



CONSENT CALENDAR

Agenda Item # 2

AGENDA REPORT SUMMARY

Meeting Date: February 23, 2021

Subject: Construction Contract Award: Annual Street Striping Project TS-01003

Prepared by: Gaku Watanabe, Assistant Engineer

Reviewed by: Jim Sandoval, Engineering Services Director

Approved by: Brad Kilger, Interim City Manager

Attachment(s):

1. Bid Summary dated January 20, 2021
2. Project Striping Layout Plan

Initiated by:

City Council CIP Project TS-01003

Previous Council Consideration:

None

Fiscal Impact:

Based on the lowest responsive and responsible bidder, the estimated project costs are:

Annual Street Striping Project Total Cost

Project Item	Project Budget
Construction	\$ 157,300.00
Construction Contingency (15%)	\$ 23,595.00
Printing/Advertising/Mailing/Misc.	\$ 5,000.00
Estimated Total Cost	\$ 185,895.00

Breakdown of funds to be used:

Funding Source	Amount
Remaining Project Budget for TS-01003 FY18-19	\$ 90,727.57
Approved Project Budget for TS-01003 FY19-20	\$ 100,000.00
Approved Project Budget for TS-01003 FY20-21	\$ 100,000.00
Total Project Budget	\$ 290,727.57

- Amount already included in approved budget: Yes
- Amount above budget requested: No

Reviewed By:

Interim City Manager

BK

City Attorney

JH

Deputy City Manager

JM



Subject: Construction Contract Award: Annual Street Striping Project TS-01003

Environmental Review:

Categorically Exempt pursuant to CEQA Section 15301(c) for the repair and maintenance of existing public street facilities.

Policy Question(s) for Council Consideration:

None

Summary:

- CIP Project TS-01003 is an annual project intended for preventative maintenance and upgrading of roadway striping and markings on City-maintained streets.
- On December 23, 2020, City advertised the Annual Street Striping Project.
- On January 20, 2021, City received and opened 3 bids in public session.

Staff Recommendation:

Award the Base Bid, Annual Street Striping Project to Chrisp Company and authorize the Interim City Manager to execute a contract in the amount of \$157,300.00 and up to 15% contingency on behalf of the City.

Purpose

Award the Base Bid for the Annual Street Striping Project to Chrisp Company and authorize the City Manager to execute a contract in the amount of \$157,300.00 and up to 15% contingency on behalf of the City.

Background

The Annual Street Striping Project, TS-01003, is dedicated to maintaining and updating thermoplastic striping and pavement markings on City owned streets. This project will upgrade signage and striping to improve existing bicycle facilities on Almond Avenue, Covington Road and Homestead Road.

Discussion/Analysis

On December 23, 2020, City advertised CIP Project TS-01003. On January 20, 2021, three (3) bids were received and opened in a public online session. The bid result summary is provided in Attachment 1. The lowest responsive and responsible bidder is Chrisp Company for \$157,300.00.

This project will complete the bicycle facility upgrade element along Almond Avenue, Covington Road and Homestead Road, including green bicycle lanes, a new two-way Cycle Track (Almond Ave.), and other signage and striping items. Striping elements covered by this project were reviewed and recommended for implementation by the Complete Streets Commission on January 27, 2021.

Implementation of the new Cycle Track, a two-way bike lane on the north side of Almond Avenue from San Antonio Road to Los Altos High School will formalize the bicycle commute patterns noted by Los Altos High School students and administrators as existing condition. Residents along Almond



Subject: Construction Contract Award: Annual Street Striping Project TS-01003

Avenue, including the 5 homes with direct impact on the north side of Almond Avenue between San Antonio Road and Valencia Drive, have been notified and invited to provide feedback during November 2019, August and September 2020, and January 2021 Complete Streets Commission meetings. The Complete Streets Commission, at its December 2020 meeting, recommended City staff to propose options to delineate the Cycle track from vehicle travel lane to protect cyclists from oncoming traffic.

This project will also finalize the new bike lane on Covington Road, between El Monte Avenue and Covington Elementary School. Striping layout for the bike lane was completed in summer 2020 with the Annual Street Resurfacing Project. This project will now designate this segment as a bike lane with new bike lane markings and green thermoplastic markings at conflict zones for added safety.

Public notices will be sent to residents as soon as the project is awarded by Council. Residents will be provided with information to follow project details, schedules for each area and updates on the City website. The Contractor will also be required to distribute notification letters to affected residents and post street signages at least 48-hours prior to start of work.

Options

- 1) Award the Base Bid for the Annual Street Striping Project to Chrisp Company and authorize the Interim City Manager to execute a contract in the amount of \$157,300.00 and up to a 15% contingency on behalf of the City.

Advantages: Contractor is the lowest responsive and responsible bidder. Project will upgrade signage and striping to improve existing bicycle facilities on Almond Avenue, Covington Road and Homestead Road.

Disadvantages: None

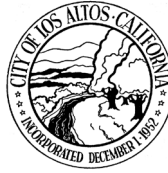
- 2) Reject all bids and re-advertise the project.

Advantages: None

Disadvantages: It is not anticipated that re-advertising the bid will result in lower bids. Upgrading of signage and striping to improve existing bicycle facilities will be delayed.

Recommendation

- 1) The staff recommends Option 1: award the Base Bid for the Annual Street Striping Project to Chrisp Company and authorize the Interim City Manager to execute a contract in the amount of \$ 157,300.00 and up to 15% contingency on behalf of the City.

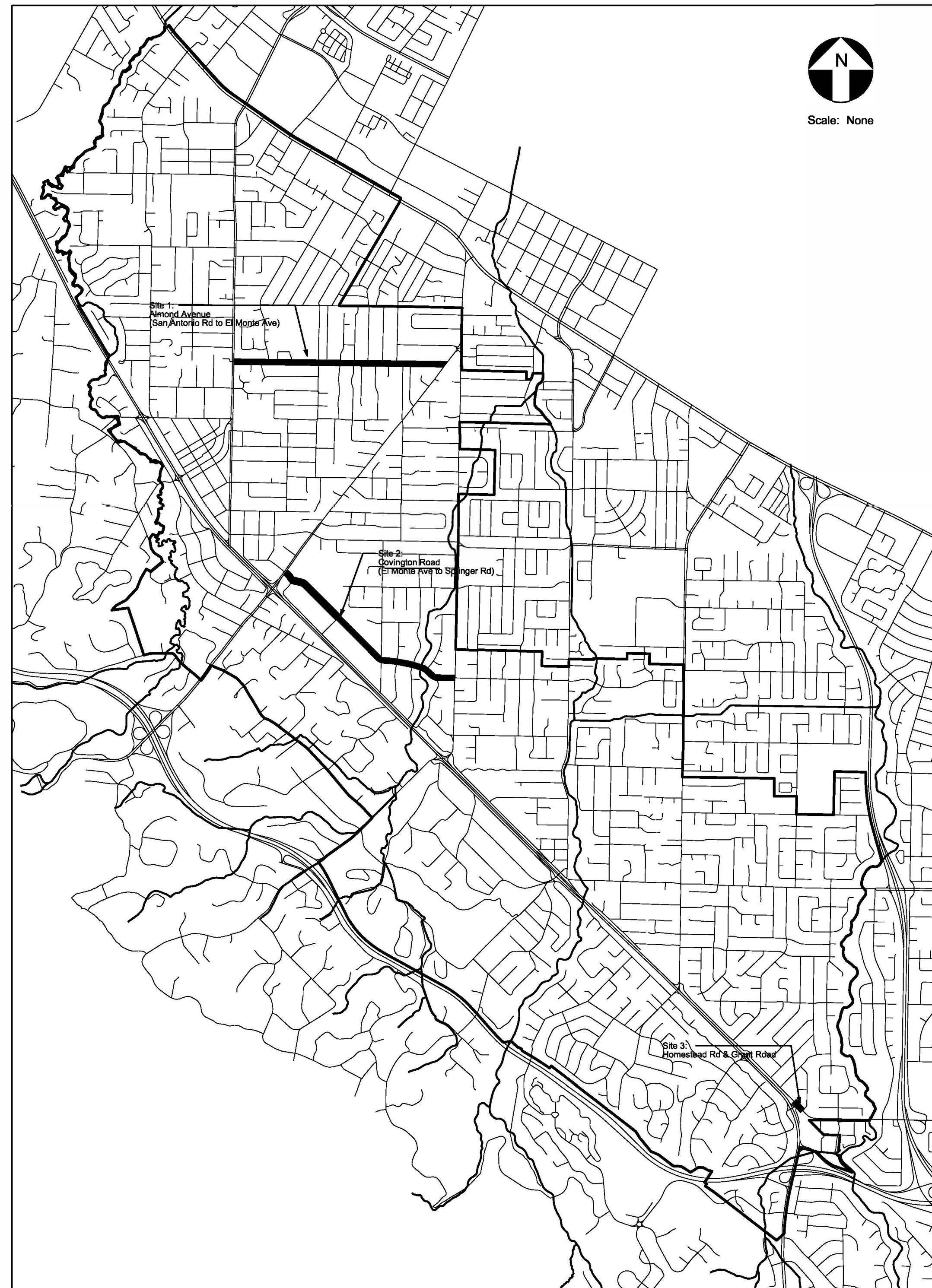


CITY OF LOS ALTOS
ANNUAL STREET STRIPING PROJECT TS-01003
BID OPENING

January 20, 2021 2:00 PM
Virtual Bid Opening via Ring Central Conference Call

CONTRACTOR	TOTAL BID
Chrisp Company	\$157,300.00
Sierra Traffic Markings	\$174,226.75
Sterndahl Enterprises	\$242,255.00

PROJECT MAP



CITY OF LOS ALTOS

Annual Street Resurfacing Striping Project No. TS-01003

WORK SCOPE:

- Installation of Roadway Markings, Striping and Signage
- Installation of Pre-Formed Thermoplastic Green Bike Lane Material
- Tree and Shrubbery Trimming
- Traffic Control

OWNER-FURNISHED MATERIALS:

- None

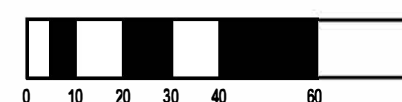
NOTES:

- Before excavating call USA (Underground Service Alert) at 811 seven (7) business days before planned work.

