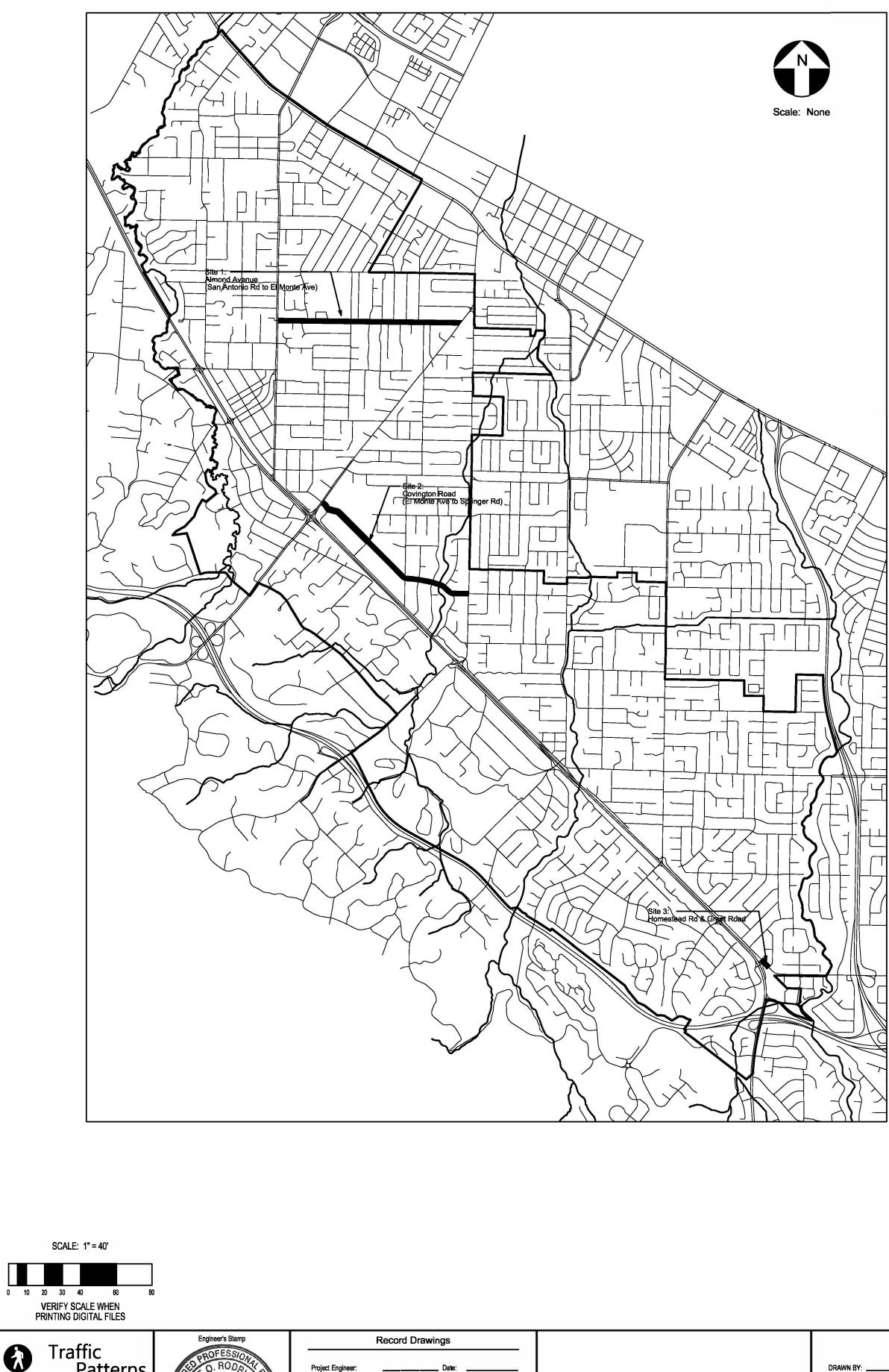
PROJECT MAP



Traffic Patterns P.O. Box 25 TR2284 Danville, CA 94526 O: (408) 916-8141 www.trafficpatterns.net info@trafficpatterns.net

Record Drawings						
Project Engineer:	Date:	.				
Designer:	Date:	<u> </u>				
Public Works Inspector:	Date:					
Public Improvements Initially Accepted by the City Council on:						

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:

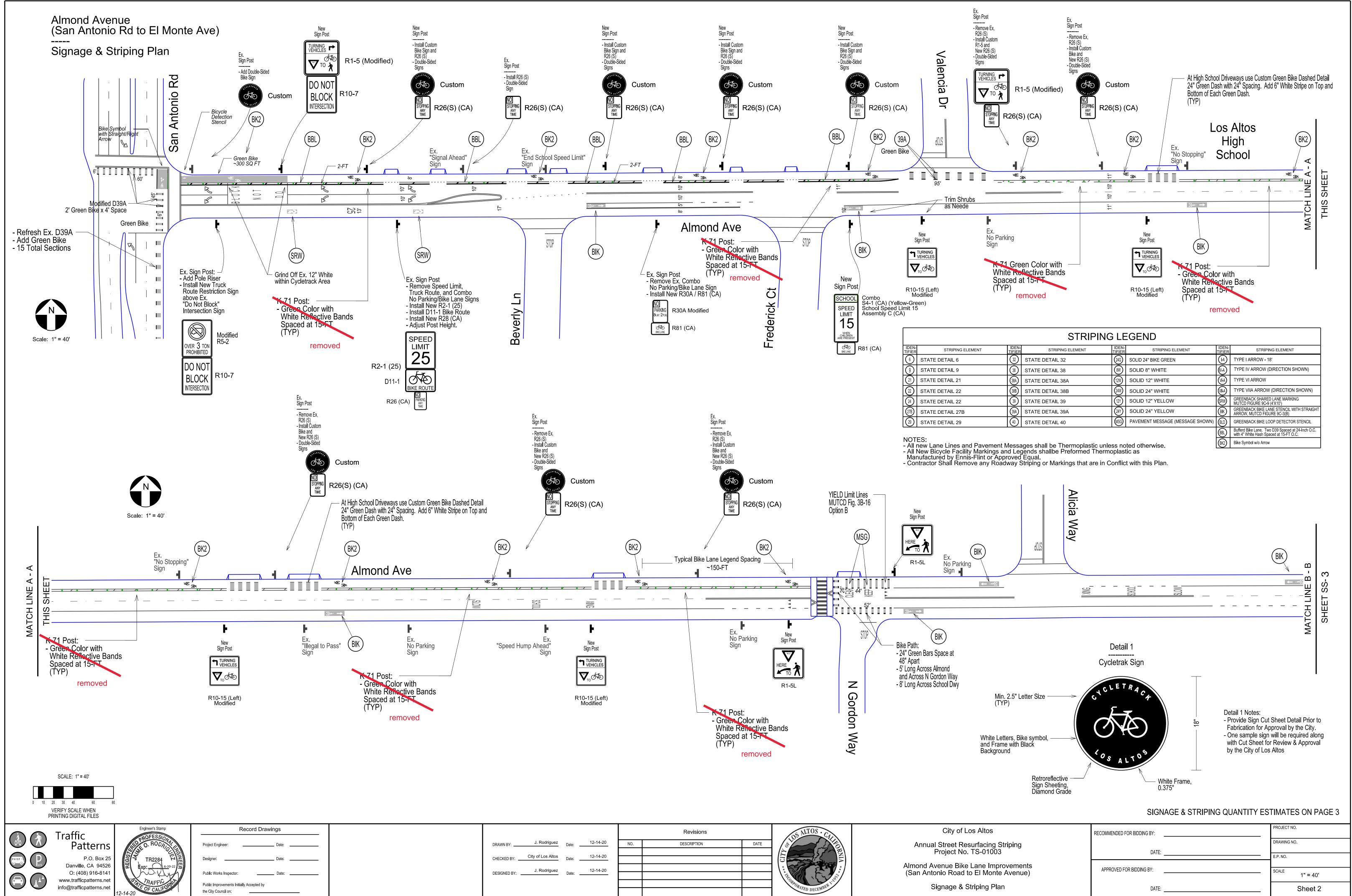
- Before excavating call USA (Underground Service Alert) at 811 seven (7) business days before planned work.

SHEET INDEX:

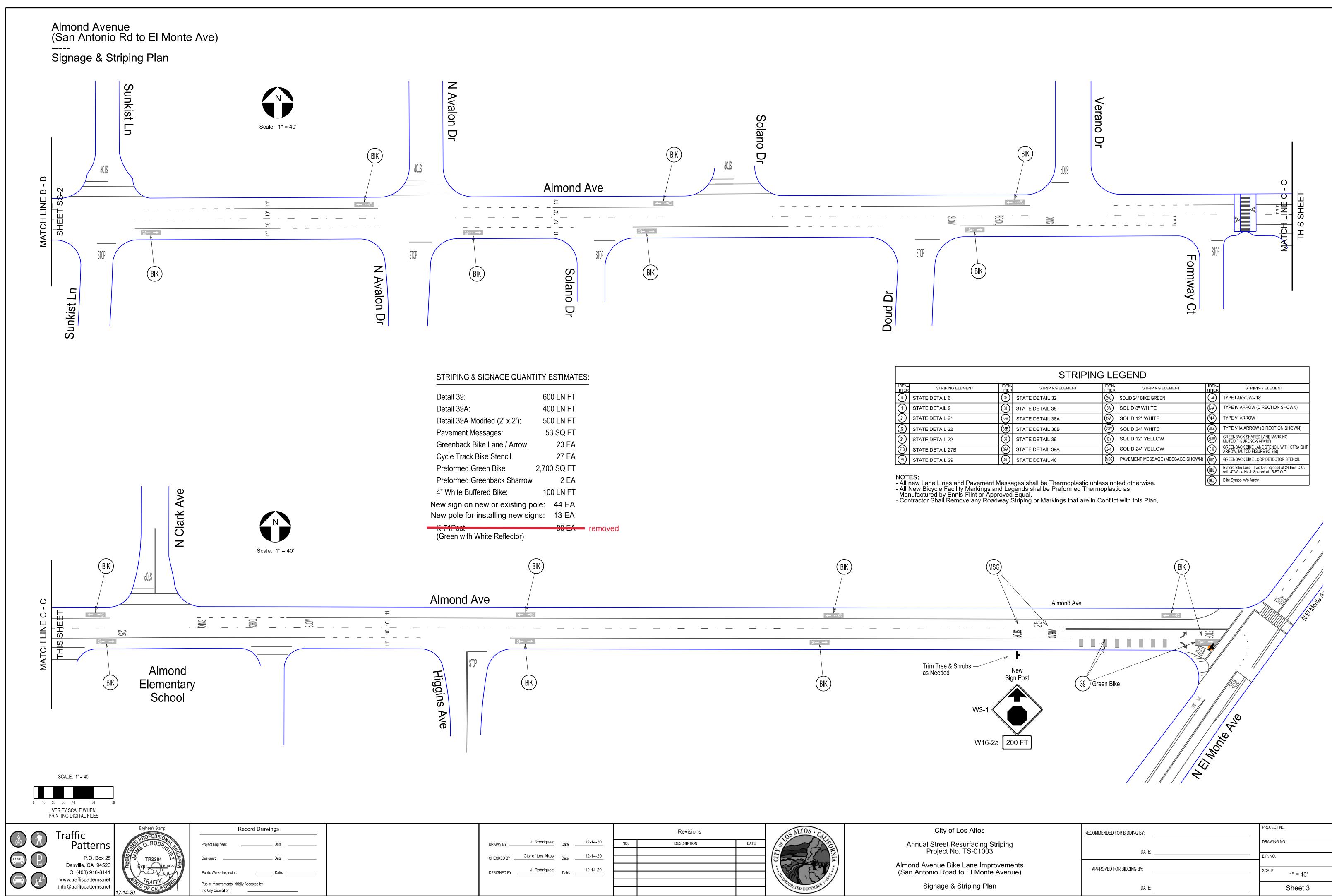
- 1. Title Sheet
- 2. Almond Avenue Signage & Striping, Page 1 of 2
- 3. Almond Avenue Signage & Striping, Page 2 of 2
- 4. Covington Road Signage & Striping Plan, Page 1 of 2
- 5. Covington Road Signage & Striping, Page 2 of 2
- 6. Homestead Rd & Grant Rd, Page 1 of 1
- 7. Blueprint for a Clean Bay

			Revisions		NS NITOS · CI	
DRAWN BY:J. Rodriguez Date:12-	2-14-20	NO.	DESCRIPTION	DATE	1 AL	Cit
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City of Los Altos reet Resurfacing Striping	RECOMMENDED FOR BIDDING BY:	PROJECT NO. DRAWING NO. E.P. NO.
reet Resurfacing Striping ject No. TS-01003 Cover Sheet		SCALE 1" = 40'
	DATE:	Sheet 1



