



County of Santa Clara

General Services Agency
Facilities Department
Building Operations Division

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EETF Report Bel #6
Attachment



May 31, 2001

TO: G. Kevin Carruth, Director
General Services Agency

FROM: Steve Black, Manager
Building Operations Division

SUBJECT: Santa Clara County Cool Roof Program

There has been substantial interest expressed in the Cool Roof Program. The attached spreadsheets outline the General Services Agency's efforts, via the Building Operations Division to install cool roof products and Building Operations planned activities for the continued participation in the now certified Cool Roof Incentive Program being offered by the California Energy Commission (CEC).

The first sheet entitled *Completed Roof Projects*, lists the roofs on County buildings that have been covered with this light or white colored material since 1997. These materials are either an actual roof membrane where a new roof was being installed or a sealer coating that was applied to roofs to extend their life. Prior to the announcement of the CEC program, Building Operations had installed these lighter colored materials on 28 County roofs encompassing 682,300 square feet of roof.

The second spreadsheet entitled *Scheduled Roof Projects* lists the buildings that are planned for the cool roof material over the next year by Building Operations. This will expand our program to another 11 County roofs and add 172,500 square feet of roof to our program at a cost of \$1,047,600. These projects are funded through the FY 2001 Backlog Program or planned for funding through the FY 2002 Backlog Program. To accelerate the installation of these projects Building Operations is currently preparing to contract out the projects that were originally programmed for late summer 2001 and into the calendar year 2002 roofing season so that energy conservation from these projects can be realized sooner.

The third Spreadsheet entitled *Backlog Projects*, lists the future identified roofing projects that will be programmed when funds become available and the workload can be managed. These identified projects will further expand the cool roof application an additional 456,680 square feet of roof at a cost of \$2,584,000.

These three spreadsheets represent approximately 80% of the roof surfaces maintained by Building Operations. The remaining roofs are either too small to be effectively included in the program, a type of roof that is not conducive to the application of the cool roof material (non-heated or cooled space, red tile roofs or shingles), the roof is too new to be currently considered for a re-roof—re-seal process or roofs that have not yet been identified as needing re-roofing maintenance. Our Roofing Management Plan will eventually include these remaining roofs.

The "Cool" roofs that were installed prior to the passage of California Assemble Bill 970 in September 2000 are not eligible for the new CEC Cool Roof Program incentive but the County is benefiting from the energy conservation achieved from the application of these products. We have applied for the incentive for the roofs that will be completed under the 2001 Cool Roof Program and we are preparing the paperwork in anticipation of the 2002 Cool Roof Program incentive when and if it is announced.