SHEET INDEX:

1. Title Sheet
2. Almond Avenue Signage & Striping, Page 1 of 2
3. Almond Avenue Signage & Striping, Page 2 of 2
4. Covington Road Signage & Striping Plan, Page 1 of 2
5. Covington Road Signage & Striping, Page 2 of 2
6. Homestead Rd & Grant Rd, Page 1 of 1
7. Blueprint for a Clean Bay

SCALE: 1" = 40'



VERIFY SCALE WHEN PRINTING DIGITAL FILES

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Engineer's Stamp
REGISTERED PROFESSIONAL ENGINEER
 JAVIER O. RODRIGUEZ
 TR2284
 Exp: 6-30-23
 STATE OF CALIFORNIA
 TRAFFIC

Record Drawings

Project Engineer: _____ Date: _____

Designer: _____ Date: _____

Public Works Inspector: _____ Date: _____

Public Improvements Initially Accepted by the City Council on: _____

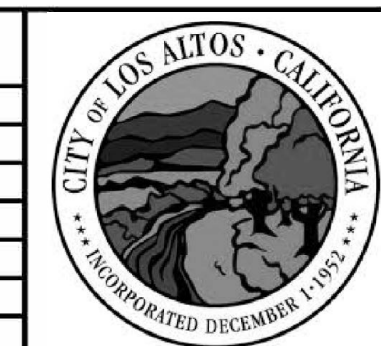
Public Improvements Initially Accepted by the City Council on: _____

DRAWN BY: J. Rodriguez Date: 12-14-20

CHECKED BY: City of Los Altos Date: 12-14-20

DESIGNED BY: J. Rodriguez Date: 12-14-20

Revisions		
NO.	DESCRIPTION	DATE



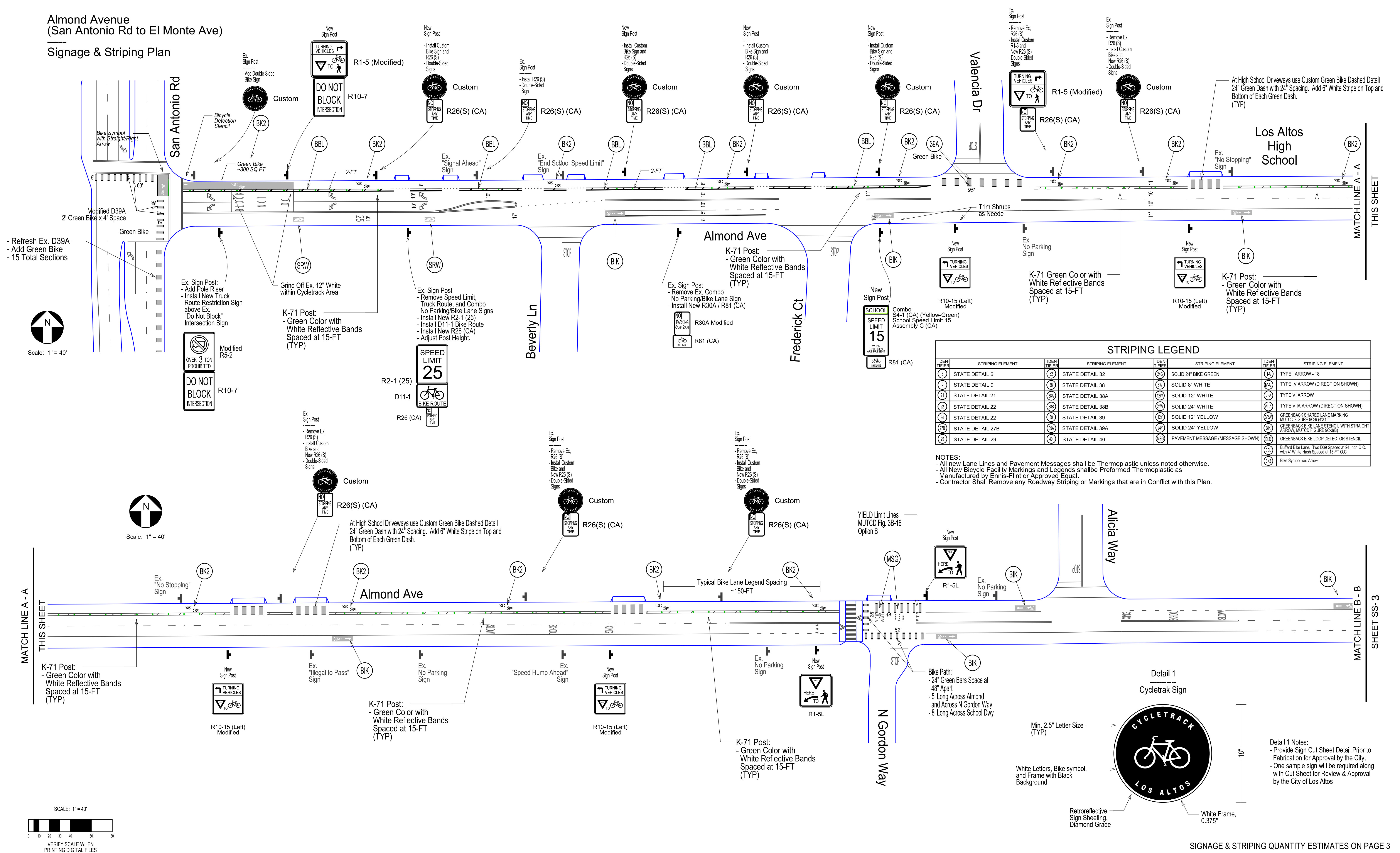
City of Los Altos
 Annual Street Resurfacing Striping
 Project No. TS-01003
 Cover Sheet

RECOMMENDED FOR BIDDING BY: _____
 DATE: _____

APPROVED FOR BIDDING BY: _____
 DATE: _____

PROJECT NO. _____
 DRAWING NO. _____
 E.P. NO. _____
 SCALE 1" = 40'
 Sheet 1

**Almond Avenue
(San Antonio Rd to El Monte Ave)**
Signage & Striping Plan



IDEN. NUMBER	STRIPING ELEMENT	IDEN. NUMBER	STRIPING ELEMENT	IDEN. NUMBER	STRIPING ELEMENT	IDEN. NUMBER	STRIPING ELEMENT
(6)	STATE DETAIL 6	(32)	STATE DETAIL 32	(26)	SOLID 24" BIKE GREEN	(44)	TYPE I ARROW - 18"
(9)	STATE DETAIL 9	(38)	STATE DETAIL 38	(01)	SOLID 8" WHITE	(14)	TYPE IV ARROW (DIRECTION SHOWN)
(21)	STATE DETAIL 21	(39A)	STATE DETAIL 39A	(02)	SOLID 12" WHITE	(14A)	TYPE VI ARROW
(22)	STATE DETAIL 22	(39B)	STATE DETAIL 39B	(03)	SOLID 24" WHITE	(14B)	TYPE VIIA ARROW (DIRECTION SHOWN)
(22)	STATE DETAIL 22	(39)	STATE DETAIL 39	(04)	SOLID 12" YELLOW	(59)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9(A)(1)
(27B)	STATE DETAIL 27B	(39A)	STATE DETAIL 39A	(05)	SOLID 24" YELLOW	(60)	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW MUTCD FIGURE 9C-3(B)
(29)	STATE DETAIL 29	(40)	STATE DETAIL 40	(MS)	PAVEMENT MESSAGE (MESSAGE SHOWN)	(61)	GREENBACK BIKE LOOP DETECTOR STENCIL

NOTES:
 - All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise.
 - All New Bicycle Facility Markings and Legends shall be Performed Thermoplastic as Manufactured by Ennis-Film or Approved Equal.
 - Contractor Shall Remove any Roadway Striping or Markings that are in Conflict with this Plan.



