

TO: TOWN COUNCIL

FROM: TOWN MANAGER

RE: CONSENT ITEM

APPROVE TLA TO PREPARE A PRELIMINARY DESIGN AND COST  
ON SIERRA COLLEGE BLVD FROM TAYLOR RD TO BANKHEAD

### **ISSUE**

TLA, the Town traffic consultant on the downtown study, has prepared road improvement concepts and costs for Taylor Rd on either side of Sierra College Blvd and staff proposes to go a step further and have the consultant prepare the same type of study for Sierra College Blvd from Taylor to Bankhead so the Town can better evaluate and develop mitigations for developments in the Town as well as those developments outside of, but affecting the Town.

### **RECOMMENDATION**

Approve TLA DKS to do a fair share cost study on selected roadways at a cost of \$9,900.

### **CEQA**

There are no CEQA issues associated with doing a fiscal study.

### **MONEY**

Funding for the cost will come from current Sierra College development fees (\$747,000 as of 12/31/09) and the study is proposed to be added to the development fee schedule as something that will need to be updated in the future to respond to changing needs.

### **DISCUSSION**

TLA, the Town Traffic consultant on the downtown plan, has prepared concept drawings and costs on improvements needed on Taylor Rd on either side of Sierra College Blvd due to traffic impacts caused by development within and outside of Loomis (see attached drawings and costs).

A sticking point in discussions with neighboring jurisdictions and funding agencies has been the need to consider Sierra College Blvd improvements in the section from Taylor Rd to Bankhead. The reason that this section is important is because Sierra College Blvd from I-80 to Taylor is rapidly moving toward a 6 lane major road, as planned, however at the railroad tracks the road is expected to transition to 2 lanes. The Town has identified this as a problem and has suggested to PCTPA, SPRTA, Rocklin and Placer County that the transition should occur over the tracks and in the section approaching the Bankhead intersection. Staff believes this work should be done sooner rather than later as is currently proposed in the SPRTA analysis on Sierra College Blvd improvements.

## **INTRODUCTION**

TLA Engineering & Planning, Inc. (TLA) submits this proposal to the Town of Loomis (Town) to provide civil engineering services for analyzing Sierra College Blvd. from Taylor Road to Bankhead Road (Project).

In May of 2009, TLA analyzed Taylor Road from the City of Rocklin limit to approximately 500-feet east of Sierra College Blvd. TLA presented the results of the Taylor Road analysis in a report which included a written summary, existing site condition photos, opinion of probable construction cost tables, and plan view exhibits showing the proposed improvements on an aerial photograph.

The Town is requesting TLA to provide a similar analysis for Sierra College Blvd. from Taylor Road north to Bankhead Road.

## **SCOPE OF SERVICE**

### **TASK 1 SIERRA COLLEGE BLVD. ANALYSIS REPORT**

TLA will analyze the widening of Sierra College Blvd, from Taylor Road to Bankhead Road. The widening will include four traffic lanes with a center two-way left turn lane and bicycle lanes. The outside north bound traffic lane will serve as a merging lane and a right-hand turn lane for the Loomis Basin Veterinarian Clinic and Bankhead Road.

TLA will visit the Project site to evaluate the existing conditions and document them with photographs. TLA will prepare an exhibit showing the proposed Sierra College Blvd. widening improvements overlaid on an aerial photograph. TLA will prepare an opinion of probable construction cost for the proposed improvements.

TLA will compile the analysis results into a report with a written summary, existing site condition photos, opinion of probable construction cost tables, and plan view exhibit.

TLA will meet with Town staff to present the report and deliver hard copies for review and comment. TLA will address the Town staff's comments and issue a final report.

#### **Task 1: Deliverables**

- Draft Sierra College Blvd. Widening Analysis Report – 2 copies
- Meet with Town staff to present Report
- Final Sierra College Blvd. Widening Analysis Report – 2 copies

#### **Town Provided Items**

- Review and comment on Draft Report

## **TASK 2 RIGHT-OF-WAY RESEARCH (optional)**

As an optional Task, TLA will research Placer County's records for Sierra College Blvd.'s existing right-of-way width(s) between Taylor Road and Bankhead Road. TLA will draft the right-of-way in AutoCAD and include it in the Task 1 exhibits.

### **Task 2: Deliverables**

- Placer County record documents for Sierra College Blvd.'s right-of-way
- Draft right-of-way in AutoCAD and incorporate into Task 1 exhibits

### **Town Provided Items**

- Authorize optional Task 2

## **SCHEDULE**

TLA will complete the scope of services described above within the following durations.

<u>Task</u>	<u>Description</u>	<u>Duration</u>
Task 1	Sierra College Blvd. Analysis Report	2 weeks
Task 2	Right-of-way Research (optional)	1 week

## **COMPENSATION**

The Town shall pay TLA for scope of service Tasks 1 and 2 on a fixed fee basis in the amount listed in the summary below.

TLA will invoice the Client at the end of each month for the amount of service TLA provided the previous month. Client will pay the Consultant within thirty (30) days of the date of the invoice.

## **BUDGET SUMMARY**

<u>Task</u>	<u>Description</u>	<u>Budget</u>	<u>Terms</u>
Task 1	Sierra College Blvd. Analysis Report	\$7,200	Fixed Fee
Task 2	Right-of-way Research (optional)	\$1,700	Fixed Fee

## **STANDARD OF CARE**

TLA will provide the engineering service in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

**TABLE 1: TAYLOR ROAD - SEGMENT ONE**  
**LOOMIS ENTRY IMPROVEMENTS EAST OF SIERRA COLLEGE BLVD.**  
**PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS**  
 LOOMIS, PLACER COUNTY, CALIFORNIA

May 14, 2009

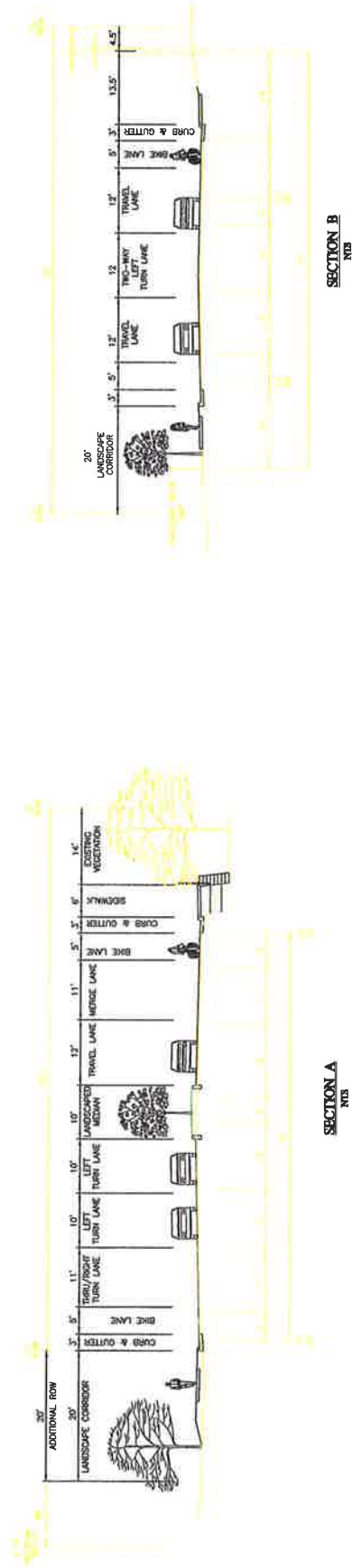
Item	Description	Quantity	Unit	Unit Cost	Total
<b>A) GRADING &amp; PAVING</b>					
1	Sawcut and pavement removal	7,300	SF	\$1.25	\$9,125
2	Asphalt pavement widening	900	SF	\$6.00	\$5,400
3	Vertical curb and gutter (north)	600	LF	\$25.00	\$15,000
4	Vertical curb and gutter (south)	600	LF	\$25.00	\$15,000
5	Sidewalk - asphalt (north)	3,600	SF	\$3.00	\$10,800
6	Sidewalk - asphalt (south)	3,700	SF	\$3.00	\$11,100
7	Sidewalk - concrete (north)	300	SF	\$5.00	\$1,500
8	Sidewalk - concrete (south)	350	SF	\$5.00	\$1,750
9	Handicap ramp with detectable warning tiles (north)	2	EA	\$500.00	\$1,000
10	Handicap ramp with detectable warning tiles (south)	2	EA	\$500.00	\$1,000
11	Commercial driveway entrance	2	EA	\$10,000.00	\$20,000
12	Median curb	1,000	LF	\$20.00	\$20,000
13	Retaining wall with handrail (4')	1,300	SF	\$30.00	\$39,000
<b>SUBTOTAL</b>					<b>\$150,675</b>
<b>B) STORM DRAIN SYSTEM</b>					
1	Extend existing culvert	30	LF	\$150.00	\$4,500
2	Storm drain inlet	5	EA	\$2,500.00	\$12,500
3	48" Storm drain manhole	3	EA	\$4,000.00	\$12,000
4	Storm drain outfall structure and rip rap	2	EA	\$10,000.00	\$20,000
5	24" Storm drain trunk line	675	LF	\$100.00	\$67,500
<b>SUBTOTAL</b>					<b>\$116,500</b>
<b>C) LANDSCAPING</b>					
1	Median landscaping	5,200	SF	\$6.00	\$31,200
2	Shoulder landscaping (north)	9,200	SF	\$6.00	\$55,200
3	Shoulder landscaping (south)	3,300	SF	\$6.00	\$19,800
4	Irrigation point of connection	1	EA	\$5,000.00	\$5,000
5	PCWA connection fee (1" Meter)	1	LS	\$38,810.00	\$38,810
6	Irrigation sleeves	180	LF	\$25.00	\$4,500
7	Remove and Replace Fencing along railroad (spur yard)	120	LF	\$25.00	\$3,000
<b>SUBTOTAL</b>					<b>\$157,510</b>
<b>D) SIGNING AND STRIPING</b>					
1	Grind existing striping	1	LS	\$3,000.00	\$3,000
2	Slurry seal existing asphalt	40,000	SF	\$0.25	\$10,000
3	Traffic striping	1	LS	\$10,000.00	\$10,000
4	Type "Q" Object Markers (Caltrans Std. A73A)	27	EA	\$50.00	\$1,350
5	Road signs	1	LS	\$2,000.00	\$2,000
6	Town of Loomis entry monument	1	LS	\$18,000.00	\$18,000
7	Loomis business directional sign	1	LS	\$3,000.00	\$3,000
8	Relocate Loomis service clubs sign	1	LS	\$1,000.00	\$1,000
<b>SUBTOTAL</b>					<b>\$48,350</b>
<b>E) MISCELLANEOUS</b>					
1	Traffic signal modification for double left turn lanes	1	LS	\$50,000.00	\$50,000
2	Right-of-way acquisition from railroad	7,700	SF	\$6.00	\$46,200
3	Traffic control for construction	1	LS	\$15,000.00	\$15,000
<b>SUBTOTAL</b>					<b>\$111,200</b>
<b>PROJECT TOTAL</b>					<b>\$584,235</b>
				<b>CONTINGENCY 20%</b>	<b>\$116,847</b>
				<b>ENGINEERING DESIGN &amp; SURVEYING 15%</b>	<b>\$87,635</b>
<b>PROJECT GRAND TOTAL</b>					<b>\$788,717</b>

Note: The quantities and unit prices given in this Opinion of Probable Construction Costs are approximate only. TLA Engineering & Planning does not expressly or by implication, agree that the actual amount of work will correspond therewith.

The quantities provided are based on Figure 1 - "Taylor Road: Town of Loomis Entrance Exhibit", prepared by TLA, dated April, 2009, submitted to the Town of Loomis for review.

# FIGURE 1 - TAYLOR ROAD: ENTRY IMPROVEMENTS EAST OF SIERRA COLLEGE BLVD.

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**TABLE 2: TAYLOR ROAD - SEGMENT ONE  
TOWN LIMIT TO SIERRA COLLEGE BLVD.  
PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS  
LOOMIS, PLACER COUNTY, CALIFORNIA**

May 14, 2009

Item	Description	Quantity	Unit	Unit Cost	Total
<b>A) GRADING &amp; PAVING</b>					
1	Sawcut and pavement removal	6,900	SF	\$1.25	\$8,625
2	Asphalt pavement widening	56,000	SF	\$6.00	\$336,000
3	Vertical curb and gutter	2,600	LF	\$25.00	\$65,000
4	Sidewalk (concrete)	18,000	SF	\$5.00	\$90,000
5	Handicap ramp with detectable warning tiles	15	EA	\$500.00	\$7,500
6	Depressed curb and gutter (Commercial driveway)	460	LF	\$25.00	\$11,500
7	Commercial driveway entrance (Type A-6)	3	EA	\$10,000.00	\$30,000
8	Median curb	1,500	LF	\$20.00	\$30,000
9	Retaining wall with handrail (4')	1,800	SF	\$30.00	\$54,000
<b>SUBTOTAL</b>					<b>\$632,625</b>
<b>B) STORM DRAIN SYSTEM</b>					
1	Storm drain inlet	11	EA	\$2,500.00	\$27,500
2	48" Storm drain manhole	5	EA	\$4,000.00	\$20,000
3	12" PIPE	630	LF	\$22.00	\$13,860
4	15" PIPE	230	LF	\$38.00	\$8,740
5	18" PIPE	90	LF	\$40.00	\$3,600
6	Drainage Swale	300	LF	\$7.00	\$2,100
7	Remove existing cross culverts	3	EA	\$1,000.00	\$3,000
8	Storm drain outfall structure and rip rap	3	EA	\$10,000.00	\$30,000
<b>SUBTOTAL</b>					<b>\$108,800</b>
<b>C) LANDSCAPING</b>					
1	Median landscaping	4,400	SF	\$6.00	\$26,400
2	Shoulder landscaping	5,000	SF	\$6.00	\$30,000
3	Irrigation point of connection	1	EA	\$5,000.00	\$5,000
4	PCWA connection fee (1" Meter)	1	LS	\$38,810.00	\$38,810
5	Irrigation sleeves	320	LF	\$25.00	\$8,000
<b>SUBTOTAL</b>					<b>\$108,210</b>
<b>D) SIGNING AND STRIPING</b>					
1	Grind existing striping	1	LS	\$4,000.00	\$4,000
2	Slurry seal existing asphalt	69,000	SF	\$0.25	\$17,250
3	Traffic striping	1	LS	\$25,000.00	\$25,000
4	Road signs	1	LS	\$5,000.00	\$5,000
<b>SUBTOTAL</b>					<b>\$51,250</b>
<b>E) MISCELLANEOUS</b>					
1	Right-of-way acquisition	1,600	SF	\$10.00	\$16,000
2	Traffic control for construction	1	LS	\$25,000.00	\$25,000
3	Relocate Overhead Power Lines	1	LS	\$50,000.00	\$50,000
4	Relocate Pressure Reducing Station Water Facilities*	1	LS	\$50,000.00	\$50,000
5	Traffic signal modification	1	LS	\$30,000.00	\$30,000
6	Remove existing trees	1	LS	\$10,000.00	\$10,000
<b>SUBTOTAL</b>					<b>\$181,000</b>
<b>PROJECT TOTAL</b>					<b>\$1,081,885</b>
<b>CONTINGENCY</b>				<b>20%</b>	<b>\$216,377</b>
<b>ENGINEERING DESIGN &amp; SURVEYING</b>				<b>15%</b>	<b>\$162,283</b>
<b>PROJECT GRAND TOTAL</b>					<b>\$1,460,545</b>

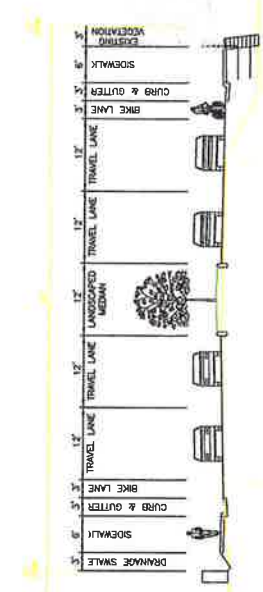
Note: The quantities and unit prices given in this Opinion of Probable Construction Costs are approximate only. TLA Engineering & Planning does not expressly or by implication, agree that the actual amount of work will correspond therewith.

The quantities provided are based on Figure 2 - "Taylor Rd: Town Limit to Sierra College Blvd.", prepared by TLA, dated April, 2009, submitted to the Town of Loomis for review.

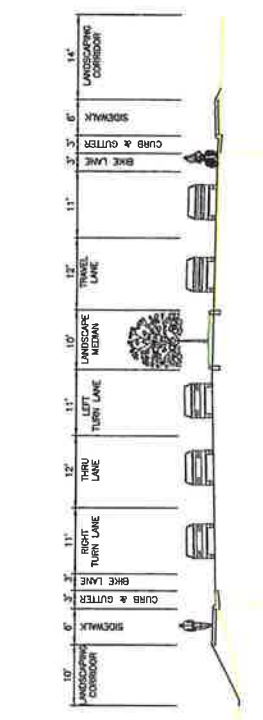
\* Cost for relocating the existing PCWA pressure reducing station is highly variable depending on the whether the grate can be retrofitted to withstand traffic loading or if the entire facility needs to be reconstructed. Another factor is whether PCWA has an easement and if it would be their cost obligation to relocate because it is within the Taylor Road right-of-way.

# FIGURE 2 - TAYLOR ROAD: TOWN LIMIT TO SIERRA COLLEGE BLVD.

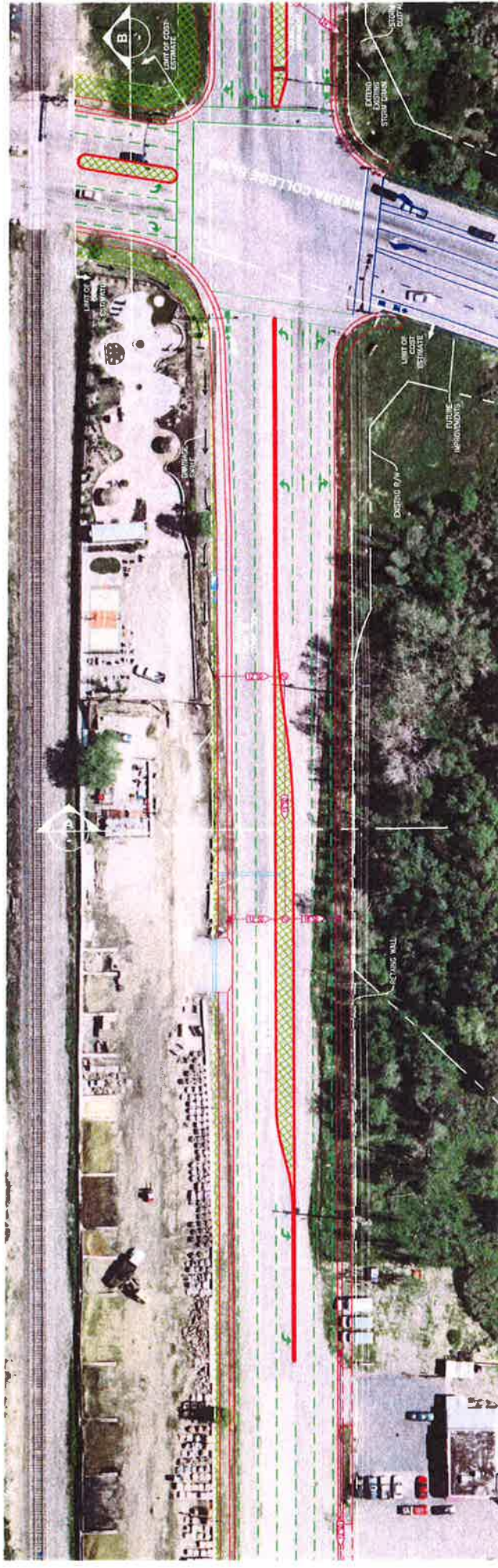
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TAYLOR ROAD  
**SECTION A**  
NB

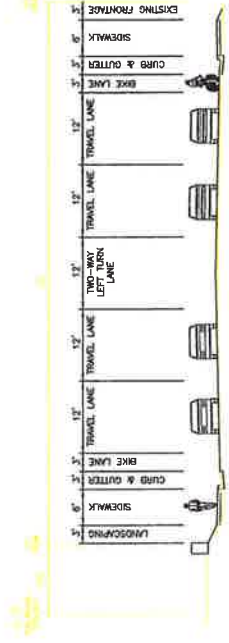


SIERRA COLLEGE BLVD.  
**SECTION B**  
NB



**FIGURE 2 - TAYLOR ROAD:  
TOWN LIMIT TO SIERRA COLLEGE BLVD.**

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**SECTION C**  
NBS





Another reason to have an improvement concept drawing and cost is to better resolve impacts and costs associated with developments in and outside of Loomis. TLA did the attached drawings and cost estimates for improvements on Taylor Road either side of Sierra College Blvd, in response to various Rocklin developments that were proposing traffic mitigations of just painting traffic lines on Loomis streets. Having drawings and costs on Sierra College Blvd from Taylor to Bankhead will be helpful in not only discussing development impacts with other jurisdictions but in the event that discussions end up in court, the Town will have cost and design information to better make its case. The study is expected to take about 3 weeks to complete.