or that may become due to CONTRACTOR under this Agreement.

ARTICLE XVII: INTERPRETATION OF CONTRACT

It is further expressly agreed by and between the parties hereto that should there be any conflict between the terms of this instrument and the bid or proposal of said CONTRACTOR, then this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said proposal conflicting herewith.

ARTICLE XVIII: AMENDMENTS AND CHANGE ORDERS

This Agreement may be amended from time to time as necessary by formal and written amendment or authorized change order executed by the Town Manager or designee and principal acting on behalf of the CONTRACTOR.

ARTICLE XIX: DBE RESPONSIBILITIES

For projects that are State or Federal funding; With respect to Disadvantaged Business Enterprises, CONTRACTOR shall do the following:

(1) Pay each subcontractor under this prime contract for satisfactory performance of its contract no later than ten (10) days from the receipt of each payment the prime contractor receives from TOWN. Any delay or postponement of payment from the above-referenced time frame may occur only for good cause following written approval of TOWN. This clause applies to both DBE and non-DBE subcontractors.

(2) Release all retainage owed to a subcontractor for satisfactory completion of the accepted work within thirty (30) days after TOWN's payment to CONTRACTOR. Any delay or postponement of payment from the above-referenced time frame may occur only for good cause following written approval of TOWN. This clause applies to both DBE and non-DBE subcontractors.

ARTICLE XX: PREVAILING WAGES

Reference is hereby made to copies of the general rate of per diem wages as determined by the Director of the Department of Industrial Relations on file in the Department of Parks and Public Works, TOWN OF LOS GATOS, Town Hall, which are available to any interested party.

For failure to pay the prevailing wages, the CONTRACTOR shall forfeit, as a penalty, to the TOWN, Fifty Dollars ($50) for each workman for each calendar day or portion thereof who is paid less than the stipulated prevailing wage for work done under this contract, in violation of the provisions of the Labor Code, Sections 1770 to 1780, inclusive. In addition to said penalty, the CONTRACTOR, or subcontractor, shall pay to each worker the difference between the prevailing wage and the amount paid to said worker for each calendar day for which said worker was paid less then the prevailing wage.

CONTRACTOR shall comply with the provisions of the Davis-Bacon Act, as amended (40 USC 276a-376a-5), and related requirements as certified in CONTRACTOR's bid proposal.

ARTICLE XXI: ENTIRE AGREEMENT

This Agreement contains the entire understanding between the parties with respect to the subject matter herein. There are no representations, agreements or understandings (whether oral or written) between or among the parties relating to the subject matter of this Agreement which are not fully expressed herein.

ARTICLE XXII: PUBLIC RECORDS

The parties recognize and acknowledge that TOWN is subject to the California Public Records Act, California Government Code Section 6250 and following. Public records are subject to disclosure.

ARTICLE XXIII: NOTICES

Any notice required to be given to CONTRACTOR shall be deemed to be duly and properly given if mailed to CONTRACTOR, postage prepaid, addressed to:

CONTRACTOR NAME
ADDRESS
CITY, STATE ZIP

or personally delivered to CONTRACTOR at such address or at such other addresses as CONTRACTOR may designate in writing to TOWN.

Any notice required to be given TOWN shall be deemed to be duly and properly given if mailed to TOWN, postage prepaid, addressed to:

Lisa Petersen, P.E.
Town Engineer
TOWN OF LOS GATOS
41 Miles Avenue
Los Gatos, California 95030

or personally delivered to TOWN at such address or at such other addresses as TOWN may designate in writing to CONTRACTOR.

ARTICLE XXIV: SECTION 7106 FORM

Attached to the Agreement is a fully executed and sworn non-collusion affidavit as required by Section 7106 of the California Public Contracts Code. Said affidavit is incorporated herein by this reference.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands the year and date first written above.

APPROVED AS TO CONTENT:

_____
Matt Morley
Director of Parks and Public Works

"TOWN":
TOWN OF LOS GATOS

By: _____
Laurel Prevetti
Town Manager

APPROVED AS TO FORM:

_____
Robert Schultz
Town Attorney

Attest: _____
Shelley Neis
Clerk Administrator

CONTRACTOR:

Name: _____

Address: _____
_____
_____

Tax ID No. or SSAN:
_____

By: _____

Title: _____

By: _____

Title: _____

Corporate Seal

CONTRACTOR'S BOND FOR LABOR AND MATERIAL

KNOW ALL MEN BY THESE PRESENTS:

That _____, as Principal, and _____, incorporated under the laws of the State of _____ and authorized to execute bonds and undertakings as Surety, are held and firmly bound unto any and all materialmen, persons, companies or corporations furnishing materials, provisions, provender or other supplies used in, upon, for or about the performance of the work contracted to be executed or performed under the contract hereinafter mentioned, and all persons, companies or corporations renting implements or machinery, or hiring crews, for or contributing to said work to be done, and all persons who perform work or labor upon the same, and all persons who supply both work and materials, and whose claim has not been paid by the contractor, company, or corporations in the just and full sum of _____ Dollars ($_____), for the payment whereof, well and truly to be made, said Principal and Surety bind themselves, their administrators, successors and assigns, jointly and severally firmly by these presents.

The condition of the foregoing obligation is such that; WHEREAS, the above-bounden Principal has entered into a certain contract attached hereto and incorporated herein by reference as though fully set forth, with the TOWN OF LOS GATOS, to do and perform the following work; to wit:

Project #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass)

as required by the plans and specifications, pursuant to the award made to said contractor by the Council of the TOWN OF LOS GATOS, on _____, 2016, as will more fully appear by reference to the minutes of said Council of said TOWN of said date.

NOW, THEREFORE, if the above-bounden Principal, contractor, person, company, or corporation, or his agent, or the subcontractors, fails to pay for any materials, provisions, provender, or other supplies, or crews used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amount required to be deducted, withheld, and paid over to Franchise Tax Board, from the wages of employees of the contractor or subcontractor, pursuant to Section 18806 of the Revenue and Tax Code, then the Surety of this bond will also pay the same in an amount not exceeding the sum specified in the bond; and also, in case suit is brought upon this bond, a reasonable attorney's fee, which shall be awarded by the court to the prevailing party in said suit, said attorney's fee to be taxed as costs in said suit and to be included in the judgment therein rendered.

The surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the agreement or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligation on this bond and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the agreement or to the work or to the specifications.

This bond is executed and filed to comply with the provisions of Sections 3247, *et seq.*, of the Civil Code.

Signed and sealed this _____ day of _____, 2016.

BY: _____	BY: _____
_____	_____
_____	_____
_____	_____
CONTRACTOR	SURETY (Address and Phone No.)
(CORPORATE SEAL)	(SURETY SEAL)

The amount of the within obligation is hereby fixed by the TOWN Council in the sum of (CONTRACT AMOUNT) Dollars ($XXXXX), that sum being one hundred percent (100%) of the contract price, is by said TOWN Council deemed adequate, and is the sum fixed by it for that purpose and the TOWN Manager is hereby authorized to approve said bond.

APPROVED AS TO FORM:

_____	_____
Robert Schultz, Town Attorney	Laurel Prevetti, Town Manager

ATTEST: _____
Shelley Neis, Clerk Administrator

CONTRACTOR'S BOND FOR FAITHFUL PERFORMANCE

KNOW ALL MEN BY THESE PRESENTS:

That _____, as Principal, and _____, incorporated under the laws of the State of _____, and authorized to execute bonds and undertakings as Surety, are held firmly bound unto the TOWN OF LOS GATOS, a municipal corporation of the State of California, in the sum of _____ Dollars ($_____), for payment whereof, well and truly to be made, said Principal and Surety bind themselves, their administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that: WHEREAS, the above-bounden Principal has entered into a certain contract attached hereto and incorporated herein by reference as though fully set forth, with the TOWN OF LOS GATOS, to do and perform the following work; to wit:

Project #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass)

as required by the plans and specifications, pursuant to the award made to said contractor by the Council of the TOWN OF LOS GATOS, on _____, 2016, as will more fully appear by reference to the minutes of said Council of said date.

The surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the agreement or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligation on this bond and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the agreement or to the work or to the specifications.

NOW, THEREFORE, if the above-bounden Principal shall well and truly perform the work contracted to be performed under said contract, then this obligation shall be void; otherwise, to remain in full force and effect.

Signed and sealed this _____ day of _____, 2016.

BY: _____	BY: _____
_____	_____
_____	_____
_____	_____
CONTRACTOR	SURETY (Address and Phone No.)
(CORPORATE SEAL)	(SURETY SEAL)

The amount of the within obligation is hereby fixed by the TOWN Council in the sum of (CONTRACT AMOUNT) Dollars ($XXXXX), that sum being one hundred percent (100%) of the contract price, is by said TOWN Council deemed sufficient and adequate, and is the sum fixed by it for that purpose.

APPROVED AS TO FORM:

_____	_____
Robert Schultz, Town Attorney	Laurel Prevetti, Town Manager

ATTEST: _____
Shelley Neis, Clerk Administrator

TOWN OF LOS GATOS

STANDARD SPECIFICATIONS
Part II

For Further Information, Contact:

Department of Parks and Public Works
Engineering Division
41 Miles Avenue
Los Gatos, CA 95030
(408) 399-5770

Section 1
DEFINITIONS AND TERMS

1-1.01 DEFINITIONS

Wherever in these Specifications and other Contract Documents the following terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

A. *Contract Documents*. The Notice to Contractors, Information for Bidders, Bid Form, Designation of Subcontractors, Agreement, Bidder's Bond, Performance Bond, Labor and Materialperson's Bond, Progress Schedule, General Conditions, Equal Employment Opportunity Conditions if applicable, Technical Provisions, Plans, Specifications, and such provisions of the Standard Specifications of the State of California, Department of Transportation, dated July, 2006, except as specifically noted in the Technical Specifications, are hereby incorporated by reference.

B. *Contractors*. The person, firm, partnership, or corporation to whom this Contract is awarded by Owner and who is subject to the terms thereof.

C. *Director of Parks and Public Works*. The Director of Parks and Public Works of the Town of Los Gatos and the representative of the Director of Parks and Public Works, duly authorized and appointed by the Director of Parks and Public Works.

D. *Engineer*. The Town Engineer of the Town of Los Gatos, or the representative of the Town Engineer duly authorized and appointed by the Town Engineer. In the event Owner has hired any person or corporation as an independent Contractor to act in lieu of the Town Engineer, the term "Engineer" shall be deemed to include such person or corporation.

E. *Governing Body of the Owner*. The Town Council of the Town of Los Gatos.

F. *Inspector*. The Inspector employed by Owner to perform inspection during construction of the work, under the direction of the Director of Parks and Public Works.

G. *Owner*. The Town of Los Gatos, a municipal corporation in the State of California.

H. *Plans*. The Official Plans, working drawings or exact reproductions thereof, approved by the Governing Body of the Owner which show the location, character, dimensions and details of the work on the Project and the work to be done. The Plans are to be considered as a part of the Contract Documents, complementary to the Specifications.

I. *Project*. The entire public improvement proposed by Owner to be constructed in whole or in part, pursuant to this Contract.

J. *Revocable*. Items noted as “Revocable” in the Proposal may be deleted entirely or in part at the sole discretion of the Town. The provision of Section 4-1.03B, “Increased or Decreased Quantities,” shall not apply to entire or partial deletion of Revocable items.

J. *Specifications*. The directions, provisions, and requirements contained herein, or contained in any Specifications referred to herein, pertaining to the method and manner of performing the work on the Project, or to the quantities, or the quality of materials to be furnished under the Contract.

K. *Subcontractor*. A person, firm, partnership, or corporation having a direct contract with Contractor and not with Owner, for the performing of work or labor or the rendering of service to Contractor for the work.

L. *Surety*. Any persons, firm, partnership, or corporation that executes as Surety on Contractor's Performance Bond or Contractor's Labor and Materialperson's Bond or Bidder's Bond.

M. *Work*. Work to be performed on the Project under this Contract, including work normally done at the site of the Project plus labor and materials.

1-1.02 SPECIFICATIONS

Wherever in these Specifications the term "Standard Specifications" is used, it shall mean the State of California, Department of Transportation, Standard Specifications, July, 2006. In case of conflict between the State of California Standard Specifications and these Specifications, these Specifications shall take precedence over and be used in lieu of such conflicting portions.

Any item not covered in these Specifications shall be performed in accordance with the appropriate section of the Standard Specifications. Whenever in the Standard Specifications the following terms are used, they shall be understood to mean and refer to the following:

A. *Department of Public Works or Department of Transportation*. The Town of Los Gatos, Department of Parks and Public Works.

B. *Director of Parks and Public Works*. The Town of Los Gatos, Director of Parks and Public Works.

C. *Engineer*. The Engineer is defined as the Director of Parks and Public Works, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

D. *Laboratory*. The designated laboratory authorized by the Town of Los Gatos to test materials and work involved in the Contract.

E. *State*. The Town of Los Gatos.

1-1.03 GENERAL

All work shall be done in conformance with the applicable provisions of the Standard Specifications except as modified herein. Payment for work, equipment and materials not specifically covered herein shall be included in the payment for related items of work. No additional payment will be made for work, equipment or materials not covered in these plans and specifications, but necessary to insure a completed project as specified. Any plan or method of work suggested by the Owner or the Engineer to Contractor but not specified or required, if adopted or followed by Contractor in whole or in part, shall be used at the risk and responsibility of Contractor; and the Owner and the Engineer shall assume no responsibility therefor and in no way be held liable for any defects in the work which may result from or be caused by use of such plans or method of work.

1-1.04 STATEMENT OF WORK

Furnish all labor, equipment and materials and perform all work called for in the Contract Documents and

as necessary to furnish to the Town a complete project ready for use.

1-1.05 DRAWINGS

Two sets of the Contract Drawings and Specifications will be furnished without charge to the Contractor to whom the contract for the work is awarded. Additional sets will be furnished to Contractor on request, at the cost of reproduction. The work shall conform to the drawings which shall form a part of these Specifications, and are available at the Office of the Director of Parks and Public Works, Engineering Division, 41 Miles Avenue, Los Gatos, California.

1-1.06 BUSINESS LICENSE

All Contractors, whether they be general Contractors or subcontractors, who transact or carry on business in the Town of Los Gatos, shall acquire a Business License in conformance with Chapter 14 of the Los Gatos Town Code.

1-1.07 MINORITY AND WOMEN BUSINESS ENTERPRISES

It is the policy of the Town of Los Gatos to encourage the participation of Minority and Women Business Enterprises in the bidding process for all Town contracts. Any reference using the word "his" is to be construed as meaning "his, hers or its".

1-1.08 PROOF OF COMPETENCY OF BIDDER

Any bidder may be required to furnish evidence satisfactory to Owner that he/she and his/her proposed subcontractors have sufficient means and experience in the type of work called for to insure completion of the contract in a satisfactory manner.

1-1.09 SPECIAL NOTICE

Bidders are required to inform themselves fully of the conditions relating to construction and labor under which the work will be or is now performed, and, so far as possible, the successful bidder must employ such methods and means in carrying out his/her work as will not cause any interruption or interference with any other Contractor.

Section 2
PROPOSAL REQUIREMENTS AND CONDITIONS

2-1.01 EXAMINATION OF PLANS, SPECIFICATIONS AND SITE WORK

Before submitting a bid, each bidder shall carefully read the Specifications and all other Contract Documents. The bidder shall visit the site of the Project and shall fully inform himself/herself as to all existing conditions and limitations under which the work is to be performed, and he/she shall include in his/her bid a sum to cover the cost of all items necessary to perform the work as set forth in the Contract Documents. No allowance of any kind whatsoever will be made to any bidder because of lack of such examination or knowledge. The submission of a bid shall be conclusive evidence that the bidder has made such an examination.

2-1.02 CONTENTS OF BID

In order to receive consideration, all bids shall be made in accordance with the following instructions:

A. Bids shall be made upon the form provided therefor, properly executed and with all items filled out; the signature of all persons signing shall be in longhand.

B. Blank spaces in the bid must be properly filled in, and the phraseology thereof must not be changed. Additions must not be made to the items mentioned therein. Any unauthorized conditions, limitations or provisions attached to a proposal may cause its rejection. Alterations by erasures or interlineation must be explained or noted in the bid over the signature of the bidder.

C. Late bids will be returned to the bidder unopened.

D. Each bid shall be addressed to the Town Clerk of the Town of Los Gatos, and shall be delivered to the office of the Clerk of the Town of Los Gatos on or before the day and hour set for the opening of bids. The bid shall be enclosed in a sealed envelope bearing the title of the work, the name of the bidder, and the date and hour of the opening. It is the sole responsibility of the bidder to see that the bid is received in proper time.

2-1.03 WITHDRAWAL OF BID

Any bidder may withdraw his/her bid, either personally or by a written request, at any time prior to the scheduled time for opening of bids.

2-1.03.A WITHDRAWAL OF BIDS AFTER OPENING

No bidder may withdraw his/her bid for a period of 60 calendar days after the date set for the opening thereof, and the same shall be subject to acceptance by the Owner during this period.

2-1.03.B BIDDERS INTERESTED IN MORE THAN ONE BID

No person, firm or corporation shall be allowed to make or file or be interested in more than 1 bid for the same work, unless alternate bids are called for. A person, firm or corporation submitting a sub-proposal to a bidder, or who has quoted prices on materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders.

2-1.04 SUBMISSION OF BIDS; AGREEMENT TO ASSIGN

In accordance with Government Code §4552, the bidder shall conform to the following requirements. In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, he/she/it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under §4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act [Chapter 2 (commencing with §16700) of Part 2 of Division 7 of the Business and Professions Code], arising from purchase of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

2-1.05 LIST OF SUBCONTRACTORS

Bidders must submit a list of their proposed subcontractors in compliance with §§4100-4113 of the Public Contract Code of the State of California. Forms for this designation are furnished in the Bid Documents, Part I.

2-1.06 INSURANCE

At or prior to the delivery of the signed Agreement, Contractor shall deliver to Owner the policies of insurance or insurance certificates as are required by the Plans and Specifications. All policies or certificates of insurance shall be approved by the Director of Parks and Public Works of the Town of Los Gatos before the successful bidder may proceed with the work. Failure or refusal to furnish insurance policies or certificates in the form satisfactory to the Director of Parks and Public Works of the Town of Los Gatos shall subject the bidder to penalties for delay in commencement of the Work.

2-1.07 BIDDER'S BOND

Each bid shall be accompanied by cash, a certified or cashier's check, or a bidder's bond in the sum of not less than 10% of the total aggregate of the bid, and said checks or bond shall be made payable to the order of the Town of Los Gatos (herein after referred to as "Owner") as defined in Part I, Section 1-1.01 of these Specifications. Cash and certified or cashier’s checks shall not be accepted unless accompanied by a waiver of all interest on the amount paid to the Town In case the successful bidder fails to file satisfactory bonds or provide the insurance required by the Contract Documents, or refuses to enter into a contract within the specified time, he/she shall be liable for any difference by which the cost of procuring the work exceeds the amount of his/her bid and the bond or the amount of cash or check shall be available to offset such difference. If the bid is not accepted by Owner within 60 calendar days after the date set for the opening of bids, or if the bidder to whom the contract is awarded executes and delivers to Owner the required Contract Documents and insurance, the cash or the amount of the certified or cashier's check with out interest shall be returned to the bidder.

2-1.08 GUARANTEE OF MATERIALS AND EQUIPMENT

All materials and equipment furnished and the work performed under these Specifications and/or drawings, shall be guaranteed in writing for a period of 2 years from the date of final acceptance against defective material, design and workmanship. In addition, the Contractor shall guarantee in writing that the system as a whole shall be free of defects for a period of 2 years from the date of final acceptance, the system shall operate perfectly, and all apparatus shall perform in accordance with their individual Specifications.

Contractor shall allow 10% of the faithful performance bond to remain in effect for a period of two years

following Town Council project acceptance as guarantee for any needed repair or replacement caused by defective materials and workmanship.

Section 3
AWARD AND EXECUTION OF CONTRACT

3-1.01 AWARD OR REJECTION OF BIDS

The Contract, if awarded, will be awarded to the lowest responsible bidder subject to Owner's right to reject any or all bids and to waive any informality in the bids or the bidding.

3-1.02 REJECTION OF PROPOSALS

The Town, at its sole discretion, may reject all bids. Additionally, individual proposals may be rejected if (among other things) they any alteration of form, additions not called for, conditional bids, incomplete bids, erasures, or irregularities of any kind, or a disproportionate amount of payment being made on any item of work during any phase of the project, or fail to provide a price on al bid items, including all alternates or proposals submitted which are in strict compliance with the directions in the Notice to Contractors. The Town may, in its sole discretion, waive any informalities or minor irregularities in the bid or proposal.

Proposals not submitted in strict compliance with the directions in the Notice to Contractors may, in Town's sole discretion, be deemed non-responsive and rejected on that basis.

When proposals are signed by an agent, other than the officer or officers of a corporation authorized to sign contracts on its behalf or a member of a co-partnership, a "Power of Attorney" must be on file with the Town Clerk prior to opening bids or shall be submitted with the proposal; otherwise, the proposal may be rejected at the Town's sole discretion as irregular and unauthorized.

Proof of authority of the person or persons signing on behalf of the bidder shall be provided to the Town upon request after the bid opening.

3-1.03 SUBSTITUTION OF SUBCONTRACTORS

No contractor whose bid is accepted shall:

1. Substitute any person as subcontractor in place of the subcontractor listed in the original bid, except where the Town, or its duly authorized officer, may, except as otherwise provided, have consented to the substitution in any of the following situations:

a. When the subcontractor listed in the bid after having had a reasonable opportunity to do so fails or refuses to execute a written contract, when that written contract, based upon general terms, conditions, plans and specifications for the project involved or the terms of that subcontractor's written bid, is present to the subcontractor by the Contractor.

b. When the listed subcontractor becomes bankrupt or insolvent.

c. When the listed subcontractor fails or refuses to perform its subcontract.

d. When the listed subcontractors fails or refuses to meet the bond requirements of the Contractor.

e. When the Contractor demonstrates to the Town that the name of the subcontractor was listed as the result of an inadvertent clerical error.

f. When the listed subcontractor is not licensed at the time of bid pursuant to the Contractor License Law on non-federally funded projects or at the time of award on federally funded projects.

g. When the Town determined that the work performed by the listed subcontractor is substantially unsatisfactory and not in substantial accordance with the plans and specifications, or that the subcontractor is substantially delaying or disruption the progress of the work.

Prior to approve of the Contractor's request for a substitution of subcontractor, the Town shall give notice in writing to the listed subcontractor of the Contractor's request to substitute and of the reasons for the request. The notice shall be served by certified or registered mail to the last known address of the subcontractor. The listed subcontractor who has been notified shall have 5 working days within which to submit written objections to the substitution to the Town. Failure to file these written objections shall constitute the listed subcontractor's consent to the substitution.

If written objection are filed, the Town shall give notice in writing of at least 5 working days to the listed subcontractor of a hearing by the Town on the Contractor's request for substitution.

2. Permit any subcontractor to be voluntarily assigned or transferred or allow it to be performed by anyone other than the subcontractor listed in the original bid, without consent of the Town.

3. Other than in the performance of change orders causing changes or deviations from the original contract, sublet or subcontract any portion of the work in excess of ½ of one percent of the prime contractor's total bid as to which the Contractor's original bid did not designate a subcontractor.

3-1.04 PERFORMANCE BOND AND LABOR AND MATERIALS BOND

At or prior to the delivery of the signed Agreement, Contractor shall deliver to Owner the Performance Bond and Labor and Materialperson's Bond as are required by Part 1, Section 2 of these Specifications. All bonds shall be on forms provided by Owner, and each shall be in an amount equal to 100% of the contract price. All bonds shall be approved by the Director of Parks and Public Works of the Town of Los Gatos before the successful bidder may proceed with the Work. Failure or refusal to furnish bonds in the form satisfactory to the Director of Parks and Public Works of the Town of Los Gatos shall subject the bidder to penalties for delay in commencement of the Work or revocation of the Award of Contract.

Pursuant to California Public Contract Code §22300, the Contractor will be permitted, at its request and sole expense, to substitute securities for any monies withheld by the Town to ensure performance under the contract. Said securities will be deposited either with the Town or with the state or federally chartered bank as escrow agent. Securities eligible for this substitution are those listed in California Government Code §16430 or bank or savings and loan certificate of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other mutually agreed to by Contractor and the Owner. The Contractor shall be the beneficial owner of any securities substituted for monies withheld and shall receive any interest thereon.

3-1.05 EXECUTION OF AGREEMENT

The form of agreement which the successful bidder, as Contractor, will be required to execute is included in the Contract Documents and must be carefully examined by each bidder. The bidder to whom the Contract is awarded by Owner shall, within 10 calendar days after *Notice of Award*, execute and deliver to Owner 1 original and 1 counterpart of the Agreement.

3-1.06 NOTIFICATION BY CONTRACTOR

A. The Contractor shall notify the Director of Parks and Public Works and the project inspector at least 24 hours prior to commencing work and shall comply with any Notifications or approvals mentioned in the Specifications, Part IV.

B. Immediately after the award of Contract by the Town of Los Gatos and where applicable and required by the Plans and Specifications, the Contractor shall notify the following agencies:

AT&T Broadband
1900 S. Tenth Street
San Jose, CA 95112
Telephone: (408) 918-3200

Pacific Gas and Electric Co.
10900 N. Blaney Avenue
Cupertino, CA 95014
Telephone: (408) 725-2011
FAX: (408) 725-2034

San Jose Water Company
1221 So. Bascom Ave.
San Jose, CA 95128
Telephone: (408) 279-7866
FAX: (408) 292-7868

Santa Clara Water District
5750 Almaden Expressway
San Jose, CA 95118
Telephone: (408) 395-8121 ext. 2132
FAX: (408) 395-3627

U.S.A. Cable Locator
(Notify two weeks prior)
Telephone: 1 (800) 227-2600

Verizon
15900 Los Gatos Boulevard
Los Gatos, CA 95030
Telephone: (408) 358-6757
FAX: (408) 356-8756

West Valley Sanitation District
100 E. Sunnyoaks Avenue
Campbell, CA 95005
Telephone: (408) 378-2407
FAX: (408) 364-1821

C. The Contractor shall notify residents and business owners adjacent to the Work, by method approved by the Director of Parks and Public Works, not sooner than 7 days and not later than 2 days prior to beginning that work.

