

# County of Santa Clara Roads & Airports Department



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Deputy Director

DATE: March 25, 2008

TO: Bicycle and Pedestrian Advisory Committee

FROM:  Michael Murdter, Director Roads & Airports Department

SUBJECT: Roads and Airports Department Calendar Year 2008 Master Capital  
Projects Plan

## **RECOMMENDED ACTION**

Accept report from the Roads and Airports Department relating to the FY 2009 Recommended Budget and the Calendar year 2008 Master Capital Projects Plan.

## **FISCAL IMPLICATIONS**

The Calendar year 2008 Master Capital Projects Plan represents the Department's plans for allocating available resources. New revenues and expenditures related to the specific projects contained in the Calendar Year 2008 Master Capital Projects Plan are included in the FY 2009 recommended budget.

## **REASONS FOR RECOMMENDATION**

The Master Capital Projects Plan was created as a mechanism to identify, plan and program capital projects based on staff's best estimates of available funding from all sources. Establishing such a work plan has been extremely helpful in promoting intra-departmental coordination, obtaining guidance from the Board on the allocation of resources and informing various stakeholders of the Department's plans. The Plan is based on the calendar year instead of the fiscal year to reflect the fact that the construction season straddles two fiscal years.

The Calendar Year 2008 Master Capital Projects Plan consists primarily of ongoing projects having existing appropriations (“rollover projects”). The 2008 Plan reflects the limited amount available for new capital project appropriations (from Prop. 1B revenue) to fund the:

- Local match for leveraged (i.e. grant-funded) projects
- Annual installment of ongoing multi-year programs such as installation of new sidewalks, curb and gutter, wheelchair ramps, metal beam guard rail and pavement markers
- Additional funding needed for a number of existing projects based on current scope and cost estimates
- Appropriations required for a small number of new projects under \$250K with high benefit/cost ratios such as drainage improvements and slipout repairs

The estimated cost for each line item in the Plan is not shown on the attachment because it is Department practice to disclose the Engineer’s Estimate at the time of bid opening. Of course, the Plan is subject to adjustment during the calendar year to accommodate emergent requirements, bid results, fluctuations in material prices (particularly asphalt concrete, which contains petroleum-based products), etc.

## **ATTACHMENTS**

- Attachment 1 – Calendar Year 2008 Roads and Airports Master Capital Projects Plan

