

**DEPARTMENTAL PURPOSE**

Public Works is responsible for providing and maintaining a safe, reliable roadway network and associated infrastructure in unincorporated Solano County for the benefit of the travelling public.

<b>Budget Summary:</b>	
FY2013/14 Third Quarter Projection:	24,877,181
FY2014/15 Recommended:	31,155,162
County General Fund Contribution:	0
Percent County General Fund Supported:	0%
Total Employees (FTEs):	64

**FUNCTION AND RESPONSIBILITIES**

The Public Works Division of the Department of Resource Management consists of two organizational units – Operations, and Engineering. These units receive general direction from the Director of Resource Management, have administrative authority over the unincorporated areas of the county, and provide a variety of legally mandated and non-mandated programs and services as summarized below:

Public Works Operations

Public Works Operations' primary responsibilities are to:

- Maintain 579 miles of County roads and bridges, including pavement surfaces, roadside drainage ditches and culverts, vegetation management, signing and striping, sidewalks, curbs, gutters, and gravel roads.
- Maintain 93 bridges and 42 large drainage culverts, including the bridge/culvert structures, the roadway surfaces and the associated drainage channels within the road rights-of-way.
- Perform maintenance work on road, airport, parking lot, and drainage facilities for County departments and other agencies on a reimbursable basis.
- Maintain 45 miles of drainage channels under contract with the Solano County Water Agency.

Public Works Engineering

Public Works Engineering's primary responsibilities are to:

- Design and construct County roads and bridges, including major road and bridge rehabilitation and reconstruction projects.

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- Participate in regional transportation planning and the development of regional transportation projects as a member agency of the Solano Transportation Authority (STA).
  - Provide traffic engineering services, including traffic orders and signage.
  - Issue various permits, including transportation, encroachment, grading and assembly permits.
  - Provide engineering, surveying and construction work on road, airport, parking lot, and drainage facilities for County departments and other agencies on a reimbursable basis.
  - Contract with local public agencies to maintain Solano County's three traffic signals.
  - Contract with PG&E and local contractors to maintain Solano County's 552 existing street lights and install additional lights as needed. Costs are reimbursed from the Consolidated County Service Area budget.
  - Administer the County's storm water pollution prevention program.

#### Road State Match Program

Road State Match Program tracks approximately \$100,000 revenues received annually from the State, such as State matching funds. These State funds can be used to provide matching funds on Federally funded projects.

#### Federal Roads & Bridge Projects

The Federal Road and Bridge Projects Program tracks all the expenditures related to federally funded projects as well as federal reimbursements. Public Works Engineering uses the federal funds to pay for the replacement and rehabilitation of deficient bridges, the paving of federally eligible roads and the construction of road improvement projects. The funds come from a variety of federal programs, and reimburse the County for project costs at a rate ranging from 80 to 100 percent, depending on the specific program.

#### Administrative Support

Administration supports the Division by handling incoming phone calls and inquiries; maintaining and assisting with accounting, recordkeeping, inventories, fees, imaging processing and retention schedules; and data processing information system operations.

### **SIGNIFICANT CHALLENGES AND ACCOMPLISHMENTS**

- Projected future decline in transportation funding will present a challenge to Solano County's ability to preserve and maintain its system of County roads.
- Awarded \$3 million in federal safety grants to improve Cordelia Road, Dixon Avenue West, Hartley Road, Lake Herman Road, Putah Creek Road, Rockville Road, and replace aged guardrails.
- Began construction on the Winters Road Bridge Replacement Project, which will take approximately 3 years to complete.
- Completed construction of the Suisun Valley Road Bridge Replacement Project, which demolished the old bridge, constructed the new bridge, improved the drainage, and rip-rapped the channel.
- Completed construction on the STP Overlay Project 2013 and Surface Rehabilitation Project 2013, which provided new surfacing to roads and new striping.

### **WORKLOAD INDICATORS**

- Overlaid 4 miles of County roads at 3 locations with asphalt concrete to extend the life of the paved surfaces.
- Chip-sealed (oiled fine gravel) 40 miles of County roads at 42 locations to extend the life of the paved surfaces.
- Continued engineering work on three different bridges at various stages of project development.