Section 4
SCOPE OF WORK

4-1.01 LOCATION OF WORK

The Town reserves the right to add or delete from quantities of work during the project and to add or delete locations (see Part I, Section 9-1.01). Locations of work for this project are set out in *Plans & Specifications* and incorporated herein.

4-1.02 CHANGES TO THE WORK

The bidder's attention is directed to the provisions of Section 4 of the Standard Specifications and the following modifications, all of which are applicable to this Contract:

A. Owner, without invalidating the Contract, may order additions to or deductions from the Work, the Contract Sum being adjusted accordingly. Any claim for extension of time cause thereby shall be adjusted at the time of ordering such change. See Section 9-1.01A of these Specifications regarding measurement and payment for increased or decreased quantities.

B. Any alteration or alterations made in the *Plans & Specifications* which are a part of this Contract, or any provision of this Contract shall not operate to release any surety or sureties from liability on any bond or bonds attached hereto and made a part hereof, and consent to make such alterations is hereby given, and the sureties to said bonds hereby waive the provisions of Civil Code §2819.

C. In giving instructions, the Engineer shall have authority to issue written change orders not inconsistent with the purpose of the Work. All change orders require issuance of a purchase order. Except in an emergency endangering life and property, no extra work or change shall be made unless in pursuance of such written order, and no claim for an addition to the Contract Sum shall be valid unless the additional work was so ordered.

D. Any change order that is in excess of the original Contract amount, plus any contingency, must be approved in the same manner as the original Contract.

E. Any change order exceeding the amount of the approved budget is invalid unless and until a budget adjustment has been approved by the Town Council.

F. Unit prices in any change order shall be the same as those unit prices in the original Contract.

4-1.03 NOTIFICATION OF CHANGE IN CONDITION

Pursuant to Public Contracts Code §7104, when trenches or other excavations must be dug pursuant to this Contract that extend deeper than 4 feet below the surface, the Contractor shall promptly, and before the following conditions are disturbed, notify the Owner in writing of any:

A. Material that the Contractor believes may be material that is hazardous waste, as defined in Health & Safety Code §25117, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law; or,

B. Subsurface or latent physical conditions at the site differing from those indicated; or,

C. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in the work of the character provided for in the Contract.

The Owner will promptly investigate the conditions identified by the Contractor, and if the Owner finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Owner's cost of, or the time required for, performance of any part of the work will issue a change order under the procedures described in the Contract Documents.

In the event a dispute arises between the Owner and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract Documents, but shall proceed with all work to be performed under the Contract Documents. The Contractor shall retain any and all rights provided either by the Contract Documents or by law which pertain to the resolution of disputes and protects between the contracting parties.

Section 5
CONTROL OF WORK

5-1.01 CONTROL OF WORK

The bidder's attention is directed to the provisions of Section 5 of the Standard Specifications, all of which are applicable to this Contract.

5-1.02 INTERPRETATION OF DRAWINGS AND DOCUMENTS PRIOR TO BIDDING

If any person contemplating submitting a bid for the construction of the Project is in doubt as to the true meaning of any part of the Plans, Specifications, or other Contract Documents, or finds discrepancies in, or omissions from the Plans or Specifications, he/she may submit to Owner a written request for an interpretation or correction thereof not later than 5 working days before the date bids will be opened. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the Contract Documents will be made only by addendum and will be mailed or delivered to each person receiving a set of such documents. Owner will not be responsible for any other explanation or interpretation of the Contract Documents.

Section 6
CONTROL OF MATERIALS

6-1.01 CONTROL OF MATERIALS

The bidder's attention is directed to the provisions of Section 6 of the Standard Specifications and the following modifications, all of which are applicable to this Contract. At the option of the Director of Parks and Public Works, the Contractor shall provide testing from Owner's list of certified labs at the Contractor's own expense.

Section 7
LEGAL RELATIONS AND RESPONSIBILITY

7-1.01 WAGES

Workers employed in the work must be paid at rates at least equal to the then current prevailing wage scale as determined by the State Director of the Department of Industrial Relations. A copy is usually on file in the Office of the Director of Parks and Public Works.

Pursuant to California Labor Code §1770, any Contractor who is awarded a public works project and intends to use a craft of classification not shown on the general prevailing wage determinations, may be required to pay the wage rate of that craft of classification most closely related to it as shown in the general determinations effective at the time of the calls for bids.

Statutory provisions for penalties for failure to pay prevailing wages and for failure to comply with state wage and hour laws will be enforced. Eight hours of labor constitutes a day's work. The Contractor must comply with the statutory requirements relating to certified copies of payroll records, including the maintenance of the records, their certification and their availability for inspection.

7-1.02 ADDITIONAL SURETIES

If at any time during the continuance of the Contract the Sureties, or any of them, shall, in the opinion of the Owner, become irresponsible, the Owner shall have the right to require additional and sufficient Sureties which the Contractor shall furnish to the satisfaction of the Owner within 10 working days after notice.

7-1.03 LEGAL RELATIONS AND RESPONSIBILITY

The bidder's attention is directed to the provisions of Section 7 of the Standard Specifications and the following modifications, all of which are applicable to this Contract, with the exception that the Town shall not pay for any of the requirements covered by this section, the cost of which, if any, shall be considered as included in the bid items.

A. N*otices*. Any notice from one party to the other under this Contract shall be in writing and shall be dated and signed by the party giving such notice, or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatever unless served in the following manner:

1. If the notice is given to Owner, it must be by personal delivery thereof to the Director of Parks and Public Works or by depositing the same in the United States mails, enclosed in a sealed envelope, addressed to Owner for the attention of said Director of Parks and Public Works, 110 E. Main Street, Los Gatos, California 95031, postage prepaid and registered;

2. If the notice is given to the Contractor, it must be by personal delivery thereof to the Contractor, or to the Contractor's foreman at the site of the work, or by depositing the same in the United States mails, enclosed in a sealed envelope addressed to the Contractor at the Contractor's regular place of business or at such other address as may have been established for the conduct of the work, postage prepaid and registered; or

3. If the notice is given to the Surety or any other person, by personal delivery to such

Surety or by depositing the same in the United States mails, enclosed in a sealed envelope, addressed to such Surety or person at the address of such Surety or person last communicated by him to the party giving the notice, postage prepaid and registered; and

4. The effective date of such notice(s) shall be the date personal delivery is made or the date shown on the return receipt of the registered mailed notice.

B. *Entire Contract*. No verbal agreement or conversation with any officer, agent or employee of Owner, either before, during or after the execution of this Contract, shall affect or modify any of the terms or obligations contained in the Contract Documents, nor shall such verbal agreement or conversation entitle the Contractor to any additional payment whatsoever under the terms of this Contract.

C. *Failure to Complete the Work on Time (Liquidated Damages)*. If the Work is not completed by Contractor in the time specified herein above, or within any period of extension as above authorized, it is understood that the Owner will suffer damage; and it being impracticable and infeasible to determine the amount of actual damage, it is agreed that the Contractor shall pay to the Owner, as fixed and liquidated damages, and not as a penalty, the sum as stated in the Contract, and the Contractor and the Contractor's Surety shall be liable for the amount thereof; provided, however, that the Contractor shall not be charged liquidated damages because of any delays in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of Contractor (including, but not restricted to, Acts of God or of the public enemy, acts of the Government, acts of the Owner, fires, floods, epidemics, quarantine restrictions, strikes and freight embargoes).

The Contractor shall, within 10 calendar days from the beginning of any such delay, notify the Owner in writing of the cause of the delay and the amount of time extension requested, if any; whereupon the Owner shall ascertain the facts and the extent of the delay and extend the time for completing the Work when, in its judgment and for the amount of time if any, the findings of fact justify such an extension. The Director of Parks and Public Works' determination shall be final and binding on the parties hereto.

7-1.04 EMPLOYMENT OF APPRENTICES

A. Attention is directed to the provisions of Labor Code §§1777.5 and 1777.6 concerning the employment of apprentices by the Contractor or any subcontractor under Contractor. Section 1777.5 only does not apply to contracts of general Contractors or specialty Contractors not bidding for work through a general or prime contractor involving less than $30,000 or 20 working days.

B. Section 1777.5, requires the Contractor or subcontractor employing tradepersons in any apprenticeable occupation to apply to the joint apprenticeship committee nearest the site of the public works project, and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeypersons that will be used in the performance of the contract. Section 1777.5 also requires submission of specified award information to the committee.

The ratio of apprentices to journeypersons in such cases shall not be less than 1 to 5, except that the joint committee may grant a certificate, subject to the approval of the Administrations of Apprenticeship, exempting a Contractor from the 1 to 5 ratio when it finds that any one of the following conditions are met;

1. In the event unemployment for the previous 3 month period in such area exceeds an average of 15%, or

2. In the event the number of apprentices in training in such area exceeds a ratio of 1 to 5, or

3. If there is a showing that the apprenticeable craft or trade is replacing at least 1/13th of its journeyperson annually through apprenticeship training, either on a statewide basis, or on a local basis, or

4. If assignment of an apprentice to any work performed under a public works contract would create a condition which would jeopardize apprentice's life or the life, safety, or property of fellow employees or the public at large or if the specific task to which the apprentice is to be assigned is of such a nature that training cannot be provided by a journeyperson

C. The Division of Apprenticeship Standards may grant a certificate exempting the Contractor from the 1 to 5 ratio upon proper showing by the Contractor that it employs apprentices in a specific apprenticeable craft or trade in the state on all its contracts on an annual average if not less than 1 apprentice to each 5 journeypersons.

D. The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if the Contractor employs registered apprentices or journeypersons in any apprenticeable trade on such contracts, and if other Contractors in the area of the public works site are making such contributions.

E. The Contractor and any subcontractor under Contractor shall comply with the requirements of §§1777.5 and 1777.6 in the employment of apprentices.

F. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations ex officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

G. Responsibility for compliance with this section and this section's reference to the Standard Specifications lies with the Contractor.

7-1.05 STORM WATER POLLUTION PREVENTION

The Contractor shall be responsible for ensuring that all work conforms to "Best Management Practices for the Construction Industry" from the Santa Clara Valley Urban Runoff Pollution Prevention Program in the Specifications, Part IV, as well as the Town Code.

7-1.06 PUBLIC WORKS CONTRACTS; ASSIGNMENT TO AWARDING BODY

In accordance with California Public Contract Code §7103.5, the Contractor and subcontractors shall conform to the following requirements. The Contractor and its subcontractors offer and agree to assign to the Owner all rights, title, and interest in and to all causes of action it may have under §4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act [Chapter 2 (commencing with §16700) of Part 2 of Division 7 of the Business and Professions Code], arising from purchases of goods services, or materials pursuant to the public works Contract or its subcontracts. This assignment shall be made and become effective at the time the Owner tenders final payment to the Contractor, without further acknowledgment by the parties.

7-1-07 UNFAIR BUSINESS PRACTICE CLAIMS

Pursuant to Public Contract Code § 7103.5, the Contractor agrees to assign all unfair business practices claims under the Clayton Act and the Cartwright Act to the Town of Los Gatos.

7-1.08 TRAFFIC CONTROL PLAN AND DEVICES

The Contractor shall supply, place, and maintain all necessary traffic control devices during construction in accordance with the applicable requirements of the Standard Specifications.

7-1.09 INSURANCE

Bidders' attention is directed to the insurance requirements below. It is highly recommended that bidders confer with their respective insurance carriers or brokers to determine in advance of bid submission the availability of insurance certificates and endorsements as prescribed and provided herein. If an apparent low bidder fails to comply strictly with the insurance requirements, that bidder may be disqualified from award of the contract.

The Contractor shall procure and maintain for the duration of the Contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Work hereunder by the Contractor, Contractor's agents, representatives, employees or subcontractors. The cost of such insurance shall be included in the Contractor's bid and shall not be otherwise recoverable from Owner.

A. *Minimum Scope of Insurance*. Coverage shall be at least as broad as:

1. Insurance Services Office form number GL 0002 (Ed. 1/73) covering Comprehensive General Liability and Insurance Services Office form number GL 0404 covering Broad Form Comprehensive General Liability; or Insurance Services Office Commercial General Liability coverage ("occurrence" form GC 0001).

2. Insurance Services Office form number CA 0001 (Ed. 1/78) covering Automobile Liability, code 1 "any auto" and endorsement CA 0025.

3. Worker's Compensation insurance as required by the Labor Code of the State of California and Employers Liability insurance.

B. *Minimum Limits of Insurance*. The Contractor shall maintain limits no less than:

1. General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this Project/Location or the general aggregate limit shall be twice the required occurrence limit.

2. Automobile Liability: $1,000,000 combined single limit per accident for bodily injury and property damage.

3. Workers' Compensation and Employers Liability: Worker's compensation limits as required by the Labor Code of the State of California and Employers Liability limits of $1,000,000 per accident.

C. *Deductibles and Self-insured Retentions*. Any deductibles or self-insured retentions must be

declared to and approved by the Town of Los Gatos. At the option of the Town of Los Gatos, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Town of Los Gatos, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

D. *Other Insurance Provision*. The policies are to contain, or be endorsed to contain the following provision:

1. General Liability and Automobile Liability Coverages

a. The Town of Los Gatos, its officers, officials, employees and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the Contractor, products and completed operations of the Contracts, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Town of Los Gatos, its officers, officials, employees, or volunteers.

b. The Contractor's insurance coverage shall be primary insurance as respects the Town of Los Gatos, its officers, officials, employees, and volunteers. Any insurance or self-insurances maintained by the Town of Los Gatos, its officers, officials, employees, or volunteers shall be excess of the Contractors Insurance and shall not contribute with it.

c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Town of Los Gatos, its officers, officials, employees, or volunteers.

d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

2. Workers' Compensation and Employers Liability Coverage. The insurer shall agree to waive all rights of subrogation against the Town of Los Gatos, its officers, officials, employees, or volunteers for losses arising from work performed by the Contractor for the Town of Los Gatos.

3. All Coverages. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after 30 days prior written notice by certified mail, return receipt required, has been given to the Town of Los Gatos.

E. *Acceptability of Insurers*. Insurance is to be placed with insurers with a Best's rating of no less than B+.

F. *Verification of Coverage*. The Contractor shall furnish the Town of Los Gatos with certificates of insurance and with original endorsements effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms provided by the Town of Los Gatos. Where by statute, the Town of Los Gatos' workers' compensation-related forms cannot be used, equivalent forms approved by the State Insurance Commissioner are to be substituted. All certificates and endorsements are to be received and approved by the Town of Los Gatos before work commences. The Town of Los Gatos reserves the right to require complete, certified copies of all required insurance policies, at any time.

G. *Subcontractors.* The Contractor shall include all subcontractors as insureds under its policies

or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

H. *Indemnification*. The Contractor shall save, keep and hold harmless indemnify and defend the Town its officers, agent, employees and volunteers from all damages, liabilities, penalties, costs, or expenses in law or equity that may at any time arise or be set up because of damages to property or personal injury received by reason of, or in the course of performing work which may be occasioned by a willful or negligent act or omissions of the Contractor, or any of the Consultant's officers, employees, or agents or any subcontractor.

7-1.10 CONTRACT DOCUMENTS ON SITE

The Contractor shall maintain on the job site an official set of Contract Documents, available at all times to the Director of Parks and Public Works, Inspector, or their representatives.

7-1.11 COORDINATION OF WORK WITH OTHER CONTRACTS

The Contractor must ascertain to the Contractor's own satisfaction the scope of the Work and the nature of any other Contracts that have been or may be awarded by the Owner in the prosecution of the Work, to the end that the Contractor may perform this Contract in the light of such other Contracts, if any. Nothing herein contained shall be interpreted as granting to the Contractor exclusive occupancy of the site of the work. The Contractor shall not cause any unnecessary hindrance or delay to any other Contractor working on any project which encompasses the Work. If the performance of any Contract for the work is likely to be interfered with by the simultaneous execution of some other Contract or Contracts, the Owner shall decide which the Contractor shall cease work temporarily and which the Contractor shall continue or whether the work can be coordinated so that the Contractors may proceed simultaneously. The Owner shall not be responsible for any damage suffered or extra costs incurred by the Contractor resulting directly or indirectly from the award or performance or accepted performance of any other Contract or Contracts on the Work or caused by any decision or omission of Owner respecting the order of precedence in the performance of the Contracts awarded for the completion of the Work.

The Owner reserves the right to do the Work with its own forces or to let other Contracts for work on or contiguous to the Work set forth in the *Plans and Specifications*.

7-1.12 EQUAL EMPLOYMENT OPPORTUNITY POLICY

From and after the award of the Contract and during the course of the work on the project, the Contractor shall comply with the following Equal Employment Opportunity Conditions. The Contractor adopts and accepts as its operating policy the following statement:

> "It is the policy of this company to assure that applicants are employed and that employees are treated during employment without regard to their race, religion, sex, color, or national origin. Such action shall include employment, upgrading, demotion, transfer, recruitment and recruitment advertising, termination, pay, and selection for training, including apprenticeship."

7-1-12.A EQUAL EMPLOYMENT OPPORTUNITY OFFICER

The Contractor shall designate and make known to the Director of Parks and Public Works an Equal Employment Opportunity Officer capable of administering and promoting an active Contractor program of equal opportunity who will be assigned adequate authority and responsibility to do so.

7-1.12.B DISSEMINATION OF POLICY

All members of the Contractor's organization with authority to hire, supervise, promote, and terminate employees, or who recommend such action, shall be made fully cognizant of and shall implement the Contractor's Equal Employment Opportunity policy: The following actions shall be taken as a minimum:

A. Periodic meetings of supervisory personnel shall be conducted before start of work and at least once every 3 months for the purpose of reviewing and explaining the Contractor's Equal Employment Opportunity Policy and its implementation. The meetings shall be conducted by the Equal Employment Opportunity Officer or other knowledgeable company officials.

B. All new supervisory employees shall be indoctrinated as to the Contractor's Equal Employment Opportunity obligations within 30 calendar days following their reporting for duty with the Contractor.

C. The Equal Employment Opportunity Officer or appropriate company official will instruct all employees engaged in recruitment and hiring as to the methods followed by the Contractor in recruiting and hiring qualified employees.

7-1.12.C RECRUITMENT

A. When advertising for employees, the Contractor shall include in all advertisements for employees the notation *An Equal Opportunity Employer*. It shall insert all such advertisements in newspapers or other publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

B. If the Contractor does not restrict individuals who are hired as employees exclusively to those who are related by blood or marriage to persons possessing an ownership interest in the Contractor's business, in those case where the Contractor is not precluded therefor by a valid collective bargaining agreement, systematic and direct recruitment shall be conducted through public and private employee referral sources likely to yield qualified minority group applicants, including, but not limited to State employment agencies, schools, colleges and minority group organizations. To meet this requirement, the Contractor shall, through its Equal Employment Opportunity Officer, identify sources of potential minority group employees and establish with such identified sources procedures whereby minority group applicants may be referred to the Contractor for employment consideration.

C. If the Contractor does not restrict individuals who are hired as employees exclusively to those who are related by blood or marriage to persons possessing an ownership interest in the Contractor's business, the Contractor shall encourage present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants shall be provided to such employees.

7-1.12.D PERSONNEL ACTIONS

Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination shall be taken without regard to race, color, religion, sex, or national origin. The following procedures shall be followed:

A. The Contractor shall conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

B. The Contractor shall periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

C. The Contractor shall periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor shall promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

D. The Contractor shall investigate all complaints of alleged discrimination made to the Contractor in connection with its obligations under this contract, shall attempt to resolve such complaints, and shall take appropriate corrective action. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the Contractor shall inform every complainant of all of his/her avenues of appeal.

7-1.12.E TRAINING AND PROMOTION

If the Contractor does not restrict individuals who are hired as employees exclusively to those who are related by blood or marriage to persons possessing an ownership interest in the Contractor's business, programs designed to increase the skills of all employees and applicants for employment shall be promoted as follows:

A. Consistent with its manpower requirements and as permissible under Federal and State regulations, the Contractor shall make full use of training programs, such as pre-apprenticeship, apprenticeship, and/or on-the-job training programs for the geographical area of contract performance.

B. The Contractor shall advise employees and applicants for employment of available training programs and entrance requirements for each.

C. The Contractor shall periodically review the training and promotion potential of employees and shall encourage eligible employees to apply for such training and promotion.

7-1.12.F UNIONS

If the Contractor relies in whole or in part upon unions as a source of Contractor's work force, the Contractor shall use its best efforts to incorporate an Equal Employment Opportunity clause into all union agreements which defines responsibilities for non-discrimination in hiring, referral, up-grading and training, and otherwise implements an affirmative anti-discrimination program in terms of the union's specific areas of skill and geography, to the end that all qualified workers will be available and given an equal opportunity for employment, and such unions will be contractually bound to refer applicants without regard to their race, color, religion, sex or national origin.

In the event a union is unable to refer applicants as requested by the Contractor within the time limit set forth within the union agreement, the Contractor shall, through its recruitment procedures, fill the employment vacancies without regard to race, color, religion, sex or national origin, making full efforts to obtain qualified persons.

7-1.12.G SUBCONTRACTING

The Contractor shall use its best efforts to assure subcontractor compliance with their Equal Employment Opportunity obligations.

7-1.12.H DEBARRED CONTRACTORS AND SUBCONTRACTORS

Pursuant to Public Contract code § 6109, contractors and subcontractors who are ineligible pursuant to Labor Code §§ 1777.1 and 1777.7 are prohibited from work on the project

7-1.12.I NOTICES AND POSTERS

The Contractor shall make known its Equal Employment Opportunity responsibilities under this Contract by the following methods:

A. Executed copies of the Contractor's *Fair Employment Practices Statement* shall be:

1. Conspicuously posted in all areas where job applicants and potential employees appear for purposes of gaining employment by the Contractor;

2. Conspicuously posted on all employee bulletin boards and in other areas where employees of the Contractor congregate; and,

3. Transmitted to each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding, and to all other sources or employee referrals, including schools and employment agencies.

B. Posters containing the following wording shall be conspicuously posted in all areas where job applicants and potential employees appear for purposes of gaining employment by the Contractor: "(NAME OF CONTRACTOR)" is an Equal Employment Employer."

C. The Contractor's Equal Employment Opportunity policy, as described in these Specifications, Section 7-1.10, and shall be distributed in written form to all employees.

7-1.12.J FAIR EMPLOYMENT PRACTICES STATEMENT

The Contractor shall execute the following Fair Employment Practices Statement:

> "Fair Employment Practices Statement": (Name of Contractor) is an Equal Employment Opportunity Employer, as such has adopted the policy and will take affirmative action to employment without regard to their race, color, religion, ancestry or national origin. On (Date), (Name of Contractor) was awarded a public works contract by the Town of Los Gatos, a municipal corporation situated in the County of Santa Clara, State of California, for the work of (Name of Contract). Under said Contract (Name of Contractor) has agreed to comply with those Equal Employment Opportunity Conditions described in Section 7 of the Contract Documents for said project, and has agreed, among other things, that damages will be paid to the Town in event it is found that the requirements of said Conditions have not been satisfied.
>
> Dated: _____ Signed: _____

7-1.12.K RECORDS

The Contractor shall keep such records as are necessary to determine compliance with its Equal Employment Opportunity obligations under this Contract. Such records shall be retained for a period of 2 years following completion of the project. Such records show:

A. The number of minority and non-minority group members employed in each work classification on the project.

B. The efforts and progress being made in cooperation with unions to increase minority group employment opportunities. (Applicable only to Contractors who rely in whole or in part on Unions as a source of their work force).

C. The efforts and progress being made in locating, hiring, training, qualifying, and upgrading employees.

The above-described records, together with the Contractor's records of employment, employment advertisements, application forms, and other pertinent data shall, upon request, be opened to inspection and copying by the Director of Parks and Public Works or the Director of Parks and Public Works authorized representative, or any other agency of the State of California designated by the Director of Parks and Public Works, for purposes of investigating whether the Contractor has complied with the Equal Employment Opportunity conditions of this Contract.

7-1.12.L REPORTS

Between the date of the award of the Contract and the date of the commencement of work on the project, the Contractor shall in conformity and compliance with the directions of the Director of Parks and Public Works, submit to the Director of Parks and Public Works a basic compliance report which shall include the following:

A. The name, business address and telephone number of the Contractor's Equal Employment Opportunity Officer.

B. An executed copy of the Contractor's Fair Employment Practices Statement.

C. A description of the Contractor's sources of potential employees, and the identity of the person or persons who have responsibility for determining who the Contractor will hire and whether or not to hire.

D. Such evidence as is required by the Director of Parks and Public Works, showing that the Contractor has notified all supervisors, foremen, and other personnel officers, in writing, of the content of the Contractor's Equal Employment Opportunity policy.

E. Such evidence as is required by the Director of Parks and Public Works showing that the Contractor has transmitted its *Statement of Fair Employment Practices* to all sources of employee referrals.

F. Such evidence as is required by the Director of Parks and Public Works showing that the Contractor has posted bulletins, posters, and the *Fair Employment Practices Statement* in the manner required by these Equal Employment Opportunity Conditions.

7-1.12.M BREACH OF EQUAL EMPLOYMENT CONDITIONS

In the event the Director of Parks and Public Works, as a result of supervising the Contractor's performance under the Contract or after investigating a complaint by a third party, finds that the Contractor is or has been in violation of its agreement to comply with these Equal Employment Opportunity Conditions, notice of such violations shall be filed with the Director of Parks and Public

Works and given to the Contractor by depositing same in the United States mail, postage prepaid, addressed to the last known business address of the Contractor, with return receipt requested. Not later than 15 calendar days after the filing of said notice with the Director of Parks and Public Works, a hearing shall be held by the Town Council for the purpose of ascertaining whether the charges contained in the notice are true, and, if true, whether the Contractor has failed to make a reasonable and substantial effort to comply with these Equal Employment Opportunity Conditions. Notice of the time and place of said hearing shall be given the Contractor not less than 5 days prior thereto in the same manner as the notice of violations is given. During said hearing, the Town Council shall receive and consider any evidence offered by the Director of Parks and Public Works, the Contractor, and any third party. At the conclusion of said hearing, the Town Council shall determine the matter and its determination shall be final.

If after the hearing above described the Town Council determines that the Contractor has failed to comply with these Equal Employment Opportunity Conditions, and has failed to make a reasonable and substantial effort to comply with said conditions, the Contractor shall be deemed in material breach of the Contract. It is understood that the Owner will have suffered damage by virtue of said breach; and it being impractical and unfeasible to determine the amount of actual damage, it is agreed that the Contractor shall pay to Owner, as fixed and liquidated damages, and not as a penalty, the sum of $50.00 for each calendar day during which the Contractor is found to have been in noncompliance. Such monies may be recovered from the Contractor and its Surety. The Owner may deduct any such damages from monies due the Contractor.