Detail 1 Notes:
 - Provide Sign Cut Sheet Detail Prior to Fabrication for Approval by the City.
 - One sample sign will be required along with Cut Sheet for Review & Approval by the City of Los Altos

SIGNAGE & STRIPING QUANTITY ESTIMATES ON PAGE 3

Traffic Patterns
 P.O. Box 25
 Danville, CA 94526
 O: (408) 916-8141
 www.trafficpatterns.net
 info@trafficpatterns.net

Engineer's Stamp
JAMIE O. RODRIGUEZ
 REGISTERED PROFESSIONAL ENGINEER
 TR2284
 Exp: 6-30-22
 STATE OF CALIFORNIA

Record Drawings
 Project Engineer: _____ Date: _____
 Designer: _____ Date: _____
 Public Works Inspector: _____ Date: _____
 Public Improvements Initially Accepted by the City Council on: _____

Revisions
 NO. DESCRIPTION DATE

City of Los Altos
 Annual Street Resurfacing Striping
 Project No. TS-01003
 Almond Avenue Bike Lane Improvements
 (San Antonio Road to El Monte Avenue)
 Signage & Striping Plan

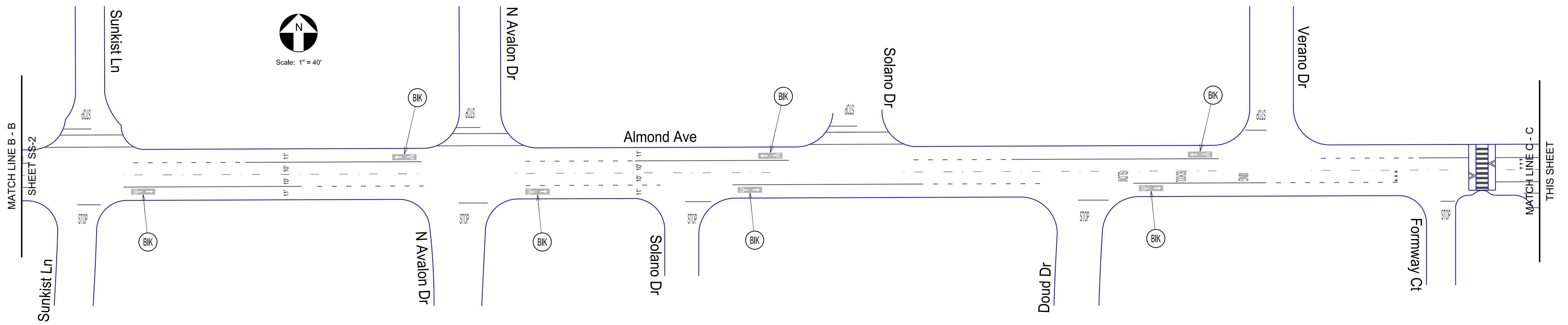
City of Los Altos
 City Seal
 INCORPORATED DECEMBER 1, 1917

City of Los Altos
 City Seal
 INCORPORATED DECEMBER 1, 1917

RECOMMENDED FOR BIDDING BY: _____
 DATE: _____
 APPROVED FOR BIDDING BY: _____
 DATE: _____

PROJECT NO. _____
 DRAWING NO. _____
 E.P. NO. _____
 SCALE 1" = 40'
 Sheet 2

Almond Avenue
(San Antonio Rd to El Monte Ave)
Signage & Striping Plan

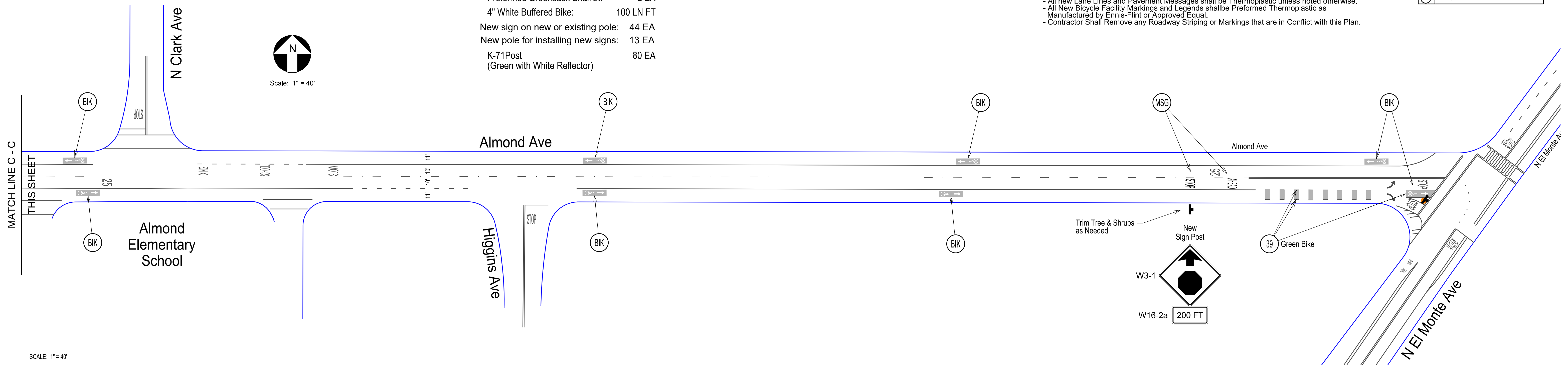


STRIPING & SIGNAGE QUANTITY ESTIMATES:

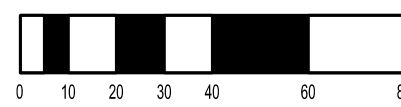
Detail 39:	600 LN FT
Detail 39A:	400 LN FT
Detail 39A Modified (2' x 2'):	500 LN FT
Pavement Messages:	53 SQ FT
Greenback Bike Lane / Arrow:	23 EA
Cycle Track Bike Stencil	27 EA
Preformed Green Bike	2,700 SQ FT
Preformed Greenback Sharrow	2 EA
4" White Buffered Bike:	100 LN FT
New sign on new or existing pole:	44 EA
New pole for installing new signs:	13 EA
K-71 Post (Green with White Reflector)	80 EA

STRIPING LEGEND							
IDEN. TYPHER	STRIPING ELEMENT	IDEN. TYPHER	STRIPING ELEMENT	IDEN. TYPHER	STRIPING ELEMENT	IDEN. TYPHER	STRIPING ELEMENT
(6)	STATE DETAIL 6	(32)	STATE DETAIL 32	(35)	SOLID 24" BIKE GREEN	(14)	TYPE I ARROW - 18'
(9)	STATE DETAIL 9	(33)	STATE DETAIL 38	(36)	SOLID 8" WHITE	(15)	TYPE IV ARROW (DIRECTION SHOWN)
(21)	STATE DETAIL 21	(34)	STATE DETAIL 38A	(37)	SOLID 12" WHITE	(16)	TYPE VI ARROW
(22)	STATE DETAIL 22	(35)	STATE DETAIL 38B	(38)	SOLID 24" WHITE	(17)	TYPE VIIA ARROW (DIRECTION SHOWN)
(24)	STATE DETAIL 22	(36)	STATE DETAIL 39	(39)	SOLID 12" YELLOW	(18)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10')
(25)	STATE DETAIL 27B	(37)	STATE DETAIL 39A	(40)	SOLID 24" YELLOW	(19)	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW MUTCD FIGURE 9C-3(B)
(26)	STATE DETAIL 29	(38)	STATE DETAIL 40	(41)	PAVEMENT MESSAGE (MESSAGE SHOWN)	(20)	GREENBACK BIKE LOOP DETECTOR STENCIL
				(42)		(21)	Buffered Bike Lane: Two (2) Spaces at 24-Inch O.C. with 4" White Heel Spaced at 15-Ft O.C.
						(22)	Bike Symbol w/o Arrow

NOTES:
 - All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise.
 - All New Bicycle Facility Markings and Legends shall be Preformed Thermoplastic as Manufactured by Ennis-Flint or Approved Equal.
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SCALE: 1" = 40'



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Public Works Inspector: _____ Date: _____

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DRAWN BY: J. Rodriguez Date: 12-14-20