**Functional Area Summary**

**3010 – Fund 101-Public Works  
Bill Emlen, Director of Resource Management  
Public Ways**

<b>DETAIL BY REVENUE AND APPROPRIATION FUNCTIONAL AREA</b>	<b>2012/13 ACTUAL</b>	<b>2013/14 ADOPTED BUDGET</b>	<b>2014/15 RECOMMENDED</b>	<b>FROM ADOPTED TO RECOMMENDED</b>	<b>PERCENT CHANGE</b>
<b>REVENUES</b>					
ROADS STATE MATCH PROGRAM	100,000	100,000	100,000	-	0.0%
FEDERAL ROADS & BRIDGE PROJECTS	6,046,682	10,573,000	13,895,900	3,322,900	31.4%
ENGINEERING SERVICES	1,375,019	1,311,634	775,712	(535,922)	(40.9%)
OPERATION ROAD SERVICES	1,871,253	826,500	586,000	(240,500)	(29.1%)
ADMINISTRATIVE SERVICES	9,483,584	9,997,600	10,957,747	960,147	9.6%
<b>TOTAL REVENUES</b>	<b>18,876,538</b>	<b>22,808,734</b>	<b>26,315,359</b>	<b>3,506,625</b>	<b>15.4%</b>
<b>APPROPRIATIONS</b>					
FEDERAL ROADS & BRIDGE PROJECTS	6,537,426	11,085,900	14,980,700	3,894,800	35.1%
ENGINEERING SERVICES	2,513,352	3,478,709	6,453,878	2,975,169	85.5%
OPERATION ROAD SERVICES	6,598,015	7,594,654	7,632,897	38,243	0.5%
ADMINISTRATIVE SERVICES	1,920,297	2,133,101	2,087,687	(45,414)	(2.1%)
<b>TOTAL APPROPRIATIONS</b>	<b>17,569,090</b>	<b>24,292,364</b>	<b>31,155,162</b>	<b>6,862,798</b>	<b>28.3%</b>
<b>CHANGE IN FUND BALANCE</b>					
ROADS STATE MATCH PROGRAM	(100,000)	(100,000)	(100,000)	-	0.0%
FEDERAL ROADS & BRIDGE PROJECTS	490,744	512,900	1,084,800	571,900	111.5%
ENGINEERING SERVICES	1,138,333	2,167,075	5,678,166	3,511,091	162.0%
OPERATION ROAD SERVICES	4,726,762	6,768,154	7,046,897	278,743	4.1%
ADMINISTRATIVE SERVICES	(7,563,287)	(7,864,499)	(8,870,060)	(1,005,561)	12.8%
<b>NET CHANGE</b>	<b>(1,307,448)</b>	<b>1,483,630</b>	<b>4,839,803</b>	<b>3,356,173</b>	<b>226.2%</b>
<b>STAFFING</b>					
ROADS STATE MATCH PROGRAM	0.0	0.0	0.0	0.0	0.0 %
FEDERAL ROADS & BRIDGE PROJECTS	0.0	0.0	0.0	0.0	0.0 %
ENGINEERING SERVICES	16.0	16.0	17.0	1.0	6.3 %
OPERATION ROAD SERVICES	40.0	40.0	42.0	2.0	5.0 %
ADMINISTRATIVE SERVICES	5.0	5.0	5.0	0.0	0.0 %
<b>TOTAL STAFFING</b>	<b>61.0</b>	<b>61.0</b>	<b>64.0</b>	<b>3.0</b>	<b>4.9 %</b>

**DEPARTMENTAL BUDGET SUMMARY**

The Recommended Budget represents an overall increase of \$3,506,625 or 15.4% in revenues, largely as a result of a \$2,611,900 increase in federal funding for bridge improvements and an increase of \$822,637 in the Highway Users Tax Assessment allocation, and an increase of \$6,862,798 or 28.3% in appropriations due to an increase in construction projects and an increase of \$2,730,000 in land purchases for permanent right of way for the Cordelia Hill Sky Valley project. The gap between projected revenues and appropriations in FY2014/15 will be funded by anticipated FY2013/14 Fund Balance and the Road Fund Reserve.