7-1.12.N DISQUALIFICATION FROM FUTURE CONTRACTS

A finding by the Town Council that the Contractor has failed to comply with these Equal Employment Opportunity Conditions and has failed to make a reasonable and substantial effort to so comply, or a finding of willful violation of the nondiscrimination provisions of the State of California Fair Employment Practices Act, or similar provisions of Federal law or Executive Order, in the performance of work on the project shall be deemed a basis for determining the Contractor to be not a "responsible bidder" as to future contracts for which the Contractor may submit bids. A finding of willful violation of the nondiscrimination provisions of the State of California Fair Employment Practices Act shall be deemed to have occurred upon receipt by the Owner of written notice from the California Fair Employment Practices Commission that it has investigated and determined that the Contractor has violated said Fair Employment Practices Act and has issued an order under Government Code §12970, or obtained judgment and order of enforcement under Government Code §12973.

7-1.12.O OTHER REMEDIES

Nothing contained in these Equal Employment Opportunity Conditions shall be construed in any manner or fashion so as to prevent the Owner from pursuing any other remedies that may be available at law or in equity.

7-1.13 EQUIPMENT AND MATERIAL REPLACEMENT

A. The Contractor shall replace at Contractor's cost and expense any piece of equipment, or part thereof, or any material furnished under these Specifications, which fails because of defective material or workmanship, within 2 years following completion and acceptance of the Work.

B. All decisions regarding acceptable equipment or installation shall be made by the Director of Parks and Public Works, and the Director of Parks and Public Works decision shall be final.

7-1.14 PUBLIC SAFETY - NOISE

It shall be the Contractor's responsibility to keep noise pollution due to construction activities as low as possible. In no case shall noise levels produced by the Contractor exceed either of the following maximums:

A. No individual piece of equipment shall produce a noise lever exceeding 85dBA at a distance of 25 feet.

B. The noise level at no point outside of the property line or temporary construction area shall not exceed 85dBA. No equipment violating these standards will be allowed to operate.

In no case shall the Contractor's operations violate the noise ordinance (Chapter 16) of the Town Code.

Section 8
PROSECUTION AND PROGRESS

8-1.01 PROGRESS SCHEDULE

The bidder's attention is directed to the provisions of Section 8 of the Standard Specifications, and these Specifications, all of which are applicable to this Contract, except that it shall be the bidder's responsibility to contact the utility companies and to determine for itself what, if any utility construction, removal, alteration or relocation work might delay or otherwise affect its operations under this Contract, and the Contractor shall not be entitled to any compensation for such delay or effect, except that time extensions may be granted, at the option of the Director of Parks and Public Works, as provided for in the Standard Specifications.

Prior to beginning work, the Contractor shall submit to the Director of Parks and Public Works for approval a detailed construction schedule for accomplishing the Work within the time allowed.

The detailed construction schedule shall include evidence of a capable work force, availability of construction materials and ability to prosecute the Work diligently to completion.

As a minimum, the construction schedule shall identify all major tasks necessary to complete the Work, shall indicate when each such task will be started and how many working days will be used in completing it, shall indicate the time relationship among the activities, and shall indicate the amount of each Contract item that will be completed after each 10% increment of Contract time has elapsed.

Whenever performance falls behind the approved construction schedule rates, the Contractor shall, by the next day, submit to the Director of Parks and Public Works for approval, a revised construction schedule indicating how the remaining work will be completed within the remaining time.

The Contractor shall also submit to the Director of Parks and Public Works each Friday a detailed plan and schedule for the proposed construction during the following week.

If and when the Director of Parks and Public Works determines that the Contractor will exceed the Contract time allowance, plus approved time extensions, the Director of Parks and Public Works shall suspend further payments due the Contractor until such time as the revised construction schedule is approved and the Contractor demonstrates satisfactory progress in accordance with the approved revised schedule.

Full compensation for providing, updating, and revising the project schedule shall be considered as included in the contract unit prices paid for the various items of work required to be listed in the progress schedule and no further compensation will be made therefor.

8-1.02 START OF WORK AND TIME OF COMPLETION

The Contractor shall mobilize within the time frame set forth in the Notice to Proceed. Entire contract shall be completed within the time set forth in the Notice after Contractor’s receipt of said Notice.

8-1.03 LIQUIDATED DAMAGES

Liquidated damages will be assessed in the amount of $500.00 for each calendar day any work remains incomplete beyond the time fixed above for completion.

8-1.04 ADJUSTMENT AND PRESERVATION OF UTILITIES

This section is supplemental to the Standard Specifications. In case of conflict, these conditions shall govern insofar as applicable.

It shall be the sole responsibility of the Contractor to pothole and verify the exact locations and depths of all utilities prior to making borings or excavations. Power poles and overhead wires shall be protected. Call Underground Service Alert (USA) at 1-800-227-2600 prior to any digging.

The Contractor shall notify Director of Parks and Public Works of Contractor's findings in writing where possible conflicts may exist.

The Contractor shall bear full responsibility for all damages and cost of repairs to existing utilities and surface improvements that are to remain or not in direct conflict. If any utilities or improvements, including sprinklers, are damaged during the course of construction, all expenses, or whatever nature, arising from the restoration of improvements to its original conditions shall be borne by the Contractor, and no additional compensation shall be allowed therefor.

Any damaged, broken or cracked utility boxes must be brought to the attention of the Public Works Inspector prior to construction or the Contractor shall assume liability for the damaged boxes.

Unless otherwise indicated on the drawings or specified herein, the Contractor shall maintain in service all water, gas, and sewer lines and any lighting, power, and telephone surface and sub-surface structures of any nature that may be affected by the work.

If the Contractor fails to maintain and protect such facilities, the Town of Los Gatos reserves the right, if requested by the owners of the utilities, to permit the Owner to move or maintain the utilities at the Contractor's expense.

Should it become necessary in the performance of the Work to disconnect or re-route any underground utility due to a direct conflict with the new work, Contractor shall inform respective utility company involved.

8-1.05 WORKING HOURS

Hours of work shall be limited to 8:00 a.m. to 5:00 p.m. on Monday through Friday unless otherwise stated in the Special Provisions. Other hours must be specifically approved by the Director of Parks and Public Works.

8-1.06 SUPERVISION

The Contractor shall have a qualified superintendent on the job site at all times when work is in progress. Contractor shall submit Superintendents name and resume of experience to the Director Parks and Public Works for approval at pre-construction meeting.

8-1.07 PRE-CONSTRUCTION CONFERENCE

The Contractor shall arrange for a pre-construction conference meeting with the Director of Parks and Public Works. This meeting shall be held at least one (1) week before the Contractor intends to start construction.

At the pre-construction conference, the Contractor shall provide the Director of Parks and Public Works with the name(s) and telephone number(s) of Contractor's personnel who can be reached and who can respond during non-working hours in the event of an emergency or other contingency requiring the Contractor's immediate attention.

Section 9
MEASUREMENT AND PAYMENT

9-1.01 MEASUREMENT AND PAYMENT

A. *Payment for Increased or Decreased Quantities*. Should there be any variance between the estimated amount of the work to be done and the actual amount of authorized work performed, the provisions of Section 4 of the Standard Specifications, which provide for an adjustment of the unit price by reason of overruns or underruns in excess of 25% of the Director of Parks and Public Works estimate, shall apply.

It is the Contractor's responsibility to continually analyze and apply the estimated quantities provided in the Contract Documents and to use the knowledge gained from site visits, construction, and professional experience, to update the estimated quantities as the work progresses. If and when the Contractor reaches 90% of the estimated quantities of materials required for any portion of the work as specified in the *Plans and Specifications* and has any reasonable belief that the Contractor will be required to exceed those estimated quantities by more than 10%, the Contractor shall provide written notice to the Owner of the possibility and the estimated quantities required to complete the work. If the Contractor fails to provide that written notice before delivering materials in excess of the originally estimated quantities, the Contractor shall not be entitled to any additional compensation or payment for the additional work or materials needed for the additional materials above 110%, but nevertheless shall be required to complete the Work.

B. *Progress Payments*. On or before the 20th day of each month, the Contractor shall prepare and forward to Owner an estimate, in writing, of the total amount of the work completed in place, and the value thereof as of the 15th day of each month.

The Owner shall retain 5% of such estimated value of the Work completed in place, and shall pay to Contractor, while carrying on the work, the balance not retained, as aforesaid, after deducting therefrom all previous payments, and all sums to be kept or retained under the provisions of this Contract. No such estimate or payment shall be construed to be an acceptance of any defective work or improper materials.

Work completed in place, as estimated, shall be an estimate only, and no inaccuracy or error in said estimates shall operate to release the Contractor or any Surety from damages arising from such work or from enforcing each and every provision of this Contract, and the Owner shall have the right subsequently to correct any error made in any estimate for payment. The Contractor shall not be entitled to have any payment estimates processed, or be entitled to have any payment made for work performed, so long as any lawful or proper direction concerning the work or any portion thereof given by Owner or the Director of Parks and Public Works shall remain uncomplied. In addition to the amount which Owner may retain, as provided herein above, the Owner may withhold a sufficient amount or amounts of any payment or payments otherwise due to the Contractor as in its judgment may be necessary to cover:

1. Payments which may be past due and payable for just claims against the Contractor or any subcontractor for labor or materials furnished in or about the performance of the Work on the Project under this Contract;

2. For defective work not remedied;

3. For failure of the Contractor to make proper payments to any of the Contractor's

subcontractors;

4. A reasonable doubt that the Contractor will complete the Work within the agreed time limits;

5. Costs to the Owner resulting from failure of Contractor to complete the Work within the proper time;

6. Damage to other work on property;

7. Potential liquidated damages.

Whenever the Owner shall, in accordance herewith, withhold any monies otherwise due the Contractor, written notice of the amount withheld and the reasons therefor shall be given the Contractor, and when the Contractor shall remove the grounds for such withholding, the Owner will promptly pay the Contractor the amount so withheld.

C. *Progress Payment Requests*. Pursuant to Public Contracts Code §20104.50, the Owner will promptly process all requests for progress payments pursuant to this Contract. As to any undisputed payments that are made more than 30 days after receipt of an undisputed and properly submitted payment request from the Contractor, the Owner will pay interest equivalent to the legal rate set forth in Code of Civil Procedure §685.10. This section shall not apply to progress payments received between July 1 and August 1 which may take up to an additional 6 weeks to process payments.

D. *Acceptance of the Work and Final Payment*

1. The final payment for the Work done under this Contract shall be made 60- calendar days after acceptance of the Work by Owner.

2. Owner shall deduct from the final payment for the Work done under this Contract any unpaid fees for business licenses required in conformance with Section 1-1.05 of these Specifications.

3. Upon receipt of written notice from the Contractor that the Work is ready for final inspection and acceptance, the Director of Parks and Public Works shall promptly make such inspection, and when the Director of Parks and Public Works finds the Work acceptable under this Contract and this Contract fully performed, the Director of Parks and Public Works shall promptly issue a final certificate to Governing Body or Owner, stating that the Work provided for in this Contract has been completed and is accepted by the Director of Parks and Public Works under the terms and conditions thereof.

4. Acceptance of the Work will be made by the Governing Body of Owner only upon filing with said Governing Body of a certificate by the Director of Parks and Public Works showing the Work has been given a final inspection and approval by Director of Parks and Public Works and that Contractor has submitted satisfactory evidence to the Director of Parks and Public Works that all payrolls, material bills and other indebtedness connected with said work have been paid. The acceptance will be made only by action of the Governing Body of Owner to regular session.

5. If, after the Work has been substantially completed, full completion thereof is materially delayed through no fault of Contractor, and Director of Parks and Public Works so certifies, Owner shall, upon certificate of the Director of Parks and Public Works, and without terminating this Contract, make payment of the balance due for that portion of the Work completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not

constitute a waiver of claims.

6. The acceptance by Contractor of said final payment shall constitute a waiver of all claims against the Owner arising under this Contract.

Submission of Requests for Payment / Invoices. The Contractor shall submit all original requests for payments or invoices directly to the Owner as follows: Town of Los Gatos Finance Department, Attn: Accounts Payable, Post Office Box 655, Los Gatos, California 95030. A copy of such request or invoices shall also be sent to the Director of Parks and Public Works.

Void Contract Provisions. Payment of undisputed contract amounts by the Owner are contingent upon the Contractor furnishing the Owner with a release of all claims against the Owner arising by virtue of the public works contract related to those amounts. Disputed contract claims in stated amounts may be specifically excluded by the Contractor from the operation of the release.

Damages. Any provision in the Contract which limits the Owner's liability to an extension of time for delay for which the Owner is responsible and which delay is unreasonable under contemplation of the circumstances involved, and not within the parties' control, shall not be construed to preclude the recovery of damages by the Contractor or subcontractor. This section shall not be construed to void any provision in this Contract which requires notice of delays, provides for arbitration or other procedure for settlement, or provides for liquidated damages.

TOWN OF LOS GATOS

SPECIAL PROVISIONS
Part III

Town of Los Gatos
Department of Parks and Public Works

SPECIAL PROVISIONS

PROJECT #16-811-0230
E. MAIN STREET GREEN BIKE LANES (RECYCLED GLASS)

SECTION 1. SPECIFICATIONS AND PLANS

Special Provisions Section 1 – Section 9
Special Provisions Sections 1 – Section 9 shall apply to all elements of the project. Full compensation for furnishing all labor, materials, tools, equipment and all incidentals for doing all the work involved in compliance with the Plans, Specifications, and Special Provisions Sections 1 – Section 9 shall be deemed included in the price paid for the various other contract bid items and no additional compensation shall be allowed therefore.

SECTION 2. PROPOSAL REQUIREMENTS AND CONDITIONS

Proposal Guaranty
The Bidder's Bond shall conform to the bond form included in the Proposal for the project and shall be properly filled out and submitted with the Proposal.

Pre-Bid Site Inspection
As noted in the Town of Los Gatos Standard Plans and Specifications, prospective bidders shall carefully examine the job-site. The submission of the bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to character, quality, and scope of work to be performed, the quantity of materials to be furnished, and as to the requirements of the proposals, plans, specifications, and the contract. All questions relative to this project must be submitted in writing and received a minimum of five (5) working days prior to the bid opening date and shall be directed to:

Town of Los Gatos, Parks and Public Works Department
41 Miles Avenue, Los Gatos, CA 95030
Attention: Jessy Pu, Traffic Engineer
Telephone: (408) 395-2859
Fax: (408) 354-8529
E-mail: jpu@losgatosca.gov

SECTION 3. AWARD AND EXECUTION OF CONTRACT

Determination of Low Bid
All bids will be compared on the basis of the Bid Form of quantities of work to be done. The determination of the low bid will be based on the total base bid. The contract will be awarded to the lowest responsible bidder meeting the contract requirements.

The bidder's attention is directed to the provisions in Section 3, "Award and Execution of Contract," of the Town Standard Specifications and these Special Provisions for the requirements and conditions concerning award and execution of contract.

Bid Protests are to be delivered to the following:

Town of Los Gatos, Parks and Public Works Department
41 Miles Avenue, Los Gatos, CA 95030
Attention: Lisa Petersen, Town Engineer
Telephone: (408) 399-5773
Fax: (408) 399-5763

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

The contract shall be executed by the successful bidder and shall be returned together with the contract bonds, to the Town so that it is received within ten (10) days, not including Saturdays, Sundays and legal holidays, after the bidder has received the Notice of Award. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address: Town of Los Gatos, Department of Parks and Public Works, 41 Miles Avenue, Los Gatos, CA 95030.

Pre-Construction Conference

A pre-construction conference will be held shortly after the contract award in accordance with "Meetings" subparagraph found in Section 8-1.07, "Pre-Construction Conference," of the Town Standard Specifications and Section 10-1, "General Construction Requirements," of these Special Provisions The Contractor shall prepare in advance the proposed progress schedule in accordance with Section 8-1.01, "Progress Schedule" of the Town Standard Specifications and Section 10-2 of these Special Provisions, and a traffic control plan in accordance with Section 10-2, "Traffic Control Requirements" of these Special Provisions.

SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES

General

Attention is directed to the provisions in Section 8-1.03 "Beginning of Work", Section 8-1.06 "Time of Completion", and Section 8-1.07, "Liquidated Damages," of the Standard Specifications, and these Special Provisions. Section 8-1.03, "Liquidated Damages," of the Town Standard Specifications shall not apply.

Time of Completion

The Contractor shall begin work as stipulated in the Notice to Proceed.

The Contractor shall diligently prosecute the work to completion before the expiration of **FIFTEEN (15) WORKING DAYS** after the date of the first working day. The time of completion shall include all allowances for mobilization and total completion of all work including final punch list work and final clean up.

Liquidated Damages
Time is of the essence for completion of this project. The Contractor shall pay to Town of Los Gatos the sum of Five Hundred Dollars ($500.00) per day for each and every calendar day's delay in the finishing of the work in excess of working days prescribed above. Liquidated damages shall also be assessed for non-compliance with the requirements stated in "Hours of Work" under Section 10-1, "General Construction Requirements," of these Special Provisions, and Section 10-2, "Traffic Control Requirements."

SECTION 5. GENERAL REQUIREMENTS

Licenses
The Contractor shall possess a valid Class "A" or "C-32" California Contractor's License at the time the Contract is awarded. Failure to possess the specified license shall render the bid as non-responsive and shall act as a bar to award the Contract to any bidder not possessing said license at the time of bid and forfeiture of the bid will result. All contractors and subcontractors shall have and maintain a current and valid contractor license of the required classification from the State of California throughout the course of this project. In addition, all contractors and subcontractors working in the Town of Los Gatos must have a valid Town of Los Gatos Business License.

Worker's Compensation
Attention is directed to Section 7-1.01A(6) "Workers' Compensation," of the Standard Specifications and the following:
Before commencing work in the Town of Los Gatos the Contractor must provide the Town with a copy of one of the following:

1. Certificate of Worker's Compensation Insurance; or
2. Certificate of consent to self-insure issued by the Director of Industrial Relations; or
3. Certificate of exemption from the Workers' Compensation Laws.

Insurance Requirements
Attention is directed to Section 7-1.09, "Insurance Requirements," of the Town Standard Specifications. The Contractor agrees that they will assume sole and complete responsibility for job site conditions during the course of the work, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours.

In addition to any other indemnity obligation incorporated herein, the Contractor shall indemnify, defend and hold harmless Town, its agents, officers, attorneys. Employees, officials and volunteers, to the fullest extent permitted by law from any and all claims, causes of action, injuries, losses, liabilities, cost (including reasonable defense costs and attorneys' fees) or damages arising out of or related to, or alleged to arise out of or relate to the performance of this contract or any acts or omissions of Contractor, its agents, officers, employees, or anyone rendering services on their behalf, except for any claims, causes of action, injuries, losses, liabilities or damages proximately caused by the active negligence, sole negligence or willful misconduct of Town.

Notwithstanding any other indemnity provisions imposed under this contract, with respect to any design professional services provided by the Contractor, the Contractor agrees to indemnify, defend and hold harmless the Town, its officers, agents and employees from any and all claims, actions, causes of action, losses, damages, costs and liabilities of every nature, including all costs of defending any claim, caused by, pertaining or relating to, or arising out of, or alleged to have been caused by or arise out of , pertain to, or relate to the negligence, recklessness, or willful misconduct of the Contractor, except for any claims, actions, causes of action, losses, damages or liabilities proximately caused by the sole negligence or

willful misconduct of Town. The Town shall not be liable for acts of the Contractor in performing services described herein.

The foregoing indemnity provisions are intended to fully allocate all risk of liability to third-parties. No other rights of indemnity or contribution shall exist between the parties in law or in equity. The provisions set forth in this section shall survive the termination of this Agreement.

Public Safety

The following paragraphs are hereby added to Section 7-1.09 "Public Safety," of the Standard Specifications.

The Contractor shall maintain a safe workplace throughout the job including, but not limited to, maintenance of barricades, maintenance of safe pedestrian walkways and handicap access throughout or around the project site, and maintenance of pavement within the limits of the roadway and driveways with a suitable traffic-bearing surface. The Contractor shall fulfill the requirements of this Section 24 hours per day, seven days a week, including holidays, from the time of the Notice to Proceed is issued until the project is formally accepted.

Labor Nondiscrimination

Attention is directed to Section 1735 of the Labor Code, which reads as follows:

> "No discrimination shall be made in the employment of persons upon public works because of the race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, or sex of such persons, except as provided in Section 12940 of the Government Code, and every Contractor for public works violating this section is subject to all the penalties imposed for a violation of this chapter."
>
> Attention is directed to the following "Nondiscrimination Clause" that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

NONDISCRIMINATION CLAUSE

1. During the performance of this contract, the Contractor and its subcontractors shall not unlawfully discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, medical condition, marital status, age (over 40) or sex. The Contractors and subcontractors shall ensure that the evaluation and treatment of their employees and applicants for employment are free of such discrimination. The contractors and subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code, Section 12990 et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285.0 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, Section 12990, set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this contract by reference and made a part hereof as if set forth in full. The Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.
2. This Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

STANDARD CALIFORNIA NONDISCRIMINATION CONSTRUCTION CONTRACT SPECIFICATIONS (GOV. CODE, SECTION 12990)

These specifications are applicable to all state Contractors and subcontractors having a construction contract or subcontract of $5,000 or more.

1. As used in the specifications:
   a. Administrator" means Administrator, Office of Compliance Programs, California Department of Fair Employment and Housing or any person to whom the Administrator delegates authority;
   b. "Minority" includes:
      (i) Black (all persons having primary origins in any of the black racial groups of Africa, but not of Hispanic origin);
      (ii) Hispanic (all persons of primary culture or origin in Mexico, Puerto Rico, Cuba, Central or South America or other Spanish derived culture or origin regardless of race);
      (iii) Asian/Pacific Islander (all persons having primary origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands); and
      (iv) American Indian/Alaskan Native (all persons having primary origins in any of the original peoples of North America and who maintain culture identification through tribal affiliation or community recognition).
2. Whenever the Contractor or any subcontractor subcontracts a portion of the work, it shall physically include in each subcontract of $5,000 or more the nondiscrimination clause in this contract directly or through incorporation by reference. Any subcontract for work involving a construction trade shall also include the Standard California Construction Contract Specifications, either directly or through incorporation by reference.
3. The Contractor shall implement the specific nondiscrimination standards provided in paragraph 6(a) through (e) of these specifications.
4. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women, shall excuse the Contractor's obligations under these specifications, Government Code, Section 12990, or the regulations promulgated pursuant thereto.
5. In order for the non-working training hours of apprentices and trainees to be counted, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor or the California Department of Industrial Relations.
6. The Contractor shall take specific actions to implement its nondiscrimination program. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor must be able to demonstrate fully its efforts under Steps (a) through (e) below:
   a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and at all facilities at which the Contractor's employees are assigned to work. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligations to maintain such a working environment.
   b) Disseminate the Contractor's equal employment opportunity policy by providing notice of the policy to unions and training, recruitment and outreach programs and requesting their cooperation in assisting the Contractor to meet its obligations; and by posting the company policy on bulletin boards accessible to all employees at each location where construction work is performed.

c) Ensure all personnel making management and employment decisions regarding hiring, assignment, layoff, termination, conditions of work, training, rates of pay or other employment decisions, including all supervisory personnel, superintendents, general foremen, on-site foremen, etc., are aware of the Contractor's equal employment opportunity policy and obligations, and discharge their responsibilities accordingly.

d) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the equal employment opportunity policy and the Contractor's obligations under these specifications are being carried out.

7. The Contractors are encouraged to participate in voluntary associations, which assist in fulfilling their equal employment opportunity obligations. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar groups of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under these specifications provided that the Contractor actively participates in the group, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's.
8. The Contractor is required to provide equal employment opportunity for all minority groups, both male and female, and all women, both minority and non-minority.
9. The Contractor shall not use the nondiscrimination standards to discriminate against any person because of race, color, religion, sex, national origin, ancestry, physical handicap, medical condition, marital status or age over 40.
10. The Contractor shall not enter into any subcontract with any person or firm decertified from state contracts pursuant to Government Code Section 12990.
11. The Contractor shall carry out such sanctions and penalties for violation of these specifications and the nondiscrimination clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Government Code Section 12990 and its implementing regulations by the awarding agency. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Government Code Section 12990.
12. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company equal employment opportunity policy is being carried out, to submit reports relating to the provisions hereof as may be required by OCP and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status, (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in any easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, Contractors shall not be required to maintain separate records.

NOTE: Authority cited: Sections 12935(a) and 12990(d), Government Code. References: Section 12990, Government Code.

Prevailing Wage

Attention is directed to Section 7-1.01A(2) of the Standard Specifications entitled "Prevailing Wage," and as determined/published by the Department of Industrial Relations for the State of California – as indicated in the following website: http://www.dir.ca.gov/dlsr/pwd/index.htm

If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, said published rate of wage shall be in effect for the life of this contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the Department of Industrial Relations, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of the contract, each successive predetermined wage rate shall apply to this contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rate expires during the life of this contract, such wage rate shall apply to the balance of the contract.

Payroll Records

The Contractor shall comply with Section 7-1.01A(3) "Payroll Records" of the Standard Specifications. Section 7.101A(3) "Payroll Records," Subdivision (b), Sub-section (2) shall be amended to read as follows:

A certified copy of all payroll records enumerated in subdivision (a) shall be made available for inspection or furnished upon request to the Division of Labor Standards Enforcement and the Division of Apprenticeship Standards of the Department of Industrial Relations. Certified payroll records shall be submitted weekly for the life of the project to a representative of the body awarding the contract.

SECTION 6. CONTROL OF WORK

Record Drawings

The Contractor shall mark all project conditions, locations, configurations, and any other changes or deviations, which may vary from the plans represented on the Original Contract Documents including buried or concealed construction and utility features which are revealed during the course of construction. The Contractor shall keep and maintain the said records and submit a monthly updated set of Record Drawings to the Engineer. Progress payments may be withheld until the Contractor submits the monthly updated Record Drawing to the Engineer. No final payment will be made until the record drawings are delivered.

Materials Testing

Materials testing shall be done in accordance with the project plans and specifications. Attention is also directed to the State of California, Department of Transportation, Standard Specifications dated May 2006, portions of which are incorporated into the Town Standard Specifications by reference.

