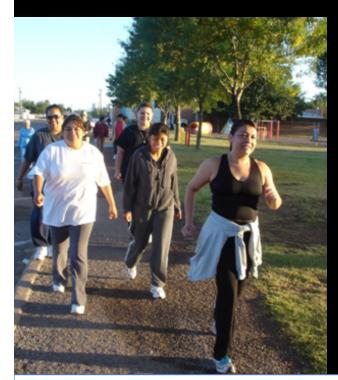
Covelo/Round Valley

Non-Motorized Needs Assessment and Engineered Feasibility Study

Presentation of Final Draft to MCOG Board







Lead Agencies:





Consultant Team:









Civil Engineers · Land Surveyors

Today's Objectives

Review deliverables and the process for their development

Present draft designs

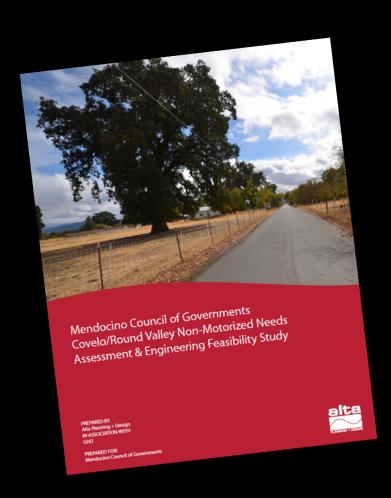
Discuss next steps and implementation considerations



 Non-motorized Needs Assessment and Engineering Feasibility Study

Supporting Technical Studies

Final Draft Non-Motorized Needs Assessment & Engineering Feasibility Study



Chapter 1: Introduction (Programming and Funding)

 Project programmed through MCOG FY11/12, FY 12/13 & 13/14 OWPs

- Project funded by two Caltrans transportation planning grants
 - \$135,000 Environmental Justice grant, plus \$15,000 in local matching funds (\$9,862 Local Transportation Funds + \$5,138 Planning, Programming & Monitoring funds
 - \$150,000 State Planning & Research grant

Chapter 1: Introduction (Project Goals)

 Improve bike/ped access to schools, public facilities, and other community centers of activity

 Improve bike/ped safety through most heavily traveled non-motorized corridors

Develop feasible improvements based on real-world data

Identify and incorporate community priorities

Chapter 1: Introduction (Planning Process)

- TAG: Guide data collection and review technical documents
- RVIT Council and Staff: Coordination and collaboration
- Public Workshops: February and September 2013



Appendix A: Summary of Public Outreach



DRAFT

Covelo/Round Valley Non Motorized Needs Assessment & Engineering Feasibility Study

October 7, 2013





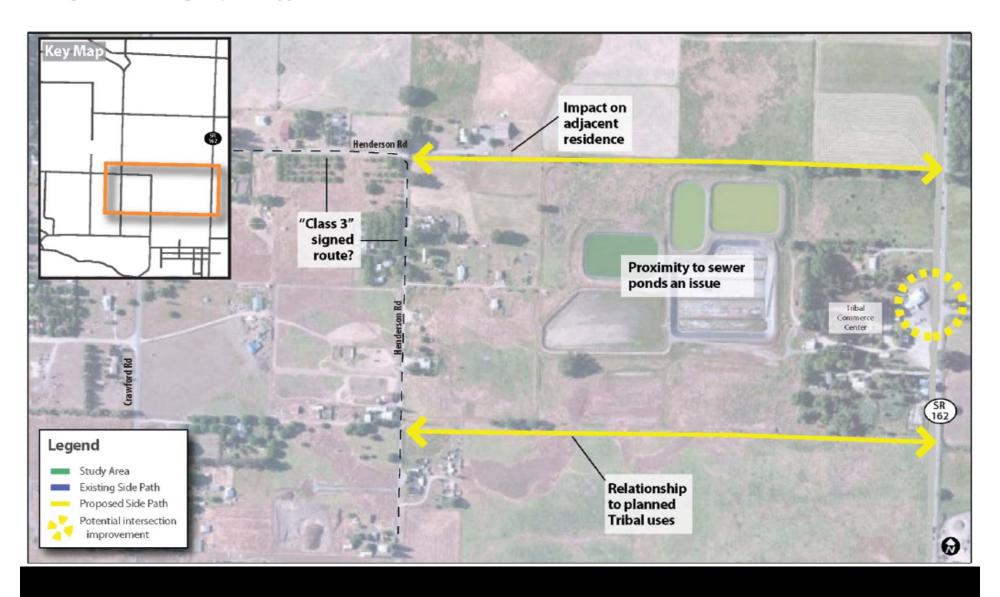
Chapter 2: Coordination with Other Plans