The primary funding source for Public Works is the Highway Users Tax Assessment (HUTA), commonly referred to as the gas tax. There are two components of the HUTA, often referred to as old HUTA and new HUTA.

Old HUTA consists of Solano County's portion of 18 cents per gallon gas tax which was established in 1995. There has been no adjustment for inflation since then, so the buying power of the funding has decreased substantially with time.

New HUTA represents Solano County's portion of a 17.3 cent per gallon gas tax established in 2010, which includes an inflation index. This funding was originally approved through Proposition 42 in 2002 as a sales tax on gasoline, later under the 2010 Transportation Tax Swap, whereby the State eliminated the sales tax on gasoline and replaced it with an equivalent amount of new gasoline excise tax which is adjusted annually to reflect what the sales tax would have otherwise generated in a given year. Legislation passed as part of the State budget process confirmed the validity of the tax swap, thereby securing the new HUTA funding for Solano County.

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Public Works anticipates receiving a total of \$9.8 million of HUTA funding in FY2014/15. Public Works also receives substantial federal funding on a project specific reimbursement basis. In FY2014/15, \$13.1 million in federal funding is anticipated.

Non-federal public works contracts included in the FY2014/15 Recommended Budget are:

- \$150,000 for design services for the Rule 20A Utility Undergrounding Project;
- \$1,000,000 for Culvert Repair Project 2015;
- \$2,018,000 for Paving Project 2014 (9 miles of Road);
- \$237,000 for Terminal Blend Chip Seal Project.

The cost of fixed assets reflects a net increase of \$6,379,500 primarily due to the following:

- \$2,525,000 increase in Land acquisition costs for right of way work on the Cordelia Hills Sky Valley project;
- \$3,658,000 increase in Construction in Progress primarily due to the addition of several paving projects and several new federal and non-federal projects included in the FY2014/15 Public Works Capital Improvement Plan;
- \$760,000 in Equipment purchases is included in the FY2014/15 Recommended Budget to replace a Stencil Truck (\$100,000), four Asphalt Emulsion Pots (\$70,000), one Bitumius Applicator (\$30,000), and five Dump Trucks (\$560,000).

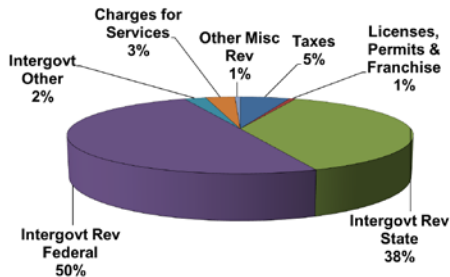
Federal road improvement contracts included in the FY2014/15 budget are:

- \$1,030,000 for design and environmental work on eight projects, including \$250,000 for the Stevenson Road Bridge, \$200,000 for Pleasants Valley Road Bridge, \$180,000 for the Farm to Market project, and \$300,000 for Travis AFB Access Improvements – South Gate;
- \$2,775,000 for right of way acquisition work that includes \$2,525,000 for the Cordelia Hills Sky Valley project and \$250,000 for Stevenson Road Bridge.
- \$10,842,000 for the construction of ten projects, including five major projects: \$2,050,000 for the Travis AFB Access Improvements–South Gate, \$1,910,000 for the Vacaville-Dixon Bike Route Phase-5 (Hawkins road) project, \$943,000 for the Midway-Sievers Road HR3 project, \$4,700,000 for the Winters Road Bridge project and \$889,000 for STP Overlay project 2014. Also included are \$200,000 for HSIP Guardrail project and \$100,000 for Cordelia Hills Sky Valley project.

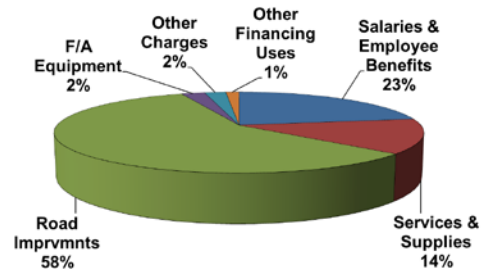
#### **DEPARTMENT COMMENTS**

Public Works design and construction activity is expected to remain heavy through FY2014/15 with significant increases to both local and federal funded projects. To accommodate this workload Public Works added 2.0 FTE Maintenance Worker in FY2013/14. In addition, Public Works is recommending the addition of 1.0 FTE Civil Engineer. The maintenance needs of some of the County's culvert inventory, as well as some non-federal roads (not eligible for federal funds); will require Road Fund expenditures to bring them up to current maintenance standards. These expenditures will reduce the long-term costs of maintenance on these structures and roads. In general, the condition of the County's roads is improving due to the Department's established maintenance program resulting in a reduction of the projected maintenance backlog.

**SOURCE OF FUNDS**



**USE OF FUNDS**



DETAIL BY REVENUE CATEGORY AND APPROPRIATION CATEGORY	2012/13 ACTUALS	2013/14 ADOPTED BUDGET	2014/15 RECOMMENDED	FROM ADOPTED TO RECOMMENDED	PERCENT CHANGE
<b>REVENUES</b>					
Taxes	980,718	1,497,750	1,440,000	(57,750)	(3.9%)
Licenses, Permits & Franchise	239,696	192,500	179,300	(13,200)	(6.9%)
Revenue From Use of Money/Prop	109,710	109,000	96,000	(13,000)	(11.9%)
Intergovernmental Rev State	8,657,839	9,108,604	9,932,041	823,437	9.0%
Intergovernmental Rev Federal	6,483,297	10,526,000	13,137,900	2,611,900	24.8%
Intergovernmental Rev Other	115,212	47,000	628,000	581,000	1236.2%
Charges For Services	2,190,379	1,277,265	850,218	(427,047)	(33.4%)
Misc Revenue	1,087	615	1,900	1,285	208.9%
Other Financing Sources	98,600	50,000	50,000	0	0.0%
<b>TOTAL REVENUES</b>	<b>18,876,538</b>	<b>22,808,734</b>	<b>26,315,359</b>	<b>3,506,625</b>	<b>15.4%</b>
<b>APPROPRIATIONS</b>					
Salaries and Employee Benefits	6,037,208	6,410,724	6,995,723	584,999	9.1%
Services and Supplies	3,249,188	4,354,939	4,299,771	(55,168)	(1.3%)
Other Charges	640,035	752,539	692,036	(60,503)	(8.0%)
F/A Land	62,524	105,000	2,835,000	2,730,000	2600.0%
F/A Bldgs and Imprmts	6,323,628	11,489,000	15,147,000	3,658,000	31.8%
F/A Equipment	852,489	769,500	761,000	(8,500)	(1.1%)
Other Financing Uses	404,019	410,662	424,632	13,970	3.4%
<b>TOTAL APPROPRIATIONS</b>	<b>17,569,090</b>	<b>24,292,364</b>	<b>31,155,162</b>	<b>6,862,798</b>	<b>28.3%</b>
<b>NET CHANGE</b>	<b>(1,307,448)</b>	<b>1,483,630</b>	<b>4,839,803</b>	<b>3,356,173</b>	<b>226.2%</b>

**SUMMARY OF SIGNIFICANT ADJUSTMENTS**

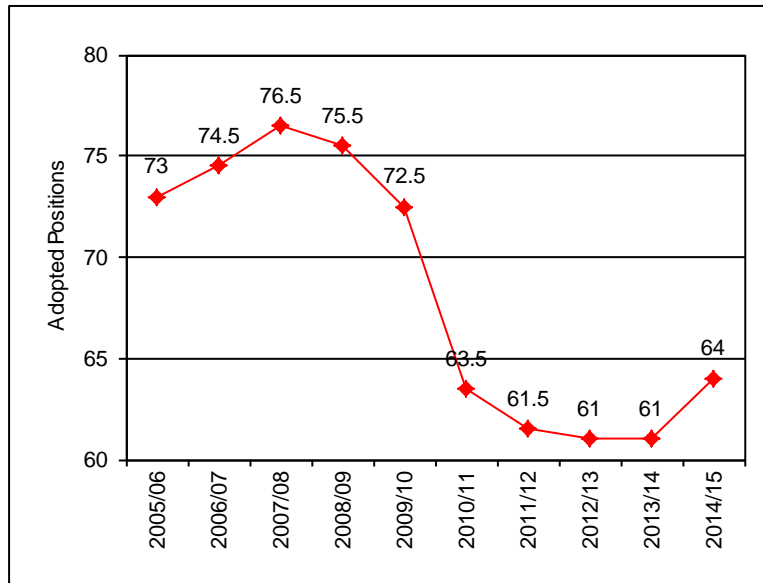
Significant increases in revenues and expenditures are largely due to five major federally funded projects in FY2013/14: STP Overlay 2014, Travis AFB Access Improvements – South Gate, Midway-Sievers Road HR3 project, Vacaville-Dixon Bike Route Phase-5 and Winters Road Bridge.

**SUMMARY OF POSITION CHANGES**

One February 11, 2014 the Board approved the addition of 2.0 FTE Public Works Maintenance Workers.

In FY2014/15, Public Works is recommending the addition of 1.0 FTE Civil Engineer to accommodate increased project activity needs in design and construction.

**STAFFING TREND**



**PENDING ISSUES AND POLICY CONSIDERATIONS**

The key issue facing Public Works is the continuing federal underfunding of transportation. This is a long-term trend that has been masked in the last 5 years by the use of one-time sources of funding, such as Proposition 1B and federal stimulus funds. The number of local roads in California that are in failed condition is expected to nearly quadruple by 2020, from six percent to 22 percent. This means that nearly a quarter of all local roads in California will have failed within ten years unless additional sources of transportation funding are developed. Solano County's roads will be similarly impacted.

**Summary of Other Administered Budgets**

**3010 – Fund 101-Public Works**  
**Bill Emlen, Director of Resource Management**  
**Public Ways**

DETAIL BY REVENUE AND APPROPRIATION OTHER ADMINISTERED BUDGETS	2012/13 ACTUAL	2013/14 ADOPTED BUDGET	2014/15 RECOMMENDED	FROM ADOPTED TO RECOMMENDED	PERCENT CHANGE
<b>REVENUES</b>					
3020 PUBLIC WORKS IMPROVEMENT	51,594	31,400	46,100	14,700	46.8%
3030 REGIONAL TRANSPORTATION PROJ	-	34,000	39,078	5,078	14.9%
<b>APPROPRIATIONS</b>					
3020 PUBLIC WORKS IMPROVEMENT	1,000	1,000	1,000	-	0.0%
3030 REGIONAL TRANSPORTATION PROJ	39,950	34,000	39,078	5,078	14.9%
<b>NET CHANGE</b>					
3020 PUBLIC WORKS IMPROVEMENT	50,594	30,400	45,100	14,700	48.4%
3030 REGIONAL TRANSPORTATION PROJ	(39,950)	-	-	-	0.0%

A summary of the budgets administered by the Public Works Department is provided on the following pages.

**FUNCTION AND RESPONSIBILITIES**

This Budget tracks funds for regional transportation projects. Regional transportation projects typically consist of local roads that provide major points of access to the State highway system, or provide regional connections between communities and key transportation facilities. The Public Works Engineering Division of the Department of Resource Management typically represents the County in the planning and implementation of such projects, many of which are coordinated with the Solano Transportation Authority (STA).

In FY2006/07 the Board of Supervisors approved a loan up to \$3 million from the General Fund to support regional transportation projects, with the goal of repaying the loan with future transportation impact fees.

The current loan outstanding as of June 30, 2014 is \$0.9 million. On December 3, 2013 the Board adopted a resolution as part of the County Public Facilities Fee (PFF) Update which included a transportation fee component. This fee was established as a means to address the impact of growth on the county regional road system. The transportation fee has two parts: The first part, Part A, of the fee is designed to generate fair-share funding from new development to recover County debt service obligations on the Vanden Road segment of the Jepson Parkway and Suisun Parkway in the unincorporated area. The second part, Part B, is the Regional Transportation Impact Fee (RTIF), which was included at the request of the Solano Transportation Authority (STA), in consultation with the STA’s RTIF Policy Committee, composed of the seven City Managers, the Mayors, County Administrator, and one County Supervisor. The County will receive approximately five (5) percent of all RTIF fee revenue for county road projects.

**DEPARTMENTAL BUDGET SUMMARY**

The Recommended Budget represents an increase of \$5,078 or 14.9% in both revenues and appropriations when compared to the FY2013/14 Adopted Budget. For FY2014/15, a recommended appropriation of \$5,000 will be used for the local match for the Redwood Parkway Fairgrounds project and \$34,078 is appropriated for interest and principal on the General Fund Loan. Revenues represent long-term debt proceeds.

<b>DETAIL BY REVENUE CATEGORY AND APPROPRIATION CATEGORY</b>	<b>2012/13 ACTUALS</b>	<b>2013/14 ADOPTED BUDGET</b>	<b>2014/15 RECOMMENDED</b>	<b>FROM ADOPTED TO RECOMMENDED</b>	<b>PERCENT CHANGE</b>
<b>REVENUES</b>					
Other Financing Sources	0	34,000	39,078	5,078	14.9%
<b>TOTAL REVENUES</b>	<b>0</b>	<b>34,000</b>	<b>39,078</b>	<b>5,078</b>	<b>14.9%</b>
<b>APPROPRIATIONS</b>					
Services and Supplies	11,525	4,000	5,000	1,000	25.0%
Other Charges	28,426	30,000	34,078	4,078	13.6%
<b>TOTAL APPROPRIATIONS</b>	<b>39,950</b>	<b>34,000</b>	<b>39,078</b>	<b>5,078</b>	<b>14.9%</b>
<b>NET CHANGE</b>	<b>39,950</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>

**SUMMARY OF SIGNIFICANT ADJUSTMENTS**

None.



**FUNCTION AND RESPONSIBILITIES**

The Public Works Improvement Fund Budget exists to fund the construction of roads and other public works improvements in certain areas of the county. Property owners who make an application to develop their property, such as a subdivision or building permit, are required in some locations to pay for road improvements. The payments are placed in this Fund as a holding account until the road improvements are made, at which time the funds are used to reimburse the actual cost of the work performed. The improvements are restricted to the area where the property development occurred. The largest sources of such payments are the English Hills Zone of Benefit and the Green Valley Zone of Benefit. The work is performed by the Public Works Division on a reimbursable basis.

**DEPARTMENTAL BUDGET SUMMARY**

The Recommended Budget reflects an increase in revenues of \$14,700 or 46.8% and no changes to appropriations when compared to the FY2013/14 Adopted Budget. Revenues are projected to increase based on the continued increase in development activity in the English Hills area.

See related Budget Unit 9122 - Fund 278 Contingencies (refer to Contingencies section of the Budget).

DETAIL BY REVENUE CATEGORY AND APPROPRIATION CATEGORY	2012/13 ACTUALS	2013/14 ADOPTED BUDGET	2014/15 RECOMMENDED	FROM ADOPTED TO RECOMMENDED	PERCENT CHANGE
<b>REVENUES</b>					
Revenue From Use of Money/Prop	1,280	1,400	1,100	(300)	(21.4%)
Misc Revenue	50,314	30,000	45,000	15,000	50.0%
<b>TOTAL REVENUES</b>	<b>51,594</b>	<b>31,400</b>	<b>46,100</b>	<b>14,700</b>	<b>46.8%</b>
<b>APPROPRIATIONS</b>					
Other Charges	1,000	1,000	1,000	0	0.0%
<b>TOTAL APPROPRIATIONS</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>0</b>	<b>0.0%</b>
<b>NET CHANGE</b>	<b>(50,594)</b>	<b>(30,400)</b>	<b>(45,100)</b>	<b>(14,700)</b>	<b>48.4%</b>

**SUMMARY OF SIGNIFICANT ADJUSTMENTS**

None.

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