The Contractor shall allow sufficient time for test to be conducted and results reviewed prior to continuing with the work, which may be affected by any test results.

SECTION 7. CLAIMS

General

The Contractor shall not be entitled to the payment of any additional compensation for any act, or failure to act, by the Engineer, including failure or refusal to issue a change order, or for the happening of any event, thing, occurrence, or other cause, unless the Contractor shall have given the Engineer due written notice of potential claim as herein specified, provided, however, the written request by this section shall not be a prerequisite to claims subject to the protest provisions set forth in Section 4-1.03, "Changes," or Section 8-1.06, "Time of Completion," or the notice provisions in Section 8-1.07, "Liquidated Damages,"

or Section 8-1.10, “Utility and Non-Highway Facilities,” nor to any claim which is based on differences in measurements or errors of computation as to contract quantities.

The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and insofar as possible, the amount of the potential claim. The notice as above required must have been given to the Engineer prior to the time that the Contractor shall have performed the work giving rise to the potential claim for additional compensation, if based on an act or failure to act by the Engineer, or in all other cases within 10 days after the happening of the event, thing, occurrence, or other cause, giving rise to the potential claim. Town may request additional information from Contractor regarding the Contractor’s claim which shall be provided to the Town within 10 days of the request. If the Contractor fails to provide notice as stipulated in this section, the Claim will be considered invalid, and no compensation will be allowed therefore.

It is the intention of this Section that differences between parties arising under and by virtue of the contract be brought to the attention of the Engineer at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor herby agrees that they shall have no right to additional compensation for any claim that may be based on any such act, failure to act, event, thing or occurrence for which no written notice of potential claim as herein required was filed.

The Contractor shall submit written statement of all claims arising under or by virtue of the contract so that the Engineer receives the written approval or statement of claims no later than close of business of the thirtieth (30th) day after receiving the proposed final estimate. If the thirtieth (30th) day falls on a Saturday, Sunday, or legal holiday, then receipt of the written approval or statement of claims by the Engineer shall not be later than close of business of the next business day. No claim will be considered that was not included in the written statement or claims, nor will any claim be allowed as to which a notice or protest is required under these provisions in Section 4-1.03, “Changes” and “Time of Completion,” Section 4, “Liquidated Damages,” Section 5-1.116, “Differing Site Conditions,” Section 8-1.10, “Utilities and Non-Highway Facilities,” and Section 9-1.04, “Notice of Potential Claim,” of the Standard Specifications unless the Contractor has complied with the notice or protest requirements in those sections.

Claims filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said claims. If additional information or details are required by the Engineer to determine the basis and amount of the claims, the Contractor shall furnish additional information or details so that the additional information or details are received by the Engineer no later than the fifteenth (15th) day after receipt of the written request from the Engineer. If the fifteenth (15th) calendar day falls on a Saturday, Sunday or legal holiday, then receipt of the information or details by the Engineer shall not be later than close of business of the next business day. Failure to submit the information and details to the Engineer within the time specified will be sufficient cause for denying the claim.

The Contractor shall keep full and complete records of the costs and additional time incurred for any work for which a claim for additional compensation is made. The Engineer or any designated claim investigator or auditor shall have access to those records and any other records as may be required by the Engineer to determine the facts or contentions involved in the claims. Failure to permit access to those records shall be sufficient cause for denying the claims.

Claims submitted by the Contractor shall be accompanied by a notarized certificate containing the following language:

Under the penalty of law for perjury or falsification and with specific reference to the California False Claims Act, Government Code Section 12650 et. seq., the undersigned,

_____
(Name)
_____
(Title)
_____
(Company)

hereby certifies that the claim for the additional compensation and time, if any, made herein for the work on this contract is a true statement of the actual costs incurred and time sought, and is fully documented and supported under the contract between parties.

Dated _____

/s/_____

State of California)
) ss.
County of _____)

Subscribed and sworn to (or affirmed) before me this _____ day of

_____, 20_____.

_____
Signature of Notary Public (Notary Seal)

Failure to submit the notarized certificate will be sufficient cause for denying the claim.

Any claim for overhead type expenses or costs, in addition to being certified as stated above, shall be supported by an audit report of an independent Certified Public Accountant. Any claim for overhead shall also be subject to audit by the Town at its discretion.

Any costs or expenses incurred by the Town in reviewing or auditing any claims that are not supported by the Contractor's cost accounting or other records shall be deemed to be damages incurred by the Town within the meaning of the California False Claims Act.

The Engineer will make the final determination of any claim which remains in dispute after completion of the claim review. The Contractor may be allowed to make a presentation in support of those claims.

Upon final determination of the claims, the Engineer will then make and issue the Engineer's final estimate in writing and within 30 days thereafter the Town will pay the entire sum, if any, found due thereon. That final estimate shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable therefore, except as otherwise provided in Sections 9-1.03C, "Records," and 9-1.09, "Clerical Errors" of the Standard Specifications.

SECTION 8. MATERIALS

Town Furnished Materials
Temporary "No Parking" signs shall be provided by the Town for the Contractor's use on this project.

Submittals
The Contractor shall submit to the Engineer the following at least three (3) working days before the pre-construction conference:

1. Construction Schedule
2. Traffic Control Plan
3. Materials Submittals
4. Storm Water Pollution Prevention Plan (SWPPP)
5. Notice to Residents and Businesses (draft form)

All submittals listed above must be received and processed by the Engineer prior to the issuance of the Notice to Proceed. Any exceptions or rejected submittals will be remedied and resubmitted for the Engineer's review prior to the issuance of the Notice to Proceed. Payment for compliance with Section 8, "Materials," shall be deemed included in the various other items of work and no additional compensation shall be allowed therefore.

Materials Submittal List
The materials proposed by the Contractor to be used on this contract shall be submitted for approval to the Engineer five (5) working days before the start of work in which the material is to be used.

The Contractor shall submit **one (1)** set of original submittals to the Engineer for approval in a three-ring binder, at least one inch (1") in thickness, and include numbered index tabs separating each submittal. Submittal index tabs shall follow the numbering system identified in the list below. Subsequent re-submittals, including the original and all copies shall be submitted in loose-leaf form or via PDF. The Contractor shall submit the original binder of the submittals to the Engineer no later than at the pre-construction conference meeting.

Submittals and support information shall be separated and clearly labeled when submitted to the Engineer for approval. The submittal list supplied is intended to be comprehensive, but no claim for its completeness is implied and submittal of the complete list will not relieve the Contractor of supplying all the information needed or of complying with any of the other requirements of the plans or specifications. Revised lists may be issued and items may be added to the list supplied.

Manufacturer's specifications shall be supplied along with submittal list for all applicable products on the list.

Certificates of Compliance shall be submitted in accordance with Section 6-1.07, "Certificates of Compliance," of the Standard Specifications including the individual material specification of these Special Provisions.

Submittals shall contain:

1. The date of submission and the dates of any previous submissions, including identification of revision or re-submittals.
2. The Project title and number.

3. Contractor identification, names of subcontractors, suppliers and manufacturers.
4. Specification Section number(s) and Bid Item(s) which pertain.
5. Applicable standards, such as ASTM, Federal, or State Specification numbers. Certified test results indicating performance of materials/products with regard to Specification requirements.
6. A 5”x 3” blank space for Engineer’s stamp.
7. The Contractor is required to initial or sign the submittal, certifying the review of submittals and verification of products, field construction criteria, and coordination of the information within the submittal and the project plans and specifications.

The General Contractor shall be required to review and approve all submittals and provide them signed as evidence thereof, prior to submitting to the Engineer for review. Submittals that are not signed by the General Contractor will be rejected. Submittals shall be numbered consecutively.

The preparation of plans, drawings, and necessary documents, as required by the following submittal lists, shall be considered as part of the requirements of other items of work and no additional compensation shall be allowed therefore.

The Engineer reserves the right to reject any item that does not fulfill the requirements of these plans, the Standard Specifications, and the Special Provisions.

The Engineer reserves the right to require additional submittals from the Contractor that are not specifically identified in the Materials Submittal List Table below. If so requested, the Contractor shall provide the Engineer with four (4) copies of any additional submittal.

TOWN OF LOS GATOS
Submittal List
Project #16-811-0230 E. Main Street Green Bike Lanes (Recycled Glass)

Submittals List:

DESCRIPTION
1. Construction Schedule
2. Traffic Control Plan
3. Notices to Residents, Businesses, and Schools

Materials Submittals List:

DESCRIPTION	REQUIRED SUBMITTAL		
	DESCRIPTION MIX DESIGN/PRODUCT CUT-SHEETS	MANUFACTURER/ PRODUCER INSTALLATION INFORMATION	CERTIFICATE OF COMPLIANCE
4. Thermoplastic Material		X	X
5. Traffic Paint and Glass Beads		X	X
6. Pavement Markers		X	X
7. Recycled Glass		X	X
8. Polymer Resin Binder			X

SECTION 9. DESCRIPTION OF WORK

Description of Work

This project in general includes the following: removal of existing pavement markings, installation and striping of green bike lanes, and bike lane symbol striping on E. Main St.

Locations of Work

The work that is to be performed is at the following locations within the Town of Los Gatos:

E. Main St. from Villa Ave. to Jackson Ave.

TOWN OF
LOS GATOS

TECHNICAL SPECIFICATIONS
Part IV

SECTION 10. TECHNICAL PROVISIONS

SECTION 10-1 GENERAL CONSTRUCTION REQUIREMENTS

Project Plans

The attached schedules with listed streets and corresponding maintenance treatments, and "Project Plans" found in Appendix A shall be considered as the project plans.

Mobilization

Mobilization shall not be separately paid for but shall be considered as included in the payments for other items of work. This shall include full compensation for furnishing all labor and materials, including tools, equipment and incidentals, and for performing all of the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of equipment and materials as specified in the Town Standard Specifications, the Standard Specifications, and these Special Provisions, and as directed by the Engineer.

Order of Work

Order of Work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these Special Provisions.

At least five (5) working days before any work is started, the Contractor shall furnish to the Engineer a written schedule for the work, listing the dates on which individual areas are to be subject to project related work and the extent of impact caused by the work. Additionally, the Contractor shall submit any request for approval for special traffic consideration including but not limited to lane closures, etc. The Contractor shall thenceforth adhere diligently to said written schedule in the prosecution of the work.

The street may not be available for work if scheduling is not requested by the Contractor and approved by the Engineer (5) working days prior to the desired workday.

Attention is directed to Section 10-2, "Traffic Control Requirements," of these Special Provisions.

Cooperation

Attention is directed to Section 7-1.14, "Cooperation," and 8-1.10, "Utility and Non-Highway Facilities," of the Standard Specifications.

It is the Contractor's responsibility to work with utility companies to coordinate the removal, relocation, raising to grade, installation of the new facilities, or any other utility work as shown on the plans or indicated in the specifications with the appropriate utility company. The Contractor shall provide advance notification and shall allow sufficient time and work space for the utility company to complete the work necessary.

If in the opinion of the Engineer, the Contractor's operations are delayed by reason of utility facilities not being removed or relocated, the Contractor will be entitled to an extension of time only. The Contractor shall be entitled to no other compensation for such delay.

Progress Schedule

The Contractor shall submit a project progress schedule for approval by the Engineer within eight (8) days, not including Saturdays, Sundays, and legal holidays from the date of the Notice of the Award of Contract. Failure to submit an acceptable progress schedule shall result in rejection of the Contractor's proposal. The progress schedule shall be in the form specified below unless otherwise specified in the

Special Provision or approved by the Engineer. Updated progress schedules shall be provided by the Engineer monthly with the estimates of work required in Section 9-1.06, "Partial Payments," of the Standard Specifications. No partial payments will be made for any work until an updated schedule has been submitted and approved by the Engineer. Updated schedules shall incorporate all current schedule information, including actual progress, approved time adjustments, and proposed changes in sequence and logic.

The Contractor must furnish a computerized schedule prepared by the critical path method (CPM) which shows the order in which the Contractor proposes to carry out the work; the sequence and interdependence of construction activities; all salient features of the work (including procurement of materials and equipment); the dates on which the Contractor will start the salient features of the work; and the scheduled dates for completing the said salient features. The construction schedule shall include:

a. Time for submittals and reviews;
b. Time for fabrication and delivery of manufactured products for the work; and
c. The interdependence of procurement and construction activities.

The construction schedule shall:

a. Be a timescaled network diagram referenced to specific calendar dates;
b. Include time for the Engineer to review submittals or inspect the work; and
c. Identify the activities which constitute the controlling operations or critical path.

The construction schedule shall not contain multiple critical paths.

Scheduling of change order work is the responsibility of the Contractor. The Contractor shall revise the schedule to incorporate all activities involved in completing the change order work, and submit a new schedule to the Engineer for review.

Delays or changes to non-critical activities will not be considered for a contract time extension. Non-critical activities are those activities which when delayed, do not affect the contract completion time.

The project schedules submitted shall be consistent in all respects with the time and order of work requirements of the contract. The Engineer, at his or her sole discretion, retains the right to reject any and all construction schedules submitted by the Contractor, including when the Engineer determines that the Contractor has too many items on the Critical Path, or the logic of the schedule is in error, or if the Engineer determines salient items of work are missing from the schedule.

Subject to the above provisions, nothing herein shall preclude the Contractor from early completion of the contract.

The Contractor shall submit updated progress schedules to the Engineer as a condition of approval for the monthly progress payments and final acceptance.

Record Drawings

The Contractor shall keep and maintain on the job site, one record set of drawings. On these, the Contractor shall mark all project conditions, locations, configurations, and any other changes or deviations which may vary from the details represented on the original contract documents, including buried or concealed construction and utility features which are revealed during the course of construction. Final payment will not be approved until the Contractor prepared record drawings have been delivered to the Engineer.

General Measurement and Payment Requirements

The Contractor shall submit in all field quantities completed to date for payment with each monthly pay estimate. The Contractor shall provide, in writing, who from their team will be responsible for field measuring quantities with the Town's representative. Upon completion of a contract bid item, the Contractor's representative shall field measure the final quantities with the Town's representative. This agreed upon amount will be considered final and no re-measuring of these field quantities will be allowed without the approval of the Engineer. All supporting documentation required for payment of an item, shall be submitted by the Contractor within two pay periods following the work. Documentation submitted more than two pay periods after the work was completed will not be paid and the cost of this work shall be borne by the Contractor.

Hours of Work

Unless otherwise approved in writing by the Engineer or specified in these Special Provisions, the hours of work for this project are Monday through Friday, 9:00 AM to 3:00 PM. Lane closures on E. Main St. are only allowed from 9:00 AM to 2:00 PM. Night work may be approved on a case by case situation and shall be requested in writing one week prior to construction.

The work hours will be strictly enforced. The Engineer has full authority to implement the working hours and completely shut down the construction operations outside the hours of work specified. Should the provisions of this section not be met, liquidated damages of Five Hundred Dollars ($500.00) for every 60 minute time period (or portion thereof) beyond the hours of work allowable shall be withheld from moneys due to the Contractor.

24-Hour Contact Number

The Contractor shall assign a project superintendent who has the complete authority to make decisions on behalf of the Contractor. The project superintendent shall be on the job at all times during construction and shall be available and on call 24 hours a day for the duration of the project. The Contractor shall provide to the Engineer and to the Los Gatos-Monte Sereno Police Department a 24-hour contact number for the project superintendent. This number shall not direct calls to a recorder or other message taking service.

Advance Public Notification

Two weeks prior to beginning any work in an area, the Contractor shall deliver written notice to all adjoining residents and businesses, tenants and other applicable parties listed below and all other properties where their only ingress/egress is through the project's work area. Individual or separate notices shall be given for general construction activity in an area as well as specific activities, which will, in any way, inconvenience the resident/property owner/tenant or affect their operations or access to their properties. Such notices shall include the expected date for start of construction, a general description of the construction activity to take place, expected duration of the activity, and the name, address, and contact number of the Contractor's superintendent and the Town of Los Gatos Parks and Public Works Department. The Contractor shall provide accurate information regarding the construction schedule and activities to be incorporated into the two week notification. The Contractor shall make every effort to coordinate work with individual residents and businesses whose access will be disrupted in order to minimize the disruption and impacts on the resident or business.

The Contractor shall also provide and hand-deliver two "follow-up" notices. The first notice shall be distributed two working days prior to the rubberized chip seal placement. The second notice shall be distributed two days prior to the application of the slurry seal. The "follow-up" notices shall be delivered to all adjoining residents and businesses, tenants, and other applicable parties listed below and any other properties whose sole ingress/egress is through the project's work area.

Copies of all notices shall be provided to the Engineer for approval five (5) working days prior to the desired distribution date.

Should the Contractor's schedule change and/or differ in any capacity from the schedule initially mentioned in the notification to the resident/property owner/tenant or from the updates to the Town website, the Contractor shall re-notify all applicable parties (residents/property owner/tenant and/or businesses mentioned below) five (5) working days prior to the beginning of any work on that street.

The Contractor shall contact and coordinate the work with the following parties throughout the project. The two week and two day notification shall also be given to the following parties prior to beginning any work:

Santa Clara Valley Transportation Agency – Steve Newgren – (408) 952-4106
West Valley Collection and Recycling, LLC. – (408) 283-8500
U.S. Postal Service – Post Master – (408) 395-7526
Los Gatos/Monte Sereno Police Department – (408) 354-8600
Santa Clara County Fire Department – (408) 378-4010
AT&T – Laura Wendover – (408) 635-8835
PG&E – Esteban Macias – (408) 725-3326
SJWC – Charles Kemp – (408) 279-7864
WVSD – Alan Kam – (408) 385-3030

The Contractor shall also give written notice to residents/businesses for any driveway closures or anticipated service disruptions. The Contractor shall coordinate all disruptions with the appropriate utility, property owner, resident, business and the Town. Notice shall be given in advance and specify the duration of the disruption of any utility, and the temporary closure of access to any driveway. Such notice will comply with the requirements for closure of driveway access as specified under Special Provision Section 10-2, "Traffic Control Requirements."

Lack of proper advance notification and coordination shall result in the work being shut down. All costs associated with the stoppage of work shall be borne by the Contractor.

Meetings

Prior to commencement of any work on the project, a pre-construction conference will be scheduled by the Town and held at the Town's Engineering Building for the purpose of review and discussion of the project schedule and construction procedures. The Contractor's project manager and/or project superintendent and representatives from all listed subcontractors shall be required to attend the pre-construction conference. The Contractor shall prepare and submit at the pre-construction meeting the proposed project schedule, water pollution control plan, traffic control plan, public notification letter, and other submittals as specified under Section 8, "Materials," of the Special Provisions.

The Contractor shall also schedule and conduct weekly field meetings at locations to be determined by the Town. The meetings shall be held at the same time and place each week and shall include all subcontractors working on the project and discussions of scheduled work on the project during the week of the meeting. The Contractor shall notify the Engineer of the time, date, and location of these meetings 72 hours in advance of the first meeting. Detailed schedules for the following two weeks shall be submitted to the Engineer at each weekly meeting.

Waste Haulers and 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 hauler 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 hauler or recycling operations.

Project Appearance and Street Sweeping
The Contractor shall maintain a neat appearance to the work site. Debris developed during construction shall be disposed concurrently with its generation. Stockpiling of debris or construction materials shall not be allowed unless otherwise approved by the Engineer.

The Town prohibits the use of any public property or public right-of-way locations as construction staging points, unless specifically approved by the Engineer.

Right-of-Way
The Contractor shall operate within public right-of-way only.

Tree Trimming
If existing trees or shrubs, including median island planting, and private trees, encroach into the public right-of-way and threaten to obstruct the Contractor's operation, the Contractor shall request permission to trim existing trees or shrubs, at least five (5) working days prior to the date of scheduled tree trimming. All tree and shrub trimming must have prior approval of the Engineer and shall be performed by a Contractor possessing a C-27 or a D-49 license. All costs for tree or shrub trimming and proper disposal shall be paid by the Contractor.

A special notice pertaining to the tree trimming shall be delivered to the adjacent home or business at least two working days before the tree is trimmed. The notice shall be reviewed and approved by the Engineer before deliver.

Landscaping Obstruction
In the event that there are landscaping obstructions such as ivy, lawn, juniper branches, grass, or other encroaching vegetation, the Contractor shall trim or prune such obstruction only to the extent necessary to conduct the installation of improvements in the public right-of-way. Landscaping or other improvements outside the limits of work shall be protected by the Contractor and shall be replaced in kind if the Contractor's operations damage the existing improvements. If the Contractor fails to comply in providing the necessary replacement as defined, the Engineer may elect to have the Town or contract forces perform all these duties deducting all the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibilities to perform these duties.

Staging/Disposal Areas
The Contractor shall survey the area for construction staging. Staging areas shall not be located in a residential area.

The following requirements shall apply to the contractor's staging area:

- No stockpiles or staging area will be allowed in the right-of-way or on undeveloped lots unless specifically approved by the Engineer
- The staging area will be included in the Contractor's SWPPP
- The staging area will not be located in an environmentally or culturally sensitive area and/or impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs).

- The staging area will not be located in a regulatory floodway or within the base floodplain (100-year).
- The staging area will not affect access to properties or roadways.

The Contractor shall obtain the approval of the Engineer before staging equipment or storing materials in the public right-of-way or on Town property. In addition, the Contractor shall provide proof of an agreement when using private property for staging, if requested by the Engineer.

All debris shall be hauled off and disposed of the same working day in which the material was generated.

Personal vehicles of the Contractor's employees shall not be parked in the neighborhood or on the traveled way. When entering or leaving roadways carrying public traffic, the Contractor's equipment, whether empty or loaded, shall in all cases yield to public traffic and shall travel in the normal direction of travel.

Dust Control

The following requirements shall be applicable to this contract in lieu of the requirements of Section 10, "Dust Control," of the Standard Specifications.

A. The Contractor shall provide an acceptable plan for preventing the generation of dust due to the Contractor's operations in the construction zones, along the haul routes, or equipment parking areas. This plan may consist of water sprinkling sweepers or an equivalent service. No separate payment will be made for dust control and all costs in connection therewith shall be included in the payment items to which the work is incidental.

B. In the event the control of dust is not satisfactory to the Owner, the Owner shall take such measures as may be necessary to insure satisfactory dust control and deduct the cost of such measures from any payments due to the Contractor.

Water for Construction

The costs of water as required for the construction and post-construction on this project, including dust control, shall be considered as included in the costs of items bid for applicable item of work and no separate payment will be made therefor. The Contractor shall conform to the requirements of the water company from which water is purchased. In no case shall the Contractor violate the Town's water conservation ordinance.

Sanitation

The Contractor shall provide for sanitary facilities for the use of the workers on the job. Such facilities shall be placed and maintained by the Contractor so as not to be aesthetically displeasing, annoying to the neighbors, nor offensive to the senses nor the community standards of decency. The Engineer shall be the sole judge of the adequacy of the facility, the placement, and the maintenance thereof. Upon notification by the Engineer of deficiencies in any of these areas, the Contractor shall make immediate corrections. Failure to take corrective action within 24 hours shall give the Engineer due cause to stop the work in the contract and to order the corrective work to be done on the sanitary facility and to charge all costs of such work against the monies due or to become due to the Contractor.

Water Pollution Control

Water pollution control work shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications, and these Special Provisions.

The Contractor shall be responsible for ensuring that all work conforms to the "Best Management Practices for the Construction Industry" found in the Storm Water Pollution Prevention Plan (SWPPP), the "Blueprint for a Clean Bay" handout, and the Town Code.

The Contractor shall comply with the requirements of the State Water Resource Control Board (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharge Associated with Construction and Land Disturbance Activities.

The Contractor shall not violate any discharge prohibition contained in the California Regional Water Quality Control Board San Francisco Bay Basin Water Quality Control Plan ("Basin Plan").

A storm water information handout, "Blueprint for a Clean Bay," has been prepared for this contract and is available in Appendix B.

Electric Blowers

The use of gasoline leaf blowers is prohibited. The Contractor shall use electric leaf blowers that shall not exceed 65 decibels in all residential, commercial, and industrial zones or public space, measured 50 feet from the source. The Contractor shall comply with the requirements as set forth in the Town of Los Gatos Ordinance 2231.

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications and Special Provisions of Section 10-1, "General Construction Requirements," shall be deemed included in the price paid for other contract items and no additional compensation shall be allowed therefore.

SECTION 10-2 TRAFFIC CONTROL REQUIREMENTS

General Requirements

Traffic control shall conform to the provisions of Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, the California Manual on Uniform Traffic Control Devices (MUTCD) and these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from the responsibilities specified in Section 7-1.09, "Public Safety," of the Standard Specifications and of these Special Provisions.

The Contractor shall maintain a safe workplace throughout the job including, but not limited to, providing all flaggers, safety equipment, flashing arrow boards, changeable message signs (minimum of two), traffic control devices; maintenance of barricades, safe pedestrian passages along sidewalks, maintenance of handicap access throughout the project site where applicable and maintenance of pavement within the limits of the roadway and driveways with a suitable traffic bearing surface.

The Contractor shall provide and maintain all necessary traffic control devices to ensure safe pedestrian and vehicular access through and around the job site. Warning signs shall be installed at locations in accordance with the "MUTCD for Streets and Highways – Part 6: Temporary Traffic Control 2014." The Contractor shall fulfill the requirements of this section, 24 hours per day, seven days a week, including holidays, from the time the Notice to Proceed is issued until the project is formally accepted.

Should the Contractor fail to perform these duties, the Engineer, at the Engineer's sole discretion, may elect to have City, or contract forces, perform the duties, deducting the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibility to perform these duties.

The Contractor shall provide a minimum of two competent and qualified flaggers dedicated solely to directing traffic if traffic lanes have been reduced to only one lane for two way traffic, in and out of driveways and cross-streets and/or across the construction area as deemed to ensure safe traffic control during construction operations. Flaggers shall be equipped with all necessary tools to properly control the traffic.

Traffic Control/Management Plan

A traffic control plan shall be submitted by the Contractor to the Engineer a minimum of five (5) working days prior to any work commencing on the project. The traffic control plan shall be reviewed and accepted by the Engineer prior to any work commencing on the project. All traffic plans shall be prepared in accordance with the State of California Department of Transportation "California Manual on Uniform Traffic Control Devices for Streets and Highways – Part 6: Temporary Traffic Control 2014," Section 12 "Construction Area Traffic Control Devices," of the Standard Specifications and these Special Provisions.