- Making Safe & Healthy Community Connections in Round Valley (2010)
- Safe Routes to School Project
- Project Study Report (PSR) (2012)
- Mendocino County General Plan (2009)
- Regional Transportation Plan (2010)
- Mendocino County Regional Bikeway Plan (2012)

Chapter 3: Existing Conditions, Opportunities, and Constraints

- 1. Right-of-Way and Property Ownership
- 2. Biological Resources
- 3. Cultural Resources
- 4. Existing Bike/Ped Facilities
- 5. Other Existing Conditions

Figure 3-11: Off-Highway Trail Opportunities and Constraints between Henderson Road and SR 16



Appendix E: Survey and ROW Research



FINAL DRAFT

Covelo/Round Valley Non-Motorized Needs Assessment & Engineering Feasibility Study

October 22, 2013



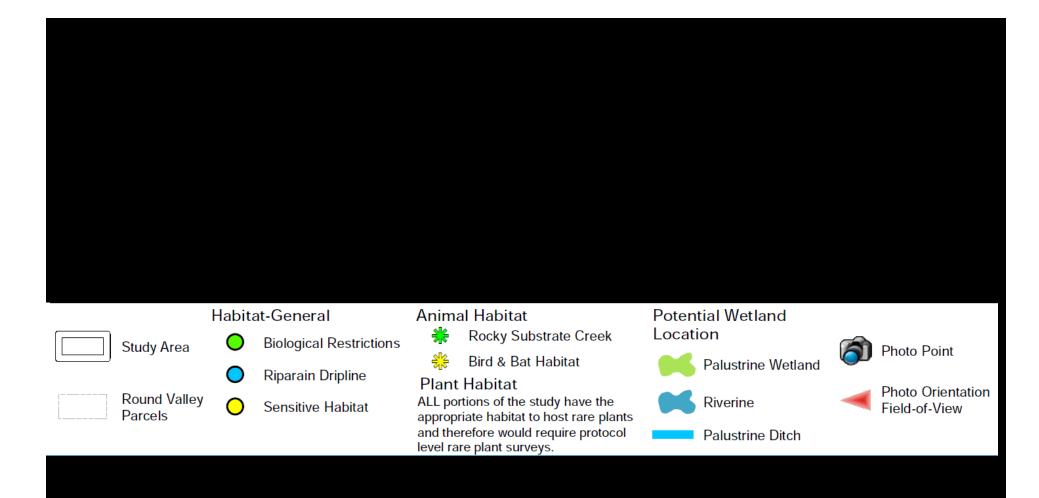


Supporting Document 1: Biological Resources

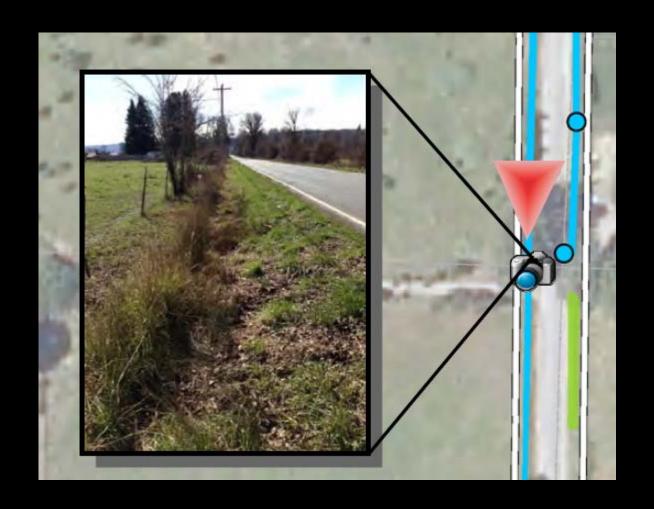




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© 2012. White very care has been belien to prepare the map. CHI DMCC0Land Cultons reaks no presentations or warrantees about its accuracy, milestiffs, completeness or suitability for any particular purpose and cerent accept labelity and responsibility of any land (relative in contract, toor or otherwise) for any generations, bosse, desirable and responsibility of any land (relative in contract, toor or otherwise) for any generations, bosse, desirable and recognition or considered in any way and for any maximum or may be incurred by any party as a result of the map being inaccurate, because contract to or contra