cc: Susan Phillips
Bob Whitehair

COMPLETED COOL ROOF PROJECTS

FAC #	Building	ST #	Address	City	Zip	Bldg Use	Bldg Footage	Roof Footage	Floor #	Color	Date Scheduled	Date Completed	Comments	Estimate
0102	CCOB WEST WING	70	W HEDDING ST - WEST	SAN JOSE	95110	OFFICE	130,950	20,000	8	Lt. Gray		2000	NEW SPRING 97 / COLD PROCESS / PM	
0104	MAIN JAIL SOUTH - DOC	180	W HEDDING ST	SAN JOSE	95110	JAIL	113,200	15,300	4	Lt. Gray		2000	NEW 98 COLD PROCESS / PM	
0103	SAN JOSE-MILPITAS MUNICIPAL COURT	200	W HEDDING ST	SAN JOSE	95110	COURT	70,100	28,300	5	Lt. Gray		1999	NEW 98 COLD PROCESS / PM	
0208	DOWNTOWN SUPERIOR COURT	191	NORTH FIRST ST	SAN JOSE	95133	COURT	124,600	20,787	5	White		1997	NEW 96 COLD PROCESS / PM	
0404	SHERIFF'S DEPARTMENT	55	W YOUNGER ST	SAN JOSE	95110	OFFICE	97,400	48,700	2	White		2000	FOAM	
0501	GSA COMMUNICATIONS-MAIN BLDG	2700	CAROL DR	SAN JOSE	95125	OFFICE	26,580	28,580	1	White		1998	NEW 97 COLD PROCESS / PM	
0502	GSA COMMUNICATIONS-SERVICE BLDG	2700	CAROL DR	SAN JOSE	95125	SUPPORT	10,000	10,000	1	White		1998	NEW 97 COLD PROCESS / PM	
0704	EAST VALLEY HEALTH	1989	MCKEE RD	SAN JOSE	95118	CLINIC	15,600	15,000	1	White		1997	BUR/CAP	
0730	ALEXIAN DR. COMPLEX	2101	ALEXIAN DR	SAN JOSE	95118	OFFICE	17,300	18,000	1	White		2000	NEW 00 BUR / CAP	
2003	NORTH COUNTY MENTAL HEALTH	231	GRANT ST	PALO ALTO	94308	CLINIC	6,800	6,800	1	Lt. Gray		1995	NEW SPRING 99 / COLD PROCESS	
2006	NORTH COUNTY OFFICE	270	GRANT ST	PALO ALTO	94308	OFFICE	66,375	12,748	4	White		2000	NEW COLD PROCESS	
2110	PROBATION-WORK FURLOUGH CENTER	590	E MIDDLEFIELD RD	MT VIEW	94043	JAIL	33,118	33,118	1	White		1998	NEW 98 COLD PROCESS / PM	
2401	SUNNYVALE MUNICIPAL COURT	505	W EL CAMINO REAL	SUNNYVALE	94087	COURT	21,000	21,000	1	White		1999	NEW 98 COLD PROCESS / PM	
2403	FAIR OAKS MENTAL HEALTH CENTER	560	S FAIR OAKS AVE	SUNNYVALE	94087	CLINIC	6,800	6,800	1	Lt. Gray		1998	NEW 98 COLD PROCESS / PM	
2404	FAIR OAKS PUBLIC HEALTH CENTER	564	S FAIR OAKS AVE	SUNNYVALE	94087	OFFICE	12,400	12,400	1	Lt. Gray		1998	NEW 98 COLD PROCESS / PM	
2904	LOS GATOS MUNICIPAL COURT	14205	CAPRI DR	LOS GATOS	95030	COURT	12,000	12,000	1	White		1998	NEW 98 COLD PROCESS / PM	
3101	SOUTH COUNTY MAIN BLDG	80	W HIGHLAND AVE	SAN MARTIN	95046	OFFICE	17,500	17,800	1	White		2001	NEW COLD PROCESS	
3113	SO COUNTY COURT COMPLEX		HIGHLAND AVE	SAN MARTIN	95046	COURT	24,500	24,500	1	WHITE		2001	NEW WHITE SINGLE PLY	
3101	JAMES RANCH-ADMINISTRATION BLDG	19050	MALAGUERRA AVE	MORGAN HILL	95037	OFFICE	30,900	30,900	1	Lt. Gray		2000	NEW COLD PROCESS	
3106	JAMES RANCH-DORMITORY	19050	MALAGUERRA AVE	MORGAN HILL	95037	JAIL	2,000	2,000	1	Lt. Gray		2000	NEW 98 / COLD PROCESS / PM	
3121	JAMES RANCH-COVERED WALKWAY	19050	MALAGUERRA AVE	MORGAN HILL	95037	SUPPORT	15,000	15,000	1	Lt. Gray		1997	COLD PROCESS	
3201	HOLDEN RANCH-ADMIN / DINING / KITCHEN	19050	MALAGUERRA AVE	MORGAN HILL	95037	OFFICE	30,900	30,900	1	Lt. Gray		2000	NEW COLD PROCESS	
3204	HOLDEN RANCH-DORMITORY / REC ROOM	19050	MALAGUERRA AVE	MORGAN HILL	95037	JAIL	3,000	3,000	1	Lt. Gray		2000	NEW COLD PROCESS	
3901	JUVENILE HALL-MAIN DETENTION BLDGS	840	GUADALUPE PKWY	SAN JOSE	95110	JAIL	160,700	32,140	5	Lt. Gray		1997	NEW 98 COLD PROCESS / PM	
3902	JUVENILE HALL-KITCHEN/SHOP	840	GUADALUPE PKWY	SAN JOSE	95110	OFFICE	20,000	20,000	1	Lt. Gray		1997	NEW 92 / PM	
3903	JUVENILE HALL-OSSBORNE SCHOOL (CLASSROOM)	840	GUADALUPE PKWY	SAN JOSE	95110	SCHOOL	2,400	2,400	1	Lt. Gray		1995	NEW 92 / PM	
6144	EL MWD REHAB CNTR-CCW-W1 (OLD WDF MAIN BLDG)	701	S ABEL ST	SAN JOSE	95110	JAIL	18,200	18,200	1	White		1997	NEW 95 - UNDER PM	

Subtotal Sq. Ft.

1,288,137 682,329

SCHEDULED ROOF PROJECTS

FAC #	Building	ST #	Address	Electric Acc No	Bldg Use	Bldg Footage	Roof Footage	Floor #	Color	Date Scheduled	Date Completed	Comments	Estimate
6101	ELMWD REHAB CNTR-OLD ADMIN/SUPPORT SVCS ADMIN	701	S ABEI ST	CVP2885851	OFFICE	5,300	4,000	1	WHITE/ LT GREY	5/1/2001		SPRAY WHITE COLD PROCESS	\$32,000.00
6148	ELMWD REHAB CNTR-OLD PROCESSING BLDG	701	S ABEI ST		JAIL	16,900	7,500	1	WHITE EPDM	5/1/2001		COLD PROCESS WHITE	\$18,600.00
6149	ELMWD REHAB CNTR-CCW-MEDIUM-WEST NO/SO	701	S ABEL ST		JAIL	5,000	5,000	1	WHITE GRAVEL	5/2/2001		COLD PROCESS WHITE	\$15,000.00
1309	ALCOHOL RECOVERY - MARIPOSA LODGE	9500	MALECH RD.		HOUSING	23,748	30,000	2	WHITE GRAVEL	6/1/2001		SINGLE PLY WHITE	\$144,000.00
3205	SSA CHILD PROTECTIVE SERVICES	7350	ROSANNA ST		OFFICE	4,650	5,500	1	WHITE CAPSHEET	6/1/2001		SINGLE PLY WHITE	\$85,000.00
3112	SOUTH COUNTY MENTAL HEALTH	80	W HIGHLAND AVE		OFFICE	24,000	24,000	1	WHITE CAPSHEET	7/1/2001		COLD PROCESS WHITE	\$108,000.00
0935	MEDICAL EXAMINER/CORONER	850	THORNTON WAY.	HVP4319552	OFFICE	20,300	14,000	1	WHITE HYPALON	8/1/2001		SINGLE PLY WHITE	\$280,000.00
0103	HALL OF JUSTICE	190	W HEDDING ST.		COURT	138,900	18,100	4	WHITE CAPSHEET	9/1/2001		COLD PROCESS WHITE	\$218,000.00
0797	EAST VALLEY MENTAL HEALTH	1991	MCKEE RD		CLINIC	10,000	6,300	1	WHITE CAPSHEET	5/1/2002		COLD PROCESS WHITE	\$67,000.00
1307	MURIEL WRIGHT GIRLS RANCH-ADMIN / DORMS	298	W BERNAL RD		JAIL	20,800	28,600	1	Single Ply Torch Down	8/1/2001		COLD PROCESS WHITE	\$80,000.00
1302	PROBATION-MURIEL WRIGHT GIRLS RANCH-CLASSROOM	298	W BERNAL RD		MODULAR	1,440	28,600	1	Single Ply Torch Down	8/1/2001		COLD PROCESS WHITE	\$1,440.00

Subtotal Sq. Ft.

271,038 172,500

Total Estimate: \$1,047,600.00

BACKLOG ROOF PROJECTS - ESTIMATED

Priority	FAC #	Building	St. #	Address	Bldg Use	Bldg footage	Roof footage	Floor #	Date Scheduled	Date Completed	Estimate
1	0121	CIVIC CENTER PARKING 40g	171	W. YOUNGER ST.	GARAGE		800	1			\$10,000.00
2	0916	PARK ALAMEDA 455	976	LENZEN AVE.	CLINIC	74,300	24,900	4			\$393,000.00
3	3109	SOUTH COUNTY MEDICAL 120	90	W HIGHLAND AVE.	OFFICE		6,700	1			\$108,000.00
4	2902	WEST VALLEY HEALTH 63	375	KNOWLES DR.	CLINIC		6,240	1			\$130,000.00
5	5602	COUNTY SERVICE CENTER-BUILDING #2	1555	BERGER DR.	OFFICE	242,300	66,300	4			\$210,000.00
6	5904	JUVENILE HALL-GYMNASIUM	840	GUADALUPE PKWY.	OFFICE	9,548	107,000	4			\$107,000.00
7	5902	JUVENILE HALL-KITCHEN/SHOP	840	GUADALUPE PKWY.	OFFICE	21,879	21,879	1			\$153,000.00
7	5905	JUVENILE HALL-OSBORNE SCHOOL (CLASSROOM)	840	S. ABEL ST.	SCHOOL	2,400	21,879	1			
8	5109	JAMES RANCH-KITCHEN & DINING	19050	MALAGUERRA AVE.	SUPPORT	3,648	3,648	1			\$41,000.00
9	5110	JAMES RANCH-RECREATION HALL	19050	MALAGUERRA AVE.	SUPPORT	7,171	7,171	1			\$29,000.00
10	5111	JAMES RANCH-OFFICE/CLASSROOMS/SHOPS	19050	MALAGUERRA AVE.	OFFICE	7,669	7,669	1			\$54,000.00
11	0209	DOWNTOWN SUPERIOR COURT	191	NORTH FIRST ST.	COURT	124,600	35,000	7			\$80,000.00
12	6185	ELMWD REHAB CNTR-NEW PROGRAMS BLDG/SHOPS	701	S. ABEL ST.	SUPPORT	33,374	17,000	2			\$153,000.00
13	6187	ELMWD REHAB CNTR-MEDICAL/PROCESSING	701	S. ABEL ST.	OFFICE	43,070	26,439	2			\$200,000.00
14	6193	ELMWD REHAB CNTR-NEW ADMINISTRATION BLDG	701	S. ABEL ST.	OFFICE	34,920	34,920	1			\$300,000.00
15	6134	ELMWD REHAB CNTR-CARPENTRY SHOP (OLD BLOCK HOUSE)	701	S. ABEL ST.	SUPPORT	3,691	3,691	1			\$3,000.00
16	0114	MAIN JAIL NORTH - DOC	150	W. HEDDING	JAIL	325,000	35,193	10			\$352,000.00
17	0407	GSA-GARAGE GAS STATION	90	W. YOUNGER ST.	OFFICE	60,000	946	1			\$8,000.00
18	6111	ELMWD REHAB CNTR-DINING HALL (OLD KITCHEN)	701	S. ABEL ST.	SUPPORT	11,055	11,055	1			\$94,000.00
19	6114	ELMWD REHAB CNTR-EAST GATE	701	S. ABEL ST.	OFFICE	100	100	1			\$1,000.00
20	6127	ELMWD REHAB CNTR-SHOP (OLD CLOTHING)	701	S. ABEL ST.	SUPPORT	1,760	1,760	1			\$21,000.00
21	6145	ELMWD REHAB CNTR-CHAPEL (LIBRARY)	701	S. ABEL ST.	OFFICE	2,331	2,331	1			\$26,000.00
22	5104	JAMES RANCH-VOCATIONAL EDUCATION	19050	MALAGUERRA AVE.	OFFICE	5,268	5,268	1			\$34,000.00
23	5107	JAMES RANCH-TRAINING ROOM & FREEZER	19050	MALAGUERRA AVE.	SUPPORT	2,657	2,657	1			\$18,000.00
24	5113	JAMES RANCH-MAINTENANCE	19050	MALAGUERRA AVE.	SUPPORT	1,820	1,820	1			\$20,000.00
25	5114	JAMES RANCH-SUPERINTENDENT'S HOUSE	19050	MALAGUERRA AVE.	HOUSE	2,818	2,818	1			\$30,000.00
26	5117	JAMES RANCH-TOOL ROOM 15	19050	MALAGUERRA AVE.	SUPPORT	1,500	1,500	1			\$11,000.00

Subtotal Sq. Ft.

1,022,879 456,684

Total: \$2,584,000.00