**ROADS AND AIRPORTS DEPARTMENT  
CALENDAR YEAR 2008 CAPITAL PROJECTS MASTER PLAN**

URBAN POCKET	PROJ. NO.	SUP. DIST.	YARD	PROJ ENGR	ROAD	LIMITS		TREATMENT	D E S I G N I N G	C O N S T R U C T I O N
						BEGINNING	ENDING			
<b>EXPRESSWAY PAVEMENT MANAGEMENT PROGRAM</b>										
	1	1, 2	E	PP	Capitol Expressway Pavement Rehabilitation	SR-87	Seven Trees	Pavement Rehabilitation	X	X
	2	5	W	CAP	Oregon Page Mill Expressway Pavement Rehabilitation	I-280	US-101	Pavement Rehabilitation	X	X
	3	3, 4	E	RC/BC	Montague Expressway Pavement Rehabilitation Phase 3	Plumeria	Hwy 880	Pavement Rehabilitation	X	
	4	3, 4	E	RC/BC	Montague Expressway Pavement Rehabilitation Phase 4	Capitol Ave	Hwy 680	Pavement Rehabilitation	X	
	5	3	E	RC	Montague Expressway Pavement Rehabilitation Phase 2	Hwy. 880	Capitol Ave.	Rehab/RAC Overlay		X
<b>NON EXPRESSWAY PAVEMENT MANAGEMENT PROGRAM</b>										
	1	1	S	HN	CY 2008 Non-Expressway Pavement Repairs	South Yard Locations		Pavement Repair	X	X
	2	TBD	W	HN	West Yard Pavement Repair Project			Pavement Repair	X	
	3	TBD	E	HN	East Yard Pavement Repair Project			Pavement Repair	X	
<b>NON-PAVEMENT MAINTENANCE &amp; REPAIR PROJECTS</b>										
	1	All	All	HN	Miscellaneous Road Operations JOC Contracts	Various Locations		Various JOC Contracts	X	X
	2	1	E	KV	San Antonio Valley Maintenance Yard Project			Acquire/Construct Improvement for the New Yard	X	X
	3	3	W	HN	Central Expressway Drainage Improvements	Mathilda	Fair Oaks	Install Debris Separator for Pump Station Subdrain System		X
	4	1	S	PH	Uvas Road	at Dam		Replace Culvert	X	
	5	1	W	PH	Hicks Road	at Guadalupe Dam		Repair Slipout	X	
	6	1	W	PH	Hicks Road	at Alamos Road		Culvert Replacement (part of SCVWD Project)	X	X
Y	7	2, 4	E,W	HN	2007 Curb & Gutter Replacement Project			Curb & Gutter Replacements	X	X
	8	1	S	PH	Cochrane Road	100 ft. before Cochrane Bridge		Repair Slipout	X	
	9	1	W	PH	Alma Bridge Road	0.2 miles from marker 0.011		Repair Slipout	X	
Y	10	2	E	PH	Fisher Avenue Drainage Project	Sunnyslope Avenue	Ciareview Ave.	Drainage Improvements	X	X
<b>STORM DAMAGE</b>										
	1	1	S	MR	Alamos Road	at Cinnabar Hills Road		Tie Back Wall		X
	2	1	W	RC	Gilroy Hot Springs Road	Gilroy Hot Springs Road		Coyote Creek Mitigation Project	X	X
<b>AIRPORT PROJECTS</b>										
	1	2	E	CH	RHV Airport Master Plan EIR			Draft Master Plan Environmental . Documentation	X	
	2	2	E	CH	RHV Airport Aircraft Noise & Operations Monitoring System			Install NOMS		X
	3	1	S	CH	South County Airport Master Plan EIR			Draft Master Plan Environmental . Documentation	X	
	4	5	W	PP	PAO Access Road (Embarcadero Way) Repairs			Pavement Rehabilitation	X	X
	5	5	W	CAP	PAO Automatic Weather Observation Runway Fence			Install AWOS and Pilot controlled Lighting	X	X
<b>PEDESTRIAN AND BICYCLE PROJECTS</b>										
	1			TBD	Expressway Annual Walkway Commitment				X	X
	2			TBD	Expressway Pedestrian Signage Demonstration				X	X
Y	3	Varies	Varies	SMS	FY09 Pedestrian Ramps			Pedestrian Ramps	X	X
	4	2	TBD	TBD	Ped Path on McKee Road, Phase 1	White Road	Staples Avenue	Pedestrian Pathway	X	X
	5	4	W	KV	Bike Shoulder Delineation at San Tomas and Camden	San Tomas and Camden		Bike Shoulder Delineation Project - Phase II	X	X
	6	5	W	TBD	Foothill Expressway at Loyola Bridge			Feasibility Study	X	
	7	4, 5	W	PP	Lawrence Expressway	at Prospect		New Sidewalk	X	X
Y	8	4	E	RC/BC	Burbank Area Ped Improvements	Downing, Thornton	Empey, Basile	New Sidewalk, Ped Improvements	X	X
	9	All	All	SMS	Various Ped Ramp Const (Phase 1 & 2)	County Roads		Install Pedestrian Ramps	X	X
<b>SIGNAL SYNCHRONIZATION &amp; INTELLIGENT TRANSPORTATION SYSTEMS PROJECTS</b>										