Supporting Documents 2 & 3: Cultural Resources



Chapter 4: Design Standards and Guidelines

Design Toolkit – Bikeway/Trail Types









Design Toolkit – Crossing Treatments









Design Toolkit – Pedestrian Facilities









Design Toolkit – Fixtures and Amenities





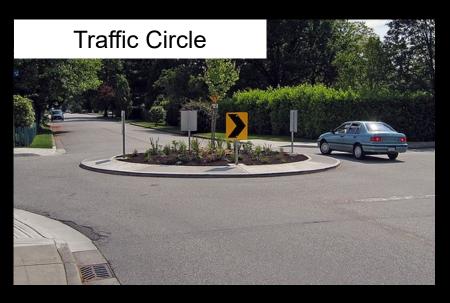






Design Toolkit - Traffic Control/Calming









High-Intesity Activated Crosswalk (HAWK)

Chapter 5: Improvement Concepts

Appendix B: Trail Implementation Challenges and Solutions



Appendix C: Improvement Cost Estimates

Appendix C: Improvements Cost Estimates DRAFT

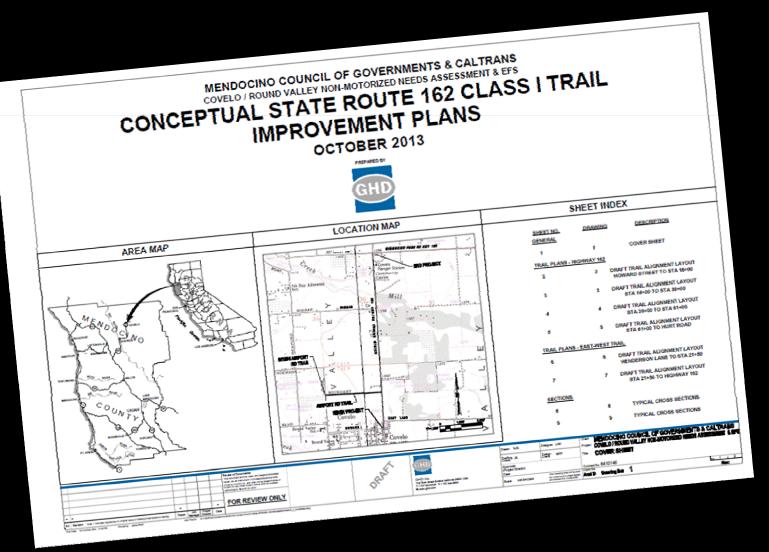
Covelo/Round Valley Non Motorized Needs Assessment & Engineering Feasibility Study