CHECKED BY: City of Los Altos Date: 12-14-20

DESIGNED BY: J. Rodriguez Date: 12-14-20

Revisions		
NO.	DESCRIPTION	DATE

CITY OF LOS ALTOS - CALIFORNIA
 INCORPORATED DECEMBER 1, 1922

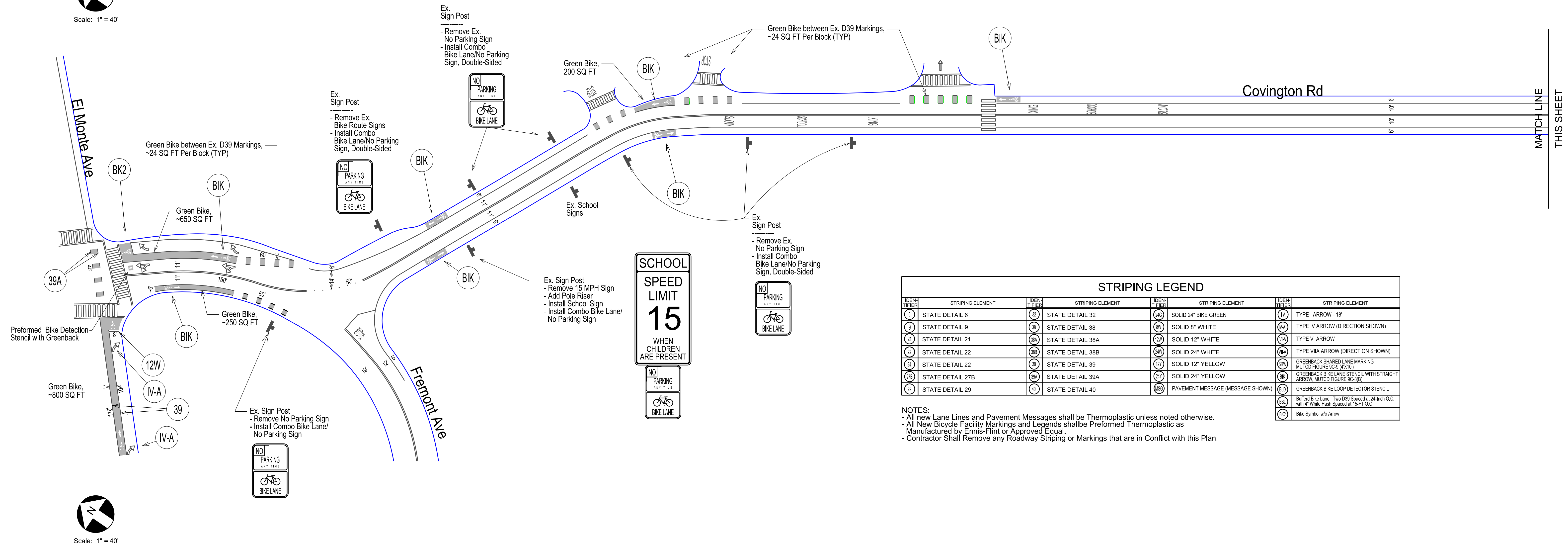
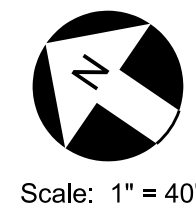
City of Los Altos
 Annual Street Resurfacing Striping
 Project No. TS-01003
 Almond Avenue Bike Lane Improvements
 (San Antonio Road to El Monte Avenue)
 Signage & Striping Plan

RECOMMENDED FOR BIDDING BY: _____
 DATE: _____

APPROVED FOR BIDDING BY: _____
 DATE: _____

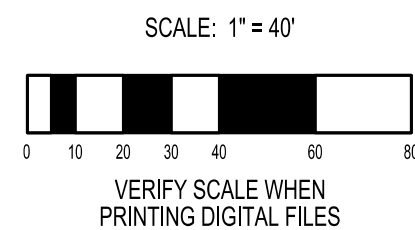
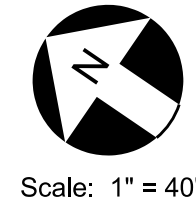
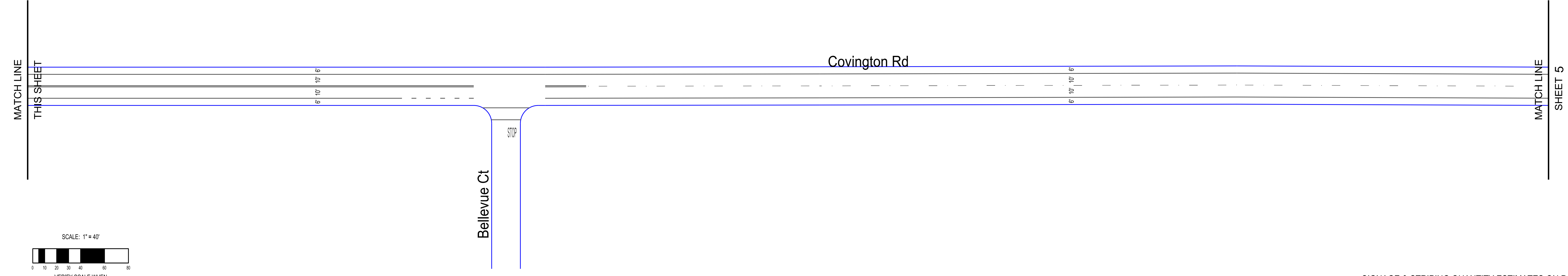
PROJECT NO. _____
 DRAWING NO. _____
 E.P. NO. _____
 SCALE: 1" = 40'
 Sheet 3

Convington Rd
Signage & Striping Plan



STRIPING LEGEND					
IDEN-TYPEN	STRIPING ELEMENT	IDEN-TYPEN	STRIPING ELEMENT	IDEN-TYPEN	STRIPING ELEMENT
(1)	STATE DETAIL 6	(32)	STATE DETAIL 32	(36)	SOLID 24" BIKE GREEN
(2)	STATE DETAIL 9	(33)	STATE DETAIL 38	(38)	SOLID 6" WHITE
(3)	STATE DETAIL 21	(34)	STATE DETAIL 38A	(39)	SOLID 12" WHITE
(4)	STATE DETAIL 22	(35)	STATE DETAIL 38B	(40)	SOLID 24" WHITE
(5)	STATE DETAIL 22	(36)	STATE DETAIL 39	(41)	SOLID 12" YELLOW
(6)	STATE DETAIL 27B	(37)	STATE DETAIL 39A	(42)	SOLID 24" YELLOW
(7)	STATE DETAIL 29	(38)	STATE DETAIL 40	(43)	PAVEMENT MESSAGE (MESSAGE SHOWN)
(8)		(39)		(44)	TYPE I ARROW - 18"
(9)		(40)		(45)	TYPE IV ARROW (DIRECTION SHOWN)
(10)		(41)		(46)	TYPE VI ARROW
(11)		(42)		(47)	TYPE VIIA ARROW (DIRECTION SHOWN)
(12)		(43)		(48)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10')
(13)		(44)		(49)	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B)
(14)		(45)		(50)	GREENBACK BIKE LOOP DETECTOR STENCIL
(15)		(46)		(51)	Buffered Bike Lane, Two D39 Spaced at 24-Inch O.C. with 4" White Flush Spaced at 15-Ft O.C.
(16)		(47)		(52)	Bike Symbol w/o Arrow