No Parking Signs

Prior to the start of work which requires parking restriction, the Contractor shall request approval to post and maintain temporary "No Parking" signs on each street where the operations will take place. It shall be the Contractor's responsibility to post "No Parking" signs in the areas where the Contractor's work will require restricted parking. The Town will provide signs for the Contractor's use. To be enforceable, the signs must be posted not less than 72 hours prior to the start of the work at a maximum spacing of 60 feet. The signs must clearly show the date(s) and hours of the parking prohibition, as well as the date and time the signs were posted and the project name and contractor's phone number. If the work is not performed during the timeframe indicated on the "No Parking" signs, the work will be rescheduled with at least five (5) working days advance notice. The Contractor shall perform all re-posting of "No Parking" signs and re-notification of businesses, tenants, and residents as a result of his failure to meet the posted schedule. Any delays caused by failure of the Contractor to adhere to the approved schedule will be at the Contractor's sole expense. No additional compensation will be allowed for costs resulting from said delays.

The Contractor shall remove the "No Parking" signs immediately when they are no longer needed for use in the respective area of the project. The Contractor shall notify the Los Gatos/Monte Sereno Police Department directly after posting, and immediately upon removal of the said signs at (408) 354-8600.

During the morning of each scheduled work day, the Contractor shall be responsible for calling the Los Gatos/Monte Sereno Police Department Police Dispatch to tow cars, if necessary. The Contractor shall have available for the police responding to the call photo documentation of the "No Parking" signs being posted – if the signs were removed or vandalized the previous night.

Detours, Temporary Striping, and Barriers

Any approved detours or barriers, signing and striping necessary to complete the construction of the project shall be provided, installed, maintained, and removed by the Contractor at his expense. Temporary striping shall be self-sticking traffic marking tape, vinyl or otherwise, developed for such use, and shall be used for temporary striping as required, unless shown otherwise on the plans or specified in the special provisions. No painted temporary striping or markings will be allowed unless the temporary markings will be entirely covered by the permanent markings.

Notify the Los Gatos/Monte Sereno Police Department daily at (408) 354-8600 of street or lane closures or detours within the roadway prior to setting up and upon removal of traffic control devices.

Additional Construction Area Signs and Controls

In addition to the requirements of the Manual of Traffic Controls for Maintenance and Construction Work Zones, the following traffic controls will be required as specified by the Engineer. These additional requirements in no way relieve the Contractor from his obligation to comply with the standards set forth in that manual.

- "Road Construction Ahead" (Type C-18) – Expect Delays" signs shall be posted in advance of the first major cross street before the start of the work zone to allow traffic to avoid the work zone prior to entering the zone. The signs shall also be posted at the approaches to the project site.
- "End Construction" (Type C-13) signs shall be placed at all public road exits from the project site.
- The Contractor shall provide, install and maintain a minimum of four (4) lighted barricades for each individual construction site for concrete improvements (i.e. for curb and gutter removal & replacement and for accessibility ramp installation).
- Changeable message board signs will be used starting one (1) week prior to construction beginning and will be maintained in place until construction impacts to the public no longer exist as determined by the Engineer.

The Contractor shall be responsible for locating existing poles on which to mount these signs, or shall provide temporary stands or poles on which to place the required signs. The Engineer shall approve the method of attachment to existing poles prior to sign installation. No sign shall be mounted on decorative street light poles unless the Contractor can clearly show that the mounting method will not damage the finish on the poles.

Upon completion of the work, the signs and posts shall be removed and disposed of outside the public right of way in conformance with the provisions in Section 7-1.13 of the Standard Specifications.

Maintenance of Pedestrian Access and Circulation

Safe pedestrian access and circulation that is fully wheelchair accessible shall be maintained by the Contractor through or around the project area. All walkways, pedestrian crossings, ramps and other pedestrian facilities removed or blocked by the Contractor's operations shall be replaced with temporary facilities unless otherwise approved by the Engineer.

Pedestrian access at each individual project site may be diverted for a maximum of five (5) calendar days with approved traffic control plan. Drop off from existing improvements to excavated areas shall be temporarily ramped. Ramps shall be maintained at 12:1 or flatter with compacted sub-grade or base rock material until final improvements are installed.

Lane Closures

Requests for lane closures shall be made a minimum of five working days prior to the proposed closure. Once the lane closure has been approved by the Town, the Contractor shall post a minimum of five (5) working days in advance of the proposed lane closure a changeable message board sign at the limits of each closure or as specified by the Engineer. These changeable message board signs shall also be used on the day of the actual closure. The changeable message board signs shall indicate the days and hours of the proposed lane closure and the type of work being done during that lane closure.

Flashing arrow signs shall be used for all lane closures. The Contractor shall check with the Engineer to confirm any lane closure restrictions that may be in effect before closing any lanes.

The Contractor shall leave the streets open to traffic until just prior to starting the work, and will provide all barricades, signs and traffic control measures necessary to protect the work.

No work that interferes with public traffic shall be performed prior to 9:00 AM or after 3:00 PM, except as otherwise approved by the Engineer. All traffic lanes shall be open to traffic between the hours of 2:00 PM and 9:00 AM.

A minimum of one paved, or surfaced traffic lanes and one paved bicycle lane, not less than fifteen (15) feet wide (10 foot wide for the traveled vehicle lane and 5 feet wide for the bicycle lane), shall be open for use by public traffic in each direction of travel. Traffic may not be routed over unpaved roadways unless authorized by the Engineer.

In addition, the full width of the traveled way on each street shall be open for public use on Saturdays and Sundays (except for those streets approved by the Engineer for weekend work), on designated legal holidays, and when construction operations are not actively in progress. Designated legal holidays are: January 1, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, Thanksgiving, the day after Thanksgiving, and December 25th. When a designated holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When a designated holiday falls on a Saturday, the preceding Friday shall be a designated legal holiday.

Deviations from the requirements of this section concerning hours of work, which do not change the cost of the work, may be permitted upon the written request of the Contractor, if in the opinion of the Engineer, the general public will be better served and the work expedited. Such deviations shall not be implemented until the Engineer has provided the Contractor with written approval to do so. All other modifications will be made by contract change order.

The Contractor shall pay the Town liquidated damages in the amount of $500 per hour (or part of an hour) for traffic control that is set-up before the designated and approved hours of work. Liquidated damages for failure to open streets by the required time shall be $500.00 per hour.

Traffic Control System for Lane Closure

A traffic control system shall consist of closing traffic lanes in accordance with the details shown on Caltrans Standard Plans T-10, T-10A, T-11, T-12, and T-13 as shown in Appendix C, the provisions of Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, and under these Special Provisions.

The provisions in this section will not relieve the Contractor from the responsibility to provide additional devices or take measures as may be necessary to comply with the provisions of Section 7-1.09, "Public Safety," of the Standard Specifications.

Each vehicle used to place, maintain and remove components of a traffic control system on multilane roads shall be equipped with a Type II flashing arrow sign which shall be in operation when the vehicle is being used for placing, maintaining, or removing the components. Vehicles equipped with a Type II flashing arrow sign not involved in placing, maintaining, or removing the components when operated within a stationary type lane closure shall only display the caution display mode. The sign shall be controllable by the operator of the vehicle while the vehicle is in motion.

If any component of the traffic control system is displaced, or ceases to operate or function as specified from any cause, during the progress of the work, the Contractor shall immediately repair the component to its original condition or replace the component, and shall restore the component to its original location.

When lane closures are made for work periods only, at the end of each work period, all components of the traffic control system, except portable delineators placed along open trenches or excavations adjacent to the traveled way, shall be removed from the traveled way and shoulder. If the Contractor so elects, the components may be stored at selected central locations, approved by the Engineer.

Temporary Pavement Delineation

Temporary pavement delineation shall comply with Section 10-9 of these Special Provisions and with the provisions in Section 12-3.01 "General," of the Standard Specifications, and the California MUTCD.

Property Access Requirements

The Contractor shall maintain property access to all residents and businesses at all times unless otherwise approved by the Engineer. Upon approval by the Engineer, access to certain properties may be temporarily closed if all of the following conditions can be met:

a. No options exist to maintain property access and complete the project.
b. The Contractor has discussed the closure with the resident or business owner in person.
c. Residents or business owners has been notified, in writing, at least five (5) calendar days in advance of the time and length of closure
d. Resident or business owners have been reminded of the closure, in writing, at least two (2) working days prior to the actual closure.
e. The Contractor has provided the resident or business with a contractor name and number to call with questions regarding the closure.
f. Closure will last no longer than three (3) working days

Measurement and Payment

Full compensation for preparing traffic control plans, temporary pavement delineation plans, providing construction and detour signs, and for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the Plans, Specifications and Special Provisions Section 10-2, "Traffic Control Requirements," shall be included and paid for in the lump sum price for:

TRAFFIC CONTROL (L.S.) **BID ITEM # 1**

The basis for payment for Bid Item: Traffic Control will be based on the percentage of job completed in each progress payment.

SECTION 10-3 EXISTING FACILITIES

General

Existing Facilities shall conform to Section 15, "Existing Facilities," of the Standard Specifications, the plans and these Special Provisions and all other applicable project specifications.

Protect Existing Facilities to Remain

The Contractor shall work around and protect all existing improvements to remain, including but not limited to existing utilities, monumentation, bench marks, storm drainage facilities, utility vaults, traffic detector loops, home runs and handholes, concrete and asphalt concrete pavement, pavement markings, landscaping, irrigation facilities, and appurtenances that are within or adjacent to the construction areas.

The Contractor shall notify Underground Service Alert (USA) prior to beginning any work. Notification shall be in full compliance with USA. At the conclusion of the project, the Contractor must remove all

USA markings from all paved and concrete surfaces throughout the job site without damaging said surfaces. The method of removing the USA markings is at the Contractor's discretion.

Existing utility lines are not shown on plans. The Contractor is responsible for locating and field verifying the locations of all existing utilities prior to all construction activities, and protecting all facilities during construction. The Contractor shall protect existing electroliers when placing construction signs.

The Contractor shall immediately repair or remove and replace any item damaged or injured by his operations at his sole expense and to the satisfaction of the Engineer. The Contractor shall immediately notify the appropriate owner of the improvement or facility and the Engineer of any damage as a result of his operations to existing improvements or facilities. If the improvement belongs to a private residence and the property owner or occupant is not at home, such notification shall be attached to the front door of the property. All underground facilities that are damaged by the Contractor during construction shall be restored by the Contractor within two (2) hours after the damage is done.

All existing improvements, including but not limited to, irrigation systems, brick work, stone work, fences, mailboxes, turf and landscaping, on public right-of-way which are obstacles to forming operations may be removed as necessary for this type of work. The Contractor shall notify the adjacent property owner and the Engineer prior to removal of any existing improvements. After removing the forms, all the existing improvements shall be restored to their original condition at no additional cost to the Town. If the Contractor fails to comply in providing the necessary restoration work as defined, the Engineer may elect to have the Town or other contract forces perform all these duties, deducting all the expenses incurred from any moneys that are due, or to become due, to the Contractor. By exercising this option, the Contractor is in no way relieved of the responsibilities to perform these duties.

New monument boxes, including frames and covers shall be installed to grade around those monuments that do not have existing boxes. Any new monument boxes, frames, and covers needed shall be provided by the Town. All covers shall be stable under traffic.

The Contractor shall clean all AC debris and tack oil off of utility covers caused by the Contractor's operation.

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in compliance with the plans, specifications and Special Provision Section 10-3, "Existing Facilities," shall be included in other items of work and no additional compensation will be allowed therefore.

Section 10-4 PAVEMENT MARKER, THERMOPLASTIC MARKING, AND STRIPING REMOVAL

General

Pavement marker, markings and striping removal shall conform to the plans and these Special Provisions.

If existing pavement markings are to be removed, they shall be removed by grinding. The grinder shall be specifically designed for the purpose of removing existing traffic stripes and markings and shall conform to the provisions of Section 15-2.02B of the Standard Specifications. Immediately upon removal of the markings and striping, temporary marking and striping shall be placed. Grinding operations shall be conducted to keep all removed pavement material from entering the storm drain system. The operation shall be controlled and contained so as not to impair the safe passage of traffic adjacent to the work site. Existing pavement markers shall be removed prior to placing the new surfacing (cape, slurry seal, microsurface, and overlay).

The location of all striping, markings, and markers shall be marked out and documented by the Contractor prior to removal of any striping, markers, and/or thermoplastic material and before placing the new surfacing (cape, slurry seal, microsurface, and overlay). This information shall be given to the Engineer for review prior to any striping removal.

All traffic striping and pavement markings (legends) covered by or removed prior to the surfacing or otherwise damaged by the Contractor's operations shall be replaced in kind in the same location and count.

Existing pavement striping, markings, and markers which are outside the work area are not to be removed and shall be protected by the Contractor. Any striping, markings, or markers which are to remain, which are damaged or rendered useless by the Contractor's operations, shall be restored by the Contractor to the Engineer's satisfaction and at the Contractor's sole expense.

The Contractor shall review all existing striping and pavement markings in the field prior to submitting a bid.

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, flaggers, equipment, and all incidentals, and for doing all of the work in compliance with the plans, specifications and Section 10-4, "Pavement Marker, Thermoplastic Marking and Striping Removal," of the Special Provisions shall be included and paid for in the lump sum price for:

PAVEMENT MARKER AND STRIPING REMOVAL (L.S.) BID ITEM #2

SECTION 10-5 TEMPORARY PAVEMENT DELINEATION

General

Temporary pavement delineation shall be furnished, placed, maintained and removed in accordance with the provisions in Section 12-3.01, "General," of the Standard Specifications, the California MUTCD and these Special Provisions. Nothing in these Special Provisions shall be construed as to reduce the minimum standards specified in the California MUTCD or as relieving the Contractor from his responsibility as provided in Section 7-1.09, "Public Safety," of the Standard Specifications and as indicated in these Special Provisions.

Lane line or centerline pavement delineation shall be provided at all times for travel lanes open to public traffic. Whenever the work covers or causes obliteration of pavement delineation, temporary pavement delineation or permanent traffic stripes shall be in place prior to opening the traveled way to public traffic.

Surfaces on which temporary pavement delineation is to be applied shall be cleaned of all dirt and loose material and shall be dry when the pavement delineation is applied.

The Contractor shall perform all work necessary to establish satisfactory alignment for temporary pavement delineation.

Temporary pavement delineation that is damaged from any cause during the progress of the work shall be immediately repaired or replaced by the Contractor at his own expense.

Temporary Striping

Whenever existing traffic striping or markings have been removed, paved over, or otherwise obliterated, temporary striping or markings shall be provided as follows: Slurry tabs of the appropriate color as approved by the Engineer shall be installed and placed on twenty-four (24) foot intervals to delineate all four (4) inch traffic stripes. All channelization lines (solid eight (8) inch or twelve (12) inch line markings) shall be temporarily restored with a double row of slurry tabs as approved by the Engineer. All crosswalks shall be restored with a double row of slurry tabs as approved by the Engineer. All pavement markers separating multiple turning lanes shall be replaced with slurry tabs on a ten (10) foot spacing. Temporary traffic striping and marking shall be removed and replaced with permanent striping and markings as soon as the final pavement surface has cured sufficiently to receive the permanent traffic paint or thermoplastic. Permanent pavement markers shall be installed on the same day that the permanent traffic striping and markings are installed, however, the installation of pavement markers shall be done only after all traffic striping and markings are installed. The Contractor shall maintain the temporary striping until their permanent traffic striping and markings are placed.

When no longer required for the direction of public traffic, as determined by the Engineer, the temporary traffic stripe and pavement marking tape and temporary pavement markers, applied to existing pavement, the top layer of new pavements or any other paved surface where the previously placed pavement delineation conflicts with the new traffic pattern, shall be removed and disposed of in accordance with the provisions of Section 7-1.13, "Disposal of Materials Outside the Highway Right-of-Way," of the Standard Specifications and all lines and marks used to establish the alignment for the temporary traffic stripes, pavement markings and temporary pavement markers shall be removed from the pavement.

Measurement and Payment

Full compensation for furnishing, placing, maintaining, replacing (regardless of the number of times it is required) and removing temporary traffic stripes and markings and temporary pavement markers shall be considered as included in the lump sum price paid for under Section 10-2, "Traffic Control Requirements," and no additional compensation will be allowed therefor.

SECTION 10-6 TRAFFIC STRIPES, PAVEMENT MARKINGS, AND MARKERS

General

Traffic stripes (traffic lines) and pavement markings (legends) shall conform to the following: Provisions of Section 84-1 and 84-2 of the Standard Specifications, the California MUTCD, the striping tie out plans as generated by the Contractor and approved by the Engineer under Section 10-4, "Pavement Marker, Thermoplastic Marking and Striping Removal," of these Special Provisions, the Standard Plans, detail drawings as shown in Appendix C, and these Special Provisions. Traffic Stripes and marking shall be installed as shown on the approved striping tie-out plans or as directed by the Engineer.

All traffic stripes and pavement markings shall be laid out in the field by the Contractor and reviewed and approved by the Engineer five (5) working days prior to any final installation. Any striping and/ or marking installed by the Contractor that the Engineer has not pre-approved, and that the Engineer determines are installed improperly or in the wrong locations, shall be removed and replaced to the satisfaction of the Engineer at the Contractor's sole expense.

Raised Pavement Markers

Pavement markers shall conform to Section 85, “Pavement Markers,” of the Standard Specifications, the California MUTCD and these Special Provisions. All non-reflective pavement markers shall be ceramic. Plastic pavement markers shall not be allowed.

Adhesive shall be hot-melt bituminous adhesive conforming to Section 85, “Pavement Markers,” of the Standard Specifications and of these Special Provisions.

Markers shall not be placed on new asphalt concrete surfacing until the surfacing has been opened to public traffic for a period of not less than seven days when hot melt bituminous adhesive is used, and not less than 14 days when epoxy adhesive is used. Placement of pavement markers shall be completed within three weeks of application of the new resurfacing of the respective roadway.

All pavement markers in place (outside the limits of the work) shall be protected from damage and shall be clean and undamaged after completion of the project. Any damage to the newly placed or existing markers due to the failure of the Contractor to protect the work, and correction of errors, shall be repaired by the Contractor at no additional cost.

Caltrans Type C Red-Clear Reflective marker shall replace all Caltrans Type G One-Way Clear Reflective markers for all Caltrans Standard Striping Details. The clear side of the reflective marker shall face the on-coming direction of travel.

Blue reflective fire hydrant pavement markers shall be installed conforming to the provisions of the California MUTCD Section 3B.11, “Raised Pavement Markers,” and Figure 3B-102 (CA).

A Certificate of Compliance shall be furnished as specified in Section 6-1.07, “Certificates of Compliance,” of the Standard Specifications for reflective pavement markers. Said certificate shall also certify that the reflective pavement markers conform to the prequalified testing and approval of Caltrans, division of Traffic Operations, and were manufactured in accordance with the approved quality control program.

Thermoplastic Traffic Stripe and Pavement Marking

Thermoplastic traffic stripes (traffic lines) and pavement markings shall be applied in conformance with the provisions in Section 84, "Traffic Stripes and Pavement Markings," of the Standard Specifications and these Special Provisions.

Thermoplastic material shall be free of lead and chromium, and shall conform to the requirements in State Specification PTH-02ALKYD.

Retroreflectivity of the thermoplastic traffic stripes and pavement markings shall conform to the requirements in ASTM Designation: D6359-99. White thermoplastic traffic stripes and pavement markings shall have a minimum initial retroreflectivity of 250 mcd m^{-2} lx^{-1}. Yellow thermoplastic traffic stripes and pavement markings shall have a minimum initial retroreflectivity of 150 mcd m^{-2} lx^{-1}.

The color for green back symbols shall meet FHWA specifications for “green.”

Where striping joins existing striping, as shown on the plans, the Contractor shall begin and end the transition from the existing striping pattern into or from the new striping pattern a sufficient distance to ensure continuity of the striping pattern.

Thermoplastic traffic stripes and pavement markings shall be free of runs, bubbles, craters, drag marks, stretch marks, and debris. Thermoplastic shall be extruded and placed in one coat and shall be placed five days after the final surfacing. Sprayable thermoplastic is not allowed. Longitudinal limit line shall be white and 12" in width.

Application

Use preheaters with mixers having 360 degree rotation to preheat the thermoplastic material. Apply the thermoplastic in a single uniform layer by extrusion method. Completely coat and fill voids in the pavement surface with the thermoplastic.

Extruded Thermoplastic

Apply extruded thermoplastic at a temperature from 400 to 425 degrees F, unless a different temperature is instructed by the manufacturer. Apply extruded thermoplastic for a traffic stripe at a rate of at least 0.20 lb/ft of 4-inch wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.060 inch thick. An applied thermoplastic pavement marking must be from 0.100 to 0.150 inch thick. Apply glass beads to the surface of the molten thermoplastic at a rate of at least 8 lb/100 sq ft.

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work in compliance with the plans, specifications and Section 10-6, "Traffic Stripes, Pavement Markings and Markers," of the Special Provisions shall be measured and included in the appropriate bid item as listed on the Bid Schedule and as outlined below:

DETAIL 21 STRIPING - THERMOPLASTIC (L.F)	**BID ITEM #3**
DETAIL 27B STRIPING - THERMOPLASTIC (L.F.)	**BID ITEM #4**
DETAIL 38A STRIPING - THERMOPLASTIC (L.F)	**BID ITEM #5**
DETAIL 39 STRIPING - THERMOPLASTIC (L.F.)	**BID ITEM #6**
DETAIL 39A STRIPING - THEMOPLASTIC (L.F.)	**BID ITEM #7**
"STOP" LEGEND – THERMOPLASTIC (EA.)	**BID ITEM #8**
"SLOW" LEGEND – THERMOPLASTIC (EA.)	**BID ITEM #9**
"SCHOOL" LEGEND – THERMOPLASTIC (EA.)	**BID ITEM #10**
"XING" LEGEND – THERMOPLASTIC (EA.)	**BID ITEM #11**
TYPE IV (L) ARROW – THERMOPLASTIC (EA.)	**BID ITEM #12**
"BIKE LANE SYMBOL" LEGEND – THERMOPLASTIC (EA.)	**BID ITEM #13**
BIKE LANE ARROW – THERMOPLASTIC (EA.)	**BID ITEM #14**

SECTION 10-7 GREEN BIKE LANES (RECYCLED GLASS)

General
The high friction surface treatment (HFST) onto an asphalt concrete pavement shall consist of a polymer resin binder with a 100% recycled, pigmented glass topping, and manufacturer's certificate of compliance.

The Contractor shall submit a HFST quality control plan and indicate:
1. Description of equipment for placing HFST
2. Method for protecting areas not to receive HFST
3. Cure time estimates
4. Storage and handling of HFST components
5. Disposal of excess HFST and containers
6. Contingency plan for possible failure during the HFST application

The Contractor shall submit a certificate of compliance for the manufacturers polymer resin binder, 100% recycled pigmented glass topping, and material safety data sheets (MSDS) for each shipment of HFST components.

Surface Preparation
Use mechanical wire brushing to remove dirt, contaminants, and loose material from the pavement surface that are to receive the green bike lane, traffic stripe or pavement marking. Use abrasive blast cleaning to remove laitance and curing compound from the surface of the asphalt pavement that is to receive the green bike lane, traffic stripe or pavement marking. Where a new traffic stripe joins an existing traffic stripe, allow enough distance between the new and existing striping patterns to ensure continuity at the beginning and end of the transition. All prices in Bid Schedule include the removal of existing striping.

Construction Alignment
Establish alignment for green bike lane traffic stripes and all layouts for pavement markings with a device or method that will not damage the pavement or conflict with other traffic control devices.

Protection from Damage
Protect existing retro reflective pavement markers and existing pavement markings during work activities. Remove any existing pavement marker that is coated or damaged by work activities and replace it with an equivalent marker. Protect newly placed green bike lanes, traffic stripes and pavement markings from traffic and other deleterious activities until the material is thoroughly dry or the surface is hard enough to bear traffic.

Material Color
Color for the colored glass aggregate within the green bike lanes shall meet FHWA specifications for "Green".

Tolerances and Appearance
Completed green bike lanes and traffic stripes must:
1. Have clean, well-defined edges without running or deformation
2. Be uniform
3. Be straight on a tangent alignment and on a true arc on a curved alignment

The width of a completed traffic stripe must not deviate from the width shown by more than 1/4 inch on a tangent alignment and 1/2 inch on a curved alignment.

The length of the gaps and individual stripes that form a broken traffic stripe must:

1. Not deviate by more than 2 inches from the lengths shown
2. Be uniform throughout the entire length of each broken traffic stripe so that a normal striping machine will be able to repeat the pattern and superimpose successive coats on the applied traffic stripe

A completed pavement marking must comply with the dimensions shown and have well-defined edges without running or deformation.

A completed green bike lane, thermoplastic traffic stripes or thermoplastic pavement markings must be free of runs, bubbles, craters, drag marks, stretch marks, and debris.

Polymer Resin Binder

Provide a polymer resin binder which holds the aggregate topping firmly in place, and which meets the following requirements.

Polymer Resin Binder Requirements

Property	Requirement	Test Method
Ultimate Tensile Strength	2650 psi min.	ASTM D638
Elongation at break point	30% min.	ASTM D638
Compressive Strength	1600 psi min.	ASTM D695
Water Absorption	1.0 % max.	ASTM D570
Shore D Hardness, min. 77°F	65-75	ASTM D2240
Viscosity	1000-3000 mPa	ASTM D2393
Gel Time, minutes	15-45 min.	ASTM C881
Cure Rate	3 hrs. max.	ASTM D1640, 0.2"
Mixing Ratio	As recommended by manufacturer	N/A

Aggregate Topping

Furnish a post 100% recycled pigmented glass aggregate. The aggregate topping is to be clean, dry, and free from deleterious matter. The aggregate topping must meet the following requirements and must be certified by the manufacturer as being completely post recycled with a three year fade free warranty:

Characteristic	100% Recycled Pigmented Glass Aggregate
Specific Gravity	2.5
Bulk Density	Avg. 86lb/ft^3
Volume/Ton	Avg. 26.5ft^3
Softening Point	-1350°F
Shape	Sub-angular, non-porous
Hardness	6.0 Mohs
Physical Composition	Panel glass, non-leaded
Chemical Composition	Sodium Oxide: 12-15%
Aluminum/Other Oxides	Oxide: 1-2%
Color Retention	100%
Recycled Material	100% US glass
Color Selection	Varied, customized
Size Range Available	0.4-0.8mm, 0.8-1.2mm, 1.2-3mm, 3-9mm

Environmentally Sound	100% green post recycled material

Construction

Attendance during construction activities is mandatory for:

1. HFST Foreman
2. Project Superintendent

Surfaces must be clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the polymer resin binder material and existing surfaces. Adequate cleaning of all surfaces will be determined by the Engineer.