October 22, 2013

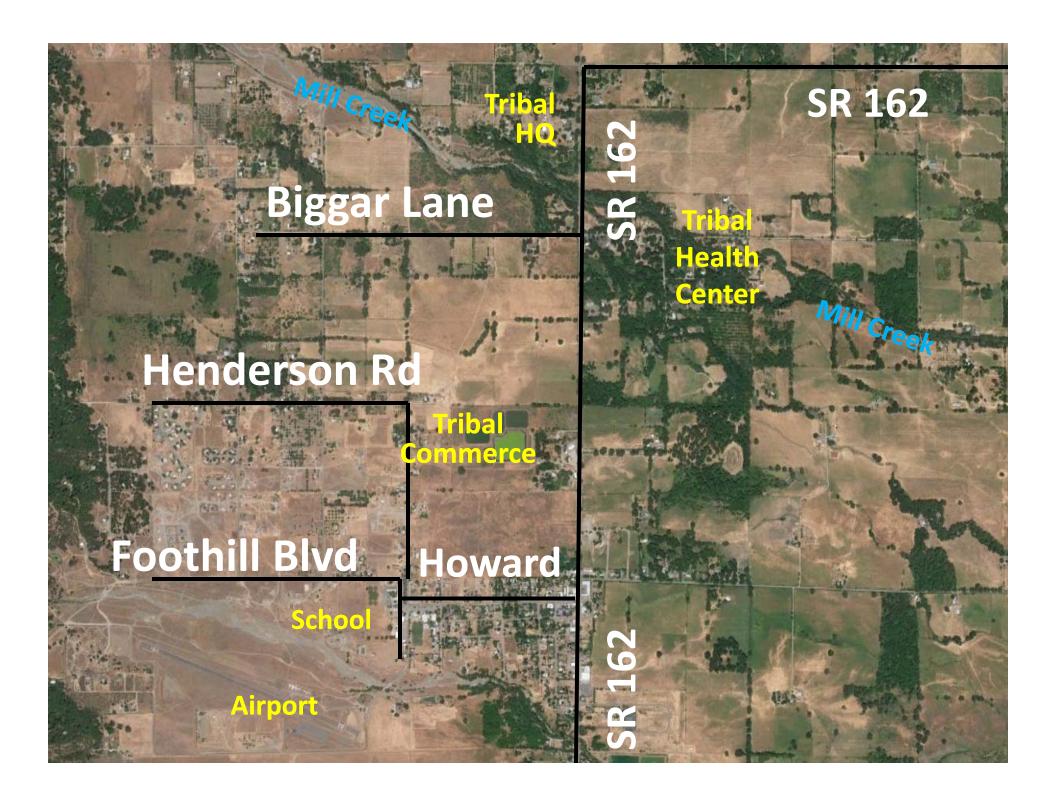


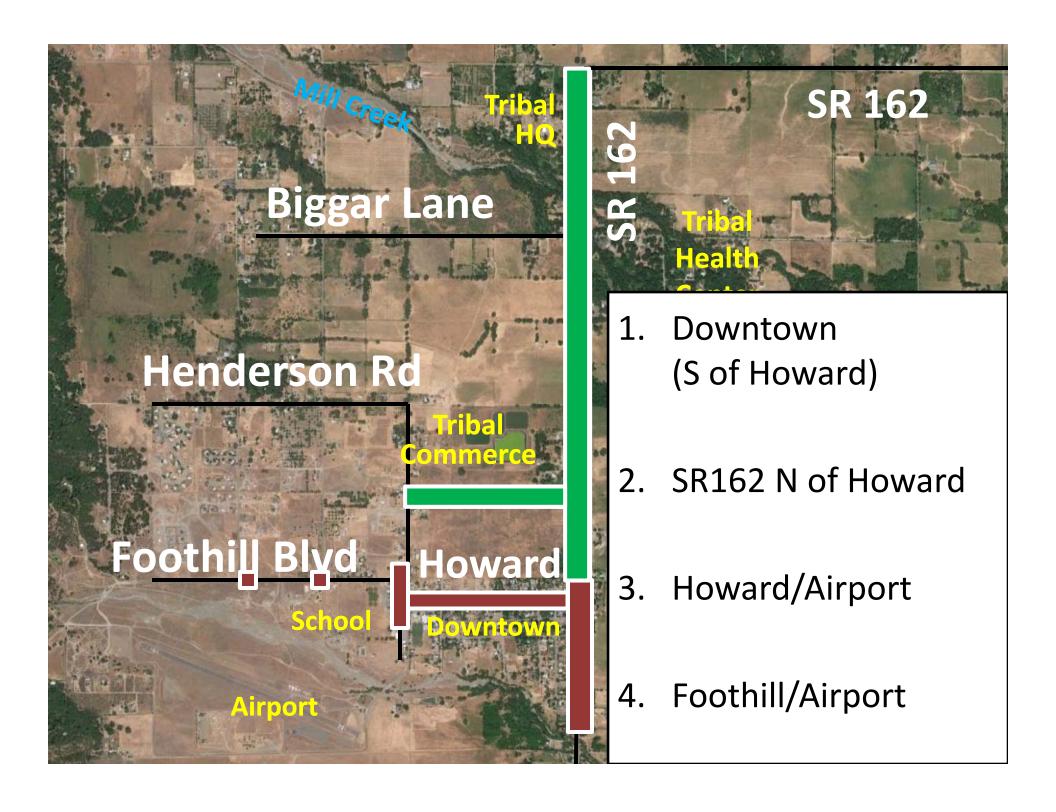


Appendix D: 15% Design for SR 162 Trail



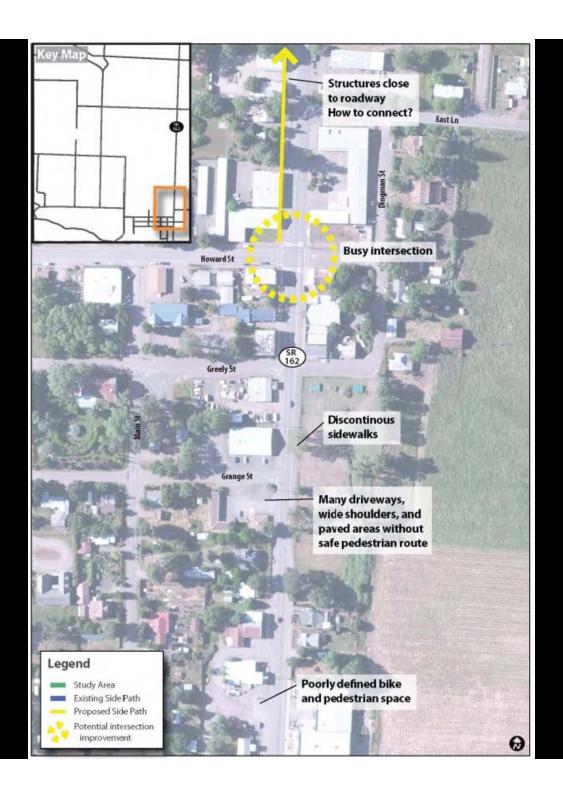




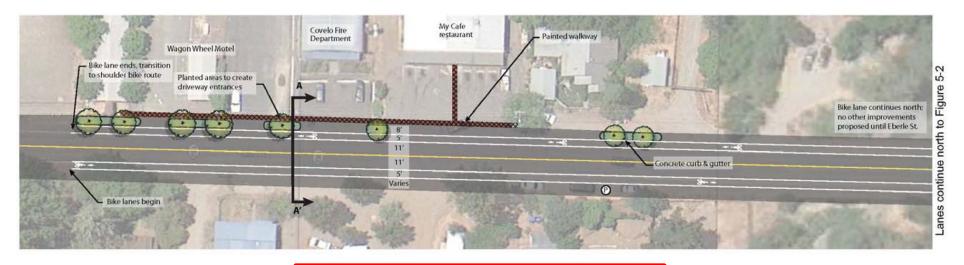