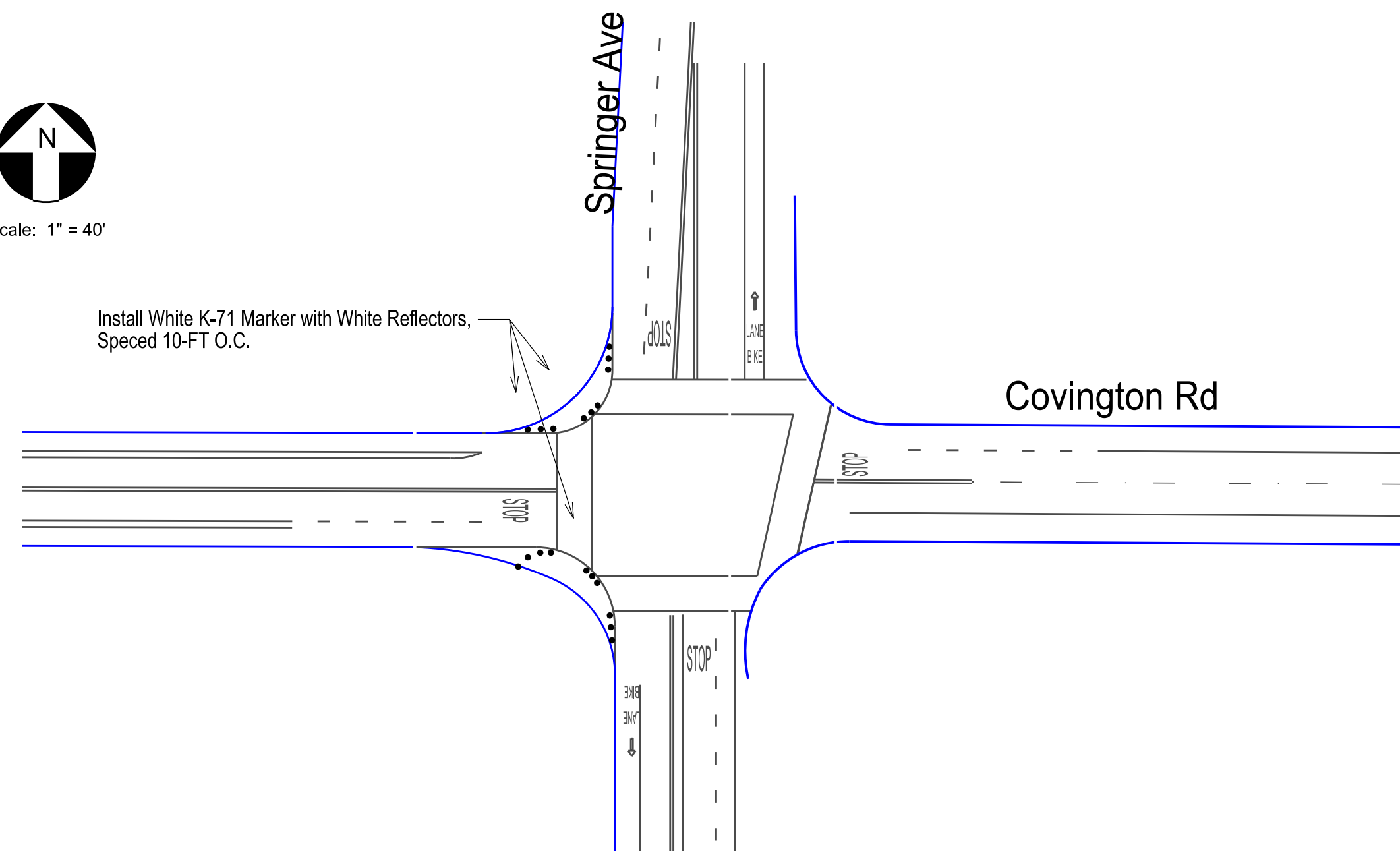
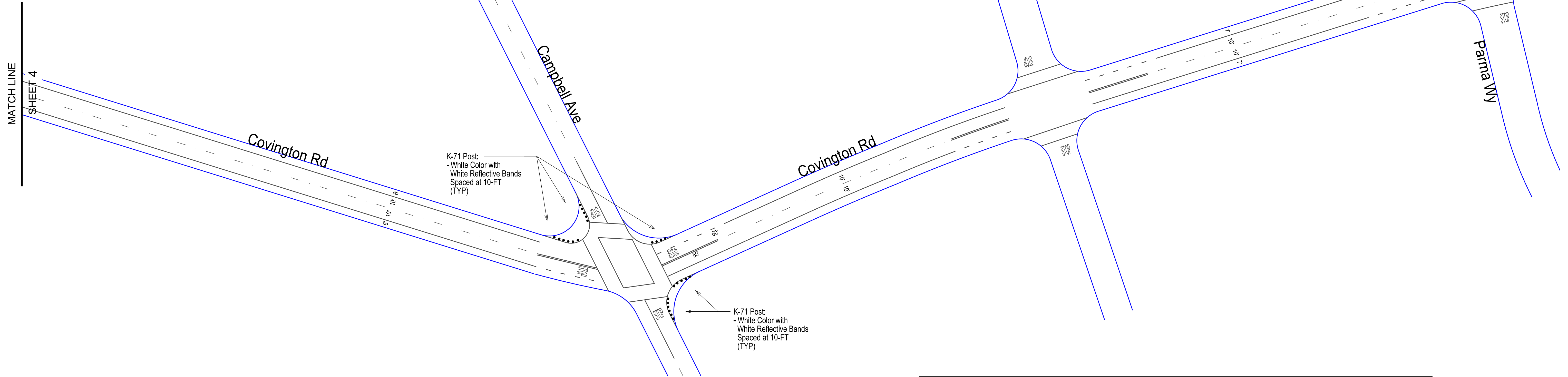
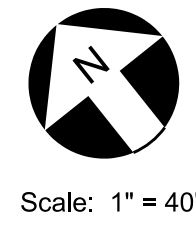
NOTES:
 - All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise.
 - All New Bicycle Facility Markings and Legends shall be Preformed Thermoplastic as Manufactured by Ennis-Flint or Approved Equal.
 - Contractor Shall Remove any Roadway Striping or Markings that are in Conflict with this Plan.



SIGNAGE & STRIPING QUANTITY ESTIMATES ON PAGE 5

<p>Traffic Patterns P.O. Box 25 Danville, CA 94526 O: (408) 916-8141 www.trafficpatterns.net info@trafficpatterns.net</p>		<p>Record Drawings</p> <p>Project Engineer: _____ Date: _____</p> <p>Designer: _____ Date: _____</p> <p>Public Works Inspector: _____ Date: _____</p> <p>Public Improvements Initially Accepted by the City Council on: _____</p>	<p>Submittal Log</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	DATE										<p>Revisions</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	DATE										<p>City of Los Altos</p> <p>Annual Street Resurfacing Striping Project No. TS-01003</p> <p>Covington Road Bike Improvements (El Monte Ave to Springer Ave)</p> <p>Signage & Striping Plan</p>	<p>RECOMMENDED FOR BIDDING BY: _____</p> <p>DATE: _____</p> <p>APPROVED FOR BIDDING BY: _____</p> <p>DATE: _____</p>	<p>PROJECT NO. _____</p> <p>DRAWING NO. _____</p> <p>E.P. NO. _____</p> <p>SCALE: None</p> <p>Sheet 4</p>
		NO.	DESCRIPTION	DATE																											
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<p>12-14-20</p>		<p>DRAWN BY: J. Rodriguez Date: 12-14-20</p> <p>CHECKED BY: City of Los Altos Date: 12-14-20</p> <p>DESIGNED BY: J. Rodriguez Date: 12-14-20</p>																													

Convington Rd
Signage & Striping Plan



STRIPING & SIGNAGE QUANTITY ESTIMATES:

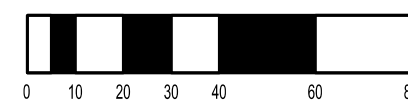
- Detail 39A: 80 LN FT
- Greenback Bike Lane / Arrow: 8 EA
- Oversize Bike Box Stencil: 2 EA
- Preformed Green Bike: 2,500 SQ FT
- Ex. Sign Posts with New Signs: 8 Sets
- K-71 Post (White with /White Reflector) (Return Excess K-71 Posts to City): 50 EA
- Preformed green bike detection stencil with greenback: 1 EA

STRIPING LEGEND

IDENTIFIER	STRIPING ELEMENT	IDENTIFIER	STRIPING ELEMENT	IDENTIFIER	STRIPING ELEMENT	IDENTIFIER	STRIPING ELEMENT
(6)	STATE DETAIL 6	(32)	STATE DETAIL 32	(05)	SOLID 24" BIKE GREEN	(14)	TYPE I ARROW - 18'
(9)	STATE DETAIL 9	(38)	STATE DETAIL 38	(08)	SOLID 8" WHITE	(14a)	TYPE IV ARROW (DIRECTION SHOWN)
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(22)	STATE DETAIL 22	(38B)	STATE DETAIL 38B	(09)	SOLID 24" WHITE	(14c)	TYPE VIIA ARROW (DIRECTION SHOWN)
(24)	STATE DETAIL 22	(39)	STATE DETAIL 39	(10)	SOLID 12" YELLOW	(39)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10')
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(29)	STATE DETAIL 29	(40)	STATE DETAIL 40	(60)	PAVEMENT MESSAGE (MESSAGE SHOWN)	(40)	GREENBACK BIKE LOOP DETECTOR STENCIL
				(80)	Buffered Bike Lane: Two (2) Spaced at 24-Inch O.C. with 4" White Hash Spaced at 15-FT O.C.		
				(90)	Bike Symbol w/o Arrow		

- NOTES:
- All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise.
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TRAFFIC
STATE OF CALIFORNIA

Record Drawings

Project Engineer: _____ Date: _____
Designer: _____ Date: _____
Public Works Inspector: _____ Date: _____

Public Improvements Initially Accepted by the City Council on: _____

Submittal Log

NO.	DESCRIPTION	DATE

DRAWN BY: J. Rodriguez Date: 12-14-20
CHECKED BY: City of Los Altos Date: 12-14-20
DESIGNED BY: J. Rodriguez Date: 12-14-20