Remove pavement markers and delineation within the area to receive HFST, prior to placing polymer resin binder. Perform street sweeping before placing pavement markers and delineation.

Temporary or permanent pavement markers and delineation must be in place before lanes are open to public traffic.

The HFST must conform to the following:

1. Do not apply HFST to asphalt pavement surfaces that are less than 30 days old, unless sandblasted prior to application.
2. Do not apply the polymer resin binder on a wet surface or when the ambient temperature is below 55°F or when the anticipated weather conditions would prevent the proper application of the surface treatment as determined by the Engineer.
3. Surface preparation work, surface temperature, placement of the HFST must be in conformance with the binder supplier's specifications, these special provisions and as approved by the Engineer.
4. The minimum spread rate for polymer resin binder is 0.28-0.32 gal./sq. yd.
5. The minimum spread rate of retained aggregate is 13-20 lb./sq yd.
6. HSFT must be allowed to cure for the minimum duration as recommended by the supplier's specifications and during that time the application area must be closed to all vehicle and contractor equipment traffic.

The surface texture of the HFST must be uniform and have a coefficient of friction not less than 0.65. Provide a correction plan for HFST that fails to meet the coefficient of friction of 0.65. The correction plan may include correction of existing HFST or remove and replace at the installers expense

Measurement and Payment

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work in compliance with the plans, specifications and Section 10-7, “Green Bike Lanes (Recycled Glass),” of the Special Provisions shall be measured and included in the appropriate bid item as listed on the Bid Schedule and as outlined below:

4.5’ WIDE GREEN BIKE LANE – RECYCLED GLASS (L.F.)	**BID ITEM #15**
4.5’ WIDE DASHED GREEN BIKE LANE – RECYCLED GLASS (L.F.)	**BID ITEM #16**

APPENDIX A
Project Plans

LOS GATOS HIGH SCHOOL
HIGH SCHOOL CT
E MAIN ST
E MAIN ST
VILLA AVE
JACKSON AVE
RECYCLED GLASS AGGREGATE (TYP.)
GRIND EXISTING LEGENDS PRIOR TO INSTALLING NEW LEGENDS
INSTALL 6o WIDE WHITE BIKE LANE DASHED STRIPE PER CALTRANS DETAIL 39A AND THE 4.5' WIDE DASHED GREEN BIKE LANE IN CONFORMANCE WITH DETAIL 39A.
REMOVE EXISTING STRIPING & PAVEMENT MARKINGS BY GRINDING
39A
27B
39
27B
39
27B
39A
10'
10'

APPENDIX B
Blueprint for a Clean Bay

Blueprint for a Clean Bay

Best Management Practices to Prevent Stormwater Pollution from Construction-Related Activities

B A S M A A

Bay Area
Stormwater Management
Agencies Association

The Bay Area Stormwater Management Agencies Association (BASMAA), a consortium of Bay Area municipalities from Alameda, Contra Costa, Marin, San Mateo, Santa Clara, Solano, and Sonoma Counties, developed this booklet as a resource for all general contractors, home builders, and subcontractors working on construction sites.

CONTENTS

Introduction 2

Stormwater Pollution 2

Storm Drain System

Pollution From Construction Sites

Adverse Effects from Stormwater Pollution

Requirements for Dischargers 3

Municipal Stormwater Program

Projects Equal To Or Greater Than 1 Acre

California State Water Resources Control Board General Permit

Notice of Intent (NOI)

Storm Water Pollution Prevention Plan (SWPPP)

Projects Less Than 1 Acre

General Best Management Practices 3

Specific Best Management Practices

Erosion Prevention and Sediment Control 4

Prevent erosion

Control sediment

General Site Maintenance 6

Prevent spills and leaks

Clean up spills immediately after they happen

Store materials under cover

Cover and maintain dumpsters

Collect and properly dispose of paint removal wastes

Clean up paints, solvents, adhesives, and cleaning solutions properly

Keep fresh concrete and cement mortars out of gutters, storm drains, and creeks

Service and maintain portable toilets

Dispose of cleared vegetation properly

Demolition Waste Management 9

Make sure all demolition waste is properly disposed of

Roadwork and Pavement Construction 9

Plan roadwork and pavement construction to avoid stormwater pollution

Contaminated Ponded Stormwater, Groundwater, and Soil Guidance 10

Look for ponded stormwater, groundwater, and/or soil contamination

Take appropriate action

Introduction

Stormwater pollution is a national environmental problem. In California, stormwater runoff is a major source of water pollution. To help combat the problems of stormwater pollution, federal and state governments have developed a program for monitoring and permitting discharges to municipal storm drain systems, creeks, and water bodies such as San Francisco Bay.

Municipalities in the Bay Area are required by the Clean Water Act to develop stormwater management programs that include requirements for construction activities. Your construction project will need to comply with local municipal requirements. If your construction activity will disturb one acre or more, you must also obtain coverage under the General Construction Activity Permit (see Requirements for Dischargers).

Blueprint for a Clean Bay is an introductory guide to stormwater quality control on construction sites. It contains several principles and techniques that you can use to help prevent stormwater pollution. BASMAA has developed this booklet as a resource for all general contractors, home builders, and subcontractors working on construction sites.

Blueprint for a Clean Bay is not a design manual or a Stormwater Pollution Prevention Plan (SWPPP) (see Requirements for Dischargers). For more information on the General Permit, designing stormwater quality controls, or producing a Stormwater Pollution Prevention Plan, please refer to:

- ❑ the California Stormwater Quality Association (CASQA) Stormwater Best Management Practice Handbook for Construction,
- ❑ the Regional Water Quality Control Board's (RWQCB) Guidelines for Construction Projects, or
- ❑ consult your local program or the State Water Resources Control Board (SWRCB) (see below).

Please note that this booklet is concerned only with the management of construction sites and activities during construction.

Stormwater Pollution

Storm Drain System

Stormwater or runoff from sources like sprinklers and hoses flows over the ground into the storm drain system. In the San Francisco Bay Area, storm drain systems consist of gutters, storm drains, underground pipes, open channels, culverts, and creeks. Storm drain systems are designed to drain directly to the Bay, Delta, or Pacific Ocean with no treatment.

Pollution From Construction Sites

Stormwater runoff is part of a natural hydrologic process. However, land development and construction activities can significantly alter natural drainage patterns and pollute stormwater runoff. Runoff picks up pollutants as it flows over the ground or paved areas and carries these pollutants into the storm drain system. Common sources of pollutants from construction sites include: sediments from soil erosion; construction materials and waste (e.g., paint, solvents, concrete, drywall); landscaping runoff containing fertilizers and pesticides; and spilled oil, fuel, and other fluids from construction vehicles and heavy equipment.

Adverse Effects from Stormwater Pollution

Stormwater pollution is a major source of water pollution in California. It can cause declines in fisheries, damage habitats, and limit water recreation activities. Stormwater pollution poses a serious threat to the overall health of the ecosystem.

For more information on stormwater requirements, call the State Water Resources Control Board's Stormwater Information Line at (916) 341-5537 or your local program.

Requirements for Dischargers

Municipal Stormwater Program

Municipalities in the Bay Area are required by federal regulations to develop programs to control the discharge of pollutants to the storm drain system, including the discharge of pollutants from construction sites and areas of new development or significant redevelopment. As a result, your development and construction projects are subject to new requirements designed to improve stormwater quality such as, expanded plan check and review, contract specifications, stormwater treatment measures, runoff monitoring, and increased site inspection. For more information on municipal requirements, please contact the municipal representative listed on the back cover of this booklet.

Projects Equal To Or Greater Than 1 Acre

If your construction activity will disturb one acre or more, you must obtain coverage under the General Construc-tion Activity Storm Water Permit (General Construction Permit) issued by the SWRCB for stormwater discharges associated with construction activity. To obtain coverage under the General Permit, a Notice of Intent (NOI) must be filed with the SWRCB. The General Construction Permit requires you to prepare and carry out a "Stormwater Pollution Prevention Plan" or SWPPP. Your SWPPP must identify appropriate stormwater pollution prevention measures or best management practices (BMPs), like the ones described in this booklet, to reduce pollutants in stormwater discharges from the construction site both during and after construction is complete. A best management practice or BMP is defined as any program, technology, process, practice, operating method, measure, or device that controls, prevents, removes, or reduces pollution. The General Permit also requires permanent stormwater quality controls (see BASMAA's Start at the Source manual and CASQA's BMP Handbooks New Development and Redevelopment for examples). You should keep a copy of your SWPPP readily available onsite throughout construction.

Projects Less Than 1 Acre

If your project is less than one acre, you may still need to use BMPs to comply with local municipal requirements. Check with the local stormwater program (listed on back cover), or planning or engineering department for details.

Best Management Practices

General Practices

The following are some general principles that can significantly reduce pollution from construction activity and help make compliance with stormwater regulations easy:

- ❑ Identify all storm drains, drainage swales and creeks located near the construction site and make sure all subcontractors are aware of their locations to prevent pollutants from entering them.
- ❑ Clean up leaks, drips, and other spills immediately so they do not contact stormwater.
- ❑ Refuel vehicles and heavy equipment in one designated location on the site and take care to clean up spills immediately.
- ❑ Wash vehicles at an appropriate off-site facility. If equipment must be washed on-site, do not use soaps, solvents, degreasers, or steam cleaning equipment, and prevent wash water from entering the storm drain. If possible, direct wash water to a low point where it can evaporate and/or infiltrate.
- ❑ Never wash down pavement or surfaces where materials have spilled. Use dry cleanup methods whenever possible.
- ❑ Avoid contaminating clean runoff from areas adjacent to your site by using berms and/or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams and/or berms where appropriate.
- ❑ Protect all storm drain inlets using filter fabric cloth or other best management practices to prevent sediments from entering the storm drainage system during construction activities.
- ❑ Keep materials out of the rain — prevent runoff pollution at the source. Schedule clearing or heavy earth moving activities for periods of dry weather. Cover exposed piles of soil, construction materials and wastes with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.

For more information on the General Permits, call the State Water Resources Control Board's Stormwater Information Line at (916) 341-5537 or your local program.

- Keep pollutants off exposed surfaces. Place trash cans around the site to reduce litter. Dispose of non-hazardous construction wastes in covered dumpsters or recycling receptacles.
- Practice source reduction — reduce waste by ordering only the amount you need to finish the job.
- Do not over-apply pesticides or fertilizers and follow manufacturers instructions for mixing and applying materials.
- Recycle leftover materials whenever possible. Materials such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires are recyclable (check with the local planning or building department for more information).
- Dispose of all wastes properly. Materials that cannot be reused or recycled must be taken to an appropriate landfill or may require disposal as hazardous waste. Never throw debris into channels, creeks or into wetland areas. Never store or leave debris in the street or near a creek where it may contact runoff.
- Illegal dumping is a violation subject to a fine and/or time in jail. Be sure that trailers carrying your materials are covered during transit. If not, the hauler may be cited and fined.
- Train your employees and inform subcontractors about the stormwater requirements and their own responsibilities.

Specific Practices

Following is a summary of specific best management practices for erosion and sediment control and contractor activities. For more information on erosion and sediment control BMPs and their design, please refer to the RWQCB Erosion and Sediment Control Field Manual (August 2002), the CASQA Stormwater Best Management Practice Handbook for Construction (January 2003), and the Association of Bay Area Governments (ABAG) Manual of Standards for Erosion & Sediment Control Measures (May 1995).

Erosion Prevention and Sediment Control

Prevent erosion

Soil erosion is the process by which soil particles are removed from the land surface, by wind, water and/or gravity. Soil particles removed by stormwater runoff are pollutants that when deposited in local creeks, lakes, Bay or Delta, can have negative impacts on aquatic habitat. Exposed soil after clearing, grading, or excavation is easily eroded by wind or water. The following practices will help prevent erosion from occurring on the construction site:

- Plan the development to fit the topography, soils, drainage pattern and natural vegetation of the site.
- Delineate clearing limits, easements, setbacks, sensitive or critical areas, trees, drainage courses, and buffer zones to prevent excessive or unnecessary disturbances and exposure.
- Phase grading operations to reduce disturbed areas and time of exposure.
- Avoid excavation and grading during wet weather.
- Limit on-site construction routes and stabilize construction entrance(s) and exit(s).
- Remove existing vegetation only when absolutely necessary.
- Construct diversion dikes and drainage swales to channel runoff around the site.
- Use berms and drainage ditches to divert runoff around exposed areas. Place diversion ditches across the top of cut slopes.

- Plant vegetation on exposed slopes. Where replanting is not feasible, use erosion control blankets (e.g., jute or straw matting, glass fiber or excelsior matting, mulch netting).
- Consider slope terracing with cross drains to increase soil stability.
- Cover stockpiled soil and landscaping materials with secured plastic sheeting and divert runoff around them.
- As a back-up measure, protect drainage courses, creeks, or catch basins with fiber rolls, silt fences, sand/gravel bags and/or temporary drainage swales.
- Once grading is completed, stabilize the disturbed areas using permanent vegetation as soon as possible. Use temporary erosion controls until vegetation is established.
- Conduct routine inspections of erosion control measures especially before and immediately after rainstorms, and repair if necessary.

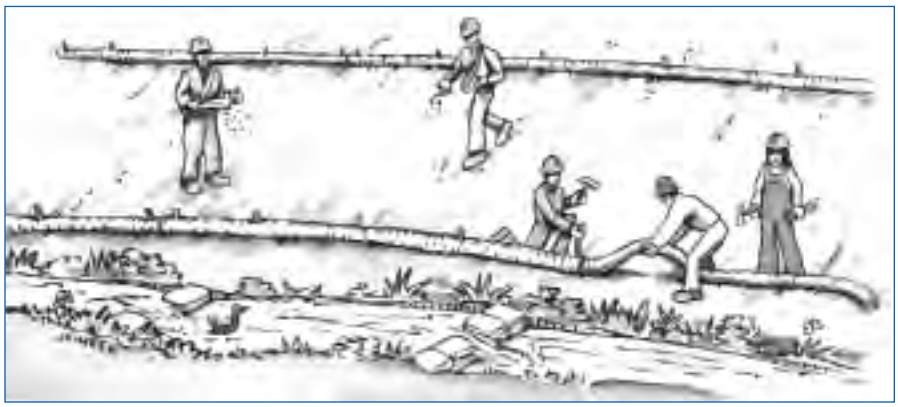
Control sediment

Sedimentation is defined as the process of depositing sediments carried away by runoff. Sediments consist of soil particles, clays, sands, and other minerals. The purpose of sediment control practices is to remove sediments from stormwater before they are transported off-site or reach a storm drain inlet or nearby creek. The most effective sediment control practices reduce runoff velocity and trap or detain runoff allowing sediments to settle out.

- Use terracing, rip rap, sand/gravel bags, rocks, fiber rolls, and/or temporary vegetation on slopes to reduce runoff velocity and trap sediments. Do not use asphalt rubble or other demolition debris for this purpose.
- Use check dams in temporary drains and swales to reduce runoff velocity and promote sedimentation.
- Protect storm drain inlets from sediment-laden runoff. Storm drain inlet protection devices include sand/gravel bag barriers, filter fabric fences, block and gravel filters, catch basin filter inserts, excavated drop inlet sediment traps, or a combination of these.
- Collect and detain sediment-laden runoff in sediment traps (an excavated or bermed area or constructed device) to allow sediments to settle out prior to discharge.
- Use sediment controls and filtration to remove sediments from dewatering discharges.
- Prevent construction vehicle tires from tracking soil onto adjacent streets by constructing a temporary stone pad with a filter fabric underliner near the site exit where dirt and mud can be removed.
- When cleaning sediments from streets, driveways and paved areas on construction sites, use dry sweeping methods where possible. If water must be used to flush pavement, collect runoff to settle out sediments and protect storm drain inlets.

Note: Performance of erosion and sediment controls is dependent on proper installation, routine inspections and maintenance of the controls. Straw bale barriers are an example of a BMP that has not been as effective as expected due to improper use. Most of the BMPs described above are temporary and if left alone can quickly fall into disrepair and/or become ineffective. Routine inspections and maintenance, particularly before and after a storm event, must be part of any erosion and sediment control plan.

The RWQCB's Field Manual, the CASQA Stormwater Best Management Practice Handbook for Construction, and the ABAG Manual of Standards for Erosion and Sediment Control provide specific details and design criteria for erosion and sediment control plans.



Drainage swales channel runoff around a construction site. Planting temporary vegetation on freshly graded areas, and trenching and staking fiber rolls and/or silt fences downslope are common techniques for preventing erosion and controlling sediment.

Make sure equipment repair area is bermed or well away from creeks and storm drains.

General Site Maintenance

Prevent spills and leaks

Poorly maintained vehicles and heavy equipment leaking fuel, oil, antifreeze, or other fluids on the construction site are common sources of stormwater pollution and soil contamination. Construction material spills can also cause serious problems. Careful site planning, preventive maintenance, and good materials handling practices can eliminate most spills and leaks.

- ❑ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- ❑ Designate specific areas of the construction site, well away from creeks or storm drain inlets, for vehicle and equipment parking and routine maintenance.
- ❑ Perform major maintenance, repair jobs and vehicle and equipment washing off-site when feasible, or in designated and controlled areas on-site.
- ❑ If you must drain and replace motor oil, radiator coolant, or other fluids on-site, use drip pans or drop cloths to catch drips and spills. Collect all spent fluids, store in labeled separate containers, and recycle whenever possible. Note that in order to be recyclable, such liquids must not be mixed with other fluids. Non-recycled fluids generally must be disposed of as hazardous wastes.

Clean up spills immediately after they happen

When vehicle fluids or materials such as paints or solvents are spilled, cleanup should be immediate, automatic, and routine.

- ❑ Sweep up spilled dry materials (e.g., cement, mortar, or fertilizer) immediately. Never attempt to "wash them away" with water, or bury them. Use only minimal water for dust control.
- ❑ Clean up liquid spills on paved or impermeable surfaces using "dry" cleanup methods (e.g., absorbent materials like cat litter, sand or rags).
- ❑ Clean up spills on dirt areas by digging up and properly disposing of the contaminated soil.
- ❑ Report significant spills to the appropriate spill response agencies immediately (See reference list on the back cover of this booklet for more information).

Clean up spills on dirt areas by removing contaminated soil.

Note: Used cleanup rags that have absorbed hazardous materials must either be sent to a certified industrial laundry or dry cleaner, or disposed of through a licensed hazardous waste disposal company.

Store materials under cover

Wet and dry building materials with the potential to pollute runoff should be stored under cover and/or surrounded by berms when rain is forecast or during wet weather.

Store building materials under cover. Make sure dumpsters are properly covered to keep out rain.

- ❑ Store stockpiled materials and wastes under a temporary roof or secured plastic sheeting or tarp.
- ❑ Berm around storage areas to prevent contact with runoff.
- ❑ Plaster or other powders can create large quantities of suspended solids in runoff, which may be toxic to aquatic life and cause serious environmental harm even if the materials are inert. Store all such potentially polluting dry materials —especially open bags— under a temporary roof or inside a building, or cover securely with an impermeable tarp. By properly storing dry materials, you may also help protect air quality, as well as water quality.
- ❑ Store containers of paints, chemicals, solvents, and other hazardous materials in accordance with secondary containment regulations and under cover during rainy periods.

Cover and maintain dumpsters

Open and/or leaking dumpsters can be a source of stormwater pollution.

- ❑ Cover open dumpsters with plastic sheeting or a tarp. Secure the sheeting or tarp around the outside of the dumpster. If your dumpster has a cover, close it.
- ❑ If a dumpster is leaking, contain and collect leaking material. Return the dumpster to the leasing company for repair/exchange.
- ❑ Do not clean dumpsters on-site. Return to leasing company for periodic cleaning, if necessary.

Collect and properly dispose of paint removal wastes

Paint removal wastes include chemical paint stripping residues, paint chips and dust, sand blasting material and wash water. These wastes contain chemicals that are harmful to the wildlife in our creeks and the water bodies they flow to. Keep all paint wastes away from the gutter, street, and storm drains.

- ❑ Non-hazardous paint chips and dust from dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash. Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyl tin must be disposed of as a hazardous waste.
- ❑ When stripping or cleaning building exteriors with high-pressure water, cover or berm storm drain inlets. If possible (and allowed by your local wastewater treatment plant), collect (mop or vacuum) building cleaning water and discharge to the sanitary sewer. Alternatively, discharge non-contaminated wash water onto a dirt area and spade into the soil. Be sure to shovel or sweep up any debris that remains in the gutter and dispose of as garbage.

Clean up paints, solvents, adhesives, and cleaning solutions properly

Although many paint materials can and should be recycled, liquid residues from paints, thinners, solvents, glues, and cleaning fluids are hazardous wastes. When

they are thoroughly dry, empty paint cans, used brushes, rags, absorbent materials, and drop cloths are no longer hazardous and may be disposed of as garbage.

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or creek.
- ❑ For water-based paints, paint out brushes to the extent possible and rinse to a drain leading to the sanitary sewer (i.e., indoor plumbing).
- ❑ For oil-based paints, paint out brushes to the extent possible, and filter and reuse thinners and solvents. Dispose of unusable thinners and residue as hazardous waste.
- ❑ Recycle, return to supplier or donate unwanted water-based (latex) paint. You may be able to recycle clean empty dry paint cans as metal (check with the local planning or building department for more information).
- ❑ Dried latex paint may be disposed of in the garbage.
- ❑ Unwanted paint (that is not recycled), thinners, and sludges must be disposed of as hazardous waste.
- ❑ More and more paint companies are recycling excess latex paint (check with the local planning or building department for more information).

Keep fresh concrete and cement mortars out of gutters, storm drains, and creeks

Concrete and cement-related mortars that wash into gutters and storm drains are toxic to fish and the aquatic environment.

- ❑ Locate mortar/stucco mixers inside bermed areas to avoid discharge to street or storm drains.
- ❑ Avoid mixing excess amounts of fresh concrete or cement mortar.
- ❑ Store dry and wet materials under cover, protected from rainfall and runoff.
- ❑ Wash out concrete transit mixers only in designated wash-out areas where the water will flow into settling ponds or onto dirt or stockpiles of aggregate base or sand. Pump water from settling ponds to the sanitary sewer, where allowed. Whenever possible, recycle washout by pumping back into mixers for reuse. Never dispose of washout into the street, storm drains, drainage ditches, or creeks.
- ❑ Whenever possible, return contents of mixer barrel to the yard for recycling. Dispose of small amounts of excess concrete, grout, and mortar in the trash.

Service and maintain portable toilets

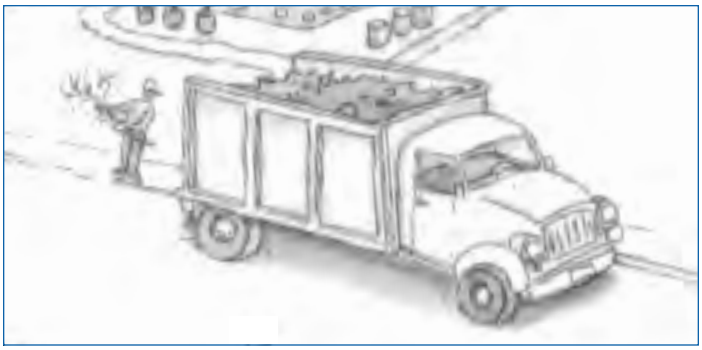
Leaking portable toilets are a potential health and environmental hazard.

- ❑ Inspect portable toilets for leaks.
- ❑ Be sure the leasing company adequately maintains, promptly repairs, and replaces units as needed.
- ❑ The leasing company must have a permit to dispose of waste to the sanitary sewer.
- ❑ Do not place on or near storm drain inlets.

Dispose of cleared vegetation properly

Cleared vegetation, tree trimmings, and other plant material can cause environmental damage if it gets into creeks. Such “organic” material requires large quantities of oxygen to decompose, which reduces the oxygen available for fish and other aquatic life.

- ❑ Do not dispose of plant material in a creek or drainage facility or leave it in a roadway where it can clog storm drain inlets.
- ❑ Avoid disposal of plant material in trash dumpsters or mixing it with other wastes. Compost plant material or take it to a landfill or other facility that composts yard waste (check with the local planning or building department for more information).



Recycle yard waste and tree prunings at a landfill that chips and composts plant material.

Demolition Waste Management

Make sure all demolition waste is properly disposed of

Demolition debris that is left in the street or pushed over a bank into a creek bed or drainage facility causes serious problems for flood control, storm drain maintenance, and the health of our environment. Different types of materials have different disposal requirements or recycling options.

- ❑ Materials that can be recycled from demolition projects include: metal framing, wood, concrete, asphalt, and plate glass.
- ❑ Materials that can be salvaged for reuse from old structures include: doors, banisters, floorboards, windows, 2x4s, and other old, dense lumber.
- ❑ Unusable, unrecycleable debris should be confined to dumpsters, covered at night and during wet weather, and taken to a landfill for disposal.
- ❑ Hazardous debris such as asbestos must be handled in accordance with specific laws and regulations and disposed of as a hazardous waste. For more information of asbestos handling and disposal regulations, contact the Bay Area Air Quality Management District.
- ❑ Arrange for an adequate debris disposal schedule to ensure that dumpsters do not overflow.
- ❑ Most local planning or building departments have lists of recycling and disposal services for construction and demolition debris.

Roadwork and Pavement Construction

Plan roadwork and pavement construction to avoid stormwater pollution

Road paving, surfacing, and asphalt removal happen right in the street, with numerous opportunities for stormwater pollution from the asphalt mix, saw-cut slurry, or excavated material. Properly proportioned asphalt mix and well-compacted pavement avoid a host of water pollution problems.

- ❑ Apply concrete, asphalt, and seal coat during dry weather to prevent contaminants from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when paving or applying seal coat, slurry seal, fog seal, etc.
- ❑ Always park paving machines over drip pans or absorbent materials, since they tend to drip continuously.
- ❑ When making saw-cuts in pavement, use as little water as possible. Cover each catch basin completely with filter fabric during the sawing operation and contain the slurry by placing sand/gravel bags around the catch basin. After the liquid drains or evaporates, shovel or vacuum the slurry residue from the pavement or gutter and remove from site.
- ❑ Wash down exposed aggregate concrete only when the wash water can: (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- ❑ Allow aggregate rinse to settle, and pump the water to the sanitary sewer if allowed by your local wastewater authority.
- ❑ Never wash sweepings from exposed aggregate concrete into a street or storm drain. Collect and return to aggregate base stockpile, or dispose with trash.
- ❑ Recycle broken concrete and asphalt (check with the local planning or building department for more information).