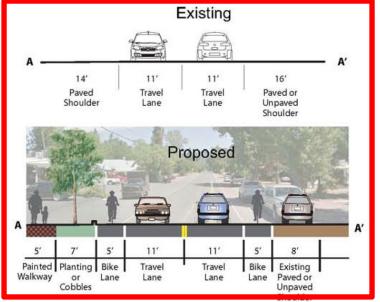
Downtown (SR 162 South of Howard)











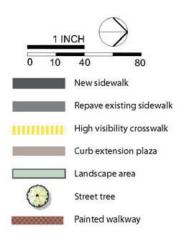
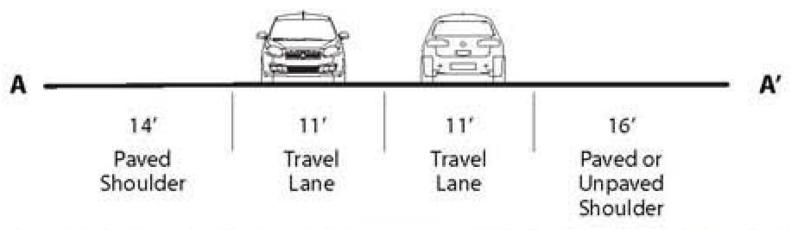
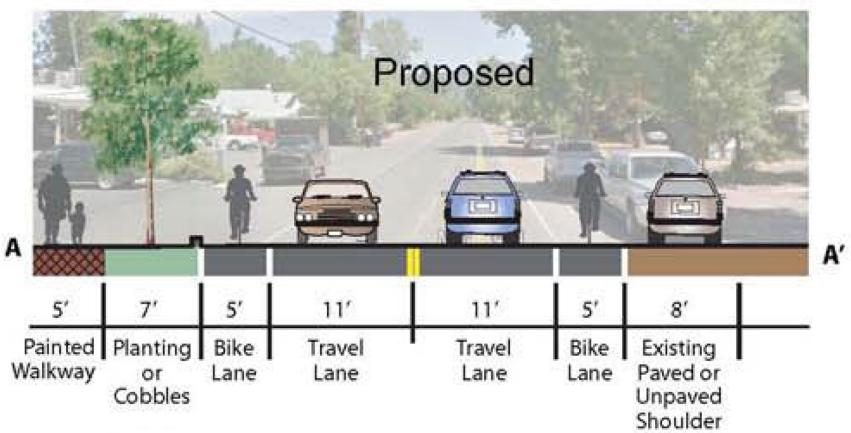