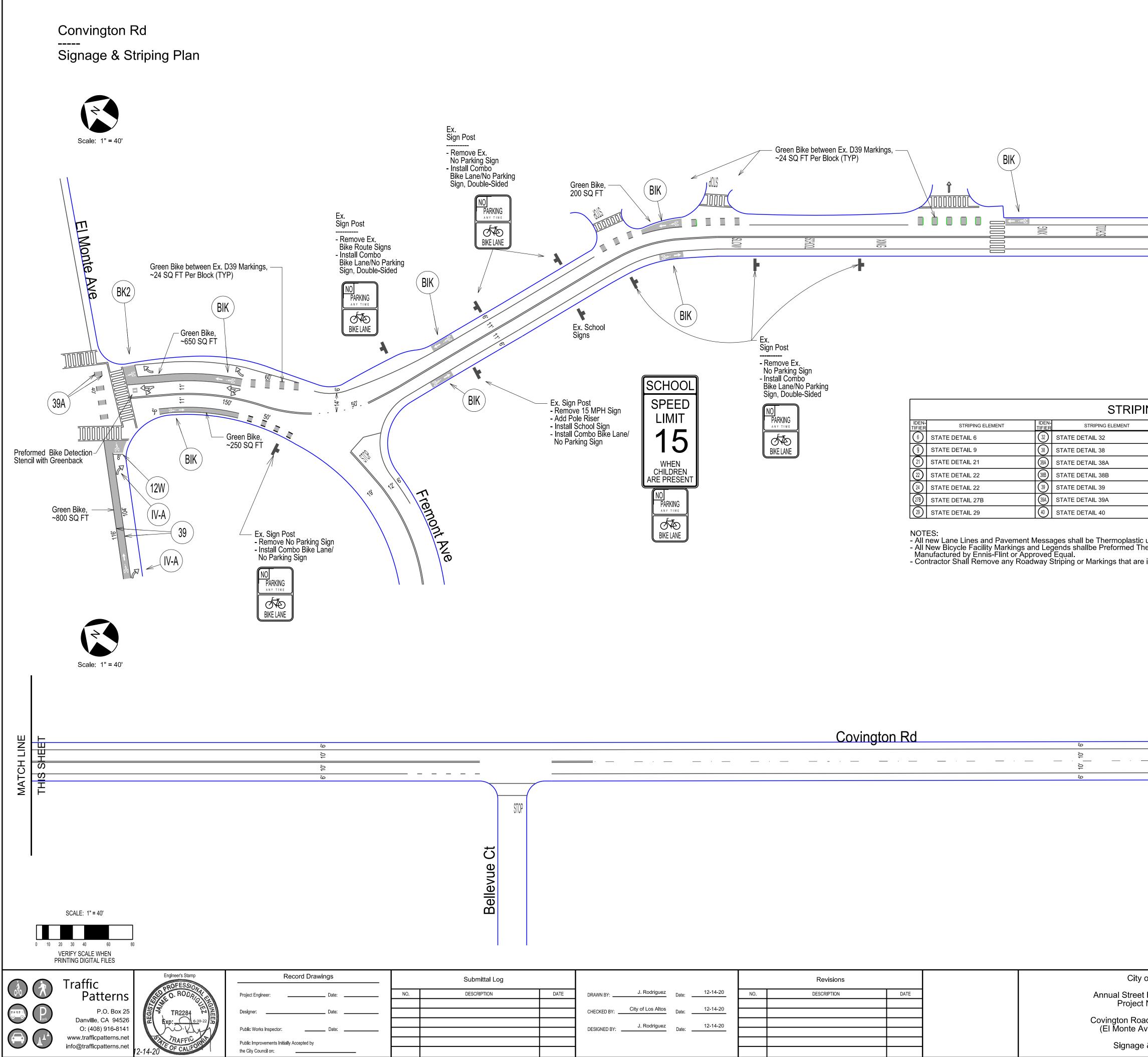
			Revisions		S ALTOS . CAL	City
DRAWN BY: J. Rodriguez Date: _	12-14-20	NO.	DESCRIPTION	DATE		Annual Street Project
CHECKED BY: <u>City of Los Altos</u> Date:	12-14-20 12-14-20				II CONTRACTOR	Almond Avenue E (San Antonio Ro
DESIGNED BT Date					TE ORHORATED DECEMBER 1152	Signage



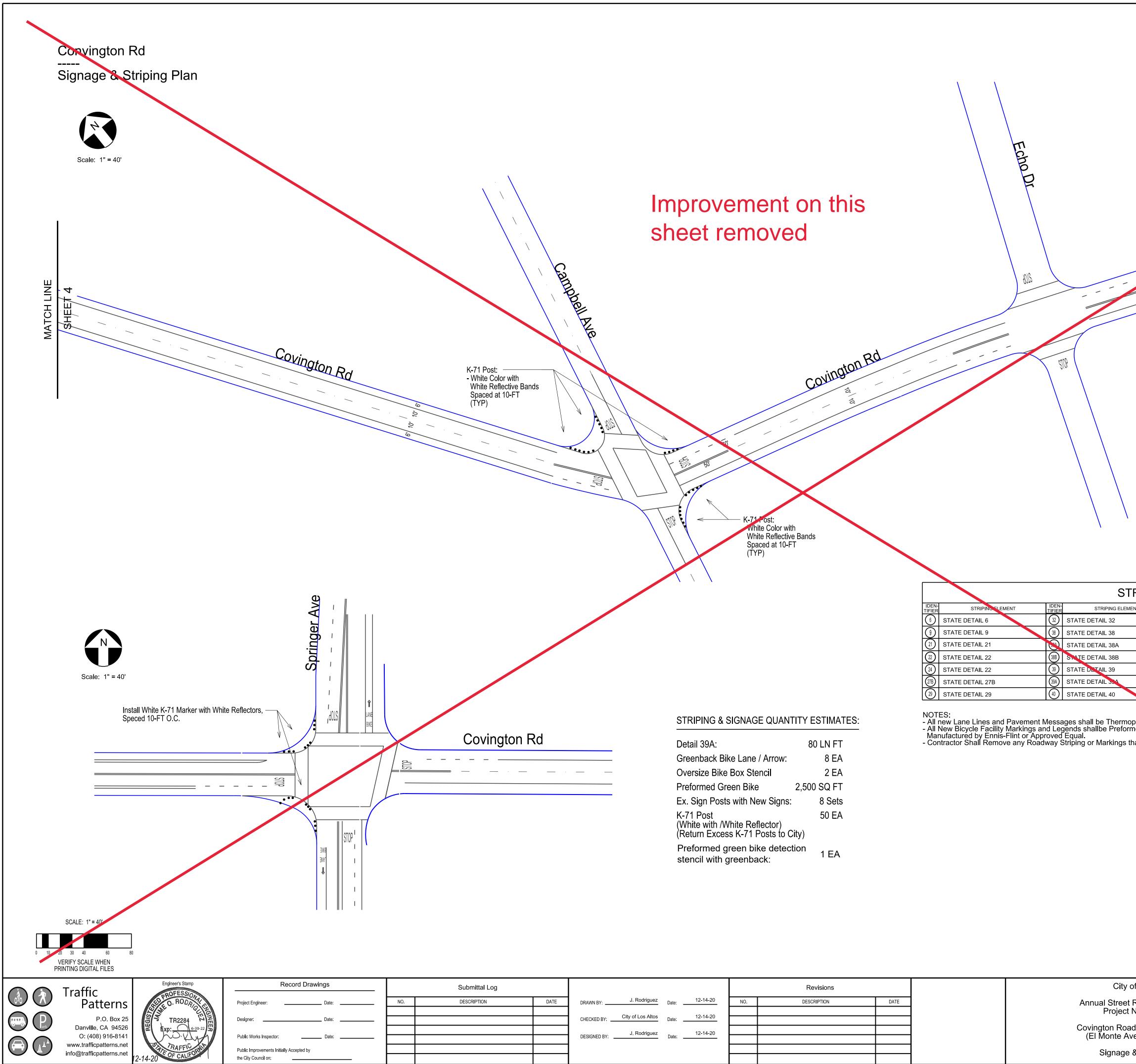
l 39:	600 LN FT
I 39A:	400 LN FT
I 39A Modifed (2' x 2'):	500 LN FT
ment Messages:	53 SQ FT
nback Bike Lane / Arrow:	23 EA
e Track Bike Stencil	27 EA
rmed Green Bike	2,700 SQ FT
rmed Greenback Sharrow	2 EA
nite Buffered Bike:	100 LN FT
ign on new or existing p	ole: 44 EA
ole for installing new sig	gns: 13 EA