Revisions

NO.	DESCRIPTION	DATE

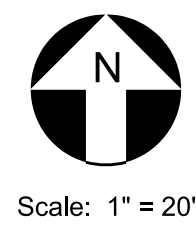
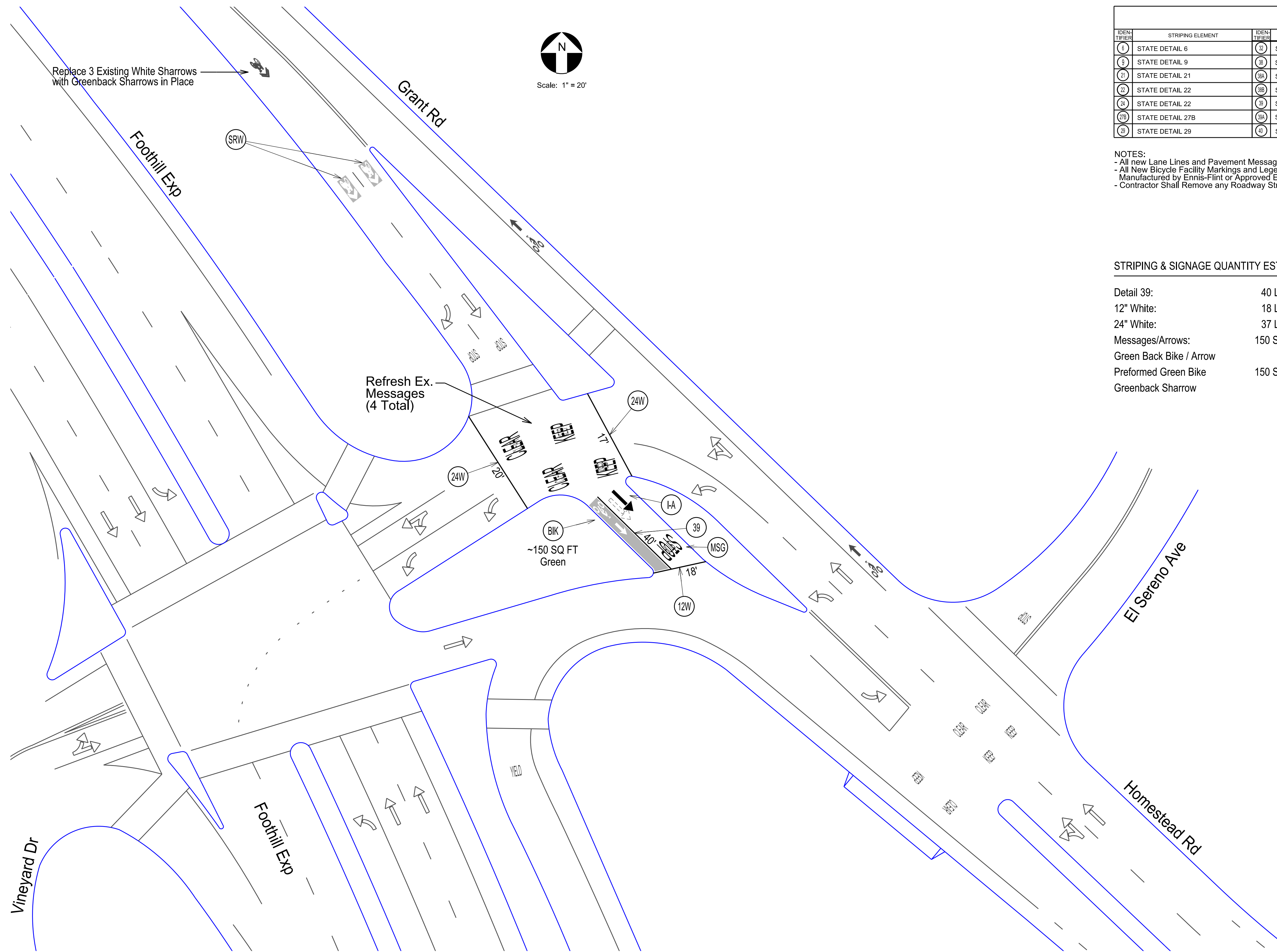
City of Los Altos
Annual Street Resurfacing Striping
Project No. TS-01003
Convington Road Bike Improvements
(El Monte Ave to Springer Ave)
Signage & Striping Plan

RECOMMENDED FOR BIDDING BY: _____
DATE: _____

APPROVED FOR BIDDING BY: _____
DATE: _____

PROJECT NO. _____
DRAWING NO. _____
E.P. NO. _____
SCALE: None
Sheet 5

Homestead Rd & Grant Rd
Signage & Striping Plan



STRIPING LEGEND							
IDEN-TIFIER	STRIPING ELEMENT	IDEN-TIFIER	STRIPING ELEMENT	IDEN-TIFIER	STRIPING ELEMENT	IDEN-TIFIER	STRIPING ELEMENT
(6)	STATE DETAIL 6	(32)	STATE DETAIL 32	(24)	SOLID 24" BIKE GREEN	(14)	TYPE I ARROW - 18'
(9)	STATE DETAIL 9	(38)	STATE DETAIL 38	(8)	SOLID 8" WHITE	(14A)	TYPE IV ARROW (DIRECTION SHOWN)
(21)	STATE DETAIL 21	(38A)	STATE DETAIL 38A	(12)	SOLID 12" WHITE	(14B)	TYPE VI ARROW
(22)	STATE DETAIL 22	(38B)	STATE DETAIL 38B	(24)	SOLID 24" WHITE	(14C)	TYPE VIIA ARROW (DIRECTION SHOWN)
(24)	STATE DETAIL 24	(39)	STATE DETAIL 39	(12)	SOLID 12" YELLOW	(20)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4' X 10')
(25)	STATE DETAIL 25	(39A)	STATE DETAIL 39A	(24)	SOLID 24" YELLOW	(21)	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B)
(29)	STATE DETAIL 29	(40)	STATE DETAIL 40	(MSG)	PAVEMENT MESSAGE (MESSAGE SHOWN)	(22)	GREENBACK BIKE LOOP DETECTOR STENCIL
				(B)	Buffer Bike Lane. Two D39 Spaced at 24-Inch O.C. with 4" White Hash Spaced at 15-FT O.C.	(23)	Bike Symbol w/o Arrow

NOTES:
 - All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise.
 - All New Bicycle Facility Markings and Legends shall be Preformed Thermoplastic as Manufactured by Ennis-Flint or Approved Equal.
 - Contractor Shall Remove any Roadway Striping or Markings that are in Conflict with this Plan.

STRIPING & SIGNAGE QUANTITY ESTIMATES:

Detail 39:	40 LN FT
12" White:	18 LN FT
24" White:	37 LN FT
Messages/Arrows:	150 SQ FT
Green Back Bike / Arrow	1 EA
Preformed Green Bike	150 SQ FT
Greenback Sharrow	5 EA

Traffic Patterns
 P.O. Box 25
 Danville, CA 94526
 O: (408) 916-8141
 www.trafficpatterns.net
 info@trafficpatterns.net

Engineer's Stamp
JAMES O. RODRIGUEZ
 REGISTERED PROFESSIONAL ENGINEER
 TR2284
 Exp: 6-30-22
 STATE OF CALIFORNIA

Record Drawings

Project Engineer: _____ Date: _____
 Designer: _____ Date: _____
 Public Works Inspector: _____ Date: _____

Public Improvements Initially Accepted by the City Council on: _____

DRAWN BY: J. Rodriguez Date: 12-14-20
 CHECKED BY: City of Los Altos Date: 12-14-20
 DESIGNED BY: J. Rodriguez Date: 12-14-20

Revisions		
NO.	DESCRIPTION	DATE

CITY OF LOS ALTOS - CALIFORNIA
 INCORPORATED DECEMBER 1, 1923

City of Los Altos
 Annual Street Resurfacing Striping
 Project No. TS-01003
 Homestead Rd & Grant Rd Intersection
 Signage & Striping Plan

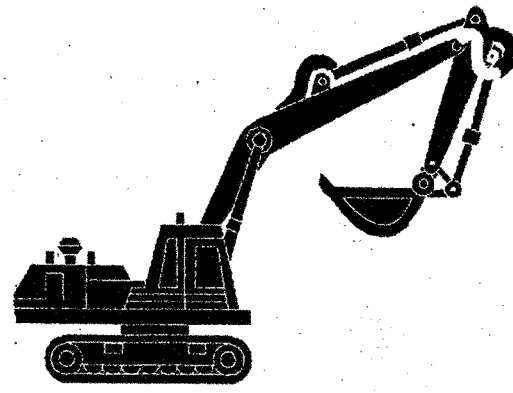
RECOMMENDED FOR BIDDING BY: _____
 DATE: _____

APPROVED FOR BIDDING BY: _____
 DATE: _____

PROJECT NO. _____
 DRAWING NO. _____
 E.P. NO. _____
 SCALE: 1" = 40'
 Sheet 6

Heavy Equipment Operation

Best Management Practices for the Construction Industry



Best Management Practices for the

- Vehicle and equipment operators
- Site supervisors
- General contractors
- Home builders
- Developers

Doing The Job Right

Site Planning and Preventive Vehicle Maintenance

- Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site where cleanup is easier.
- 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 separate containers, and properly dispose as hazardous waste (recycle whenever possible).
- Do not use diesel oil to lubricate equipment parts, or clean equipment. Use only water for any onsite cleaning.
- Cover exposed fifth wheel hitch and other oily or greasy equipment during rain events.

Storm water Pollution from Heavy Equipment on Construction Sites

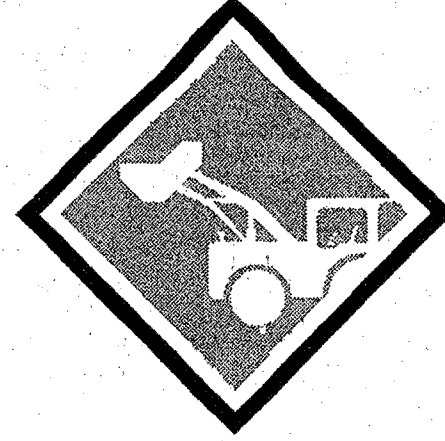
Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Spill Cleanup

- Clean up spills immediately when they happen.
- Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- Use as little water as possible for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills to the appropriate local spill response agencies immediately.
- If the spill poses a significant hazard to human health and safety, property or the environment, you must also report to the State Office of Emergency Services

Roadwork and Paving

Best Management Practices for the Construction Industry



Best Management Practices for the

- Road crews
- Driveway/sidewalk/parking lot construction crews
- Seal coat contractors
- Operators of grading equipment, paving machines, dump trucks, concrete mixers
- Construction inspectors
- General contractors
- Home builders
- Developers

Doing The Job Right

General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments.
- Schedule excavation and grading work during dry weather.
- Check for and repair leaking equipment.
- Perform major equipment repairs at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When refueling or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- Do not use diesel oil to lubricate equipment parts or clean equipment.
- Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly.