Contaminated Ponded Stormwater, Groundwater, and Soil Guidance

Look for ponded stormwater, groundwater, and/or soil contamination

Ponded stormwater, groundwater and soil may become contaminated if exposed to hazardous materials. If any of the following conditions apply, contaminated ponded stormwater, groundwater, and/or soil may be present and pose a potential health and environmental hazard:

- ❑ The project site is in an area of previous commercial/industrial activity;
- ❑ There is a history of illegal dumping on the site or adjacent properties;
- ❑ The construction site is subject to a Superfund, state, or local cleanup order;
- ❑ Ponded stormwater, groundwater and/or water generated by dewatering exhibits an oily-sheen and/or smells of petroleum;
- ❑ Soil appears discolored, smells of petroleum and/or exhibits other unusual properties;
- ❑ Abandoned underground storage tanks, drums, or other buried debris are encountered during construction activities; or
- ❑ Spills have occurred on the site or adjacent properties involving pesticides and herbicides; fertilizers; detergents; plaster and other products; petroleum products such as fuel, oil, and grease; or other hazardous chemicals such as acids, lime, glues, paints, solvents, and curing compounds.

Take appropriate action

Ponded stormwater, groundwater, or water generated by dewatering that is contaminated cannot be discharged to a street, gutter, or storm drain. If contamination is suspected, the water should be contained and held for testing. Call the appropriate local agency and/or the Regional Water Quality Control Board for further guidance (See reference list on the back cover of this booklet for more information).

Remember: The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Pollution Control Agencies and Sources of Information

Storm water quality management programs

Alameda Countywide Clean Water Program
951 Turner Court, Hayward, CA 94545
(510) 670-5543
www.cleanwaterprogram.com

Contra Costa Clean Water Program
255 Glacier Drive, Martinez, CA 94553-4897 (925) 313-2392
(800) NO DUMPING
www.cccleanwater.org

Fairfield-Suisun Urban Runoff Management Program
1010 Chadbourne Road
Fairfield, CA 94534 (707) 429-8930

Marin County Stormwater Pollution Prevention Program
3501 Civic Center Drive, Room 304,
San Rafael, CA 94903 (415) 499-6528
www.mcstoppp.org

San Francisco Stormwater Management Program
3801 3rd Street, Suite 600
San Francisco, CA 94124 (415) 695-7310
http://stormwater.sfwater.org

San Mateo Countywide Stormwater Pollution Prevention Program
555 County Center, Fifth Floor
Redwood City, CA 94063
(650) 363-4305
www.flowstobay.org

Santa Clara Valley Urban Runoff Pollution Prevention Program
699 Town & Country Village
Sunnyvale, CA 94086 (800) 794-2482
www.scvurppp.org

Sonoma County Water Agency
2150 West College Avenue
Santa Rosa, CA 95401
(707) 526-5370
www.scwa.org

Vallejo Sanitation and Flood Control District
450 Ryder Street, Vallejo, CA 94590
(707) 644-8949
www.vsfcd.com

Bay Area Stormwater Management Agencies Association (BASMAA)
1515 Clay Street, Suite 1400,
Oakland, CA 94612 (510) 622-2326
(888)BayWise www.basmaa.org

Agencies to call in the event of a spill

You are required by law to report all significant releases or suspected significant releases of hazardous materials, including oil.

To report a spill, call the following agencies:

1. Dial 911 or your local emergency response number.

2. Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

For spills of "Federal Reportable Quantities" of oil, chemicals, or other hazardous materials to land, air, or water, notify the National Response Center (800-424-8802). If you are not sure whether the spill is of a "reportable quantity," call the federal Environmental Protection Agency (800) 424-9340 for clarification.

For further information, see *California Hazardous Material Spill/ Release Notification Guidance*
(State Office of Emergency Services, Hazardous Materials Division).

Agencies to call if you find or suspect contaminated soil or groundwater

Regional Water Quality Control Board:

San Francisco Bay Region
(510) 622-2300

Central Valley Region
(916) 255-3000

California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC)
(510) 540-3732

Documents and available resources

From State Water Resources Control Board (SWRCB)
(916) 341-5537
www.swrcb.ca.gov

General Construction Activity Storm Water Permit

From Friends of the San Francisco Estuary
(510) 622-2465
www.abag.ca.gov/bayarea/sfep

Field Manual

Guidelines for Construction Projects

Hold On to Your Dirt – Video

Keep it Clean – Video

From Association of Bay Area Governments (ABAG)
(510) 464-7900
www.abag.ca.gov

Manual of Standards for Erosion and Sediment Control Measures

From Cal EPA, DTSC
(916) 322-3670
www.dtsc.ca.gov

Waste Minimization for the Building Construction Industry - Fact Sheet

From California Stormwater Quality Association (CASQA)
www.cabmphandooks.com

Stormwater Best Management Practice Handbook – Construction

THANKS

BASMAA adapted this booklet from one originally developed and generously shared by the Santa Clara Valley Nonpoint Source Pollution Control Program.

Illustrations by John Finger

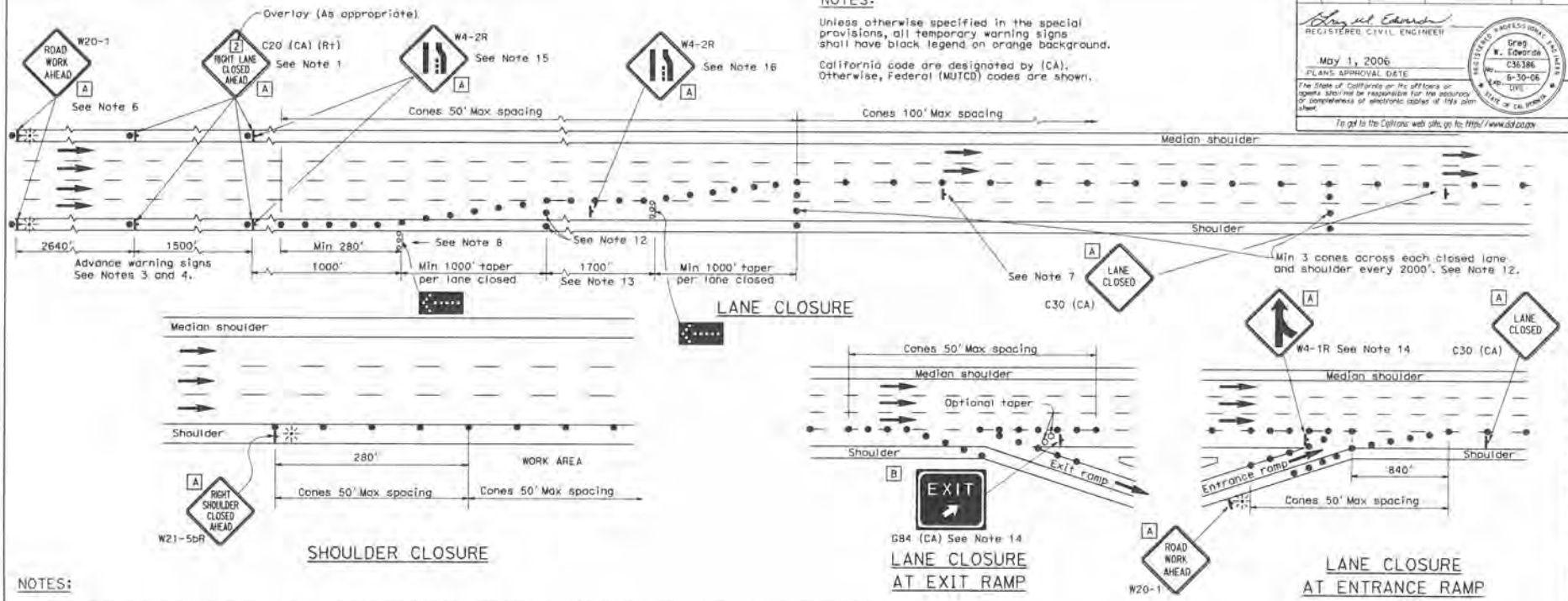
© 2004 Bay Area Stormwater Management Agencies Association

Printed on Recycled Paper

APPENDIX D
Standard Plans – Traffic

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
May 1, 2006
PLANS APPROVAL DATE
Greg W. Edwards C36386 6-30-06 CIVIL STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
To get to the California web site, go to http://www.dot.ca.gov



NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

- Traffic Cone
- Traffic Cone (optional taper)
- Temporary Sign
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Direction of Travel
- Portable Flashing Beacon

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

T10

2006 STANDARD PLAN T10

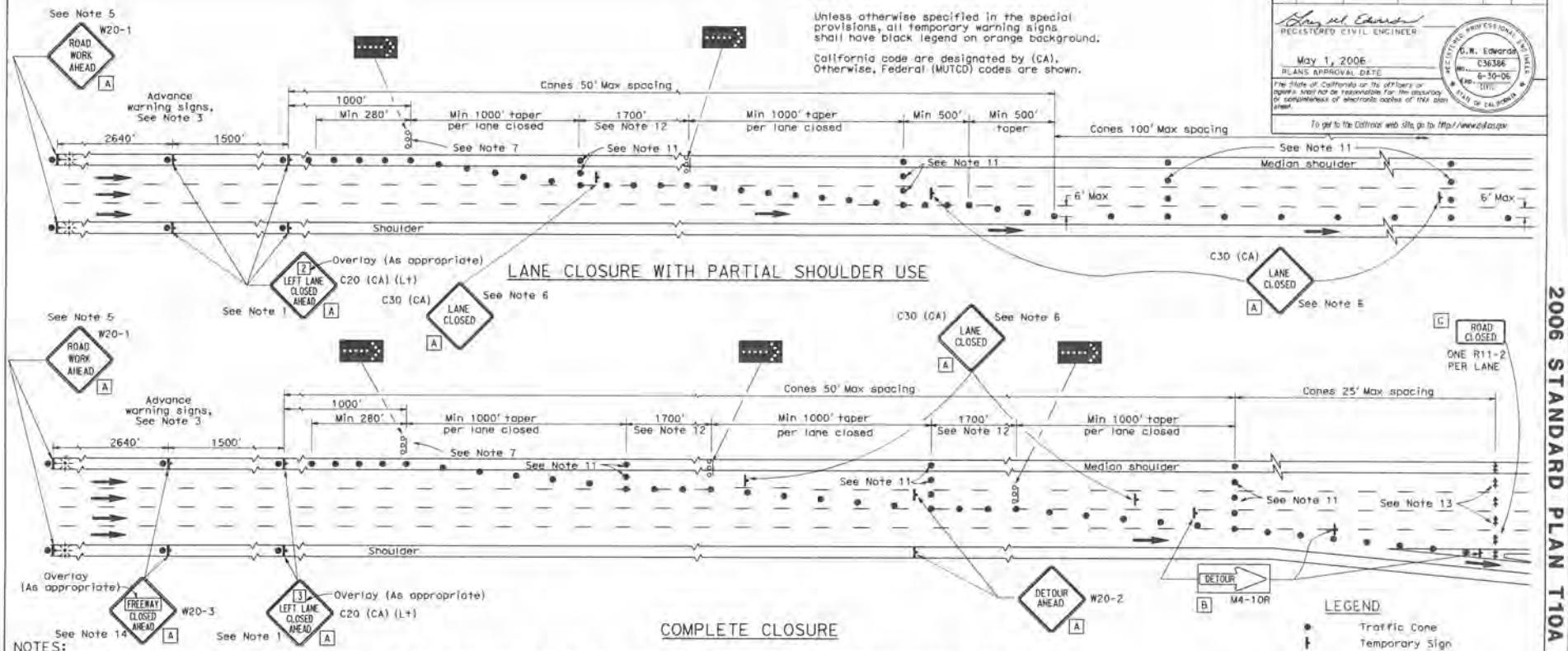
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
May 1, 2006
PLANS APPROVAL DATE
G.W. Edwards C36386 6-30-06 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
To get to the Caltrans web site, go to http://www.dot.ca.gov

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE WITH PARTIAL SHOULDER USE

COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___MILES", use a C20 (CA) sign for the first advance warning sign.
6. Place a C30 (CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
12. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
13. A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

- Traffic Cone
- Temporary Sign
- Barricade
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Direction of Travel
- Portable Flashing Beacon

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

T10A

2006 STANDARD PLAN T10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

Greg W. Edwards
C36386
6-30-06
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the California web site, go to http://www.dot.ca.gov

TYPICAL LANE CLOSURE

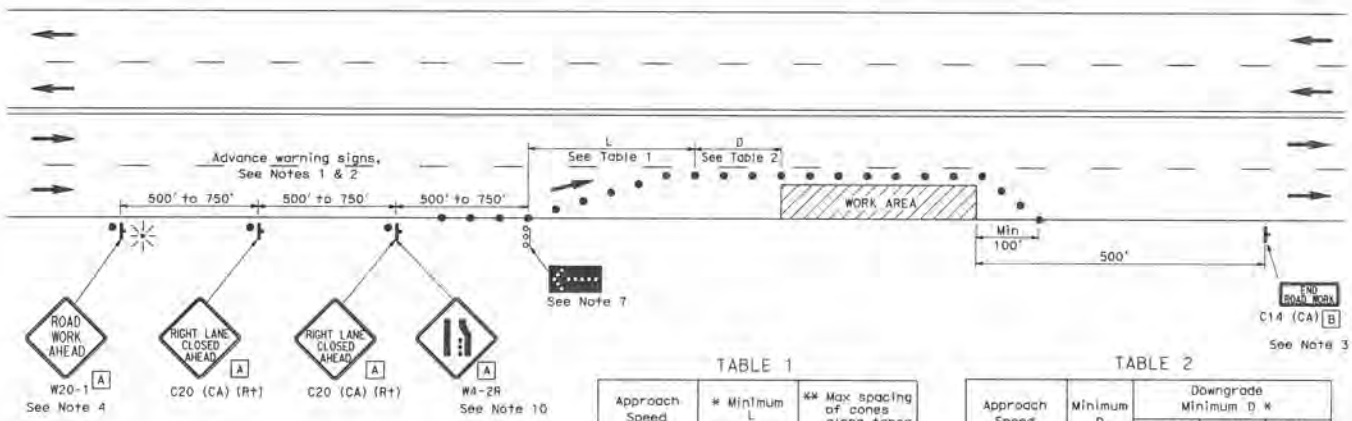


TABLE 1

Approach Speed	* Minimum L	** Max spacing of cones along taper
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	See Note 9	

* Use L for lane widths less than or equal to 12'.
** See Note 8.

TABLE 2

Approach Speed	Minimum D	Downgrade Minimum D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 and below	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
Over 50	See Note 9			

* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

LEGEND

- Traffic Cone
- Temporary Sign
- Direction of Travel
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Portable Flashing Beacon

SIGN PANEL SIZE (Min)

A 36" x 36"
B 36" x 18"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

T11

2006 STANDARD PLAN T11

LEGEND

- Traffic Cone
- Temporary Sign
- Direction of Travel
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Portable Flashing Beacon

TABLE 1

Approach Speed	* Minimum L	** Max spacing of cones along taper
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	See Note 11	

* Use L for lane widths less than or equal to 12'.
** See Note 10.

TABLE 2

Approach Speed	Minimum D	Downgrade Minimum D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 and below	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
Over 50	See Note 11			

* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

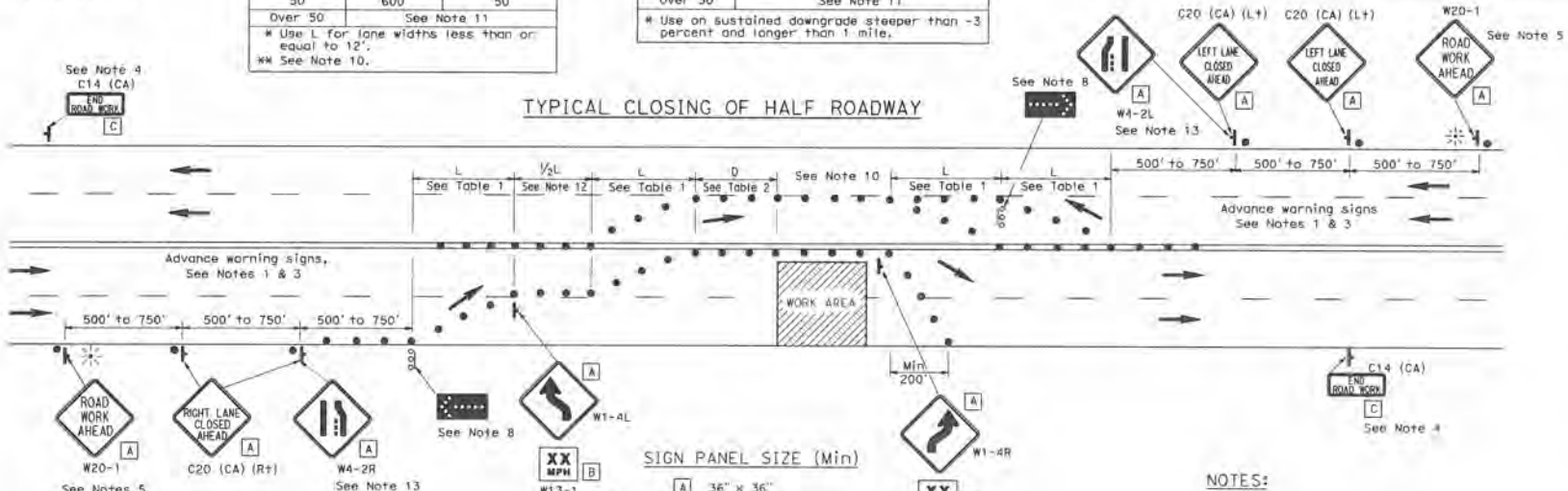
May 1, 2006
PLANS APPROVAL DATE

Greg W. Edwards C36386 6-30-06 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this cover sheet

To get to the California web site go to http://www.dot.ca.gov

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

A	36" x 36"
B	24" x 24"
C	36" x 18"

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

T12

2006 STANDARD PLAN T12

DIST	COUNTY	ROUTE	POST MILES: TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

Greg W. Edwards C36386 6-30-06 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

For State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

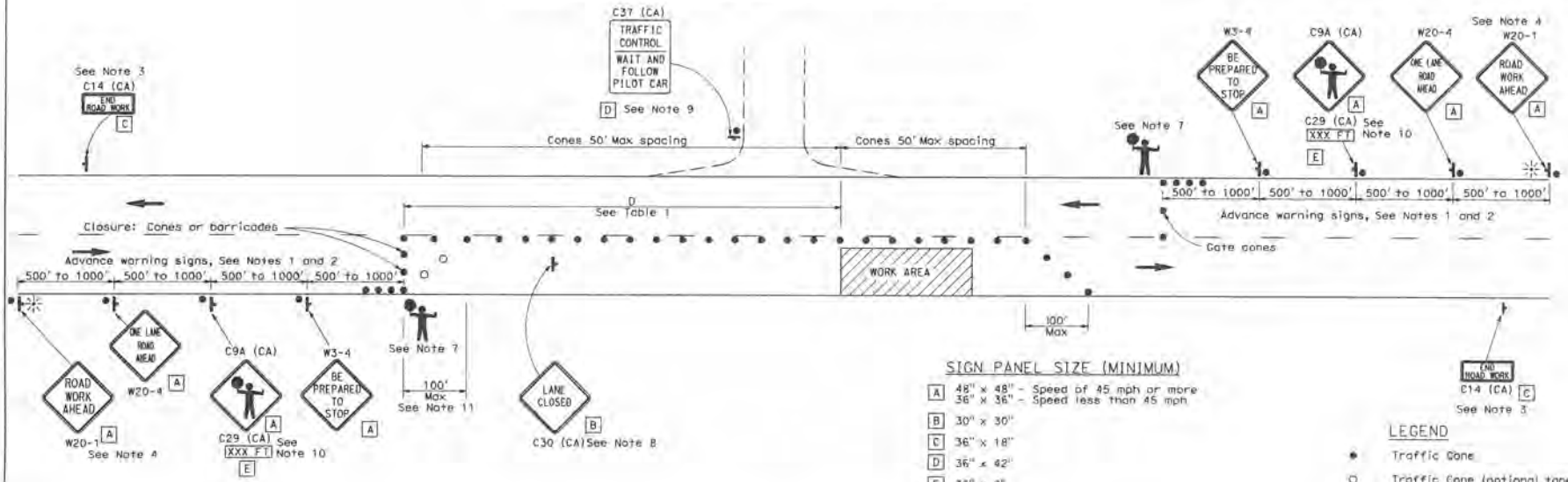
To get to the Caltrans web site, go to http://www.dot.ca.gov

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - Speed of 45 mph or more
  36" x 36" - Speed less than 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

LEGEND

- Traffic Cone
- Traffic Cone (optional taper)
- Temporary Sign
- Direction of Travel
- Portable Flashing Beacon
- Flagger

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

TABLE 1

Approach Speed	Minimum D	Downgrade Minimum D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 and below	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

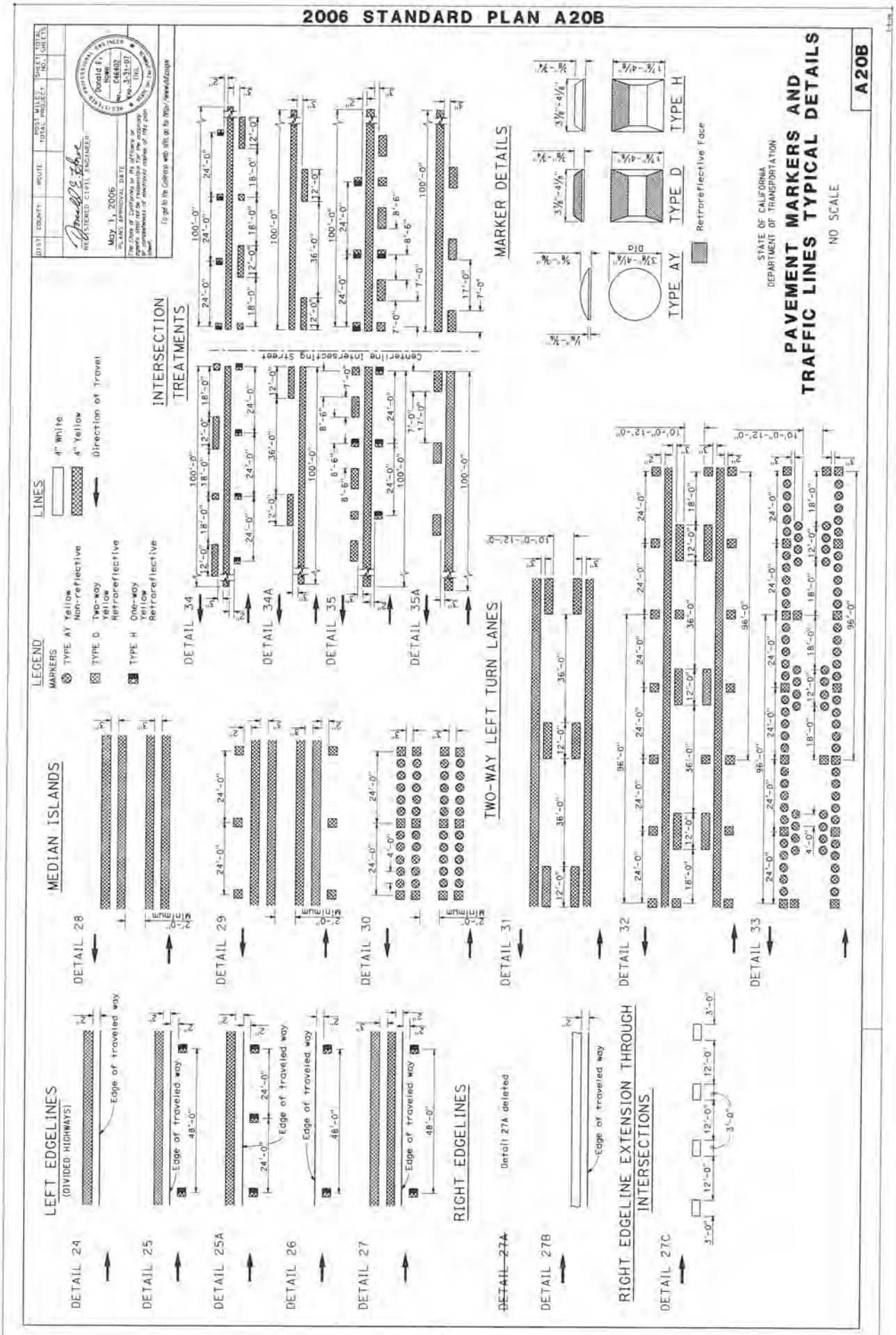
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