			Revisions		S NITOS · CAL	City of
	Date: <u>12-14-20</u>	NO.	DESCRIPTION	DATE		Annual Street Re Project No
	Date: <u>12-14-20</u> Date: <u>12-14-20</u>					Almond Avenue Bik (San Antonio Road
					ORAORATED DECEMBER 11	Signage &

STRIPING LEGEND							
NG ELEMENT	IDEN- TIFIER		IDEN- TIFIER	STRIPING ELEMENT	IDEN- TIFIER	STRIPING ELEMENT	
6	32	STATE DETAIL 32	(24G	SOLID 24" BIKE GREEN		TYPE I ARROW - 18'	
9	38	STATE DETAIL 38	(W)	SOLID 8" WHITE	(V-A)	TYPE IV ARROW (DIRECTION SHOWN)	
21	(38A)	STATE DETAIL 38A	1200	SOLID 12" WHITE	(VI-A)	TYPE VI ARROW	
22	(38B)	STATE DETAIL 38B	24\)	SOLID 24" WHITE		TYPE VIIA ARROW (DIRECTION SHOWN)	
22	(39)	STATE DETAIL 39	(12)	SOLID 12" YELLOW	(SRW)	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10')	
27B	(39A)	STATE DETAIL 39A	(24Y)	SOLID 24" YELLOW	BK	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B)	
29	40	STATE DETAIL 40	MSG	PAVEMENT MESSAGE (MESSAGE SHOWN)	BLD	GREENBACK BIKE LOOP DETECTOR STENCIL	
					BBL	Bufferd Bike Lane. Two D39 Spaced at 24-Inch O.C. with 4" White Hash Spaced at 15-FT O.C.	