During Construction

- Avoid paving and seal coating in wet weather, or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.

Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

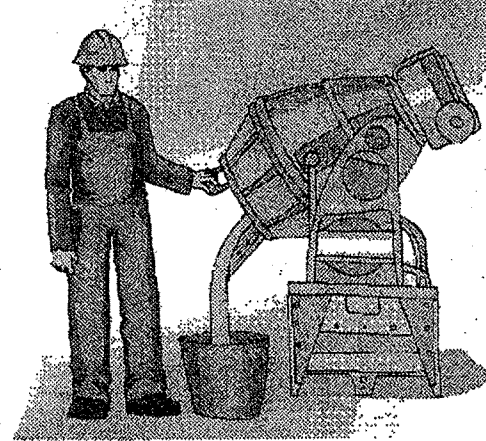
- Never wash excess material from exposed aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand.
- Avoid over-application by water trucks for dust control.

Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

Fresh Concrete and Mortar Application

Best Management Practices for the Construction Industry



Best Management Practices for the

- Masons and bricklayers
- Sidewalk construction crews
- Patio construction workers
- Construction inspectors
- General contractors
- Home builders
- Developers
- Concrete delivery/pumping workers

Doing The Job Right

General Business Practices

- Wash out concrete mixers only in designated wash-out areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out chutes onto dirt areas at site that do not flow to streets or drains.
- Always store both dry and wet materials under cover from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, cause serious problems, and is prohibited by law.

During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- Set up and operate small mixers on tarps or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- 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.
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete at a landfill.
- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- Never dispose of washout into the street, storm drains, drainage ditches, or streams.

Preventing Pollution: It's Up to Us

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay without treatment. Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or bay lands. Some common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion; landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight storm water pollution. TO comply with this program, contractors most comply with the practices described in this drawing sheet.

Spill Response Agencies

DIAL 9-1-1
State Office of Emergency Services Warning Center (24 hours): 800-852-7550
Santa Clara County Environmental Health Services: (408) 299-6930

Local Pollution Control Agencies

County of Santa Clara Pollution Prevention Program: (408) 441-1195
County of Santa Clara Integrated Waste Management Program: (408) 441-1198
County of Santa Clara District Attorney Environmental Crimes Hotline: (408) 299-TIPS
Santa Clara County Recycling Hotline: 1-800-533-8414
Santa Clara Valley Water District: (408) 265-2600
Santa Clara Valley Water District Pollution Hotline: 1-888-510-5151
Regional Water Quality Control Board San Francisco Bay Region: (510) 622-2300
Palo Alto Regional Water Quality Control Plant: (650) 329-2598
Serving East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford
City of Los Altos
Building Department: (650) 947-2752
Engineering Department: (650) 947-2780

Landscaping, Gardening, and Pool Maintenance

Best Management Practices for the Construction Industry



Best Management Practices for the

- Landscapers
- Gardeners
- Swimming pool/spa service and repair workers
- General contractors
- Home builders
- Developers
- Homeowners

Doing The Right Job

General Business Practices

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains.
- Protect storm drains with sandbags or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.

Landscaping/Garden Maintenance

- Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinse water as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- Collected lawn and garden clippings, pruning waste, and tree trimmings. Chip if necessary, and compost.
- In communities with outside pick-up of yard waste, place clippings and pruning waste at the curb in approved bags or containers. Or, take to a landfill that composts yard waste. No outside pickup of yard waste is available for commercial properties.

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

- Do not blow or raise leaves, etc. into the street, or place yard waste in gutters or on dirt shoulders, unless you are piling them for recycling (allowed by San Jose and unincorporated County only). Sweep up any leaves, litter or residue in gutters or on street.
- In San Jose, leave yard waste for curbside recycling pickup in piles in the street, 18 inches from the curb and completely out of the flow line to any storm drain.

Pool/Fountain/Spa Maintenance

- Drain pools or spas When it's time to drain a pool, spa, or fountain, please be sure to call your local wastewater treatment plant before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows shall not exceed 100 gallon per minute.
- Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.
- If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recirculate water by draining it gradually onto a landscaped area.
- Do not use copper-based algaecides. Control algae with chlorine or other alternatives, such as sodium bromide.

Filter Cleaning

- Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and spool filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- If there is no suitable dirt area, call your local wastewater treatment plant for instructions on discharging filter backwash or rinse water to the sanitary sewer.

Painting and Application of Solvents and Adhesives

Best Management Practices for the Construction Industry



Best Management Practices for the

- Homeowners
- Painters
- Paperhangers
- Plasterers
- Graphic artists
- Dry wall crews
- Floor covering installers
- General contractors
- Home builders
- Developers

Doing The Job Right

Handling Paint Products

- Keep all liquid paint products and wastes away from the gutter, street, and storm drains. Liquid residues from paints, thinners, solvents, glues, and cleaning fluids are hazardous wastes and must be disposed of at a hazardous waste collection facility (contact your local stormwater program listed on the back of this brochure).
- When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage in a sanitary landfill. Empty, dry paint cans also may be recycled as metal.
- Wash water from painted buildings constructed before 1976 can contain high amounts of lead, even if paint chips are not present. Before you begin stripping paint or cleaning pre-1976 building exteriors with water under high pressure, test paint for lead by taking paint scrapings to a local laboratory. See Yellow Pages for a state-certified laboratory.
- If there is loose paint on the building, or if the paint tests positive for lead, block storm drains. Check with the local wastewater treatment plant to determine whether you may discharge water to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

- Paint chips and dust from non-hazardous 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, mercury or tributyl tin must be disposed of as hazardous wastes. Lead-based paint removal requires a state-certified contractor.
- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct wash water onto a dirt area and spade into soil. Or, check with the local wastewater treatment authority to find out if you can collect (and/or vacuum) building cleaning water and dispose to the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

Painting Cleanup

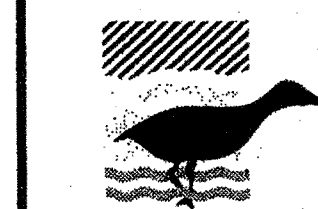
- Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or stream.
- For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids and residue as hazardous waste.

- Paint removal Wash water and dust from non-hazardous 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, mercury or tributyl tin must be disposed of as hazardous wastes. Lead-based paint removal requires a state-certified contractor.

- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct wash water onto a dirt area and spade into soil. Or, check with the local wastewater treatment authority to find out if you can collect (and/or vacuum) building cleaning water and dispose to the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

Recycle/Reuse Leftover Paints Whenever Possible

- Recycle or donate excess water-based (latex) paint, or return to supplier.
- Reuse leftover oil-based paint. Dispose of non-recyclable thinners, sludge and unwashed paint, as paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.



Los Altos Municipal Code Requirements

Los Altos Municipal Code Chapter 10.08.390 Non-storm water discharges

- Unlawful discharges. It shall be unlawful to discharge any domestic waste or industrial waste into storm drains, gutters, creeks, or San Francisco Bay. Unlawful discharges to storm drains shall include, but not be limited to, discharge from toilets; sinks; industrial processes; cooling systems; boilers; fabric cleaning; equipment cleaning; vehicle cleaning; construction activities, including, but not limited to, painting, paving, concrete placement, saw cutting and grading; swimming pools; spas; and fountains, unless specifically permitted by a discharge permit or unless exempted pursuant to guidelines published by the superintendent.
- Threatened discharges. It shall be unlawful to cause hazardous materials, domestic waste, or industrial waste to be deposited in such a manner or location as to constitute a threatened discharge into storm drains, gutters, creeks or San Francisco Bay. A "threatened discharge" is a condition creating a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce or mitigate damages to persons, property or natural resources. Domestic or industrial wastes that are no longer contained in a pipe, tank or other container are considered to be threatened discharges unless they are actively being cleaned up.

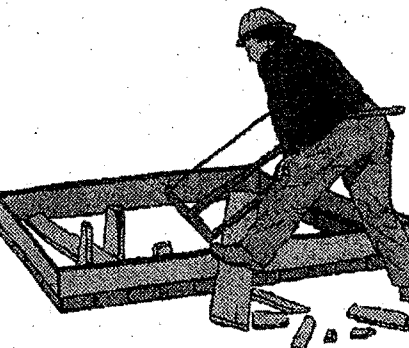
Los Altos Municipal Code Section 10.08.430 Requirements for construction operations.