Figure 5-4: Southern State Road 162 Commercial Area

Covelo/Round Valley Non-motorized Transportation Plan

Existing







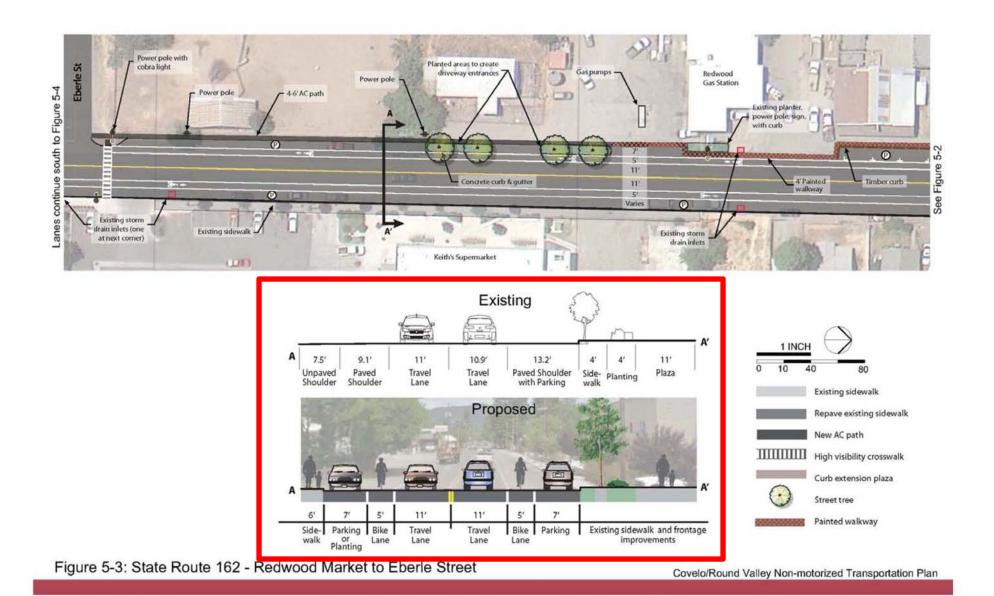
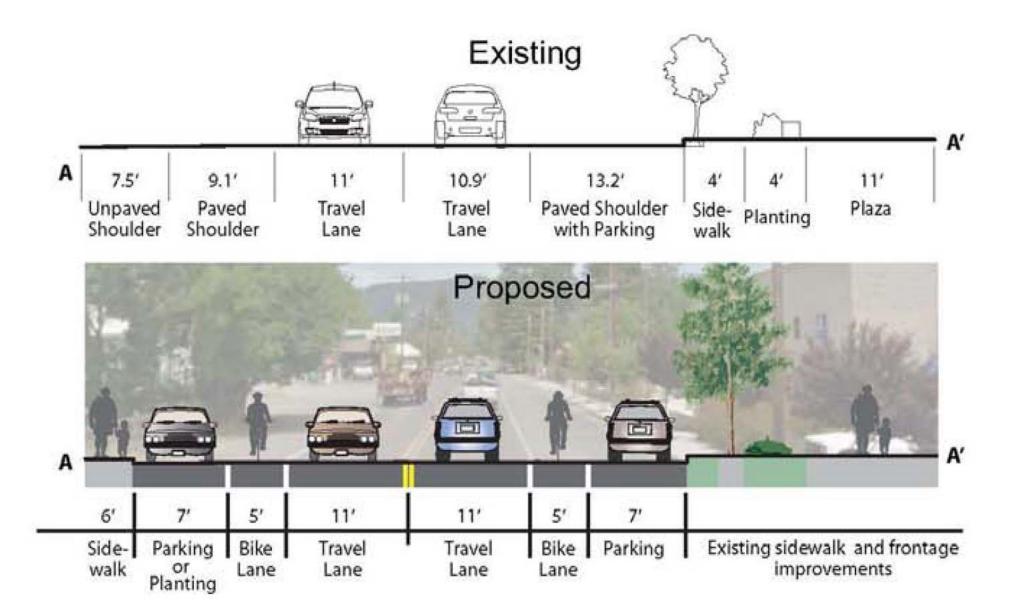
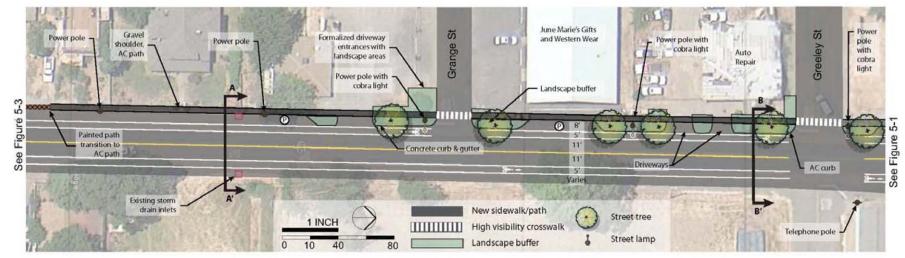
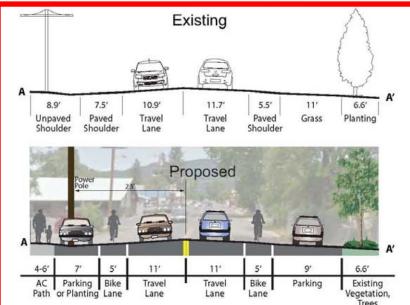


Figure 5-3: SR 162 - Keith's Supermarket









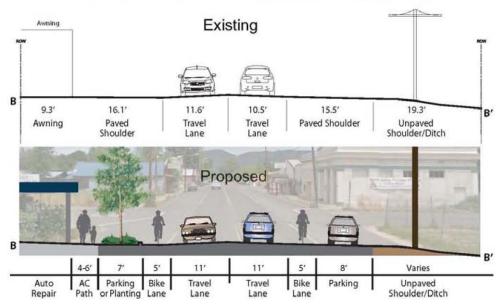
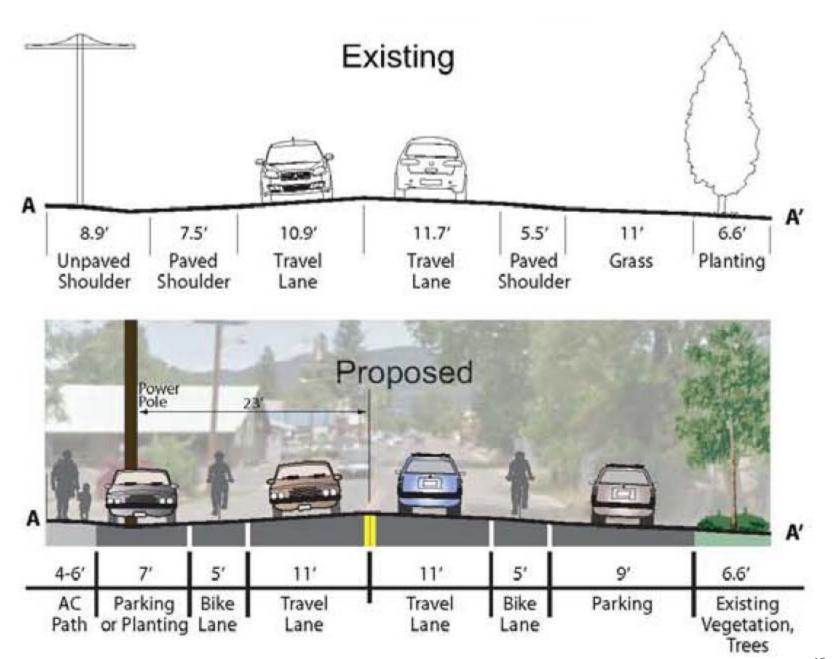
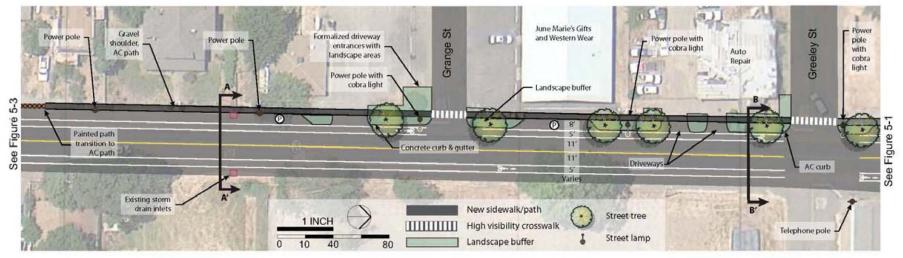
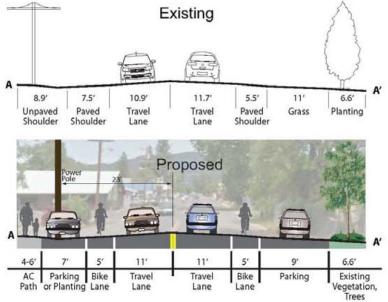