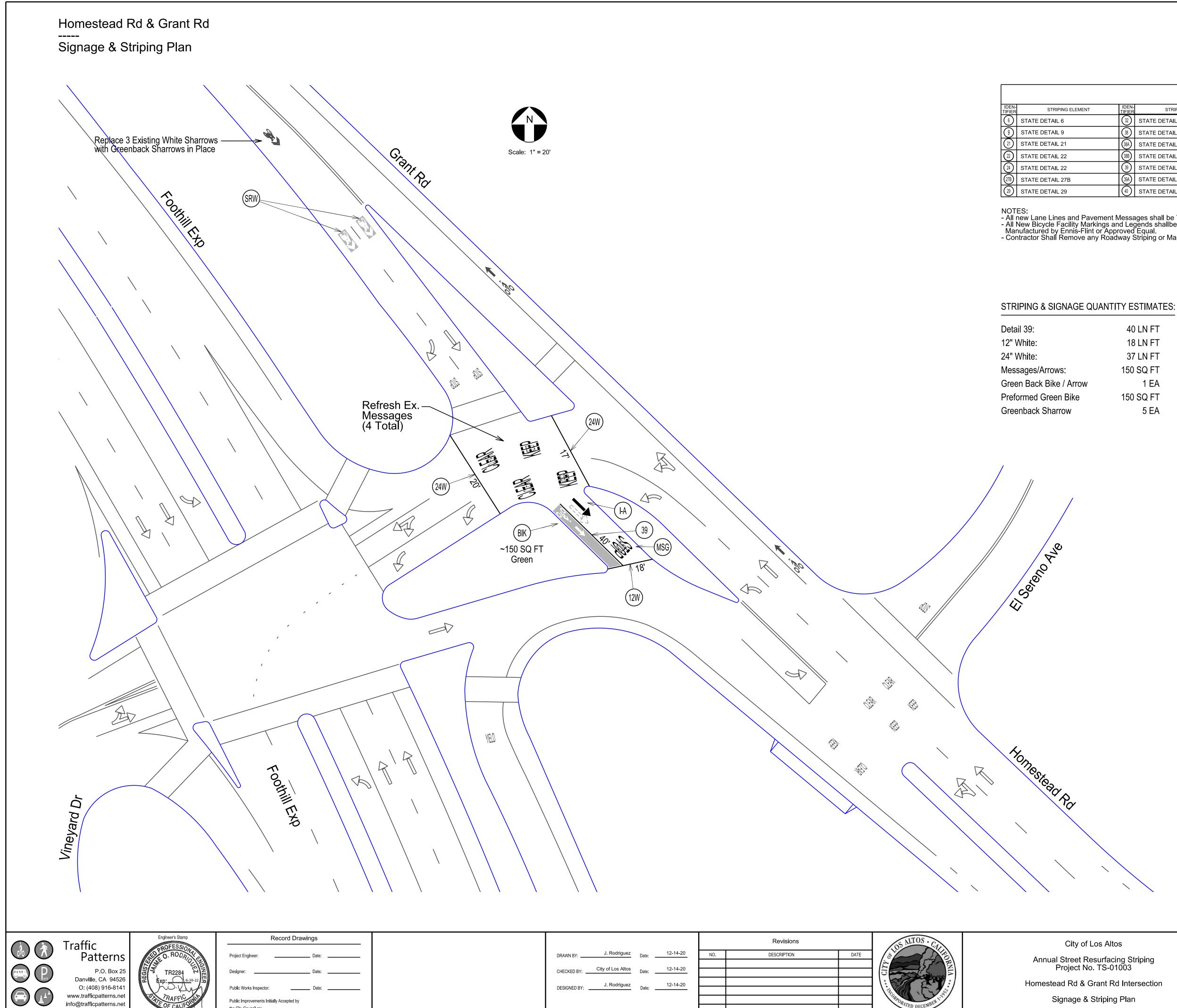
Green Bike, 200 SQ FT	BIK	Green Bike between Ex. D39 Markin ~24 SQ FT Per Block (TYP)		IK				
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Ex. School Signs	BIK	Ex. Sign Post 						THIS
 Ex. Sign Post Remove 15 MPH Add Pole Riser Install School Sig Install Combo Bik No Parking Sign 	SCHOOL SPEED LIMIT	- Remove Ex. No Parking Sign - Install Combo Bike Lane/No Parking Sign, Double-Sided			PING LEGEND			
- Install School Sig	n ce Lane/	A N Y TIME					4	
No Parking Sign	15		6STATE DETAIL 69STATE DETAIL 9	32 STATE DETAIL 32 33 STATE DETAIL 38	24G SOLID 24" BIKE GREEN 8W SOLID 8" WHITE	Image:	4	
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	CHILDREN ARE PRESENT		22 STATE DETAIL 22	(38) STATE DETAIL 38B	24W SOLID 24" WHITE	(VIIA) TYPE VIIA ARROW (DIRECTION SHOWN)	1	
			24 STATE DETAIL 22	(39) STATE DETAIL 39	(12) SOLID 12" YELLOW	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10')]	
			27B STATE DETAIL 27B	(39A) STATE DETAIL 39A	24Y SOLID 24" YELLOW	BIK GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B)		
	ANY TIME		(3) STATE DETAIL 29	(40) STATE DETAIL 40	MSG PAVEMENT MESSAGE (MESSAGE S	SHOWN) BLD GREENBACK BIKE LOOP DETECTOR STENCIL		
	BIKE LANE		NOTES:			Bufferd Bike Lane. Two D39 Spaced at 24-Inch O.C. with 4" White Hash Spaced at 15-FT O.C.	4	
			- All new Lane Lines and Pave	ement Messages shall be Thermoplas	tic unless noted otherwise	BK2 Bike Symbol w/o Arrow		
			- All new Lane Lines and Pave - All New Bicycle Facility Mark Manufactured by Ennis-Flint - Contractor Shall Remove an	ement Messages shall be Thermoplas kings and Legends shallbe Preformed or Approved Equal. Ny Roadway Striping or Markings that a	tic unless noted otherwise. Thermoplastic as are in Conflict with this Plan.	BK2 Bike Symbol w/o Arrow		
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		Covingto	 All new Lane Lines and Pave All New Bicycle Facility Mark Manufactured by Ennis-Flint Contractor Shall Remove an 		tic unless noted otherwise. Thermoplastic as are in Conflict with this Plan.	Bike Symbol w/o Arrow		MATCH LINE SHEET 5
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			 All new Lane Lines and Pave All New Bicycle Facility Mark Manufactured by Ennis-Flint Contractor Shall Remove an 			SIGNAGE	E & STRIPING QUANTITY ESTIMAT	ES ON PAGE 5
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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 C	50 EA
Preformed green bike detect stencil with greenback:	tion 1 EA