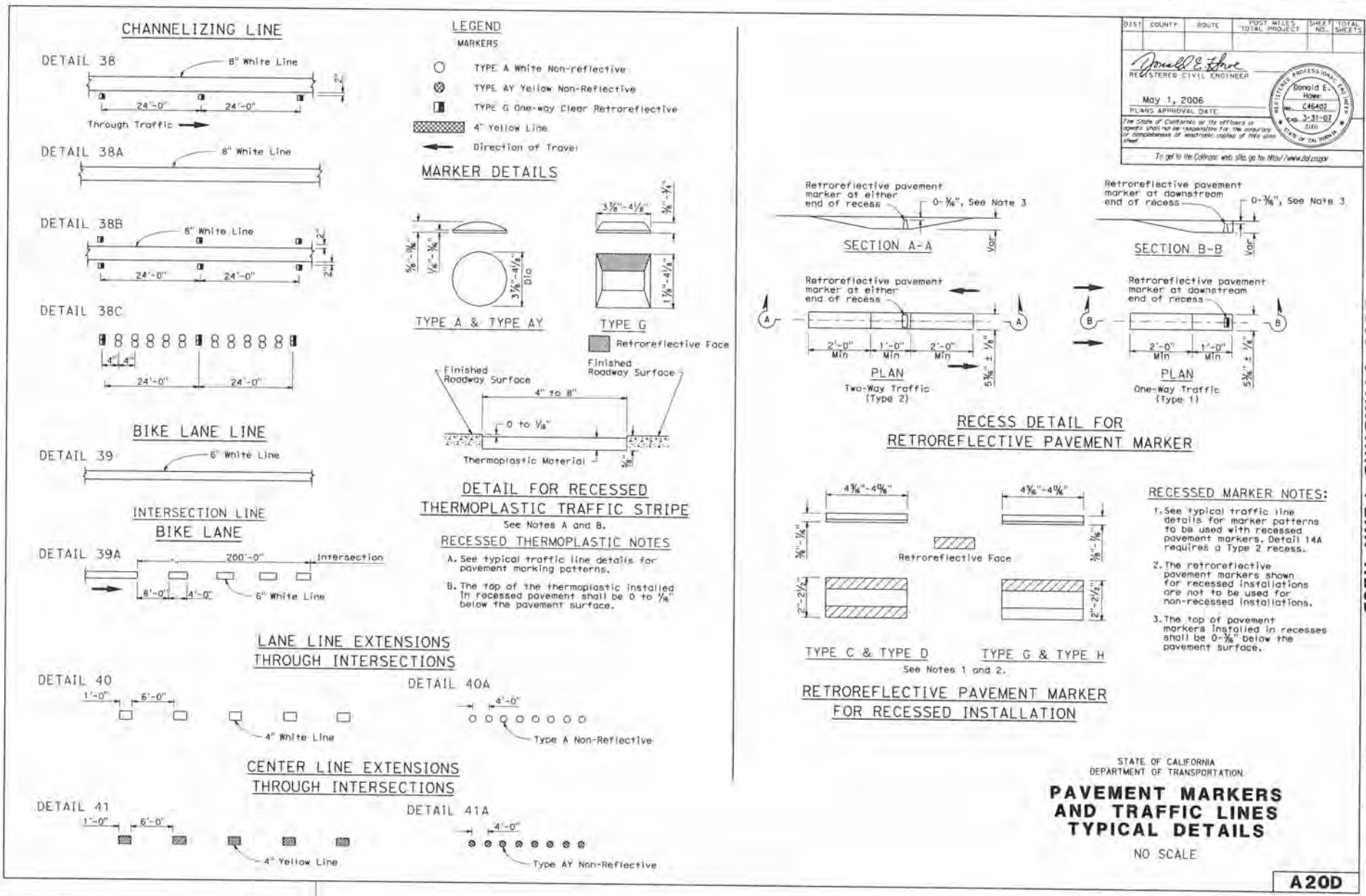
TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

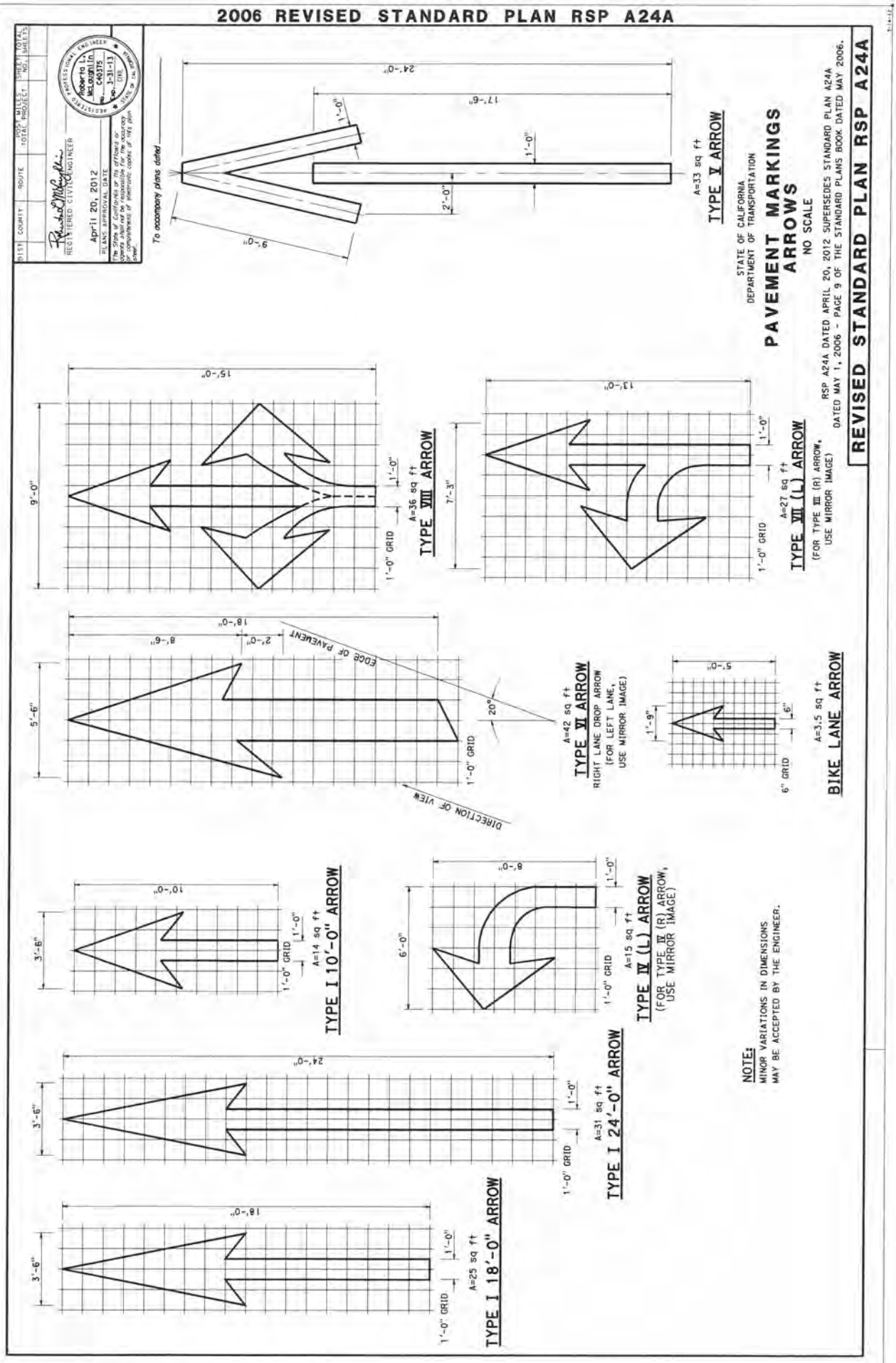
NO SCALE

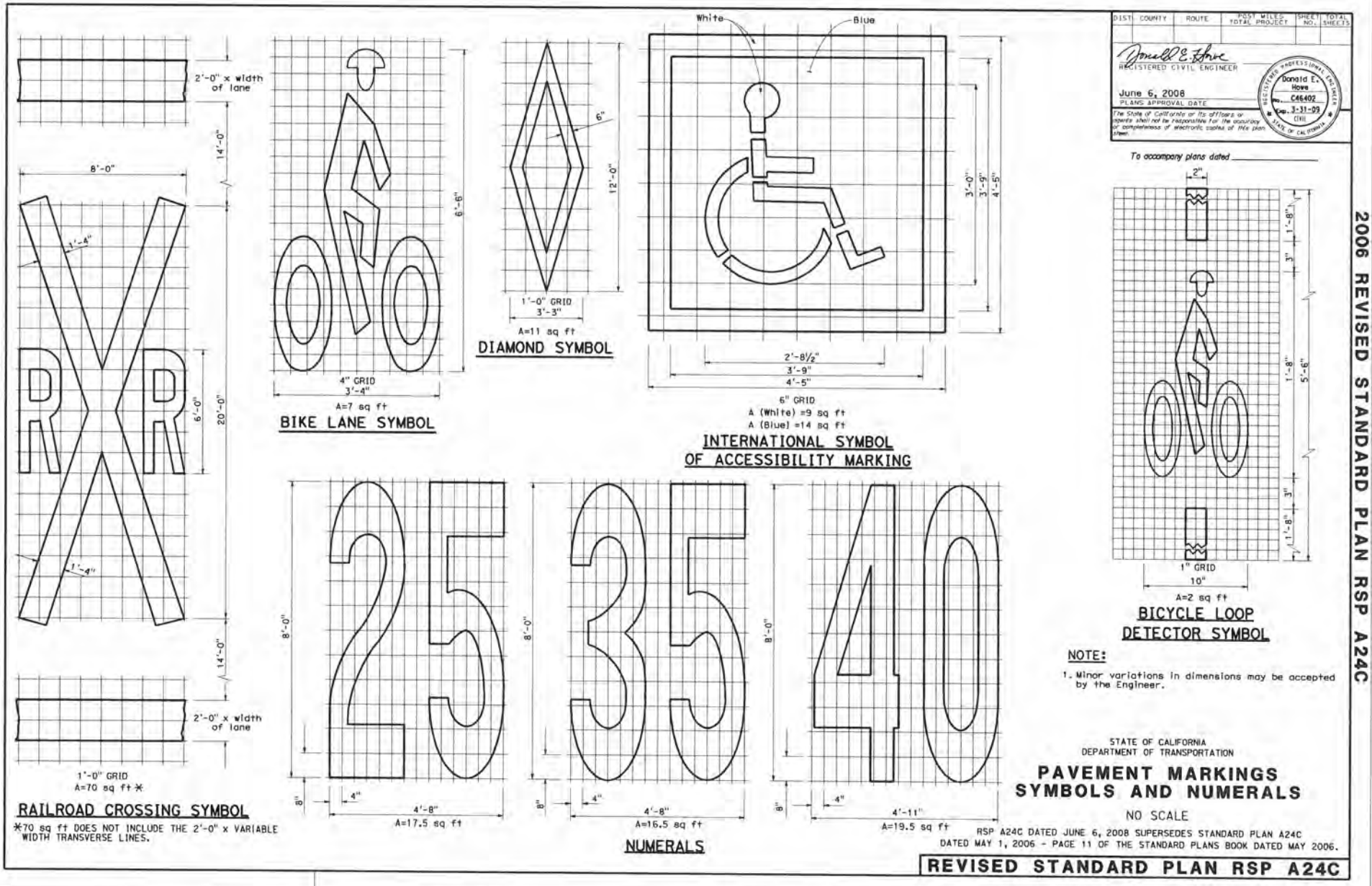
T13

2006 STANDARD PLAN T13

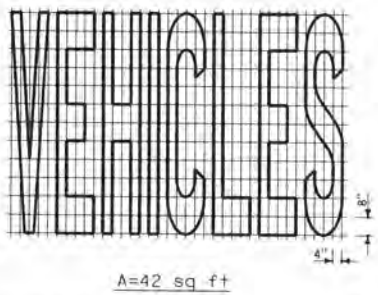

2006 STANDARD PLAN A20B
PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS
A20B
NO SCALE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
May 1, 2006
PLANS APPROVAL DATE
REGISTERED CIVIL ENGINEER
LEGEND
MARKERS
TYPE AY Yellow Non-reflective
TYPE D Two-way Yellow Retroreflective
TYPE H One-way Yellow Retroreflective
LINES
4" White
4" Yellow
Direction of Travel
MEDIAN ISLANDS
LEFT EDGELINES
(DIVIDED HIGHWAYS)
Edge of traveled way
RIGHT EDGELINES
Detail 27A deleted
RIGHT EDGELINE EXTENSION THROUGH INTERSECTIONS
INTERSECTION TREATMENTS
Centerline Intersecting Street
TWO-WAY LEFT TURN LANES
MARKER DETAILS
TYPE AY
TYPE D
TYPE H
Retroreflective Face
DETAIL 24
DETAIL 25
DETAIL 25A
DETAIL 26
DETAIL 27
DETAIL 27A
DETAIL 27B
DETAIL 27C
DETAIL 28
DETAIL 29
DETAIL 30
DETAIL 31
DETAIL 32
DETAIL 33
DETAIL 34
DETAIL 34A
DETAIL 35
DETAIL 35A


CHANNELIZING LINE
DETAIL 38
8" White Line
24'-0"
24'-0"
Through Traffic
DETAIL 38A
8" White Line
DETAIL 38B
8" White Line
24'-0"
24'-0"
DETAIL 38C
4"
4"
24'-0"
24'-0"
BIKE LANE LINE
DETAIL 39
6" White Line
INTERSECTION LINE
BIKE LANE
DETAIL 39A
200'-0"
Intersection
8'-0"
4'-0"
6" White Line
LANE LINE EXTENSIONS
THROUGH INTERSECTIONS
DETAIL 40
1'-0"
6'-0"
4" White Line
DETAIL 40A
4'-0"
Type A Non-Reflective
CENTER LINE EXTENSIONS
THROUGH INTERSECTIONS
DETAIL 41
1'-0"
6'-0"
4" Yellow Line
DETAIL 41A
4'-0"
Type AY Non-Reflective
LEGEND
MARKERS
TYPE A White Non-reflective
TYPE AY Yellow Non-Reflective
TYPE G One-way Clear Retroreflective
4" Yellow Line
Direction of Travel
MARKER DETAILS
3⅞"-4⅛" Dia
TYPE A & TYPE AY
TYPE G
Retroreflective Face
Finished Roadway Surface
4" to 8"
0 to ⅛"
Thermoplastic Material
DETAIL FOR RECESSED
THERMOPLASTIC TRAFFIC STRIPE
See Notes A and B.
RECESSED THERMOPLASTIC NOTES
A. See typical traffic line details for pavement marking patterns.
B. The top of the thermoplastic installed in recessed pavement shall be 0 to ⅛" below the pavement surface.
Retroreflective pavement marker at either end of recess
0-⅜", See Note 3
SECTION A-A
Var
Retroreflective pavement marker at downstream end of recess
SECTION B-B
2'-0" Min
1'-0" Min
PLAN
Two-Way Traffic (Type 2)
One-Way Traffic (Type 1)
RECESS DETAIL FOR
RETROREFLECTIVE PAVEMENT MARKER
4⅜"-4⅝"
Retroreflective Face
TYPE C & TYPE D
TYPE G & TYPE H
See Notes 1 and 2.
RETROREFLECTIVE PAVEMENT MARKER
FOR RECESSED INSTALLATION
RECESSED MARKER NOTES:
1. See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
2. The retroreflective pavement markers shown for recessed installations are not to be used for non-recessed installations.
3. The top of pavement markers installed in recesses shall be 0-⅜" below the pavement surface.
DIST
COUNTY
ROUTE
POST MILES TOTAL PROJECT
SHEET NO.
TOTAL SHEETS
REGISTERED CIVIL ENGINEER
May 1, 2006
PLANS APPROVAL DATE
Donald E. Howe
No. C46402
Exp. 3-31-07
Civil
STATE OF CALIFORNIA
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKERS
AND TRAFFIC LINES
TYPICAL DETAILS
NO SCALE
2006 STANDARD PLAN A20D
A20D

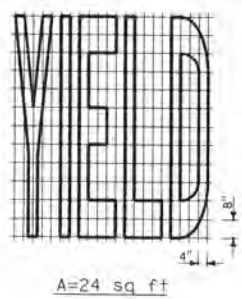

2006 REVISED STANDARD PLAN RSP A24A
DIST. COUNTY ROUTE POST MILES TOTAL PROJECT SHEET NO. TOTAL SHEETS
REGISTERED CIVIL ENGINEER
April 20, 2012
PLANS APPROVAL DATE
REGISTERED PROFESSIONAL ENGINEER
Roberto L. McLoughlin
No. C40315
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
To accompany plans dated
24'-0"
17'-6"
1'-0"
1'-0"
2'-0"
9'-0"
A=33 sq ft
TYPE V ARROW
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
ARROWS
NO SCALE
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A
DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.
REVISED STANDARD PLAN RSP A24A
15'-0"
9'-0"
1'-0"
1'-0" GRID
A=36 sq ft
TYPE VIII ARROW
13'-0"
7'-3"
1'-0"
1'-0" GRID
A=27 sq ft
TYPE VII (L) ARROW
(FOR TYPE III (R) ARROW, USE MIRROR IMAGE)
18'-0"
8'-6"
2'-0"
EDGE OF PAVEMENT
5'-6"
20°
1'-0" GRID
DIRECTION OF VIEW
A=42 sq ft
TYPE VI ARROW
RIGHT LANE DROP ARROW
(FOR LEFT LANE, USE MIRROR IMAGE)
5'-0"
1'-9"
6"
6" GRID
A=3.5 sq ft
BIKE LANE ARROW
10'-0"
3'-6"
1'-0"
1'-0" GRID
A=14 sq ft
TYPE I 10'-0" ARROW
8'-0"
6'-0"
1'-0"
1'-0" GRID
A=15 sq ft
TYPE IV (L) ARROW
(FOR TYPE IV (R) ARROW, USE MIRROR IMAGE)
24'-0"
3'-6"
1'-0"
1'-0" GRID
A=31 sq ft
TYPE I 24'-0" ARROW
18'-0"
3'-6"
1'-0"
1'-0" GRID
A=25 sq ft
TYPE I 18'-0" ARROW
NOTE:
MINOR VARIATIONS IN DIMENSIONS
MAY BE ACCEPTED BY THE ENGINEER.


2'-0" x width of lane
14'-0"
8'-0"
3'-4"
1'-4"
6'-0"
20'-0"
14'-0"
2'-0" x width of lane
1'-0" GRID
A=70 sq ft *
RAILROAD CROSSING SYMBOL
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.
6'-6"
4" GRID
3'-4"
A=7 sq ft
BIKE LANE SYMBOL
6"
12'-0"
1'-0" GRID
3'-3"
A=11 sq ft
DIAMOND SYMBOL
White
Blue
3'-0"
3'-9"
4'-5"
2'-8½"
3'-9"
4'-5"
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft
INTERNATIONAL SYMBOL
OF ACCESSIBILITY MARKING
8'-0"
8"
4"
4'-8"
A=17.5 sq ft
8'-0"
8"
4"
4'-8"
A=16.5 sq ft
8'-0"
8"
4"
4'-11"
A=19.5 sq ft
NUMERALS
DIST. COUNTY ROUTE POST MILES TOTAL PROJECT SHEET NO. TOTAL SHEETS
REGISTERED CIVIL ENGINEER
June 6, 2008
PLANS APPROVAL DATE
Donald E. Howe
C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
To accompany plans dated
2"
1'-8"
3"
1'-8"
5'-9"
3"
1'-8"
1" GRID
10"
A=2 sq ft
BICYCLE LOOP
DETECTOR SYMBOL
NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
SYMBOLS AND NUMERALS
NO SCALE
RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C
DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.
REVISED STANDARD PLAN RSP A24C
2006 REVISED STANDARD PLAN RSP A24C

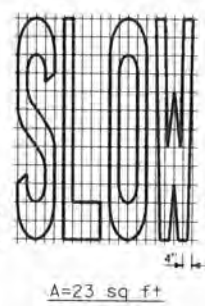
A=43 sq ft



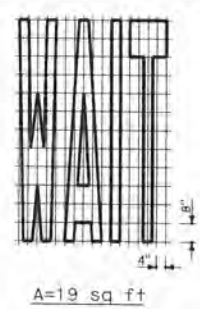
A=42 sq ft



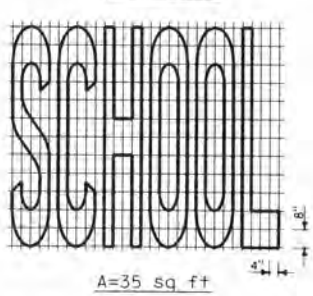
A=24 sq ft



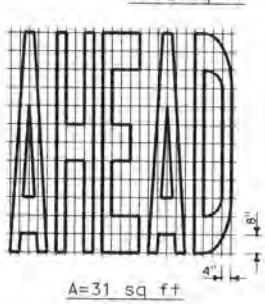
A=23 sq ft



A=19 sq ft

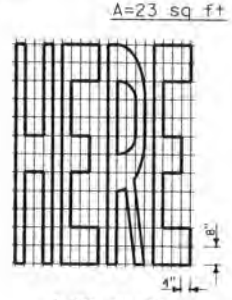


A=35 sq ft

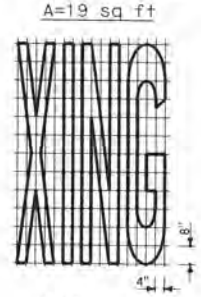


A=31 sq ft

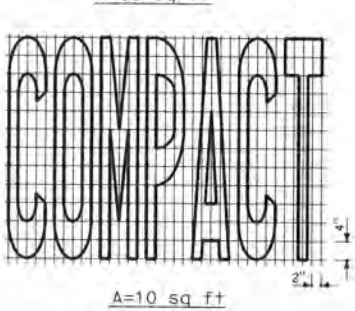
A=24 sq ft



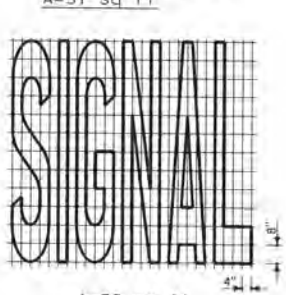
A=26 sq ft



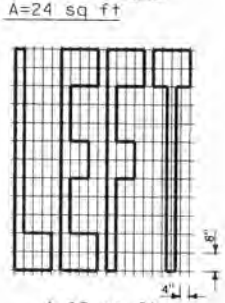
A=21 sq ft



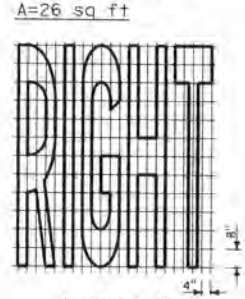
A=10 sq ft



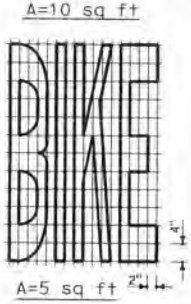
A=32 sq ft



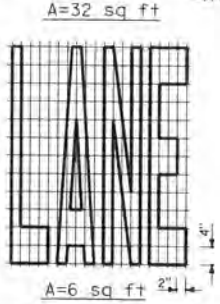
A=19 sq ft



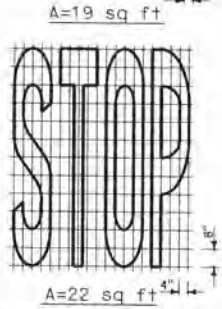
A=26 sq ft



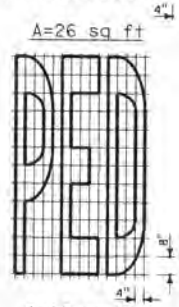
A=5 sq ft



A=6 sq ft



A=22 sq ft



A=18 sq ft

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald E. Howe No. C46402 Exp. 3-31-07 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To go to the Caltrans web site, go to: http://www.dot.ca.gov

2006 STANDARD PLAN A24D

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

WORD MARKINGS							
ITEM	sq ft	ITEM	sq ft	ITEM	sq ft	ITEM	sq ft
XING	21	YIELD	24	BIKE	5	PED	18
AHEAD	31	SCHOOL	35	SLOW	23	COMPACT	10
WAIT	19	SIGNAL	32	STOP	22	RUNAWAY	43
LANE	6	TURN	24	LEFT	19	VEHICLES	42
RIGHT	26	HERE	26				

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS

NO SCALE

A24D

9-19-05

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

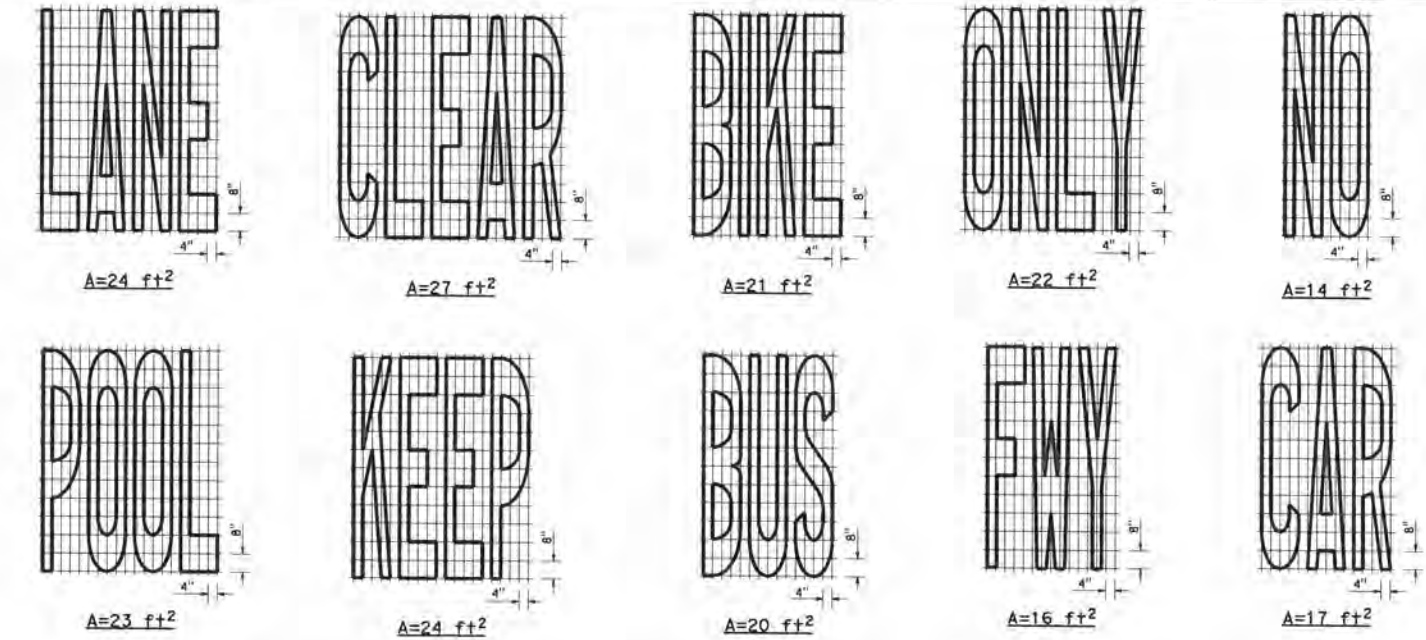
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

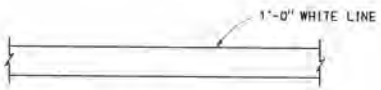
REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin C40375 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

To accompany plans dated _____

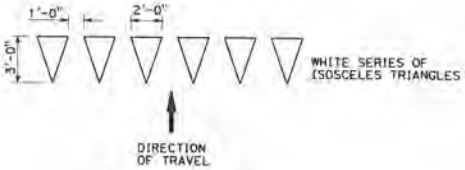


WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E DATED MAY 1, 2006 - PAGE 13 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24E

2006 REVISED STANDARD PLAN RSP A24E