

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS  
ACTION AGENDA SUMMARY

DEPT: Public Works *MB*

BOARD AGENDA # \*C-1

Urgent  Routine

AGENDA DATE June 24, 2008

CEO Concurs with Recommendation YES  NO   
(Information Attached)

4/5 Vote Required YES  NO

SUBJECT:

Approval of Amendment No. 3 to Agreement No. 2004-1 with Wood Rodgers, to Add Additional Engineering Services for the Ladd Road and McHenry Avenue Intersection Improvement Project

STAFF RECOMMENDATIONS:

1. Approve Amendment No. 3 to Agreement No. 2004-1 with Wood Rodgers to add additional engineering services for the improvements at the Ladd Road and McHenry Avenue intersection.
2. Authorize the Director of Public Works to execute the amendment.
3. Direct the Auditor-Controller to increase appropriations and estimated revenue for the Ladd Road at McHenry Avenue Improvement Project per the financial transaction sheet.

FISCAL IMPACT:

The estimated total cost of the project is anticipated to be approximately \$1,793,254. The Ladd Road and McHenry Avenue Intersection Improvement Project will be funded 100% by Regional Transportation Impact Fee (RTIF) funds. At this time, \$26,849.76 is needed for additional engineering design services.

Costs associated to assure the engineering services for this project in the amount of \$513,820.78 (\$323,775.00 original contract, \$34,980.00 Amendment No. 1, \$128,216.02 Amendment No. 2, and \$26,849.76 Amendment No. 3) are available in the Regional Transportation Impact Fees Program.

BOARD ACTION AS FOLLOWS:

No. 2008-479

On motion of Supervisor Monteith, Seconded by Supervisor Grover  
and approved by the following vote,

Ayes: Supervisors: O'Brien, Grover, Monteith, DeMartini and Chairman Mayfield

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) X Approved as recommended

2) \_\_\_\_\_ Denied

3) \_\_\_\_\_ Approved as amended

4) \_\_\_\_\_ Other:

MOTION:

*Christine Ferraro*

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

Approval of Amendment No. 3 to Agreement No. 2004-1 with Wood Rodgers, to Add Additional Engineering Services for the Ladd Road and McHenry Avenue Intersection Improvement Project

DISCUSSION:

In January 2004, the Board of Supervisors approved the Public Works Road Congestion Relief Program. One of the projects approved under this program was the improvement to the Ladd Road at McHenry Avenue intersection. The proposed improvements consist of a traffic signal, left turn lanes, dedicated right turn lanes, pavement widening, traffic striping, widening of the existing canal crossing on McHenry Avenue and relocation of the existing irrigation delivery system along the west side of McHenry Avenue.

In June 2004, the Board of Supervisors awarded a contract to Wood Rodgers for engineering, environmental, and right-of-way acquisition services for the Ladd Road at McHenry Avenue Intersection Improvements. The original contract envisioned a joint project eliminating the existing diagonal connector on State Highway 108.

In May 2005, the Board of Supervisors approved Amendment No. 1 to the contract with Wood Rodgers for additional services due to the extensive negotiations with the California Department of Transportation (Caltrans) for the portion of the intersection within the State's jurisdiction. Department of Public Works staff along with Wood Rodgers was not able to develop a concept that was acceptable to the State to eliminate the diagonal connector and have intersection improvements that were acceptable to the County. Caltrans is moving forward with the design of intersection improvements at both ends of the diagonal connector.

Public Works staff has directed Wood Rodgers to proceed with the design of intersection improvements that do not require the removal of the diagonal connector. Wood Rodgers has developed a concept that is acceptable to both Caltrans and the County. The concept developed by Wood Rodgers will widen State Route 108 on the west side, south of the intersection area, and the future Caltrans project will widen State Route 108 on the east side.

In July 2007, the Board of Supervisors approved Amendment No. 2 to provide additional services that were not anticipated in the original contract. The additional work consisted of the development of project special provisions based on the May 2006 State Standards, specification formatting based on the current County template, splitting of construction documents to allow construction of improvements in phases to allow construction of irrigation facilities during the non-irrigation season, and additional field work to complete the environmental clearance documents.

In recent weeks, Public Works staff has been negotiating with Wood Rodgers the cost for the additional work and recommends that Amendment No. 3 be approved in the amount not to exceed \$26,849.76. This contract amendment is the additional cost to complete the final design of the intersection improvements, which include the roadway and storm drainage plan and profile design drawings, the traffic signal design drawings, and the traffic control/traffic handling drawings.

Approval of Amendment No. 3 to Agreement No. 2004-1 with Wood Rodgers, to Add Additional Engineering Services for the Ladd Road and McHenry Avenue Intersection Improvement Project

**POLICY ISSUES:**

The Board should consider if the recommended actions are consistent with its priorities of providing a safe community, a healthy community and a well-planned infrastructure system.

**STAFFING IMPACT:**

There is no staffing impact associated with this item.

**CB:sr**

L:\ROADS\9709 - Ladd Road at McHenry Ave\Design Division\Board Items\Ladd & McHenry board item 6-10-08

## AUDITOR-CONTROLLER BUDGET JOURNAL



Balance Type	Budget	
Category	Budget - Upload	
Source		
Currency	USD	
Budget Name	LEGAL BUDGET	
Batch Name		BO#
Journal Name		
Journal description	Transfer budget to Ladd Rd and McHenry Ave Intersection project	
Period	JUL-07 to JUN-08	
Organization	Stanislaus Budget Org	

Line	Coding Structure						Debit		Credit		Description
	Fund 4	Org 7	Account 5	G/L Proj 7	Loc 6	Misc 6	incr appropriations decr est revenue	decr appropriations incr est revenue			
1	1102	40310	63280	9709	0	0.0	26,849.76				
2	1102	40310	63280	0	0	0.0		26,849.76			
3	1102	40310	46615	0	0	0.0	26,849.76				
4	1102	40310	46615	9709	0	0.0		26,849.76			
5						0					
6						0					
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25						0					
<b>Totals</b>							<b>53,699.52</b>	<b>53,699.52</b>			

Transfer budget to Ladd Rd and McHenry Ave Intersection project

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<b>Requesting Department</b>		<b>Auditors Office Only</b>	
Sharon Andrews	<b>CEO</b>		
Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Prepared By <i>Jim Fliver</i>	Admin Approval (\$75K+) <i>6/5/08</i>
Date 6/5/08	Date 06/15/08	Date	Date

Contact Person & Phone Number

**AUDITOR-CONTROLLER  
STANDARD JOURNAL VOUCHER**



**BATCH SCREEN**

Batch   
 Period   
 Description

**JOURNAL SCREEN**

Journal   
 Category   
 Balance Type  A = Actual or E = Encumbrance  
 Description   
 Control Total

Line	Coding Structure						Debit	Credit	Description
	Fund 4	Org 7	Account 5	G/L Proj 7	Loc 6	Misc 6			
1	6400	64100	85850	0	0	0.0	26,849.76		
2	1102	40310	46610	9709	0	0.0		26,849.76	
3			5			0			
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26						0			
27						0			
Totals							26,849.76	26,849.76	

Explanation: Transfer funds from RTIF to project account - Ladd Road @ McHenry Intersection

Departments Outside Auditors' Office		Auditors Office Only	
SHARON ANDREWS			
Prepared by	Supervisor's Approval	Prepared By	Admin Approval (\$75K+)
6/5/08	6/5/08		6/5/08
Date	Date	Date	Date

**WOOD RODGERS**  
**AMENDMENT NO. 3 TO PROJECT AGREEMENT NO. 2004-1**  
**For**  
**LADD ROAD AND MCHENRY AVENUE PROJECT**  
**(Traffic Congestion Relief Project "H")**

This Amendment is made and entered into on June 10, 2008, in the City of Modesto, State of California, by and between the County of Stanislaus ("COUNTY") and Wood Rodgers, ("CONSULTANT"), for and in consideration of the promises, and the mutual promises, covenants, terms, and conditions, hereinafter contained.

1. The original Project Agreement No. 2004-1 is amended to revise Paragraph No. 2 of Section C, Compensation, to increase design work by \$26,849.76 per attached Revisions to Scope of Work dated May 9, 2008.

**COMPENSATION**

The parties hereto acknowledge the maximum amount to be paid by the County for services provided shall not exceed the amended contract amount per amendments 1 & 2, plus the contract amount of \$26,849.76 including, without limitation, the cost of any subcontractors, consultants, experts or investigators retained pursuant to Paragraph 1.5 of the Master Agreement dated June 29, 2004.

2. All other terms and conditions of said Agreement shall remain in full force and effect.

In witness whereof, the parties have executed this Amendment effective on the date written above.

**COUNTY OF STANISLAUS**

**WOOD RODGERS**

**APPROVED AS TO CONTENT**

Department of Public Works

By: \_\_\_\_\_

Matt Machado  
Director

By: \_\_\_\_\_

**APPROVED AS TO FORM**

John P. Doering  
County Counsel

By: \_\_\_\_\_

Thomas E. Boze  
Deputy County Counsel

**Ladd Road/McHenry Avenue Intersection Signalization Project**  
**Stanislaus County, California**

**Revisions to Scope of Work**

May 9, 2008

**PROJECT UNDERSTANDING**

The Wood Rodgers Team commenced work on a cooperative Stanislaus County/Caltrans project including the preparation of a combined Project Study Report/Project Report (PSR/PR) including environmental document, and Plans, Specification and Estimate (PS&E), and property acquisition for improvements to the intersection of Ladd Road with McHenry Avenue in July 2004 (Stanislaus County Project No. 2004-01). However, Caltrans was unable to participate in that cooperative project, so Stanislaus County directed that that effort be suspended. In May 2006 Stanislaus County re-started the effort based on a down-sized project that did not extend into Caltrans right of way. That effort led to development and consideration of a series of alternative project features, which has led to an effort to develop a project that is separate from, but would coordinate with, a future Caltrans project that would signalize both intersections at the ends of the SR-108 diagonal connector road southeast of the Ladd-McHenry intersection. The County's project will widen State Route 108 (McHenry Avenue) on the west side, south of the intersection area, and the future Caltrans project will widen SR-108 on the east side.

The original contract for Project 2004-01 was amended in May 2005 as "Amendment 1", was further amended in September 2006 to revise contract language, and was amended in July 2007 as "Amendment 2" to complete environmental and right of way work and to prepare a separate set of construction documents for modifications to Modesto Irrigation District facilities. That work is nearly complete at this time, and Stanislaus County has directed Wood Rodgers to re-start and complete the separate set of construction documents for construction of the signalized intersection of McHenry Avenue and Ladd Road. As anticipated in Amendment 2, this amendment is required to provide sufficient budget to complete the contract documents for the construction of the intersection improvements and road widenings. Construction of the roadway and signal improvements is currently scheduled for winter of 2008 or spring of 2009.

The following modification to the work plan has been prepared based on our understanding of Stanislaus County's requirements for this project.

## **WORK PLAN**

### **MILESTONE 1 – PROJECT MANAGEMENT & INITIAL ACTIVITIES**

No changes to the current scope of work are required.

### **MILESTONE 2 – PRELIMINARY DESIGN & ENVIRONMENTAL DOCUMENT**

This milestone has been completed.

### **MILESTONE 3 - FINAL DESIGN**

#### **Task 3.1 - Roadway Base Plans**

Upon approval of the preliminary design layout of the project by the County, Wood Rodgers will make any necessary revisions to the geometric base map, profiles, and any superelevation diagrams for the proposed improvements to Ladd Road and McHenry Avenue, and will prepare the improvement plan sheets. These plan sheets will be prepared in accordance with the County's standards and the May 2006 edition of the Caltrans Standard Plans, as appropriate. The layouts will include calculated horizontal alignment at a scale of 1" = 50'; the profiles and superelevation will include calculated vertical alignment at a scale of 1"=100' horizontal and 1"=10' vertical and will conform to design requirements established for the project. Typical cross sections will be prepared for the roadways. Preliminary design cross-sections will be generated at minimum 50-foot intervals. Sections will also be provided at major changes in roadway section, drainage structures and at major changes in horizontal curve, vertical curve and superelevation.

Upon approval of these preliminary plans preparation of roadway drainage, utility relocation, signing and striping, and lighting and traffic signal plans will be initiated. No potable water or sewer plans are anticipated.

#### **Task 3.2- Utility Coordination**

Wood Rodgers will coordinate with utility owners throughout the project development process such that the County is immediately notified if there is any anticipated delay to the project due to utility company reviews or relocations. Prior to completion of the construction plans, specifications, and estimate (PS&E), Wood Rodgers will set up a meeting with the County and local utility agencies/companies to present the proposed project and request utility verification or relocation, as appropriate. Wood Rodgers will provide necessary mapping to utility agencies/companies for utility verification. We can also assist with utility agreements, if necessary.

Wood Rodgers is prepared to pothole the PG&E gas mains in McHenry Avenue and Ladd Road, but Stanislaus County has advised that potholing will not be required, so potholing and surveying is not included in the budget at this time.



Notification letters and plan sets will be provided to utility owners at two additional stages during PS&E development beyond the notification or "A" Plan submittal, as follows:

"B" Plan Submittal to Utility Companies - Wood Rodgers will prepare draft transmittal letters (Utility verification and Notice to Owners) to affected utility owners for County review and approval prior to transmitting "B" Plans to utility owners. Two sets of half-size 95%-complete "B" plans will be provided to each utility owner. The letter will request that utility owners verify any utility conflicts with proposed improvements and indicate whether any future utilities are proposed in the area. A copy of the utility data obtained from utility owners will be provided to the County and the original will be kept in the project files. Information on existing utilities obtained as a result of the "B" plan submittal will be used to determine potential utility conflicts and to resolve the conflicts identified.

"C" Plans Submittal to Utility Companies - Wood Rodgers will prepare draft transmittal letters to affected utility owners for County review and approval prior to transmitting "C" Plans to utility owners. Two sets of half-size 100% plans or "C" plans will provided to each utility owner as an attachment to the transmittal letter. The letter will indicate to the utility owners whether any changes have been made to the project plans since the "B" plans submittal and request written confirmation of utility relocations and utility relocation schedule.

### **Task 3.3 - Permitting Coordination**

Wood Rodgers will prepare the PS&E certification document and assist the County to obtain the Caltrans encroachment permit for the construction of both the irrigation relocation project and the roadway/intersection improvement project.

### **Task 3.4- Roadway Design**

#### **Task 3.4.1 - Roadway Plans**

In close coordination with the County and Caltrans, Wood Rodgers will prepare the Roadway Plans for the project associated with roadway realignments and widening. Approved geometric layouts will provide the base for the roadway plans and will be used to create the 65%, 95% and 100% (Final) submittal packages.

The 65% submittal will include a letter addressing comments from the Geometric approval submittal, revised plans addressing comments as well as all additional sheets for complete detailed design.

The 95% submittal will include a letter addressing comments from the 65% submittal and revised plans as necessary to address comments from the 65% submittal.

Wood Rodgers will use CADD for plan preparation. The following roadway plan sheets are anticipated for the project:

- Title Sheet (1)
- Typical Cross Sections (2)
- Plan and Profile Sheets (6)

* Summary of Quantities	(1)
* Construction Details	(4)
* Drainage Plan, Profile, Details & Quantities	(8)
* Utility Plans	(5)
* Traffic Handling & Detour Plans	(4)
* Pavement Delineation Plans & Quantities	(5)
* Sign Plans , Details & Quantities	(5)
* Electrical: Intersection Lighting and Signal Plans	(3)
* Roadway Cross-sections	(10)

#### **Task 3.4.2 - Specifications**

Wood Rodgers will prepare the "Construction Details" portion of the project special provisions for the project based on Stanislaus County's Standard Specifications. Specifications will be modified as appropriate to the specific requirements of Caltrans for the portion of the project within State right of way. Lane closure requirements will also be specified.

#### **Task 3.4.3 - Engineers Estimate**

Wood Rodgers will prepare a construction cost estimate based upon approved plans and special provisions. The Engineer's Estimate will be prepared in the Caltrans "BEES" format.

#### **Task 3.4.4 – Draft PS&E Submittal**

Wood Rodgers will prepare and furnish the draft PS&E for the proposed project to the County and Caltrans for review and comment, as noted earlier in this section. A safety review meeting will be held with County/Caltrans during the Draft PS&E comment and review period, if requested by Caltrans.

#### **Task 3.5 - Storm Drainage Design**

Wood Rodgers' hydrology staff will prepare a preliminary drainage report summarizing the changes in drainage patterns and recommendations for drainage facility improvements. Based on these recommendations, topographic mapping and cross section data, Wood Rodgers will develop drainage plans to be incorporated into the PS&E package and reviewed at 65% and 95% submittals. An analysis of the project drainage will be prepared in accordance with Caltrans requirements, including site-specific rainfall intensity-duration-frequency data; design criteria and assumptions; contributing shed areas; design discharges based on the Rational Method; pipe sizes, slopes and materials; and hydraulic grade lines based on Manning's Equation. We assume that this analysis is to include only the area of the project, and that storm drains will be designed to utilize infiltration within the project area in the short term, and to flow northward in McHenry Avenue to the Stanislaus River in the long term.

### **Task 3.6 - Signal and Lighting Design**

Wood Rodgers will prepare electrical PS&E for the proposed traffic Signal, and intersection lighting. The signal and lighting PS&E will be incorporated into the roadway plans for 65% and 95% submittals.

Wood Rodgers will use the results of the traffic study as the basis for selection of lane/phase configurations. This will include recommendations for design, hardware, and system components to support the operational strategy. Wood Rodgers will incorporate traffic signal and lighting into the PS&E for project construction, with full coordination of pavement delineation and signing plans.

### **Task 3.7: Transportation Management Plan**

Wood Rodgers will prepare a Transportation Management Plan (TMP) for the construction of the proposed improvements for Caltrans and County review and approval. The TMP will be in accordance with Caltrans guidelines, and will show the staged construction of the intersection, traffic handling at each stage, detour plans, permissible lane closures, and analysis of traffic operations. Review comments will be incorporated in successive submittals to achieve approval of the TMP.

### **Task 3.8 - Constructibility Review**

As directed by County staff, additional budget to complete this item will be the subject of a future change order.

### **Task 3.9 - Final PS&E ("C" Plans)**

Upon completion of the 95% submittal package, Wood Rodgers will schedule a review session, if required, with the County and Caltrans to discuss review comments and resolve any conflicting comments. Prior to final design submittal, Wood Rodgers will perform an internal quality and constructability review of the entire PS&E package. Corrections to the PS&E documents are made as per the review comments. Additional documents that are prepared at this stage are the working day schedule, and the "Resident Engineer (RE) pending" file.

Upon approval of the final PS&E, Wood Rodgers will furnish the County approved Plans, Specifications and Estimates to be used for project advertising. Plan submittal to Caltrans and the County will include velum plots and electronic CADD drawing files. Specifications submittal will include a "camera ready" copy and electronic files in MS Word for Windows format. A hard copy and electronic files used to generate the Engineer's Estimate will also be furnished to the County and Caltrans.

### **Task 3.10 - Right of Way Documentation**

This milestone has been completed.

## **MILESTONE 4 – IRRIGATION FACILITY MODIFICATION/RELOCATION DESIGN**

This milestone has been completed.

## **MILESTONE 5 – POST-DESIGN CONSULTATION**

*Limited budget for the following tasks has been included, under the assumption that only limited consultation will be required during bidding and construction. If more extensive consultation is required, the budget will require supplementation.*

### **Task 5.1 – Bidding Support**

Wood Rodgers will attend pre-bid meeting(s), if required, and assist the County in answering questions from Contractors during the bidding process as well as assisting the County with bid evaluation as required.

### **Task 5.2 – Design Support during Construction**

Wood Rodgers will be available to provide on-going consultation and interpretation of construction documents during the construction of the proposed project. Typical construction support services would include:

- Attend pre-construction meeting.
- Review and approve Contractor submittals and shop drawings as requested by the County.
- Provide on-going consultation and interpretation of contract documents.
- Consult with and assist Stanislaus County engineering and construction management staff regarding Contractor proposals, construction issues, and plan revisions.
- Prepare plan and/or specification modifications for contract change orders.
- Assist Stanislaus County in review of contractor's SWPPP (Storm Water Pollution Prevention Plan) to insure NPDES compliance.

At the completion of construction, Wood Rodgers can draft any changes to the project plans to create the "As-built" record drawings, based on red-marked plans prepared by the Resident Engineer.