			Revisions			City of
DATE	DRAWN BY: J. Rodriguez Date:12-14-20	NO.	DESCRIPTION	DATE		Annual Street R
	CHECKED BY:City of Los Altos Date:12-14-20				-	Project No
					-	Covington Road (El Monte Ave
	DESIGNED BY:J. Rodriguez Date:12-14-20]	(El Monte Ave
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	246	SOLID 24" BIKE GREEN		TYPE I ARROW - 18'	
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		SOLID 24" WHITE		TYPE VIIA ARROW (DIRECTION SHOWN)	
	(12Y) (24Y)	SOLID 12" YELLOW SOLID 24" YELLOW	SRW RK	GREENBACK SHARED LANE MARKING MUTCD FIGURE 9C-9 (4'X10') GREENBACK BIKE LANE STENCIL WITH STRAIGHT	
	(24Y) (MSG)	PAVEMENT MESSAGE (MESSAGE SHOWN		GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B) GREENBACK BIKE LOOP DETECTOR STENCIL	
			(BR) (BR2)	Bufferd Bike Lane. Two D39 Spaced at 24-Inch O.C. with 4" White Hash Spaced at 15-FT O.C.	
oplastic un med Therr	nless not moplast	ted otherwise.	(BK2)	Bike Symbol w/o Arrow	
		with this Plan.			
of Los Ali	tos		RECOM	IMENDED FOR BIDDING BY:	PROJECT NO.
Resurfac		riping			DRAWING NO.
			<u> </u>	DATE:	E.P. NO.
ad Bike In ve to Spr	nprovei inger A	ments ve)	AP	PROVED FOR BIDDING BY:	SCALE None
& Stripin	na Plan			DATE:	Sheet 5



the City Council on:



	Revisions	OS MITOS · CAL	City o
DRAWN BY: J. Rodriguez Date: 12-14-20 CHECKED BY: City of Los Altos Date: 12-14-20	NO. DESCRIPTION DATE		Annual Street F Project N
DESIGNED BY:J. Rodriguez 12-14-20			Homestead Rd &
		CAPORATED DECEMBER 15	Signage &

STRIPING LEGEND

IENT	IDEN- TIFIER	STRIPING ELEMENT	IDEN- TIFIER	STRIPING ELEMENT	IDEN- TIFIER	STRIPING ELEMENT
	32	STATE DETAIL 32	(24G)	SOLID 24" BIKE GREEN	(FA)	TYPE I ARROW - 18'
	38	STATE DETAIL 38	81	SOLID 8" WHITE	$(\mathbb{V}^{\mathbb{A}})$	TYPE IV ARROW (DIRECTION SHOWN)
	(38A)	STATE DETAIL 38A	(12W)	SOLID 12" WHITE	(VI-A)	TYPE VI ARROW
	(38B)	STATE DETAIL 38B	(24W)	SOLID 24" WHITE		TYPE VIIA ARROW (DIRECTION SHOWN)
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	(39A)	STATE DETAIL 39A	(24Y)	SOLID 24" YELLOW	BK	GREENBACK BIKE LANE STENCIL WITH STRAIGHT ARROW, MUTCD FIGURE 9C-3(B)
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	BBL Bufferd Bike Lane. Two D39 Spaced at 24-Inch O. with 4" White Hash Spaced at 15-FT O.C.					
Pavement Messages shall be Thermoplastic unless noted otherwise.						Bike Symbol w/o Arrow

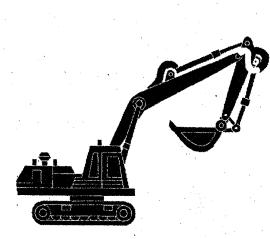
NOTES: - All new Lane Lines and Pavement Messages shall be Thermoplastic unless noted otherwise. - All New Bicycle Facility Markings and Legends shallbe Preformed Thermoplastic as Manufactured by Ennis-Flint or Approved Equal. - Contractor Shall Remove any Roadway Striping or Markings that are in Conflict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

	40 LN FT
	18 LN FT
	37 LN FT
	150 SQ FT
N	1 EA
	150 SQ FT
	5 EA

of Los Altos	RECOMMENDED FOR BIDDING BY:	PROJECT NO.
		DRAWING NO.
Resurfacing Striping No. TS-01003	DATE:	E.P. NO.
& Grant Rd Intersection	APPROVED FOR BIDDING BY:	SCALE
& Striping Plan		1" = 40'
	DATE:	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

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

General

And Site

For Construction

General contractor

Site supervisors

Inspectors

Home builders

Developers

Construction

Supervision

Best Management Practices

Best Management Practices for the

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

As a contractor, or site supervisor, owner or

operator of a site, you may be responsible for

any environmental damage caused by your

direct impact on local creeks and the Bay.

subcontractors or employees

Doing the Job Right

Site Planning and Preventive Vehicle Maintenance

- D Maintain all vehicles and heavy equipment Inspect frequently for and repair leaks.
- D 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 hitches 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

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.
- General 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. Discose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- Collect lawn and garden clippings, pruning waste, and tree trimmings. Chip if necessary, and compost
- In communities with curbside 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 curbside 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.