- A spill response plan for hazardous waste, hazardous materials and uncontained construction materials shall be prepared and available at the construction sites for all projects where the proposed construction site is equal to or greater than one acre of disturbed soil and for any other projects for which the city engineer determines it is necessary to protect surface waters. Preparation of the plan shall be in accordance with guidelines published by the city engineer.
- A storm water pollution prevention plan shall be prepared and available at the construction sites for all projects greater than one acre of disturbed soil and for any other projects for which the city engineer determines that a storm water management plan is necessary to protect surface waters. Preparation of the plan shall be in accordance with guidelines published by the city engineer.
- Prior approval shall be obtained from the city engineer or designee to discharge water pumped from construction sites to the storm drain. The city engineer or designee may require gravity settling and filtration upon a determination that either or both would improve the water quality of the discharge. Contaminated groundwater or water that exceeds state or federal requirements for discharge to navigable waters may not be discharged to the storm drain. Such water may be discharged to the sewer, provided that the requirements of Section 10.08.240 are met and the approval of the superintendent is obtained prior to discharge.
- No cleanup of construction debris from the streets shall result in the discharge of water to the storm drain system; nor shall any construction debris be deposited or allowed to be deposited in the storm drain system. (Prior code § 5-5.643)

Criminal and judicial penalties can be assessed for non-compliance.

General Construction And Site Supervision

Best Management Practices For Construction



Best Management Practices for the

- General contractors
- Site supervisors
- Inspectors
- Home builders
- Developers

Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay. As a contractor, site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

Doing The Job Right

General Principles

- Keep an orderly site and ensure good housekeeping practices are used.
- Maintain equipment properly.
- Cover materials when they are not in use.
- Keep materials away from streets, storm drains and drainage channels.
- Ensure dust control water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution

- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Manual, available from the Regional Water Quality Control Board, as a reference.
- Control the amount of runoff crossing your site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce storm water velocities by constructing temporary check dams or berms where appropriate.
- Train your employees and subcontractors. Make these best management practices available to everyone who works on the construction site. Inform subcontractors about the storm water requirements and their own responsibilities.

Good Housekeeping Practices

- Designate one area of the site for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be swept away from storm or storm drain inlets, bermed if necessary. Make major repairs off site.
- Keep materials out of the rain - prevent runoff concentration at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- Keep pollutants off of exposed surfaces. Place trashcans and recycling receptacles around the site to minimize litter.

- Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- Set portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

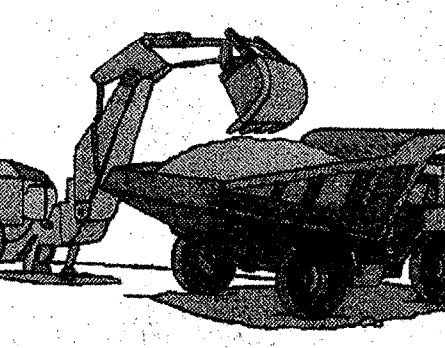
Materials/Waste Handling

- Practice Source Reduction - minimize waste when you order materials. Order only the amount you need to finish the job.
- Use recyclable materials whenever possible. Arrange for pick-up of recyclable 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.
- Dispose of all wastes properly. Many construction materials and wastes, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation can be recycled. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

- In addition to local building permits, you will need to obtain coverage under the State's General Construction Activity Storm Water Permit if your construction site covers one acre or more. Obtain information from the Regional Water Quality Control Board.

Earth-Moving And Dewatering Activities

Best Management Practices for the Construction Industry



Best Management Practices for the

- Bulldozer, back hoe, and grading machine operators
- Dump truck drivers
- Site supervisors
- General contractors
- Home builders
- Developers

Doing The Job Right

General Business Practices

- Schedule excavation and grading work during dry weather.
- Perform major equipment repairs away from the job site.
- When refueling or vehicle/equipment maintenance must be done on site, designate a location away from storm drains.
- Do not use diesel oil to lubricate equipment parts, or clean equipment.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control where construction is not immediately planned.
- Protect down slope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.

Storm Drain Pollution from Earth-Moving Activities and Dewatering

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces. Contaminated groundwater is a common problem in the Santa Clara Valley. Depending on soil types and site history, ground water from construction sites may be contaminated with toxics (such as oil or solvents) or laden with sediments. Any of these pollutants can harm wildlife in creeks or the Bay, or interfere with wastewater treatment plant operation. Discharging sediment-laden water from a dewatering site into any water of the state without treatment is prohibited.

- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.

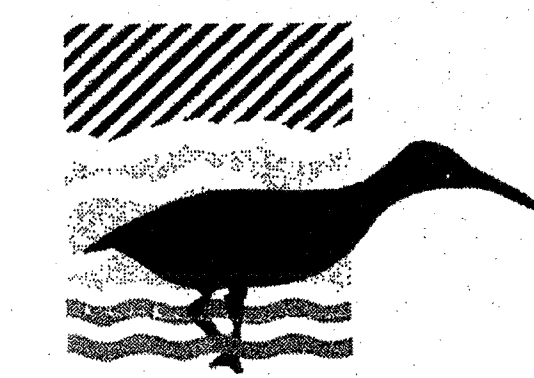
Dewatering Operations

- Check for Toxic Pollutants**
 - Check for odors, discoloration, or an oily sheen on groundwater.
 - Call your local wastewater treatment agency and ask whether the groundwater must be tested.
 - If contamination is suspected, have the water tested by a certified laboratory.
 - Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain (if no sediments present) or sanitary sewer. OR, you may be required to collect and haul pumped groundwater offsite for treatment and disposal at an appropriate treatment facility.
- Check for Sediment Levels**
 - If the water is clear, the pumping time is less than 24 hours, and the flow rate is less than 20 gallons per minute, you may pump water to the street or storm drain.
 - If the pumping time is more than 24 hours and the flow rate greater than 20 gpm, call your local wastewater treatment plant for guidance.
 - If the water is not clear, solids must be filtered or settled out by pumping to a settling tank prior to discharge. Options for filtering include:
 - Pumping through a perforated pipe sunk part way into a small pit filled with gravel;
 - Pumping from a bucket placed below water level using a submersible pump;
 - Pumping through a filtering device such as a swimming pool filter or filter fabric wrapped around end of suction pipe.
 - When discharging to a storm drain, protect the inlet using a storm drain or filter cloth filled with drain rock, or cover inlet with filter fabric anchored under the grate. OR pump water through a grassy swale prior to discharge.

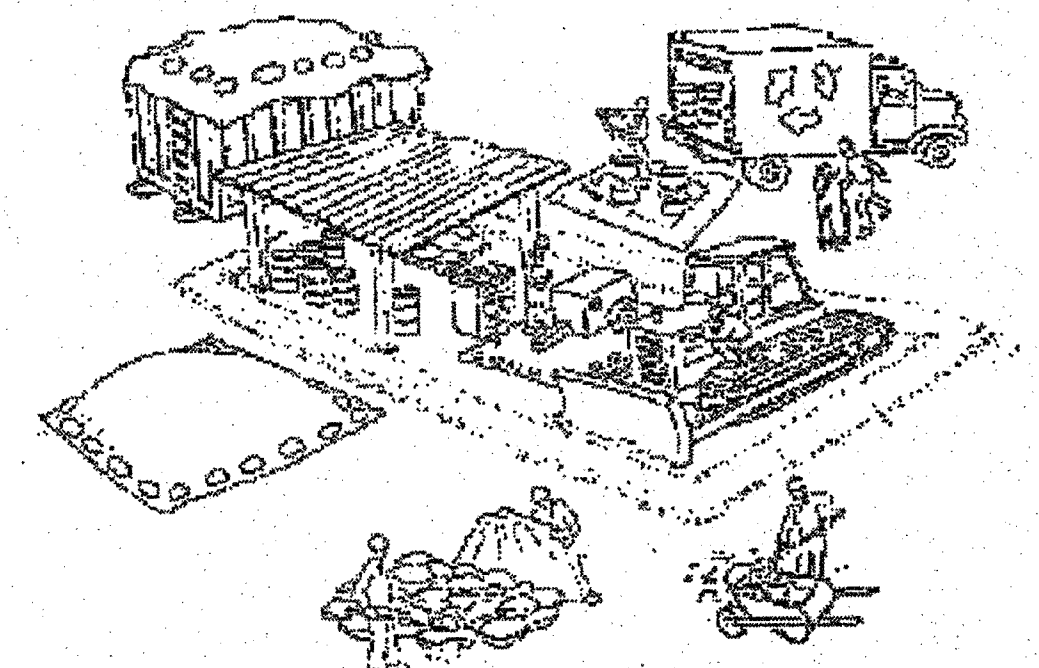
Blueprint for a Clean Bay

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.

Best Management Practices for the Construction Industry



Santa Clara Urban Runoff Pollution Prevention Program



DESIGNED BY: LARRY LIND	APPROVED BY: <i>Jim Be...</i>	CITY OF LOS ALTOS R.C.E.	DATE: OCTOBER, 2003
DRAWN BY: VICTOR CHEN	CITY ENGINEER	18055	SCALE: N.T.S.
CHECKED BY: JIM GUSTAFSON	SHEET	OF SHEETS	DRAWING NO: