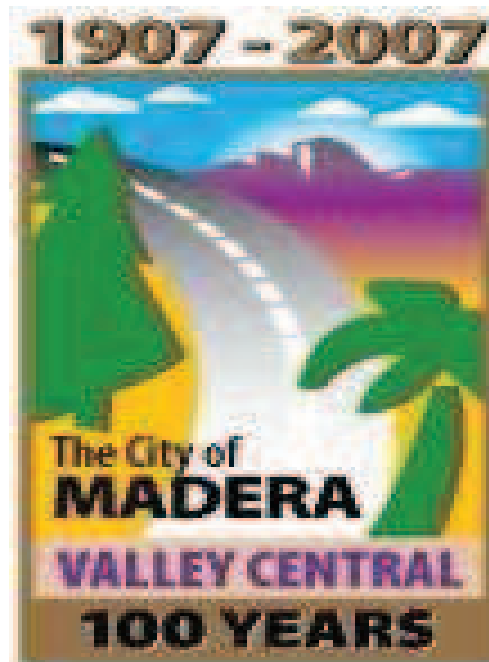


CITY OF MADERA



CAPITAL IMPROVEMENT PLAN (CIP)

FISCAL YEAR 2016-17 to 2020-21

CAPITAL IMPROVEMENT PLAN FISCAL YEARS 2016-17 TO 2020-21

As part of the City of Madera budget funding for the Capital Improvement Plan (CIP), the five-year plan is prepared and organized by staff from the Engineering Division, Community Development Department, and presented to the Planning Commission for conformity.

The following criteria were followed in creating the CIP

1. Projects represent Improvements
2. Projected to a maximum of ten (10) years
3. Cost ranges from a minimum of \$5,000

The Plan is composed of six City departments and one called "Other" as shown on the next page. The sources of funds supporting the projects in this plan comes from Transportation funds, Development Impact fees, State and Federal Aid derived through funding applications, and local revenues.

Projects that were included in the CIP are Airport construction and improvements, Community Development, Infrastructure, Parks and Recreation, Water and Sanitary Sewer utilities upgrade and improvements, Drainage Systems improvements, Transit Facilities, and purchase of buses, trucks and small vehicles.

Management of the CIP includes the use of a Database Software called Plan-It and is utilized and maintained by the Engineering Division to enter all the information needed and generate a report like the one attached.

The CIP is a progressive and continuous plan that is updated every year and reviewed by the Engineering Division staff with a joint effort and coordination with the other City departments.

The CIP is considered as a very useful Planning tool in managing the projects with programmed funds that are to be included in the annual budget proposals for the City of Madera.

City of Madera, California

Capital Plan

'16/'17 thru '20/'21

PROJECTS BY DEPARTMENT

Department	Project#	Priority	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport								
Tee Hangar Design Phase I	AIP 25	1	89,000					89,000
Tee Hangar Taxiway & Apron Construction Phase I	AIP 28	1			70,000	547,000		617,000
Tee Hangar Development Construction Phase II	AIP 29	1				68,750	637,000	705,750
Apron Reconstruction Phase II	AIP 30	1	1,570,000					1,570,000
Apron & Taxiway Drainage	AIP 31	1			55,000	526,000		581,000
Runway, Taxiway & Apron Crack Seal	AIP 33	1		488,000				488,000
Extend Commercial Hangar Development - Phase III	AIP 34	1				166,000	1,537,500	1,703,500
Extend & Rehab Runway 12-30, Extend Taxiway P	AIP 35	1					620,000	620,000
Airport Gate Security Update	AIP 36	1		26,250	353,000			379,250
AGIS Survey & Obstruction Mitigation Plan	AIP 37	1		125,000				125,000
Airport Total			1,659,000	639,250	478,000	1,307,750	2,794,500	6,878,500
Community Development								
City Hall Relocation & Expansion	Misc-1	1					19,863,000	19,863,000
Community Development Total							19,863,000	19,863,000
Engineering								
Torres Wy. Alley Paving	ALY-01	1		15,000		170,000		185,000
Alley Paving	ALY-02	1		50,000	630,000			680,000
Westberry Bridge Construction	B-2	3				500,000	500,000	1,000,000
BPMP List of City Bridges	B-3	1	1,800					1,800
BPMP Rehab/Repair of 3 Bridges	B-4	1	20,000	83,500				103,500
Sharon Blvd. Plan, Ellis St. to Avenue 17	CDD-1D-ST	1	45,000					45,000
CNG Compressor	CNG11-1	1	20,000					20,000
Micro-Paver Distress Survey	Misc-4	1	10,000	5,000		5,000	60,000	80,000
Master Utility Plan Update, II	MP Update II	1					500,000	500,000
Olive Ave. Widening - Gateway to e/o Roosevelt	R-10	1	2,440,000	3,530,000				5,970,000
Fourth St. Tree Replacement - Pine to K	R-25 EX	1	125,000					125,000
Contingency / Project Administration	R-31	1	130,000	130,000	130,000	130,000	130,000	650,000
UPPR Crossing - Street Approach	R-32	1	100,000	50,000	50,000	50,000	50,000	300,000
Raymond Rd. Shoulder n/o Cleveland Ave.	R-37	1	30,000	272,000				302,000
Gateway/Central/3rd/E St. Sidewalks	R-38	1	305,000					305,000
Concrete Projects - Share Program	R-41	1	51,000	20,000	20,000	20,000	30,000	141,000
Lake St. Widening - Fourth St. to Cleveland Ave.	R-46	1	230,000	420,000	2,770,000			3,420,000
Olive Ave. Concept Plan	R-49	1	12,000					12,000
Pine St. Reconstruction - Howard to Fourth St.	R-50	1			518,000			518,000
Thomas Jefferson/John Adams Sidewalks	R-51	1	305,000					305,000
Cleveland Ave. Improvements - Schnoor Ave. to SR99	R-54	1	100,000	100,000	100,000			300,000
Fourth St. Median Landscaping	R-56	1	5,000					5,000
Fourth/Lake/Central Intersection	R-57	1	60,000	505,000				565,000
Schnoor Ave. Sidewalks	R-58	1		22,000	128,000			150,000
Storey Rd. Shoulder Paving	R-60	1		31,000	270,000			301,000
Pedestrian Facilities/Schools & Commercial Areas	R-62	n/a	272,000					272,000
Riverwalk Dr. Improvements	R-63	1	110,000					110,000

Department	Project#	Priority	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
ADA Walkability Sidewalks, 2016-2017	R-64	1	242,000	58,000	96,000	101,000	128,000	625,000
Surface Seals and AC Overlays, 2016-2017	R-65	1	600,000	30,000	570,000	30,000	570,000	1,800,000
Sunset Ave. Sidewalks	R-66	1	30,000	315,100				345,100
Pecan Ave. Shoulder Paving	R-67	1		146,000	519,000			665,000
Golden State Blvd. Shoulder Paving	R-68	1		12,000	113,000			125,000
Schnoor Ave. Trunk Sewer System	S-12 (S-5)	1	70,000	1,115,000				1,185,000
Southeast Quadrant Sewer Improvements	S-996	4				106,200	100,000	206,200
San Sebastian Basin Overflow Pipeline	SD-12	1		68,000				68,000
Various Retention Basins	SD-13-PX	1	50,000	50,000	50,000	50,000		200,000
Granada Dr./Avenue 12 1/2 Retention Basin	SD-14-P11	1	95,000					95,000
Ellis St./Krohn St. Retention Basin	SD-15-P07	1	95,000					95,000
Replace Sewer Main - Wessmith Wy.	SS-1	2	46,000					46,000
Replace Sewer Main - Sherwood Wy.	SS-2	2	40,000	423,000				463,000
Fairgrounds Liftstation	SS-6	n/a	450,000					450,000
Yosemite Ave. & Elm St. Traffic Signal	TS-09	1	130,000					130,000
Granada Dr. & Howard Rd. Traffic Signal	TS-17	1	65,000	275,000				340,000
Howard Rd./Westberry Blvd. Traffic Signal	TS-19	3	405,000					405,000
Sunrise Ave. & Tozer St. Traffic Signal	TS-20	1		25,000	160,000			185,000
HOPYQ Intersections	TS-23	1		15,000	120,000			135,000
Water Main Upgrades - Locations 1-12	W-03	1		100,000	750,000			850,000
Water Main Upgrades - Locations 13-23	W-04	1		120,000	1,380,000			1,500,000
Water Main Upgrades - H St.	W-06	1			10,000	255,000		265,000
Water Main Upgrades - 10th St.	W-08	1			10,000	770,000		780,000
River Crossing Water Main Gateway Dr./Riverside Dr	W-09	1	205,000					205,000
Well No. 27 Pipeline Outfall Extension	W-17	1	45,000	530,000				575,000
Well #28 Pumps Replacement	W-20	1		500,000				500,000
Commercial Water Meters	W-23	1	130,000					130,000
Water Tower Demolition	W-26	1	15,000	285,000				300,000
Sycamore St. Water Main - Lake St. to Clinton St.	W-28	1	75,000					75,000
Maple St. Water Pipe - Pine St. to Noble St.	W-FF-1	3	54,000					54,000
Rotan Ave. Water Pipe - Howard Rd. to Plumas St.	W-FF-2	3	40,000					40,000
Plumas St. Water Pipe - Rotan Ave. to 330 ft. West	W-FF-3	3	18,000					18,000
Olive Ave. Water Pipe - Pine St. to Noble St.	W-FF-4	3	54,000					54,000
Water Well No. 37 - Pump & Electrical	W-GW-1	3	992,000					992,000
Water Well No. 35, Ellis St 970 ft w/o Chapin St	W-GW-2	4					2,011,000	2,011,000
Water Well No. 36, Hwy 145 and Indigo Dr	W-GW-3	4		121,000				121,000
Lake St. Water Pipe - Ellis St. to Avenue 17	W-PNE-4	2		60,000	25,000	615,000		700,000
Aviation Dr. Water Pipe - Airport Dr. to 12" Line	W-PNW-29	3					6,700	6,700
Aviation Dr. Water Pipe - Aviation Dr./Falcon Dr.	W-PNW-30	3					13,000	13,000
Pump Station for Tank at Ave. 17 & Lake St.	W-PS-1	2	201,000	158,000	103,000	377,000	5,893,000	6,732,000
Pecan Ave. Water Pipe - Madera to e/o Madera	W-PSE-3	3				5,000	51,000	56,000
Almond Ave. Water Pipe - Pine St. to Stadium Rd	W-PSW-45	3					88,000	88,000
Pecan Ave. Water Pipe, Monterey to w/o Monterey	W-PSW-50	3	35,300					35,300
Water Storage Tank Installation	W-T-1	2	290,000	225,000	148,000		9,000,000	9,663,000
Engineering Total			8,844,100	9,864,600	8,670,000	3,184,200	19,130,700	49,693,600

Fire Department

Fire Station 7 - Parking Lot Paving	FD-01	1	67,000					67,000
Fire Station, Northwest	FD-02	1				3,425,000		3,425,000
Fire Station 6 Parking Lot	FD-03	1		70,000				70,000
Fire Department Total			67,000	70,000		3,425,000		3,562,000

Parks & Community Services

Bike Lane Projects - Various Locations	PK-01	1	32,600	32,000	33,000	34,000	35,000	166,600
FRT - Gateway & UPRR Undercrossing	PK-08	1	983,000					983,000

Department	Project#	Priority	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Laurel Bike Path - Sunset Ave. to FRT	PK-12	1	5,000					5,000
Sunrise Rotary Sports Complex Improvements	PK-13	1	351,000					351,000
Tulare/Cleveland/Raymond Bike Path	PK-48	1		10,000	315,000			325,000
FRT - Schnoor Bridge - North Undercrossing	PK-54	1	20,000	330,000				350,000
Bike/Ped Path - FRT to Cleveland Ave.	PK-56	1	54,000	300,000				354,000
FRT - MID to Schnoor, North Bank	PK-57	1	23,000	229,000				252,000
FRT - Granada to MID, North Bank	PK-58	1	36,000	113,000				149,000
Knox Park Rehabilitation	PK-59	1	98,000					98,000
Centennial Park Playground	PK-61	1	503,000					503,000
Parks & Community Services Total			2,105,600	1,014,000	348,000	34,000	35,000	3,536,600
Public Works								
Sewer Main, Manhole Covers	S-07	1	10,000	65,000				75,000
Northwest Quadrant Storm Drain Improvements	SD-14	4	100,000	100,000	500,000	1,000,000	2,000,000	3,700,000
Southeast Quadrant Storm Drain Improvements	SD-15	4	100,000	500,000	1,000,000	2,000,000	13,900,000	17,500,000
Water Tower Recoating	W-22	1	10,000	1,490,000				1,500,000
Downtown Valve Replacement	W-29	1	130,000					130,000
Public Works Total			350,000	2,155,000	1,500,000	3,000,000	15,900,000	22,905,000
RDA Successor Agency								
Adel St. Improvement Project	RDA 16-01	1	2,500,000					2,500,000
Riverside Villas of Madera	RDA 16-02	1	160,000					160,000
Riverwalk Dr. Improvements Project	RDA ST10-03	1	120,000					120,000
RDA Successor Agency Total			2,780,000					2,780,000
Transit Program								
Transit & Public Works Maintenance/Admin Facility	Trans-1	1	2,090,000					2,090,000
Transit Security & Passenger Enhancements	Trans-6	1	459,000					459,000
Transit Security & Passenger Enhancements, B	Trans-7	1	12,000	189,000				201,000
Transit Security & Passenger Enhancements, C	Trans-8	1			12,000	150,000		162,000
Transit Program Total			2,561,000	189,000	12,000	150,000		2,912,000
GRAND TOTAL			18,366,700	13,931,850	11,008,000	11,100,950	57,723,200	112,130,700

CITY OF MADERA

PROJECT DETAILS

Airport

AGIS Survey & Obstruction Mitigation Plan	Project Number:	AIP 37
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Project Cost: \$125,000

Category: Airport **Phase:**

Description: Conduct an AGIS Survey and Obstruction Mitigation Plan.

Justification: FAA has identified potential obstructions located near the airport and has requested an AGIS Survey and obstruction mitigation plan be completed in order to determine the validity of the obstructions and potential mitigation.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		125,000				125,000
Total		125,000				125,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355		6,250				6,250
Caltrans Aeronautic Grant: 20500-355		6,250				6,250
FAA Grant: 20500-355		112,500				112,500
Total		125,000				125,000

CITY OF MADERA

PROJECT DETAILS

Airport

Airport Gate Security Update	Project Number:	AIP 36
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Project Cost: \$379,250

Category: Airport

Phase:

Description: Add four electrically operated gates and increase fence security.

Justification: Security system needs an update.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		26,250				26,250
Construction			297,000			297,000
Construction Management/Inspection			56,000			56,000
Total		26,250	353,000			379,250

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355		1,313	17,650			18,963
Caltrans Aeronautic Grant: 20500-355	17,650	1,312				18,962
FAA Grant: 20500-355		23,625	317,700			341,325
Total	17,650	26,250	335,350			379,250

CITY OF MADERA

PROJECT DETAILS

Airport

Apron & Taxiway Drainage	Project Number:	AIP 31
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Project Cost: \$581,000

Category: Airport

Phase:

Description: Engineering Design and construction for apron and taxiway drainage.

Justification: Drainage between the apron and taxiway is insufficient and needs to be upgraded.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			55,000			55,000
Construction				442,000		442,000
Construction				84,000		84,000
Management/Inspection						
Total			55,000	526,000		581,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355		2,750	26,300			29,050
Caltrans Aeronautic Grant: 20500-355		2,750	26,300			29,050
FAA Grant: 20500-355		49,500	473,400			522,900
Total		55,000	526,000			581,000

CITY OF MADERA

PROJECT DETAILS

Airport

Apron Reconstruction Phase II	Project Number:	AIP 30
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Project Cost: \$1,570,000

Category: Airport

Phase: CONSTRUCTION

Description: Reconstruction of deteriorated pavement.

Justification: Reconstruction of deteriorated pavement per pavement management program.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	314,000					314,000
Construction	1,256,000					1,256,000
Total	1,570,000					1,570,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355	78,500					78,500
Caltrans Aeronautic Grant: 20500-355	78,500					78,500
FAA Grant: 20500-355	1,413,000					1,413,000
Total	1,570,000					1,570,000

CITY OF MADERA

PROJECT DETAILS

Airport

Extend & Rehab Runway 12-30, Extend Taxiway P	Project Number:	AIP 35
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Project Cost: \$620,000

Category: Airport

Phase:

Description: Rehabilitate existing Runway 12-30 pavement, extend the runway and taxiway P.

Justification: Extending the runway will allow the Airport to support larger aircraft and allow the airport to grow.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering					620,000	620,000
Total					620,000	620,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355					31,000	31,000
Caltrans Aeronautic Grant: 20500-355					31,000	31,000
FAA Grant: 20500-355					558,000	558,000
Total					620,000	620,000

CITY OF MADERA

PROJECT DETAILS

Airport

Extend Commercial Hangar Development - Phase III	Project Number:	AIP 34
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Project Cost: \$1,703,500

Category: Airport

Phase:

Description: Construct pavement and infrastructure appurtances to support future commercial hangars (201,000 sq.ft.)

Justification: Construction of additional taxiway and apron to facilitate the development of additional commercial hangars to accommodate additional aircraft and Fixed Based Operators at the airport.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering				166,000		166,000
Construction					1,291,500	1,291,500
Construction Management/Inspection					246,000	246,000
Total				166,000	1,537,500	1,703,500

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355				8,300	76,875	85,175
Caltrans Aeronautic Grant: 20500-355			8,300	76,875		85,175
FAA Grant: 20500-355				1,533,150		1,533,150
Total			8,300	1,618,325	76,875	1,703,500

CITY OF MADERA

PROJECT DETAILS

Airport

Runway, Taxiway & Apron Crack Seal	Project Number:	AIP 33
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Project Cost: \$488,000

Category: Airport

Phase:

Description: Sealing of numerous cracks on the apron, taxiways and runway.

Justification: The asphaltic concrete (AC) pavements on the runway, taxiways and aprons are old and have significant transverse and longitudinal cracks, some alligator cracking and some block and map cracking.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		98,000				98,000
Construction		390,000				390,000
Total		488,000				488,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355		24,400				24,400
Caltrans Aeronautic Grant: 20500-355		24,400				24,400
FAA Grant: 20500-355		439,200				439,200
Total		488,000				488,000

CITY OF MADERA

PROJECT DETAILS

Airport

Tee Hangar Design Phase I	Project Number:	AIP 25
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Project Cost: \$89,000
Category: Airport **Phase:** DESIGN

Description: Environmental Assessment for Apron and Taxiway Drainage project, Tee Hangar Development Phase 1 project and Tee Hangar Development Phase II project.

Justification: Environmental assessment is needed on this project to meet NEPA requirements.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	89,000					89,000
Total	89,000					89,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355	4,450					4,450
Caltrans Aeronautic Grant: 20500-355	4,450					4,450
FAA Grant: 20500-355	80,100					80,100
Total	89,000					89,000

CITY OF MADERA

PROJECT DETAILS

Airport

Tee Hangar Development Construction Phase II **Project Number: AIP 29**

Project Cost: \$705,750

Category: Airport

Phase:

Description: Construct pavement and infrastructure appurtances to support new Tee hangars.
Collector Taxiway (35' x 845')
Tee Hangar Taxiway (25' x 800')

Justification: Construction of additional taxiway and apron to facilitate the development of additional Tee hangars to accommodate additional aircraft at the airport.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering				68,750		68,750
Construction					539,000	539,000
Construction Management/Inspection					98,000	98,000
Total				68,750	637,000	705,750

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355				3,438	31,850	35,288
Caltrans Aeronautic Grant: 20500-355				3,437	31,850	35,287
FAA Grant: 20500-355				61,875	573,300	635,175
Total				68,750	637,000	705,750

CITY OF MADERA

PROJECT DETAILS

Airport

Tee Hangar Taxiway & Apron Construction Phase I	Project Number:	AIP 28
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Project Cost: \$617,000

Category: Airport

Phase: DESIGN

Description: Construct pavement and infrastructure appurtances to support new Tee hangars.
Collector Taxiway (35' x 355')
Tee Hangar Taxiway (25' x 1,015')

Justification: Construction of additional taxiway and apron to facilitate the development of additional Tee hangars to accommodate additional aircraft at the airport.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			70,000			70,000
Construction				461,000		461,000
Construction Management/Inspection				86,000		86,000
Total			70,000	547,000		617,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Airport Fund Balance: 20500-355			3,500	27,350		30,850
Caltrans Aeronautic Grant: 20500-355			3,500	27,350		30,850
FAA Grant: 20500-355			63,000	492,300		555,300
Total			70,000	547,000		617,000

CITY OF MADERA

PROJECT DETAILS

Community Development

City Hall Relocation & Expansion **Project Number: Misc-1**

Project Cost: \$19,863,000

Category: Buildings **Phase:**

Description: Relocation and expansion of City Hall to accommodate medium-to long term projected growth.

5.4 Acres of Land for Buildings and Parking
53,000 Square Feet of Building Area
Fixtures, Furniture & Equipment

The relocation and expansion of City Hall will occur in conjunction with community growth as demands for service exceed the capacity of existing facilities.

Justification: Additional City Hall space is required to accommodate medium to long-term projected growth.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Other					863,000	863,000
Land Acquisition/Right of Way					1,000,000	1,000,000
Construction					17,000,000	17,000,000
Construction Management/Inspection					1,000,000	1,000,000
Total					19,863,000	19,863,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45259 General Government Impact Fee					863,000	863,000
UNDETERMINED					19,000,000	19,000,000
Total					19,863,000	19,863,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Alley Paving	Project Number:	ALY-02
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Project Cost: \$680,000

Category: Alleys **Phase:** DESIGN

Description: Pave unpaved alleys. Priority placed on higher traffic alleys. There is a list developed by Public Works identifying unpaved alleys and suggestions for first 15 alleys.

Justification: Air District Rag VIII requires local agencies to stabilize unpaved roads with ADT's greater than 26 to prevent PM-10 fugitive dust emissions.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		50,000				50,000
Construction			570,000			570,000
Construction Management/Inspection			60,000			60,000
Total		50,000	630,000			680,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		44,000	556,000			600,000
Measure T - Environmental Enhancement: 41500-447		6,000	74,000			80,000
Total		50,000	630,000			680,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Torres Wy. Alley Paving **Project Number: ALY-01**

Project Cost: \$185,000

Category: Alleys

Phase: DESIGN



Description: Construct AC pavement along Torres Way and at various locations.

Justification: Mitigation measures to reduce PM-10.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		14,000				14,000
Construction				140,000		140,000
Environmental		1,000				1,000
Construction Management/Inspection				30,000		30,000
Total		15,000		170,000		185,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306			150,000			150,000
Measure T - Environmental Enhancement: 41500-447		15,000		20,000		35,000
Total		15,000	150,000	20,000		185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

BPMP List of City Bridges	Project Number:	B-3
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Project Cost: \$1,800
Category: Bridges

Phase:

Description: Determine deficiency and determine corrective action.
Justification: Deficiency on City bridges based from the bridge inspection report performed by Caltrans need to be scheduled for repair. City prepares a list of deficient bridges and submits it to Caltrans for funding the repair work.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	1,800					1,800
Total	1,800					1,800

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
BPMP: 41700-473	1,000					1,000
LTF - Streets: 42000-333	800					800
Total	1,800					1,800

CITY OF MADERA

PROJECT DETAILS

Engineering

BPMP Rehab/Repair of 3 Bridges	Project Number:	B-4
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Project Cost: \$103,500

Category: Bridges

Phase: DESIGN

Description: Rehabilitation on Fresno River bridges at Cleveland Avenue, Gateway Drive and Clark Street.

Justification: Deficiency on City bridges based from the bridge inspection report performed by Caltrans need to be scheduled for repair. The City prepares a list of deficient bridges and submits it to Caltrans for funding the repair work.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	20,000					20,000
Construction		76,000				76,000
Construction Management/Inspection		7,500				7,500
Total	20,000	83,500				103,500

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
BPMP: 41700-473	18,000	76,000				94,000
LTF - Streets: 42000-333	2,000	7,500				9,500
Total	20,000	83,500				103,500

CITY OF MADERA

PROJECT DETAILS

Engineering

Westberry Bridge Construction	Project Number:	B-2
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Project Cost: \$6,000,000

Category: Bridges

Phase: FUTURE

Description: Construct Westberry Bridge over the Fresno River

Justification: Efficient circulation and maintenance of acceptable levels of service at various local intersections dictate the need for this bridge with the next 5 to 10 years

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Planning/Design				500,000	500,000	1,000,000	5,000,000
Total				500,000	500,000	1,000,000	Total

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
DIF:45260 Transportation Impact Fee				500,000	500,000	1,000,000	5,000,000
Total				500,000	500,000	1,000,000	Total

CITY OF MADERA

PROJECT DETAILS

Engineering

Sharon Blvd. Plan, Ellis St. to Avenue 17 **Project Number: CDD-1D-ST**

Project Cost: \$186,978

Category: Street Planline

Phase: DESIGN

Description: Sharon Boulevard Infrastructure Project-Street Component - Sharon Boulevard Alignment, South of Avenue 17, East of SR99. Establish Master Planned and Development-Serving Infrastructure Configurations and Right of Way requirements for facilities including Streets, Water, Wastewater Disposal, Street, and Storm Drainage. The street component will establish the plan line.

Justification: Completion of plan line allows for more efficient construction of necessary road and utility facilities.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
141,978	Construction	45,000					45,000
	Management/Inspection						
Total	Total	45,000					45,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
141,978	DIF:45263 Arterial/Collector	45,000					45,000
	St. Impact Fee						
Total	Total	45,000					45,000

CITY OF MADERA

PROJECT DETAILS

Engineering

CNG Compressor Project Number: CNG11-1

Project Cost: \$425,500
Category: Alternative Energy Phase: CONSTRUCTION

Description: Install 2nd Compressor for the CNG fueling system at 1200 Gill Street.
Justification: To meet fuel demand of expanding CNG Fleet.

Table with 8 columns: Prior, Expenditures, '16/'17, '17/'18, '18/'19, '19/'20, '20/'21, Total. Rows include Construction and Management/Inspection with a total of 20,000.

Table with 8 columns: Prior, Funding Sources, '16/'17, '17/'18, '18/'19, '19/'20, '20/'21, Total. Rows include CMAQ - Streets and LTF - Streets with a total of 20,000.

CITY OF MADERA

PROJECT DETAILS

Engineering

Micro-Paver Distress Survey	Project Number:	Misc-4
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Project Cost: \$140,000
Category: Street 3R **Phase:** DESIGN

Description: Professional consultant services to perform the pavement distress analysis of City streets.

Justification: Develop a comprehensive database of information related to the pavement condition of City streets.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
60,000	Design/Engineering	10,000	5,000		5,000	60,000	80,000
Total	Total	10,000	5,000		5,000	60,000	80,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
60,000	LTF - Streets: 42000-333	10,000	5,000		5,000	60,000	80,000
Total	Total	10,000	5,000		5,000	60,000	80,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Master Utility Plan Update, II **Project Number: MP Update II**

Project Cost: \$500,000
Category: Administrative **Phase:** DESIGN

Description: Sanitary Sewer, Water and Storm Drain Master Plan Updates
Justification: Master utility plans should typically be updated every 5 years at a minimum to account for changes in assumed development patterns from previous updates.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Planning/Design					500,000	500,000
Total					500,000	500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Master Plan Reserve: 1990-3047					500,000	500,000
Total					500,000	500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

ADA Walkability Sidewalks, 2016-2017 **Project Number: R-64**

Project Cost: \$625,000
Category: Street Reconstruction **Phase:** DESIGN/CONSTRUCTION

Description: Project adds missing wheel chair ramps City-wide and miscellaneous pedestrian facilities.

Justification: Construction of ADA facilities enhances mobility and access within City and shows good faith effort toward that goal.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	3,000	6,000	6,000	6,000	6,000	27,000
Construction	214,000	47,000	85,000	90,000	117,000	553,000
Construction Management/Inspection	25,000	5,000	5,000	5,000	5,000	45,000
Total	242,000	58,000	96,000	101,000	128,000	625,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
LTF - Streets: 42000-333	98,000	40,000	40,000	40,000	40,000	258,000
Measure T - Environmental Enhancement: 41500-447	75,000		26,000	55,000	70,000	226,000
Measure T - LTP ADA: 41500-447	69,000	18,000	18,000	18,000	18,000	141,000
Total	242,000	58,000	84,000	113,000	128,000	625,000

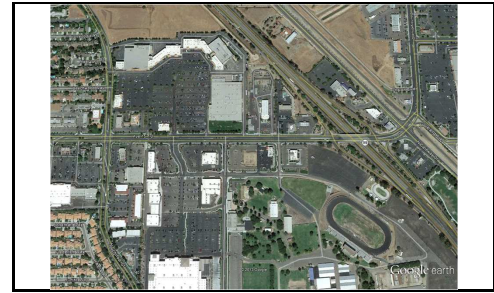
CITY OF MADERA

PROJECT DETAILS

Engineering

Cleveland Ave. Improvements - Schnoor Ave. to SR99 **Project Number: R-54**

Project Cost: \$300,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Reconstruct and widen from 4 lanes to 6 lanes.

Justification: Requires 6 travel lanes to reduce traffic congestion. This project is included as a Tier 1 improvement in the Measure T program.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	100,000	70,000				170,000
Right of Way Costs			100,000			100,000
Environmental		30,000				30,000
Total	100,000	100,000	100,000			300,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure T - RTP/3R: 41500-447	100,000	100,000	100,000			300,000
Total	100,000	100,000	100,000			300,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Concrete Projects - Share Program	Project Number:	R-41
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Project Cost: \$151,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description: Construct ADA curb returns and sidewalks Citywide. 50/50 City/property owner shared cost as requested by the property owner.

Justification: Improve pedestrian and wheelchair accessibility

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
10,000	Construction	51,000	20,000	20,000	20,000	30,000	141,000
Total	Total	51,000	20,000	20,000	20,000	30,000	141,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
10,000	LTF - Streets: 42000-333	51,000	10,000	20,000	25,000	35,000	141,000
Total	Total	51,000	10,000	20,000	25,000	35,000	141,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Contingency / Project Administration **Project Number: R-31**

Project Cost: \$1,375,000
Category: Street Construction/Admin **Phase:** CONSTRUCTION

Description: Miscellaneous Capital Improvement Projects and Transportation Programs Administration.

Justification: Ongoing annual Local, State & Federal Programs.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
725,000	Construction	100,000	100,000	100,000	100,000	100,000	500,000
Total	Construction	10,000	10,000	10,000	10,000	10,000	50,000
	Management/Inspection						
	Engineering/Administration	20,000	20,000	20,000	20,000	20,000	100,000
	Total	130,000	130,000	130,000	130,000	130,000	650,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
725,000	LTF - Streets: 42000-333	130,000	130,000	130,000	130,000	130,000	650,000
Total	Total	130,000	130,000	130,000	130,000	130,000	650,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fourth St. Median Landscaping	Project Number:	R-56
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Project Cost: \$336,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description: Install landscaping and irrigation facilities in the median and on owner's property as permitted along 4th Street from Sunset Avenue to Lake Street

NOTE: Project contract number is PK 15-02

Justification: To complete the installation of median landscaping for the two 4th Street improvement projects.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
331,000	Median Landscape Construction	5,000					5,000
Total	Total	5,000					5,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
331,000	Water Fund - Conservation Program: 20300-712	5,000					5,000
Total	Total	5,000					5,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fourth St. Tree Replacement - Pine to K **Project Number: R-25 EX**

Project Cost: \$125,000
Category: Street 3R **Phase:** CONSTRUCTION



Description: Tree planting for Park Street areas as part of project R-25, Fourth St. Reconstruction - Pine to K.

Justification: Environmental enhancement to replace trees removed in project R-25, Fourth St. Reconstruction - Pine to K.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	125,000					125,000
Total	125,000					125,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure T - RTP/3R: 41500-447	125,000					125,000
Total	125,000					125,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fourth/Lake/Central Intersection **Project Number:** **R-57**

Project Cost: \$565,000

Category: Street Construction

Phase: DESIGN

Description: Evaluate intersection for either Traffic signal or round-about. Install selected method of traffic control.

Justification: Relieve traffic congestion and reduce delay

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Land Acquisition		30,000				30,000
Design/Engineering	50,000					50,000
Construction		435,000				435,000
Environmental	10,000					10,000
Construction Management/Inspection		40,000				40,000
Total	60,000	505,000				565,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306	54,000	446,000				500,000
LTF - Streets: 42000-333	6,000	59,000				65,000
Total	60,000	505,000				565,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Gateway/Central/3rd/E St. Sidewalks **Project Number: R-38**

Project Cost: \$312,000
Category: Street Reconstruction **Phase:** DESIGN/CONSTRUCTION

Description: Sidewalks on Central Avenue, Gateway to Lake Street: E Street, Central Avenue to 3rd Street: 3rd Street, E Street to Central Avenue.

Justification: Sidewalks don't exist in many locations along this residential neighborhood that are needed for access to the Rotary Park.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
7,000	Design/Engineering	20,000					20,000
	Land Acquisition/Right of Way	31,000					31,000
Total	Construction	225,000					225,000
	Utility Relocation	5,000					5,000
	Construction Management/Inspection	24,000					24,000
	Total	305,000					305,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
7,000	CMAQ - Streets: 41700-306	270,000					270,000
	LTF - Streets: 42000-333	35,000					35,000
	Total	305,000					305,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Golden State Blvd. Shoulder Paving	Project Number:	R-68
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Project Cost: \$125,000

Category: Street Construction

Phase:

Description: CMAQ Project to pave shoulders along Golden State Blvd. between Pecan Avenue and the Madera Community Hospital emergency entrance.

Justification: Air District Reg VIII requires local agencies to stabilize unpaved road shoulders to prevent PM-10 fugitive dust emissions.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		12,000				12,000
Construction			101,000			101,000
Construction Management/Inspection			12,000			12,000
Total		12,000	113,000			125,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		10,000	100,000			110,000
LTF - Streets: 42000-333		2,000	13,000			15,000
Total		12,000	113,000			125,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Lake St. Widening - Fourth St. to Cleveland Ave. Project Number: R-46

Project Cost: \$3,498,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Widen Lake Street to 4 lanes with median for Arterial Street Standards.

Justification: Providing 4 travel lanes will be needed to handle traffic volume. Complies with City approved traffic circulation element.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
78,000	Land Acquisition		240,000				240,000
	Design/Engineering	50,000	180,000				230,000
Total	Land Acquisition/Right of Way	150,000					150,000
	Construction			2,520,000			2,520,000
	Environmental	30,000					30,000
	Construction Management/Inspection			250,000			250,000
	Total	230,000	420,000	2,770,000			3,420,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
78,000	LTF - Streets: 42000-333	600,000	500,000				1,100,000
Total	Measure T - RTP/3R: 41500-447	800,000	900,000				1,700,000
	RSTP Federal Exchange: 41300-332		620,000				620,000
	Total	1,400,000	2,020,000				3,420,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave. Concept Plan	Project Number:	R-49
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Project Cost: \$24,000
Category: Street Planline **Phase:** DESIGN

Description: Prepare concept plan for street alignment and right-of-way on Olive Avenue between Tozer and 1,300' east of Tozer..

Justification:

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
12,000	Design/Engineering	12,000					12,000
Total	Total	12,000					12,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
12,000	DIF:45263 Arterial/Collector St. Impact Fee	12,000					12,000
Total	Total	12,000					12,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave. Widening - Gateway to e/o Roosevelt **Project Number: R-10**

Project Cost: \$5,970,000
Category: Street Reconstruction **Phase:** DESIGN

Description: Widen street to 4 lanes for Arterial Street Standards, acquire right-of-way and construct sidewalks. Widen UPRR crossing at SW corner of Olive Avenue and Knox Street



Justification: Project reduces traffic delays at Gateway / Olive Intersection by providing 4 travel lanes. Complies with City approved traffic circulation element. Provide pedestrian access and safety by constructing a missing of a concrete sidewalk.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Land Acquisition	1,000,000	500,000				1,500,000
Design/Engineering	240,000	40,000				280,000
Construction		2,545,000				2,545,000
Environmental		10,000				10,000
Construction Management/Inspection		235,000				235,000
UPRR	800,000					800,000
Utility Conversion	400,000	200,000				600,000
Total	2,440,000	3,530,000				5,970,000
Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45263 Arterial/Collector St. Impact Fee	500,000					500,000
LTF - Streets: 42000-333	600,000					600,000
Measure A City: 41500-347	550,000					550,000
Measure T - RTP/3R: 41500-447	3,000,000					3,000,000
RSTP Federal Exchange: 41300-332	1,320,000					1,320,000
Total	5,970,000					5,970,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pecan Ave. Shoulder Paving	Project Number:	R-67
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Project Cost: \$665,000

Category: Street Construction

Phase: DESIGN

Description: CMAQ project to pave 4' to 8' wide shoulders between Pine Street and Golden State Blvd. where missing. (Does not include segment along north side between Stadium Road and Monterey Street because of utility conflicts).

Justification: Air District Reg VIII requires local agencies to stabilize unpaved road shoulders to prevent PM-10 fugitive dust emissions. Added safety benefit of paved shoulders on roadway serving high school and commercial/industrial areas.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		61,000				61,000
Construction			470,000			470,000
Right of Way Costs		80,000				80,000
Environmental		5,000				5,000
Construction Management/Inspection			49,000			49,000
Total		146,000	519,000			665,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		128,000	459,000			587,000
LTF - Streets: 42000-333		78,000				78,000
Total		206,000	459,000			665,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pedestrian Facilities/Schools & Commercial Areas **Project Number: R-62**

<p>Project Cost: \$272,000</p> <p>Category: Street/Sidewalk</p> <p>Description: Infill and provide sidewalk facilities and appurtenances. Areas to be determined to maximize pedestrian usage within funds available. To be implemented in phases.</p> <p>Justification: Will encourage pedestrian travel & provide safety at areas without sidewalks and ADA ramps with high concentration of pedestrians.</p>	<p>Phase: DESIGN/CONSTRUCTION</p>	<div style="border: 1px solid black; width: 100%; height: 100%; background-color: #ffff00; display: flex; align-items: center; justify-content: center;"> <p>VARIOUS SITES</p> </div>
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Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	22,000					22,000
Land Acquisition/Right of Way	20,000					20,000
Construction	206,000					206,000
Environmental	2,000					2,000
Construction Management/Inspection	22,000					22,000
Total	272,000					272,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306	235,000					235,000
LTF - Streets: 42000-333	32,000					32,000
Measure T - Environmental Enhancement: 41500-447	5,000					5,000
Total	272,000					272,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pine St. Reconstruction - Howard to Fourth St. **Project Number: R-50**

Project Cost: \$518,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Reconstruction asphalt paving on Pine street from Howard to Fourth Street and widen road way. Install missing street lights.

Justification: Project identified in Public Works Pavement Management Plan as asphalt requiring replacement and improves traffic flow.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			30,000			30,000
Land Acquisition/Right of Way			10,000			10,000
Construction			428,000			428,000
Environmental			5,000			5,000
Construction Management/Inspection			45,000			45,000
Total			518,000			518,000
Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure A City: 41500-347			518,000			518,000
Total			518,000			518,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Raymond Rd. Shoulder n/o Cleveland Ave. **Project Number: R-37**

Project Cost: \$305,000
Category: Street Construction **Phase:** DESIGN

Description: Construct paved shoulders with curb and gutter on Raymond Road north of Cleveland Avenue.

Justification: Improve traffic and pedestrian circulation and safety.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
3,000	Design/Engineering	20,000	15,000				35,000
	Construction		223,000				223,000
	Right of Way Costs	10,000	14,000				24,000
	Construction Management/Inspection		20,000				20,000
	Total	30,000	272,000				302,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
3,000	CMAQ - Streets: 41700-306	265,000					265,000
	LTF - Streets: 42000-333	37,000					37,000
	Total	302,000					302,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Riverwalk Dr. Improvements **Project Number: R-63**

Project Cost: \$1,383,000
Category: Street Construction **Phase:** CONSTRUCTION

Description: Construct new roadway improvements on Riverwalk Drive between "A" Street and "C" Street.



Justification: Neighborhood rehabilitation & improvement

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,273,000	Construction	100,000					100,000
	Construction	10,000					10,000
Total	Management/Inspection						
	Total	110,000					110,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,273,000	RDA Funds	110,000					110,000
Total	Total	110,000					110,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Schnoor Ave. Sidewalks **Project Number: R-58**

Project Cost: \$150,000
Category: Street/Sidewalk **Phase:** DESIGN



Description: Construct sidewalks on Schnoor Ave. from Sunset Ave. to Riverside Dr.

Justification: Pedestrian safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Land Acquisition		8,000				8,000
Design/Engineering		12,000				12,000
Construction			105,000			105,000
Environmental		2,000				2,000
Construction Management/Inspection			23,000			23,000
Total		22,000	128,000			150,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		19,000	113,000			132,000
Measure T - Environmental Enhancement: 41500-447		3,000	15,000			18,000
Total		22,000	128,000			150,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Storey Rd. Shoulder Paving **Project Number: R-60**

Project Cost: \$301,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Construct paved shoulders, curb and gutter along frontage of Millview Sports Complex south side of Store Road.

Justification: Reduce PM-10 dust and provide public safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		30,000				30,000
Construction			216,000			216,000
Environmental		1,000				1,000
Construction Management/Inspection			54,000			54,000
Total		31,000	270,000			301,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		27,000	239,000			266,000
Measure T - Environmental Enhancement: 41500-447		4,000	31,000			35,000
Total		31,000	270,000			301,000

PROJECT DETAILS

Sunset Ave. Sidewalks	Project Number:	R-66
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Project Cost: \$345,100
Category: Street Construction **Phase:** DESIGN

Description: HSIP Cycle 7 project to install pedestrian refuge median and ADA compliant sidewalks along Sunset Avenue between Granada Drive and Foster Avenue.

Justification: Improve traffic and pedestrian safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	28,000					28,000
Construction		287,100				287,100
Environmental	2,000					2,000
Construction Management/Inspection		28,000				28,000
Total	30,000	315,100				345,100

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
HSIP Grant: 417000-306	27,000	283,590				310,590
LTF - Streets: 42000-333	3,000	31,510				34,510
Total	30,000	315,100				345,100

CITY OF MADERA

PROJECT DETAILS

Engineering

Surface Seals and AC Overlays, 2016-2017 **Project Number: R-65**

<p>Project Cost: \$1,800,000</p> <p>Category: Street 3R</p> <p>Phase: CONSTRUCTION</p> <p>Description: Pavement rehabilitation with various types of seal coats and AC overlays on various arterial and collector streets.</p> <p>Justification: Project is identified in Public Works Pavement Management Plan as needing surface seals or overlays.</p>	<div style="border: 1px solid black; width: 100%; height: 100%; background-color: yellow; display: flex; align-items: center; justify-content: center;"> VARIOUS SITES </div>
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Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	20,000			20,000		40,000
Construction	520,000	20,000	520,000		520,000	1,580,000
Environmental	10,000					10,000
Construction Management/Inspection	50,000	10,000	50,000	10,000	50,000	170,000
Total	600,000	30,000	570,000	30,000	570,000	1,800,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure T - RTP/3R: 41500-447	600,000	300,000	300,000	300,000	300,000	1,800,000
Total	600,000	300,000	300,000	300,000	300,000	1,800,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Thomas Jefferson/John Adams Sidewalks **Project Number: R-51**

Project Cost: \$306,200

Category: Street/Sidewalk

Phase: DESIGN/CONSTRUCTION

Description: Construct sidewalks and curb ramps: install in pavement lighted crosswalk and acquisition of right of way. Safe Routes to School for Thomas Jefferson Middle School and John Adams Elementary School.

Justification: Improve traffic and pedestrian circulation and safety.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,200	Design/Engineering	20,000					20,000
	Construction	260,000					260,000
	Construction Management/Inspection	25,000					25,000
	Total	305,000					305,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,200	LTF - Streets: 42000-333	29,000					29,000
	Safe Routes 2 School - State: 41300-342	276,000					276,000
	Total	305,000					305,000

CITY OF MADERA

PROJECT DETAILS

Engineering

UPPR Crossing - Street Approach **Project Number: R-32**

Project Cost: \$554,000
Category: Street 3R **Phase:** CONSTRUCTION

Description: Railroad approach paving
Justification: Improve safety and riding comfort

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
254,000	Construction	95,000	48,000	48,000	48,000	48,000	287,000
Total	Construction	5,000	2,000	2,000	2,000	2,000	13,000
	Management/Inspection						
	Total	100,000	50,000	50,000	50,000	50,000	300,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
254,000	LTF - Streets: 42000-333	100,000	50,000	50,000	50,000	50,000	300,000
Total	Total	100,000	50,000	50,000	50,000	50,000	300,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Schnoor Ave. Trunk Sewer System	Project Number:	S-12 (S-5)
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Project Cost: \$1,185,000

Category: Sewer **Phase:** DESIGN

Description: Rehabilitate the Schnoor Ave. Trunk Sewer System beginning at sewage pump station on Cleveland Avenue and going south, crossing the Fresno River, and ending at Industrial. Technical memo prepared October 2013 by Akel Engineering in conjunction with Master Plan Update presented as Appendix D contains detailed information and recommendations. NOTE: Segment across river has not been evaluated.

Justification: Extend useful life of sewer trunk main.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	70,000					70,000
Construction		1,015,000				1,015,000
Construction		100,000				100,000
Management/Inspection						
Total	70,000	1,115,000				1,185,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Sewer Utility Fund: 20400-511	650,000	535,000				1,185,000
Total	650,000	535,000				1,185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Southeast Quadrant Sewer Improvements **Project Number: S-996**

Project Cost: \$464,400

Category: Sewer **Phase:** N/A

Description: Construct sewer improvements within the Southeast quadrant in response to need and as identified in the Sewer Master Plan for that Area and/or reimburse developers for those same improvements if constructed as part of a development project.

Partial list includes: Road 28 1/2 (13 3/4 to 15 -15") - \$211,200; Tozer Street (Storey to Ave 15 -12") - \$71,250, Ave 15 (Rd 28 1/2 to Rd 28 -15") - \$76,000, Road 28 (Ave 15 to Ave 14 1/2 - 18") - \$99,750

Justification: Planned growth in this quadrant of the City requires construction of various sewer improvements as are identified in the Sewer Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Construction				106,200	100,000	206,200	258,200
Total				106,200	100,000	206,200	Total

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
DIF:40953 Sewer SE Quadrant Impact Fee				106,200	100,000	206,200	258,200
Total				106,200	100,000	206,200	Total

CITY OF MADERA

PROJECT DETAILS

Engineering

Ellis St./Krohn St. Retention Basin Project Number: **SD-15-P07**

Project Cost: \$100,000

Category: Storm Drain **Phase:** DESIGN

Description: Identify location, acquire land and prepare preliminary estimates of costs in advance of engineering and construction.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
5,000	Land Acquisition	80,000					80,000
	Design/Engineering	15,000					15,000
Total	Total	95,000					95,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
5,000	DIF:45156 Storm Drain NE	95,000					95,000
	Quadrant Impact Fee						
Total	Total	95,000					95,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Granada Dr./Avenue 12 1/2 Retention Basin	Project Number:	SD-14-P11
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Project Cost: \$100,000

Category: Storm Drain

Phase: DESIGN

Description: Identify location, acquire land and prepare preliminary estimates of costs in advance of engineering and construction.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
5,000	Land Acquisition	80,000					80,000
	Design/Engineering	15,000					15,000
Total	Total	95,000					95,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
5,000	DIF:45157 Storm Drain SW	95,000					95,000
	Quadrant Impact Fee						
Total	Total	95,000					95,000

CITY OF MADERA

PROJECT DETAILS

Engineering

San Sebastian Basin Overflow Pipeline **Project Number: SD-12**

Project Cost: \$78,975
Category: Storm Drain **Phase:** DESIGN

Description: Installation of over flow pipeline to connect to outfall at San Sebastian & BilBao Street.

Justification: The San Sebastian basin needs to be drained regularly...

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
10,975	Design/Engineering		8,000				8,000
	Construction		60,000				60,000
Total	Total		68,000				68,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
10,975	DIF:45156 Storm Drain NE	68,000					68,000
	Quadrant Impact Fee						
Total	Total	68,000					68,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Various Retention Basins	Project Number:	SD-13-PX
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Project Cost: \$200,000

Category: Storm Drain

Phase: DESIGN

Description: Identify, prioritize and purchase land at locations where development is anticipated to occur in the near term.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Land Acquisition	40,000	40,000	40,000	40,000		160,000
Design/Engineering	10,000	10,000	10,000	10,000		40,000
Total	50,000	50,000	50,000	50,000		200,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45100 Storm Drain Existing Area Impact Fee	20,000	10,000	10,000			40,000
DIF:45155 Storm Drain NW Quadrant Impact Fee	20,000	10,000	10,000			40,000
DIF:45156 Storm Drain NE Quadrant Impact Fee	20,000	10,000	10,000			40,000
DIF:45157 Storm Drain SW Quadrant Impact Fee	20,000	10,000	10,000			40,000
DIF:45158 Storm Drain SE Quadrant Impact Fee	20,000	10,000	10,000			40,000
Total	100,000	50,000	50,000			200,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fairgrounds Liftstation	Project Number:	SS-6
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Project Cost: \$450,000
Category: Sewer **Phase:** CONSTRUCTION

Description: Install a variable frequency drive (VFD) to include electrical work and appurtenance.
Justification: improve the performance of the pumps at the lift station resulting to a more efficient and economical system.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	25,000					25,000
Construction	385,000					385,000
Construction Management/Inspection	40,000					40,000
Total	450,000					450,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:40949 Sewer Existing Area Impact Fee	162,000					162,000
Sewer Utility Fund: 20400-511	288,000					288,000
Total	450,000					450,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Replace Sewer Main - Sherwood Wy. Project Number: SS-2

Project Cost: \$463,000

Category: Sewer **Phase:** DESIGN

Description: Replace 1,930-feet of existing 12-inch sanitary sewer main with new 15-inch main on Sherwood Wy. from Lake St. to 220-feet west of Nebraska Ave.

Justification: Existing sewer main is under size for full build out.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	40,000					40,000
Construction		398,000				398,000
Construction Management/Inspection		25,000				25,000
Total	40,000	423,000				463,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:40949 Sewer Existing Area Impact Fee	217,000					217,000
Sewer Utility Fund: 20400-511	246,000					246,000
Total	463,000					463,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Replace Sewer Main - Wessmith Wy.	Project Number:	SS-1
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Project Cost: \$46,000
Category: Sewer **Phase:** CONSTRUCTION

Description: Replace 190-feet of existing 10-inch sanitary sewer main with new 15-inch main on Wessmith Wy. From 190-feet east of Lake St. to Lake St.

Justification: Existing sewer main is under size for full build out.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	4,000					4,000
Construction	39,000					39,000
Construction Management/Inspection	3,000					3,000
Total	46,000					46,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:40949 Sewer Existing Area Impact Fee	24,600					24,600
Sewer Utility Fund: 20400-511	21,400					21,400
Total	46,000					46,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Granada Dr. & Howard Rd. Traffic Signal **Project Number: TS-17**

Project Cost: \$340,000
Category: Traffic Signal **Phase:** DESIGN

Description: Add traffic signal at Granada Drive and Howard Road.

Justification: Emission reduction for CMAQ project.
 Traffic safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	30,000					30,000
Land Acquisition/Right of Way	30,000					30,000
Construction		250,000				250,000
Environmental	5,000					5,000
Construction Management/Inspection		25,000				25,000
Total	65,000	275,000				340,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45264 Traffic Signal Impact Fee	65,000	275,000				340,000
Total	65,000	275,000				340,000

CITY OF MADERA

PROJECT DETAILS

Engineering

HOPYQ Intersections	Project Number:	TS-23
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Project Cost: \$135,000

Category: Traffic Signal

Phase:

Description: Traffic signal modifications and intersection improvements at Howard Road, Olive Avenue, Pine Street, Yosemite Avenue & Q Street intersection.

Justification: Emission reduction for CMAQ project and traffic safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		15,000				15,000
Construction			110,000			110,000
Construction Management/Inspection			10,000			10,000
Total		15,000	120,000			135,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		13,000	107,000			120,000
LTF - Streets: 42000-333		2,000	13,000			15,000
Total		15,000	120,000			135,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Howard Rd./Westberry Blvd. Traffic Signal **Project Number: TS-19**

Project Cost: \$405,000

Category: Traffic Signal

Phase: DESIGN/CONSTRUCTION



Description: Install a traffic signal at the intersection of Westberry Blvd. and Howard Rd.

Justification: Emission reduction for CMAQ project and traffic safety.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	30,000					30,000
Construction	324,500					324,500
Environmental	500					500
Construction Management/Inspection	50,000					50,000
Total	405,000					405,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306	26,000	328,000				354,000
LTF - Streets: 42000-333	6,000	45,000				51,000
Total	32,000	373,000				405,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Sunrise Ave. & Tozer St. Traffic Signal	Project Number:	TS-20
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Project Cost: \$185,000

Category: Traffic Signal

Phase: DESIGN

Description: Install a traffic signal at the intersection of Sunrise Avenue and Tozer Street.

Justification: Emission reduction for CMAQ project.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		25,000				25,000
Construction			150,000			150,000
Construction Management/Inspection			10,000			10,000
Total		25,000	160,000			185,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Streets: 41700-306		22,000	140,000			162,000
LTF - Streets: 42000-333		3,000	20,000			23,000
Total		25,000	160,000			185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Yosemite Ave. & Elm St. Traffic Signal **Project Number: TS-09**

Project Cost: \$360,000
Category: Traffic Signal **Phase:** CONSTRUCTION

Description: Install traffic signal at Yosemite and Elm

Justification: Traffic and pedestrian safety.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
230,000	Construction	120,000					120,000
	Construction	10,000					10,000
Total	Management/Inspection						
	Total	130,000					130,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
230,000	RDA Funds	130,000					130,000
Total	Total	130,000					130,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Almond Ave. Water Pipe - Pine St. to Stadium Rd	Project Number:	W-PSW-45
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Project Cost: \$276,000

Category: Water **Phase:**

Description: Install 2,600-feet of new 12-inch water line to connect to an existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Land Acquisition					62,000	62,000	188,000
Design/Engineering					26,000	26,000	
Total					88,000	88,000	Total

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
DIF:40845 Water Pipes					44,000	44,000	188,000
Impact Fee							
Water Utility Fund: 20300-712					44,000	44,000	
Total					88,000	88,000	Total

CITY OF MADERA

PROJECT DETAILS

Engineering

Aviation Dr. Water Pipe - Airport Dr. to 12" Line **Project Number: W-PNW-29**

Project Cost: \$6,700

Category: Water **Phase:** DESIGN

Description: Install 90-feet of new 12-inch water line to connect to an existing 12-inch water line

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering					600	600
Construction					5,600	5,600
Construction Management/Inspection					500	500
Total					6,700	6,700

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712					6,700	6,700
Total					6,700	6,700

CITY OF MADERA

PROJECT DETAILS

Engineering

Aviation Dr. Water Pipe - Aviation Dr./Falcon Dr. **Project Number: W-PNW-30**

Project Cost: \$13,000
Category: Water **Phase:** DESIGN

Description: Install 170-feet of new 12-inch water line to connect to an existing 12-inch water line

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering					1,300	1,300
Construction					10,700	10,700
Construction Management/Inspection					1,000	1,000
Total					13,000	13,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712					13,000	13,000
Total					13,000	13,000

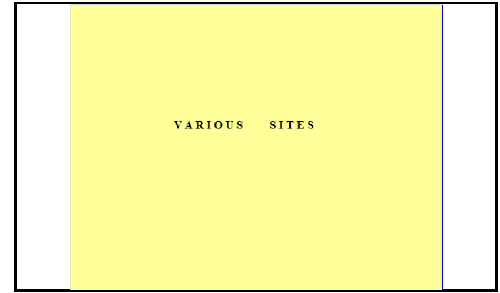
CITY OF MADERA

PROJECT DETAILS

Engineering

Commercial Water Meters	Project Number:	W-23
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Project Cost: \$2,630,000
Category: Water **Phase:** CONSTRUCTION



Description: Replacement and installation of water meters at commercial institutions for the City's AMR reading system.

Justification: The meter will be able to self read and transmit data into the main office saving labor to read meters.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
2,500,000	Construction	120,000					120,000
	Construction	10,000					10,000
Total	Management/Inspection						
	Total	130,000					130,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
2,500,000	Water Fund - Conservation	130,000					130,000
	Program: 20300-712						
Total							
	Total	130,000					130,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Lake St. Water Pipe - Ellis St. to Avenue 17	Project Number:	W-PNE-4
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Project Cost: \$700,000

Category: Water **Phase:** DESIGN

Description: Construct 24-inch water line in Lake Street conjunction with a 6.75 million gallon tank at or near Avenue 17 and Road 27

Justification: Near Term - .Tank and pump offset impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours. Pipe is necessary to convey flow to and from tank
 Long Term - Provide storage on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		60,000	25,000			85,000
Construction				565,000		565,000
Construction Management/Inspection				50,000		50,000
Total		60,000	25,000	615,000		700,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712		60,000	25,000	615,000		700,000
Total		60,000	25,000	615,000		700,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Maple St. Water Pipe - Pine St. to Noble St.	Project Number:	W-FF-1
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Project Cost: \$54,000

Category: Water **Phase:** CONSTRUCTION

Description: Install new 8-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	4,500					4,500
Construction	45,000					45,000
Construction	4,500					4,500
Management/Inspection						
Total	54,000					54,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	54,000					54,000
Total	54,000					54,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave. Water Pipe - Pine St. to Noble St.	Project Number:	W-FF-4
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Project Cost: \$54,000

Category: Water **Phase:** CONSTRUCTION

Description: Install new 12-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	4,500					4,500
Construction	45,000					45,000
Construction	4,500					4,500
Management/Inspection						
Total	54,000					54,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	54,000					54,000
Total	54,000					54,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pecan Ave. Water Pipe - Madera to e/o Madera	Project Number:	W-PSE-3
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Project Cost: \$56,000

Category: Water

Phase:

Description: Install 780-feet of new 12-inch water line to connect to existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering				5,000		5,000
Construction					46,000	46,000
Construction Management/Inspection					5,000	5,000
Total				5,000	51,000	56,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:40845 Water Pipes Impact Fee				5,800		5,800
Water Utility Fund: 20300-712					50,200	50,200
Total				5,800	50,200	56,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pecan Ave. Water Pipe, Monterey to w/o Monterey	Project Number:	W-PSW-50
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Project Cost: \$35,300

Category: Water

Phase: CONSTRUCTION

Description: Install 480-feet of new 12-inch water line to connect to an existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	3,000					3,000
Construction	29,300					29,300
Construction Management/Inspection	3,000					3,000
Total	35,300					35,300

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:40845 Water Pipes Impact Fee	24,700					24,700
Water Utility Fund: 20300-712	10,600					10,600
Total	35,300					35,300

CITY OF MADERA

PROJECT DETAILS

Engineering

Plumas St. Water Pipe - Rotan Ave. to 330 ft. West **Project Number: W-FF-3**

Project Cost: \$18,000
Category: Water **Phase:** CONSTRUCTION

Description: Install new 8-inch water line in parallel with an existing water line.
Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	1,500					1,500
Construction	15,000					15,000
Construction	1,500					1,500
Management/Inspection						
Total	18,000					18,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	18,000					18,000
Total	18,000					18,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pump Station for Tank at Ave. 17 & Lake St.	Project Number:	W-PS-1
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Project Cost: \$6,732,000

Category: Water **Phase:** DESIGN

Description: Construct 4,300 GPM pump station in conjunction with a 6.75 million gallon tank at or near Avenue 17 and Lake Street (Road 27)

Justification: Near Term - .Tank and pump offsets impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours
 Long Term - Provide storage and pumping capacity on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	201,000	158,000	103,000			462,000
Construction					5,700,000	5,700,000
Construction Management/Inspection				377,000	193,000	570,000
Total	201,000	158,000	103,000	377,000	5,893,000	6,732,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	201,000	158,000	103,000	4,147,000	2,123,000	6,732,000
Total	201,000	158,000	103,000	4,147,000	2,123,000	6,732,000

CITY OF MADERA

PROJECT DETAILS

Engineering

River Crossing Water Main Gateway Dr./Riverside Dr **Project Number: W-09**

Project Cost: \$205,000
Category: Water **Phase:** DESIGN/CONSTRUCTION

Description: Water projects system upgrades at River Crossing@ Gateway, Riverside/Columbia to Water Well No. 18 at Gateway.

Justification: Water system is deteriorating and needing repair. Major reconditioning or replacement is needed to restore capacity.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	20,000					20,000
Construction	170,000					170,000
Construction Management/Inspection	15,000					15,000
Total	205,000					205,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	205,000					205,000
Total	205,000					205,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Rotan Ave. Water Pipe - Howard Rd. to Plumas St. **Project Number: W-FF-2**

Project Cost: \$40,000
Category: Water **Phase:** CONSTRUCTION

Description: Install new 8-inch water line in parallel with an existing water line.
Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	3,500					3,500
Construction	33,000					33,000
Construction Management/Inspection	3,500					3,500
Total	40,000					40,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	40,000					40,000
Total	40,000					40,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Sycamore St. Water Main - Lake St. to Clinton St.	Project Number:	W-28
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Project Cost: \$75,000

Category: Water **Phase:** CONSTRUCTION

Description: Replace 2" galvanized line in Sycamore Street from existing 6" in Sycamore Street installed from Clinton Street to FH to Lake Street/7th Street with 8" - approximately 450 lineal feet.

Justification: Water main was upgraded from 2' to 6' only up to the FH that was installed as a requirement for construction of multi-family dwelling at Sycamore Street & Clinton Street. Still needs to be upsized along Sycamore Street to 7th Street/Lake Street.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	15,000					15,000
Construction	50,000					50,000
Construction Management/Inspection	10,000					10,000
Total	75,000					75,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	75,000					75,000
Total	75,000					75,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - 10th St.	Project Number:	W-08
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Project Cost: \$780,000

Category: Water **Phase:** DESIGN

Description: New 12" from W-06 (12" installed "H" Street and 11th), east on 11th, under UPRR to east. North on "E" Street to 10th Street, east on 10th Street to "D" Street. Connect to existing 10".

Part of 2010 Water Improvements - Bid Package 2. 90% design. Shelved due to lack of funding.

Should be constructed in conjunction with W-06.

Justification: Project identified in 1997 Master Plan to provide pipeline reinforcements between South and East Madera as "Improvements No. 1.2" that includes W-06 and W-08

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			10,000			10,000
Construction				700,000		700,000
Construction				70,000		70,000
Management/Inspection						
Total			10,000	770,000		780,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712			10,000	770,000		780,000
Total			10,000	770,000		780,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - H St.	Project Number:	W-06
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Project Cost: \$265,000

Category: Water

Phase: DESIGN

Description: Water projects system upgrades at H Street - 11th to Madera Avenue. Install new 12" main from existing 12" crossing SR99 at 10th Street alignment, southerly on "H" Street, across Madera Avenue to 11th Street. Bore under Madera Avenue (SR145).

Project is 90% design by CDM as part of 2010 Water System Improvements - Bid Pack 2 along with W-07 and W-08. Shelved due to lack of funding.

Should be constructed in conjunction with W-08.

Justification: Project identified in 1997 Master Plan to provide pipeline reinforcements between South and East Madera as "Improvements No. 1.2" that includes W-06 and W-08

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			10,000			10,000
Construction				230,000		230,000
Construction Management/Inspection				25,000		25,000
Total			10,000	255,000		265,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712			10,000	255,000		265,000
Total			10,000	255,000		265,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - Locations 1-12	Project Number:	W-03
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Project Cost: \$850,000

Category: Water

Phase: DESIGN

Description: Replace undersize 4" pipes with larger PVC to include valves & appurtenances at the following locations:
 Oak Street - Pine to Cypress
 Olive Ave. - P to Q Street
 P Street - 4th to 5th
 O/P Alley - 6th to Olive
 10th - D to UPRR
 12th - E to D Alley
 14th - D to Olive
 5th - Gateway to G
 2nd - C to E
 B St.- Central to River
 6th - Lake St. to Vineyard

Justification: Undersize pipes need to be upgraded to provide sufficient supply of potable water. These need to be re-evaluated as have carried over for many years.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		100,000				100,000
Construction			640,000			640,000
Construction Management/Inspection			110,000			110,000
Total		100,000	750,000			850,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712		850,000				850,000
Total		850,000				850,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - Locations 13-23 **Project Number: W-04**

Project Cost: \$1,500,000
Category: Water **Phase:** DESIGN

Description: Replace undersize pipes with larger PVC to include valve & appurtenance at the following locations:

- Fresno Street - Riverside to Dalton
- Riverside Alley @ Dalton
- Merced St. - Daltin to Riverside
- B Street - 10th to 13th
- 11th Street - A to 200ft E/O A Street
- Nebraska - Cleveland to James Way
- Wilson - Owens to Sharon
- Adell - Lake to Merced
- Harding - Davis to Torres Way
- Wallace - Sunrise to Sierra Vista School
- Lake - Wallace to Hull
- Lincoln - Tulare to 2 blks east

Justification: Undersize pipes need to be upgraded to provide sufficient supply of potable water.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		120,000				120,000
Construction			1,180,000			1,180,000
Construction Management/Inspection			200,000			200,000
Total		120,000	1,380,000			1,500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712		1,500,000				1,500,000
Total		1,500,000				1,500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Storage Tank Installation	Project Number:	W-T-1
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Project Cost: \$9,663,000

Category: Water

Phase: DESIGN

Description: Construct 6.75 million gallon tank at or near Avenue 17 and Lake Street (Road 27).

Justification: Near Term - .Offset impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours
 Long Term - Provide storage on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	290,000	225,000	148,000			663,000
Construction					8,720,000	8,720,000
Construction Management/Inspection					280,000	280,000
Total	290,000	225,000	148,000		9,000,000	9,663,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	290,000	225,000	148,000	5,950,000	3,050,000	9,663,000
Total	290,000	225,000	148,000	5,950,000	3,050,000	9,663,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Tower Demolition	Project Number:	W-26
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Project Cost: \$300,000

Category: Water

Phase:

Description: Remove existing water tower located at the Frank Bergon Senior Center (238 S. "D" Street) and perform environmental remediation of the dismantled pieces for proper disposal.

Justification: The expense of restoring the water tower structurally and environmentally has been estimated by the Public Works Department to be in a ballpark area of \$1,000,000 - well over the estimated removal costs. These funds do not presently exist which would leave the current safety concerns in place until such fund could be secured, if ever.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	15,000					15,000
Construction		275,000				275,000
Construction Management/Inspection		10,000				10,000
Total	15,000	285,000				300,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	35,000	265,000				300,000
Total	35,000	265,000				300,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Well No. 35, Ellis St 970 ft w/o Chapin St	Project Number:	W-GW-2
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Project Cost: \$2,011,000

Category: Water **Phase:** CONSTRUCTION

Description: Construct water well in accordance with the Water System Master Plan. Design is complete. The site has been improved and the shaft has been drilled. Site is not currently owned by the City. This site will require water treatment for manganese.

Justification: Represents a well that will be needed per analysis contained in the Water System Master Plan to serve existing development.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction					1,911,000	1,911,000
Construction Management/Inspection					100,000	100,000
Total					2,011,000	2,011,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Fund - Conservation Program: 20300-712					1,511,000	1,511,000
Water Utility Fund: 20300-712				500,000		500,000
Total				500,000	1,511,000	2,011,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Well No. 36, Hwy 145 and Indigo Dr **Project Number: W-GW-3**

Project Cost: \$2,011,000
Category: Water **Phase:** DESIGN

Description: Construct water well in accordance with the Water System Master Plan.

Justification: Represents a well that will be needed per analysis contained in the Water System Master Plan to serve existing development.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Design/Engineering		121,000				121,000	1,890,000
Total		121,000				121,000	Total

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Water Utility Fund: 20300-712		121,000				121,000	1,890,000
Total		121,000				121,000	Total

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Well No. 37 - Pump & Electrical	Project Number:	W-GW-1
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Project Cost: \$1,012,000

Category: Water

Phase: CONSTRUCTION

Description: Install pump and electrical equipment at previously drilled well. Design drawings are complete.

Justification: Water system analysis indicates the City requires additional well capacity to meet peak hour demand and or redundancy.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
20,000	Construction	922,000					922,000
	Construction	70,000					70,000
Total	Management/Inspection						
	Total	992,000					992,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
20,000	Water Utility Fund: 20300-712	992,000					992,000
Total	Total	992,000					992,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Well #28 Pumps Replacement	Project Number:	W-20
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Project Cost: \$500,000
Category: Water **Phase:** DESIGN

Description: Replace pumps at well No. 28 at Storey & Tozer Road
Justification: Prolonged use of pumps caused inefficiency and costly energy use. PG&E will provide funds to replace units thereby saving electricity.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		20,000				20,000
Construction		470,000				470,000
Construction		10,000				10,000
Management/Inspection						
Total		500,000				500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712		500,000				500,000
Total		500,000				500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Well No. 27 Pipeline Outfall Extension	Project Number:	W-17
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Project Cost: \$575,000
Category: Water **Phase:** DESIGN

Description: Pipeline outfall extension - Well No. 27. Install a pipeline 200 feet down Almond to provide relief line.

Justification: Granulated Activated Carbon filter system is backflushed twice a year. Currently, the well water floods the street. System will install a pipeline 200 feet down Almond to provide for relief line.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	45,000					45,000
Construction		500,000				500,000
Construction Management/Inspection		30,000				30,000
Total	45,000	530,000				575,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	45,000	530,000				575,000
Total	45,000	530,000				575,000

CITY OF MADERA

PROJECT DETAILS

Fire Department

Fire Station 7 - Parking Lot Paving	Project Number:	FD-01
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Project Cost: \$67,000

Category: Public Facility

Phase:

Description: Repave parking lot of Fire Station No. 7 on Schoor Avenue

Justification:

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	64,080					64,080
Construction	2,920					2,920
Management/Inspection						
Total	67,000					67,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45216 Fire Department	67,000					67,000
Impact Fee						
Total	67,000					67,000

CITY OF MADERA

PROJECT DETAILS

Fire Department

Fire Station, Northwest	Project Number:	FD-02
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Project Cost: \$3,425,000

Category: Public Facility

Phase:

Description: Construction of a Fire Station in the northwest quadrant of the City to accommodate new growth.

1 Acre of Land
5,000 Square Foot Building
Apararatus, Vehicles & Equipment

The construction of a new fire station in the northwest quadrant of the City will occur when sufficient funds are available.

Justification: The addition of new Fire Station is required to accommodate new growth.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Other				1,800,000		1,800,000
Land Acquisition/Right of Way				125,000		125,000
Construction				1,500,000		1,500,000
Total				3,425,000		3,425,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45216 Fire Department Impact Fee				3,425,000		3,425,000
Total				3,425,000		3,425,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Bike Lane Projects - Various Locations **Project Number: PK-01**

Project Cost: \$339,200
Category: Parks **Phase:** CONSTRUCTION

Description: Maintain bike/pedestrian trails and construct new bike lanes and paths.
Justification: Maintenance and operational safety and matching funds for improvement projects.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
172,600	Construction	32,600	32,000	33,000	34,000	35,000	166,600
Total	Total	32,600	32,000	33,000	34,000	35,000	166,600

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
172,600	LTF - Parks: 42000-341	32,600	32,000	33,000	34,000	35,000	166,600
Total	Total	32,600	32,000	33,000	34,000	35,000	166,600

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Bike/Ped Path - FRT to Cleveland Ave.

Project Number:

PK-56

Project Cost: \$354,000

Category: Parks

Phase: DESIGN

Description: Construct bike/pedestrian path in MID alignment north of Fresno River to Cleveland Avenue between Granada Dr. and Schnoor Ave.



Justification: Provide multi-modal pathway connecting Fresno River and commercial areas to the northwest area of Madera.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	54,000					54,000
Construction		270,000				270,000
Construction Management/Inspection		30,000				30,000
Total	54,000	300,000				354,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Parks: 41700-303	36,000	265,000				301,000
Measure T - Environmental Enhancement: 41500-447	18,000	35,000				53,000
Total	54,000	300,000				354,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Centennial Park Playground	Project Number:	PK-61
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Project Cost: \$503,000

Category: Parks

Phase: CONSTRUCTION

Description: Elements of the project include installation of hardscape approaches, fall surfaces, landscaping, play equipment and other playground amenities (benches, trash cans, etc.)

Justification: Children with disabilities are not always able to enjoy playgrounds especially when they are cumbersome, or not fully accessible. This project will construct the City's first fully accessible playground and will be located in Lions Town and Country Park.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	20,000					20,000
Construction	440,000					440,000
Construction Management/Inspection	43,000					43,000
Total	503,000					503,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Fansler Grant: 41000-635	67,000					67,000
Housing Related Parks Program: 41000-635	436,000					436,000
Total	503,000					503,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - Gateway & UPRR Undercrossing	Project Number:	PK-08
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Project Cost: \$1,098,000

Category: Parks

Phase: CONSTRUCTION

Description: This previously approved and designed project includes engineering, environmental and construction for a trail undercrossing at Gateway Drive and the Union Pacific Railroad tressel.

Justification:

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
115,000	Design/Engineering	10,000					10,000
	Construction	963,000					963,000
	UPRR	10,000					10,000
	Total	983,000					983,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
60,000	ATP Grant	379,000					379,000
	BTA - State (Bicycle Transportation Acc: 41300-342	161,000					161,000
	CMAQ - Parks: 41700-303	298,000					298,000
	LTF - Parks: 42000-341	70,000					70,000
	SJVAPCD - Remove II Grant: 41300	55,000					55,000
	UPRR Match Funds	75,000					75,000
	Total	1,038,000					1,038,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - Granada to MID, North Bank

Project Number:

PK-58

Project Cost: \$149,000

Category: Parks

Phase: DESIGN

Description: Construct Vern McCullogh River bike path - north bank of Fresno River Trail from Granada Drive to MID alignment.



Justification: Continuance of recreational and commuter multi-modal trail connecting northwest Madera to existing facilities.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Land Acquisition	21,000					21,000
Design/Engineering	15,000					15,000
Construction			103,000			103,000
Construction Management/Inspection			10,000			10,000
Total	36,000	113,000				149,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Parks: 41700-303	32,000	97,000				129,000
Measure T - Environmental Enhancement: 41500-447	5,000	15,000				20,000
Total	37,000	112,000				149,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - MID to Schnoor, North Bank **Project Number: PK-57**

Project Cost: \$252,000
Category: Parks **Phase:** DESIGN



Description: Construct Vern McCullogh River bike path - north bank of Fresno River Trail from MID alignment to Schnoor Avenue.

Justification: Continuance of recreational commuter multi modal trail cnenecting northwest Madera to existing facilities.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	10,000					10,000
Land Acquisition/Right of Way	10,000					10,000
Construction		209,000				209,000
Environmental	3,000	2,000				5,000
Construction Management/Inspection		18,000				18,000
Total	23,000	229,000				252,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Parks: 41700-303	55,000	162,000				217,000
Measure T - Enviromental Enhancement: 41500-447	10,000	25,000				35,000
Total	65,000	187,000				252,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT- Schnoor Bridge - North Undercrossing	Project Number:	PK-54
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Project Cost: \$362,200

Category: Parks

Phase: DESIGN

Description: Construct Vern McCullough River Trail undercrossing at Schnoor undercrossing - North

Justification: Continuance of trail to eliminate unsafe road crossing across Schnoor Avenue.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
12,200	Design/Engineering	15,000					15,000
	Construction		300,000				300,000
	Right of Way Costs	5,000					5,000
	Construction Management/Inspection		30,000				30,000
	Total	20,000	330,000				350,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
12,200	BTA - State (Bicycle Transportation Acc: 41300-342	314,000					314,000
	LTF - Parks: 42000-341	36,000					36,000
	Total	350,000					350,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Knox Park Rehabilitation	Project Number:	PK-59
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Project Cost: \$98,000

Category: Parks

Phase: CONSTRUCTION

Description: Elements of the rehabilitation plans include removal of hazardous debris, demolition of concrete pads and sidewalks that are in poor repair, removal of unattractive fencing that creates a barrier to park access, ADA improvements, installation of fencing to segregate the public from seasonal pond water and stormwater infrastructure, re-grading of pond bottom, landscape rehabilitation and limited installation of park amenities (soccer goalposts, picnic tables, trash and recycling cans for example).

Justification: Knox Park is a former neighborhood park within the confines of a water retention basin. The park which served the neighborhoods immediately surrounding it has fallen into disrepair and is permanently locked to prevent public access.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	91,000					91,000
Construction Management/Inspection	7,000					7,000
Total	98,000					98,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Housing Related Parks Program: 41000-635	98,000					98,000
Total	98,000					98,000

CITY OF MADERA

PROJECT DETAILS

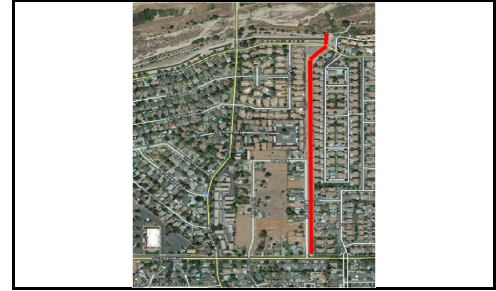
Parks & Community Services

Laurel Bike Path - Sunset Ave. to FRT **Project Number: PK-12**

Project Cost: \$639,800

Category: Parks

Phase: CONSTRUCTION



Description: Phase 1 of this project will construct an asphalt concrete path with concrete landing and install irrigation facilities and trees along an existing MID easement corridor (Laurel Street) that connects to the Fresno River Trail.

Justification:

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
634,800	Construction	5,000					5,000
	Management/Inspection						
Total	Total	5,000					5,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
634,800	SJVAPCD - Remove II Grant:	5,000					5,000
	41300						
Total	Total	5,000					5,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Sunrise Rotary Sports Complex Improvements **Project Number: PK-13**

Project Cost: \$434,000

Category: Parks

Phase: DESIGN

Description: This is a multi-phase project. Phase 1 completed. Phase 2 is conduit, wiring and connections and coordination for installation of new soccer field lights. Phase 3 is construction of concrete curb & gutter, chain link fence and re-grading to improve drainage. Planned improvements also include paving dirt access roads and parking areas; providing landscaping, irrigation and lighting.

Justification: Eliminate dust problem, all season access for parking.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
83,000	Design/Engineering	15,000					15,000
	Construction	306,000					306,000
Total	Construction	30,000					30,000
	Management/Inspection						
	Total	351,000					351,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
83,000	DIF:45218 Parks Impact Fee	351,000					351,000
Total	Total	351,000					351,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Tulare/Cleveland/Raymond Bike Path	Project Number:	PK-48
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Project Cost: \$325,000

Category: Parks

Phase: DESIGN

Description: From the current eastern end of the trail this project would create a Class II bike lane and street crossings to take trail to intersection of Raymond Road and Cleveland Avenue. A new Class I Bike Trail would be constructed running east between the River and Raymond Road to end at the eastern Madera City Limits.

Justification: Construction of Fresno River Trail master plan per Vision 2025.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering		10,000				10,000
Construction			285,000			285,000
Construction Management/Inspection			30,000			30,000
Total		10,000	315,000			325,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
CMAQ - Parks: 41700-303			275,000			275,000
Measure T - Environmental Enhancement: 41500-447		10,000	40,000			50,000
Total		10,000	315,000			325,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Sewer Main, Manhole Covers	Project Number:	S-07
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Project Cost: \$106,000

Category: Sewer

Phase: CONSTRUCTION

Description: Replace manhole covers, rings and frames at various locations.

-Ongoing project.

Justification: Sewer manhole covers, rings and frames have been determined as deteriorated and damaged. Replacement of these manhole covers and appurtenance will eliminate the problem.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
31,000	Construction	10,000	65,000				75,000
Total	Total	10,000	65,000				75,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
31,000	Sewer Utility Fund: 20400-511	75,000					75,000
Total	Total	75,000					75,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Northwest Quadrant Storm Drain Improvements	Project Number:	SD-14
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Project Cost: \$7,400,000

Category: Storm Drain **Phase:** CONSTRUCTION

Description: Construct storm drain improvements within the Northwest quadrant in response to need and as identified in the Storm Drain Master Plan for that Area and/or reimburse developers for those same improvements if constructed as part of a development project.

Includes 3 basins and 16 pipes of various sizes and lengths - \$7,400,000

Justification: Planned growth in this quadrant of the City requires construction of various storm drain improvements as are identified in the Storm Drain Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
Construction	100,000	100,000	500,000	1,000,000	2,000,000	3,700,000	3,700,000
Total	100,000	100,000	500,000	1,000,000	2,000,000	3,700,000	Total

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total	Future
DIF:45155 Storm Drain NW Quadrant Impact Fee	100,000	100,000	159,000	1,000,000	2,000,000	3,359,000	3,700,000
Total	100,000	100,000	159,000	1,000,000	2,000,000	3,359,000	Total

CITY OF MADERA

PROJECT DETAILS

Public Works

Southeast Quadrant Storm Drain Improvements	Project Number:	SD-15
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Project Cost: \$17,500,000

Category: Storm Drain

Phase: CONSTRUCTION

Description: Construct storm drain improvements within the Southeast quadrant in response to need and as identified in the Storm Drain Master Plan for that Area and/or reimburse developers for those same improvements if constructed as part of a development project.

Includes 10 basins and 48 pipes of various sizes and lengths - \$17,600,000

Justification: Planned growth in this quadrant of the City requires construction of various storm drain improvements as are identified in the Storm Drain Master Plan.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	100,000	500,000	1,000,000	2,000,000	13,900,000	17,500,000
Total	100,000	500,000	1,000,000	2,000,000	13,900,000	17,500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
DIF:45158 Storm Drain SE Quadrant Impact Fee	100,000	500,000	1,000,000	2,000,000	13,900,000	17,500,000
Total	100,000	500,000	1,000,000	2,000,000	13,900,000	17,500,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Downtown Valve Replacement	Project Number:	W-29
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Project Cost: \$130,000
Category: Water **Phase:** CONSTRUCTION

Description: Replace 26 valves in the downtown area.
Justification: This project was submitted from Public Works into the CIP plan for the water rate increases.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	130,000					130,000
Total	130,000					130,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	130,000					130,000
Total	130,000					130,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Water Tower Recoating	Project Number:	W-22
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Project Cost: \$1,500,000

Category: Water

Phase: DESIGN

Description: Recoating of the water tower interior lining

Justification: Recoating to prevent rust and deterioration of interior lining of the water tower

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	10,000					10,000
Construction		1,450,000				1,450,000
Construction Management/Inspection		40,000				40,000
Total	10,000	1,490,000				1,500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Water Utility Fund: 20300-712	1,500,000					1,500,000
Total	1,500,000					1,500,000

CITY OF MADERA

PROJECT DETAILS

RDA Successor Agency

Adel St. Improvement Project	Project Number:	RDA 16-01
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Project Cost: \$2,500,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description: Construction of sidewalks, street lights, curb, gutters, storm drainage, water & sewer mains, and widening of street along Adel Street.
Justification: Improvement of City neighborhoods for the betterment of the whole community.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	2,350,000					2,350,000
Construction Management/Inspection	150,000					150,000
Total	2,500,000					2,500,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
RDA Funds	2,500,000					2,500,000
Total	2,500,000					2,500,000

CITY OF MADERA

PROJECT DETAILS

RDA Successor Agency

Riverside Villas of Madera

Project Number:

RDA 16-02

Project Cost: \$160,000

Category: Storm Drain

Phase: CONSTRUCTION

Description: Storm drain pipeline replacement.

Justification: Increase pipeline capacity to handle storm water runoff.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Construction	145,000					145,000
Construction	15,000					15,000
Management/Inspection						
Total	160,000					160,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
UNDETERMINED	160,000					160,000
Total	160,000					160,000

CITY OF MADERA

PROJECT DETAILS

RDA Successor Agency

Riverwalk Dr. Improvements Project **Project Number: RDA ST10-03**

Project Cost: \$1,120,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description:
Justification: Improvement of City neighborhoods for the betterment of the whole community.

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,000,000	Construction	110,000					110,000
	Construction	10,000					10,000
Total	Management/Inspection						
	Total	120,000					120,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
1,000,000	RDA Funds	120,000					120,000
Total	Total	120,000					120,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Transit & Public Works Maintenance/Admin Facility **Project Number: Trans-1**

Project Cost: \$2,300,000

Category: Transit

Phase: DESIGN/CONSTRUCTION

Description: This project includes relocation and expansion of the Public Works Corporation yard to accommodate medium-to long term projected growth.

Justification: To provide facilities to accommodate City of Madera Transit System and Public Works Yard space to accommodate projected growth consistent with Vision 2025 Strategy 121

Prior	Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
210,000	Design/Engineering	200,000					200,000
Total	Construction	1,790,000					1,790,000
	Construction	100,000					100,000
	Management/Inspection						
	Total	2,090,000					2,090,000

Prior	Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
210,000	Prop 1B PTMISEA: 21229-449	2,090,000					2,090,000
Total	Total	2,090,000					2,090,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Transit Security & Passenger Enhancements	Project Number:	Trans-6
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Project Cost: \$459,000

Category: Transit

Phase: CONSTRUCTION

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	20,000					20,000
Construction	409,000					409,000
Construction	30,000					30,000
Management/Inspection						
Total	459,000					459,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Fixed Route Transit System: 21229-350	50,000					50,000
Measure T - Transit Enhan. Sr.: 41500-447	18,000					18,000
Measure T - Transit Enhan.: 41500-447	252,000					252,000
Prop 1B CalOES: 41100-449	139,000					139,000
Total	459,000					459,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Transit Security & Passenger Enhancements, B **Project Number: Trans-7**

Project Cost: \$201,000

Category: Transit

Phase: DESIGN

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering	12,000					12,000
Construction		173,000				173,000
Construction Management/Inspection		16,000				16,000
Total	12,000	189,000				201,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure T - Transit Enhan. Sr.: 41500-447	6,000	6,000				12,000
Measure T - Transit Enhan.: 41500-447	70,000	72,000				142,000
Prop 1B CalOES: 41100-449	47,000					47,000
Total	123,000	78,000				201,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Transit Security & Passenger Enhancements, C	Project Number:	Trans-8
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Project Cost: \$162,000

Category: Transit

Phase:

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Design/Engineering			12,000			12,000
Construction				136,000		136,000
Construction				14,000		14,000
Management/Inspection						
Total			12,000	150,000		162,000

Funding Sources	'16/'17	'17/'18	'18/'19	'19/'20	'20/'21	Total
Measure T - Transit Enhan. Sr.: 41500-447			6,000	6,000		12,000
Measure T - Transit Enhan.: 41500-447			74,000	76,000		150,000
Total			80,000	82,000		162,000