- **Doing The Job Right** Seneral Principals
- C 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 runoff 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 well away from streams or storm drain inlets, bermed if necessary. Make major repairs off
- Keep materials out of the rain prevent runoff contamination 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 exposed surfaces. Place trashcans and recycling receptacles
- around the site to minimize litter.

Spill Cleanup

- Clean up spills immediately when they hannen
- □ 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 it to the State Office of Emergency Services

Do not blow or rake 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

- 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

Draining 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 anitary sewer cleanout.
- If possible, when emptying a pool or spa let chlorine dissipate for a few days and then recycle/reuse 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 spade filter residue into soil. Dispose of spent diatomaceous earth in the
- 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.
- 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 b 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. aterials/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. Permits
- 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 disturbs one acre or more. Obtair information from the Regional Water Quality Control Board

Best Management Practices for the Construction Industry **Best Management Practices for the** Road crews Driveway/sidewalk/parking lot construction Seal coat contractors. Operators of grading equipment, paving machines, dump trucks, concrete mixers Construction inspectors General contractors Home builders

Roadwork

and

Paving

Developers

Painting and Application of Solvents and **Adhesives**

Best Management Practices for the Construction Industry



Best Management Practices for the

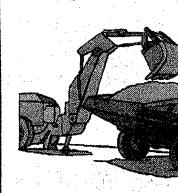
 Homeowners Painters Paperhangers Plasterers Graphic artists Dry wall crews Floor covering installers General contractors

 Home builders Developers

Earth-Moving And Dewatering

Activities Best Management Practices for the

Construction Industry



- **Best Management Practices for the**
- Buildozer, back hoe, and grading machine
- operators
- Dump truck drivers
- Site supervisors
- 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
- naterials 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 an 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 o storm drains, creeks, and the Bay.

Doing The Job Right

Handling Paint Products

- C 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
- U Wash water from painted buildings constructed before 1978 can contain high amounts of lead, even if paint chips are not present. Before you begin stripping paint or cleaning pre-1978 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 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.

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.

- 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
- 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 outs, 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.
- **Painting Cleanup** Never clean brushes or rinse paint
- containers into a street, gutter, storm drain, French drain, or stream. G 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 G 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
- 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 (mop 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 unwanted paint, as hazardous waste. Unopened cans of paint may be able to be
- returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.

Doing The Job Right

- General Business Practices Schedule excavation and grading work during
- drv weather D Perform major equipment repairs away from the
- iob 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 on slopes or 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 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 runof 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, groundwater pumped 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**

- 1. 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
- 2. 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
- When discharging to a storm grain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate. OF pump water through a grassy swale prior to discharge.

Fresh Concrete and Mortar Application Best Management Practices for the Construction Industry

- prohibited by law.

Concrete delivery/pumping workers

Best Management Practices for the

Masons and bricklayers

Sidewalk construction crews

Patio construction workers

Construction inspectors

General contractors

Home builders

Developers

Los Altos Municipal Code Chapter 10.08.390 Non-storm water discharges

- Threatened discharges. It shall be unlawful to cause hazardous materials, domestic waste, or industrial waste to be deposited i threatened discharges unless they are actively being cleaned up.

Los Altos Municipal Code Section 10.08.430 Requirements for construction operations

- of the plan shall be in accordance with guidelines published by the city engineer.
- that the requirements of Section 10.08.240 are met and the approval of the superintendent is obtained prior to discharge. 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.

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



- runoff.

- 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. not flow to streets or drains.
- Wash out chutes onto dirt areas at site that do Always store both dry and wet materials under cover, protected from rainfall and runoff and
- 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
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

Doing The Job Right

General Business Practices

away from storm drains or waterways. Protect

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, causes serious problems, and is

During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period
- G 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
- 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.

gutters or storm drains.

- 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.

Los Altos Municipal Code Requirements



A. 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.

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

A. 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 is necessary to protect surface waters. Preparation

B. 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 storn 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

D. No cleanup of construction debris from the streets shall result in the discharge of water to the storm drain system; nor shall any

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 this drawing sheet.

Spill Response Agencies

DIAL 9-1-1

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

Local Pollution Control Agencies

County of Santa Clara Pollution Prevention (408) 441-1195 Program: County of Santa Clara Integrated Waste (408) 441-1198 Management Program: County of Santa Clara District Attorney Environmental Crimes Hotline:

(408) 299-TIPS

1-800-533-8414

Santa Clara County **Recycling Hotline:**

Santa Clara Valley Water

(408) 265-2600 District: Santa Clara Valley Water District Pollution 1-888-510-5151 Hotline:

Regional Water Quality Control Board San (510) 622-2300 Francisco Bay Region:

Palo Alto Regional Water Quality (650) 329-2598 Control Plant: Serving East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford

City of Los Altos (650) 947-2752 Building Department: Engineering Department: (650) 947-2780

Blueprint for a Clean Bay

Santa Clara **Urban Runoff Pollution Prevention Program**

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