**ROADS AND AIRPORTS DEPARTMENT  
CALENDAR YEAR 2008 CAPITAL PROJECTS MASTER PLAN**

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						BEGINNING	ENDING			
	1	TBD	TBD	MA	Study Expwy Cross Streets for Protected Left Turns			provide protected left turns for side streets (3 intersections)	X	X
	2	1, 2, 4	E	AP	Almaden, Capitol and San Tomas Expressway Weekend Signal Timing	3 expressways	Including new signal	Retime traffic signals for weekend signal timing	X	X
	3	4	E	TH/JS	Bascom Avenue ITS Enhancements	Fruitdale Avenue	@ Elliot Avenue	Install CCTV cameras, traffic data collector, Ethernet communication		X
	4	5	W	JS	Foothill Expressway/Pagemill Road	Pagemill Blvd.		Upgrade existing video detection system w/in pavement loop system	X	X
	5	4	E	AP	Camera Installation at San Tomas Expressway and Hwy. 17 Ramps	Hwy. 17 SB off ram	Hwy. 17 SB off ramp/White Oaks	Install surveillance cameras at intersections	X	X
	6	All	E&W	JS	Internet Access of Traffic Camera Feeds			Web Display of Real Time Traffic Conditions		X
	7	All	E&W	CL	Ethernet-capable Controller Communications System			Controller high speed communications and data transmission via fiber		X
	8	4, 5	TBD	CL	Silicon Valley-ITS West Corridor			Install an alternate fiber path on Stevens Creek Blvd.		X
	9	4	E	AP	San Tomas Expressway Traffic Signal Controller Assemblies	Budd Ave.	Bascom	Install new signal controllers at 2 intersections	X	X
	10	3, 4	W	AP	Lawrence Expressway Weekend Signal Timing	Oakmead/Duane	Pruneridge	Retime traffic signals for weekend signal timing		X
Y	11	All	All	JI	Various			Green LED Signal Replacement		X
<b>PROFESSIONAL &amp; SPECIAL SERVICES</b>										
	1	All	All	JI	Transportation Module for Asset Maintenance Management			Extension of MMS		X
	2	5	TBD	TH	National Pollution Discharge Elimination System. (NODES) Support Services			Engineering Services	X	
<b>LEVEL OF SERVICE IMPROVEMENT PROJECTS</b>										
	1	TBD	TBD	BL	Review & Revise Future Width Lines & Expressway Access Policy plus feasibility study to convert paper plans & data into electronic media for plan counter			Study	X	
	3	3	W	TBD	Central Expressway Auxiliary Lanes	Mathilda Avenue	Fair Oaks Avenue	Install Auxiliary Lane		X
	4	4	E	KV	Montague @ Hwy 101 Interchange Improvements - PSR			Project Study Report	X	
	2	1	S	CAP	Monterey and Masten/Fitzgerald	Masten	Fitzgerald	Advance Purchase of ROW		X
	5	3	E	KV	Montague @ Hwy 680 Interchange Improvements - PSR			Project Study Report	X	
	6	5	E	AP	Oregon Expressway	Hwy. 101	State Route 82	Intersection Operation Improvements		X
	7	4	W	CAP/JS	San Tomas Expressway	Homestead Road		Intersection Improvements	X	X
	8	4	W	CAP/JS	San Tomas Expressway	Saratoga Ave		Intersection Improvements	X	X
	9	4	W	WKY	San Tomas Expressway	El Camino Real		Intersection Improvements		X
	10	4	W	CL	San Tomas Expressway	Hamilton Ave		Intersection capacity & signal adaptive	X	X
	11	1, 4	W	RC	Almaden Expressway	Blossom Hill	Branham	Additional Lanes ea. side & Intersection Improvements	X	X
<b>ROAD SAFETY AND LIGHTING PROJECTS</b>										
	1	1	E	MA	Graystone Lane Improvements			Traffic calming and pedestrian facility improvements study	X	X
	2	Varies	Varies	SMS	FY09 Striping, Markings, Markers			Striping, markings, markers	X	X
	3	Varies	Varies	SMS	FY09 Metal Beam Guard Railing			Metal beam guard railing (MBGR)	X	X
	4	5	W	SK	Junipero Serra Boulevard	Stanford Avenue	Campus Drive	Traffic Calming (Phase 2)		X
	5	2	E	CAP	Safety Fence at Capitol Expressway and Monterey					X
	6	1	S	MA	San Martin Avenue/Monterey Road			RR Crossing Improvements (part of VTA project)	X	X
	7	1	W	SMS	Hicks Road Improvements (HR3 Grant)	Shannon Road	Alamitos Road	MBGR, signing, striping, markers		X
	8	3	E	SMS	Sierra Road Improvements (HR3 Grant)	Felter Road	4.3 miles southwesterly	Spot shoulder widening, MBGR, striping, markers, signage		X
	9	All	All	SMS	Various Pavement Striping, Marking & Marker Installation	County Roads		Install Pavement Markers/Markings	X	X
	10	1, 2	E	SMS	Capitol Expressway Improvements (HSIP Grant)	Hwy. 680	Hwy. 87	Thermoplastic striping, markings, markers, signage	X	X
	11	3	E	SMS	Quimby Road Improvements (HSIP Grant)	Deedham Drive	Mt. Hamilton Road	MBGR, signing, striping, markers	X	X
	12	2	S	CL	Santa Teresa Blvd./Fitzgerald Avenue Intersection Improvements	Fitzgerald Avenue		Intersection geometrics modification & signalization	X	X
	13	1	E	KV	DeWitt Avenue S-Curve PSR			Update earlier grant application to be ready for VTP2030 grant request	X	

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						BEGINNING	ENDING			
<b>BRIDGE PROJECTS</b>										
<b>HBRR-SEISMIC RETROFIT</b>										
	1	3	W	HG	Lakedale POC at Lawrence Expressway (Bridge 37C-208)			Seismic Retrofit		X
	2	5	W	HG	Bailey Avenue OC at Central Expressway (Bridge 37C-121)			Seismic Retrofit		X
	3	4	W	HG	Lawrence Expressway OC at Central Expressway (Bridge 37C-183)			Seismic Retrofit		X
<b>HBRR-REPLACEMENT</b>										
	1	5	W	GR	Stevens Creek Bridge at Stevens Canyon Road (37C-577)			Bridge Replacement		X
	2	5	W	GR	Stevens Creek Bridge at Stevens Canyon Road (37C-576)			Bridge Replacement		X
	3	1	S	HG	Uvas Creek Bridge at Uvas Road (37C-093)			Bridge Replacement		X
	4	5	W	GR	Stevens Creek Bridge at Stevens Canyon Road (37C-574)			Bridge Replacement		X
	5	5	W	GR	Stevens Creek Bridge at Stevens Canyon Road (37C-575)			Bridge Replacement		X
	6	1	S	HG	Little Uvas Creek Bridge at Uvas Road (37C-095)			Bridge Replacement		X
	7	1	S	HG	Llagas Creek Bridge at Uvas Road (37C-096)			Bridge Replacement		X
	8	1	S	HG	Uvas Creek Bridge at Uvas Road (37C-094)			Bridge Replacement		X
	9	1	W	AD	Alamitos Creek Bridge at Alamitos Road (37C0159)			Bridge Replacement		X
<b>HBRR-REHABILITATION &amp; SPOT SAFETY PROJECTS</b>										
	1	1	S	AD	Fisher Creek Bridge @ Tilton Ave (37C-579)			Bridge Rehabilitation		X
	2	1	S	MR	Little Llagas Creek Bridge @ Center Avenue (37C-523)			Bridge Rehabilitation		X
	3	5	W	TBD	Los Trancos Creek Bridge @ Arastradero Rd. (37C-513)			Bridge Rehabilitation		X
	4	1	S	TBD	Red Fox Creek Bridge @ New Avenue (37C-172)			Bridge Rehabilitation		X
	5	5	W	TBD	Stevens Creek Bridge @ Stevens Canyon Road (37C-573)			Bridge Rehabilitation		X
	6	5	W	AD	Loyola Drive/Foothill Expressway (37C0117)			Bridge Rehabilitation		X
<b>BRIDGE-REPAIR &amp; MAINTENANCE</b>										
	1			TBD	San Tomas Box Culvert					X
	2	All	All	GR	Bridge Inspection (bi-annual)/Load Rating (09/10)			Bridge Inspection		X
	3	1	S	GR	Cochran Bridge Monitoring 37C-166			Bridge Monitoring		X
	4	All	All	GR	Bridge Preventive Maintenance Program (08/09)			Bridge Maintenance		X
	5	1	S	GR	Carnadero Creek/Bloomfield Avenue (37C-0103)			Scour Protection		X
	6	1	S	GR	Llagas Creek/Masten Avenue (37C-0170)			Scour Protection		X
	7	1	S	GR	Herbert Creek/Alamitos Road (37C-0581)			Scour Protection		X
	8	1	S	GR	Llagas Creek/Bowden Court (37C-0518)			Scour Protection		X
	9	3	E	GR	Beauregard Creek/Del Porto Road (37C-0530)			Scour Protection		X
	10	1	S	GR	Furlong Creek/Frazer Road (37C-0534)			Scour Protection		X
	11	1	S	GR	Hunting Hollow Creek/Gilroy Hot Spring Road (37C-0538)			Scour Protection		X
	12	2	E	GR	Coyote Creek/Hellyer Avenue (37C-0541)			Scour Protection		X
	13	1	S	GR	Llagas Creek/Llagas Avenue (37C-0550)			Scour Protection		X
	14	5	W	GR	Hale Creek/Magdalena Court (37C-0553)			Scour Protection		X
	15	5	W	GR	Stevens Creek/Stevens Canyon Road (37C-0571)			Scour Protection		X
	16	1	S	GR	Pacheco Creek/Walnut Avenue (37C-0581)			Scour Protection		X
	17	All	All	GR	Scour Protection			Scour Protection - Various Location		X
	18	All	All	GR	Bridge Inspection (bi-annual)/Load Rating (07/08)			Bridge Inspection		X