Figure 5-2: State Route 162 - Greeley and Grange Streets

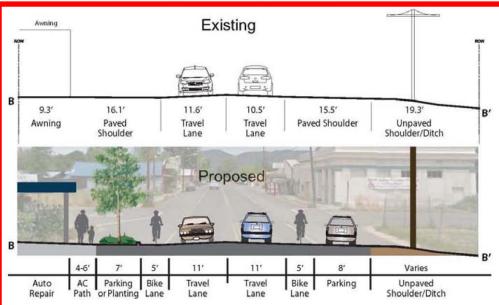
Covelo/Round Valley Non-motorized Transportation Plan



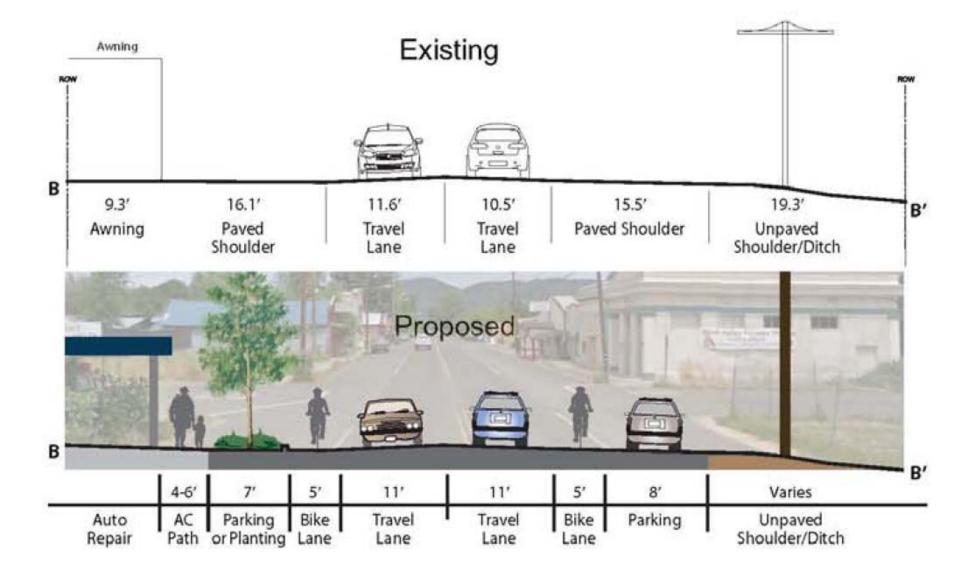




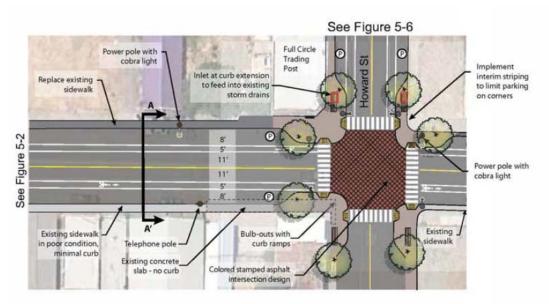


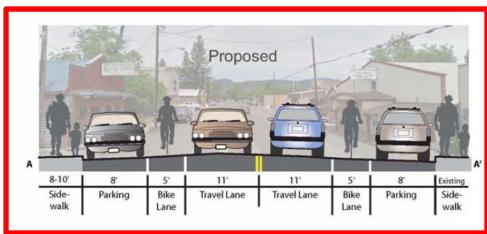


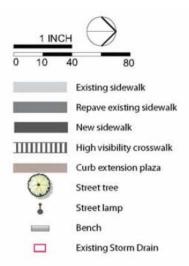
Covelo/Round Valley Non-motorized Transportation Plan

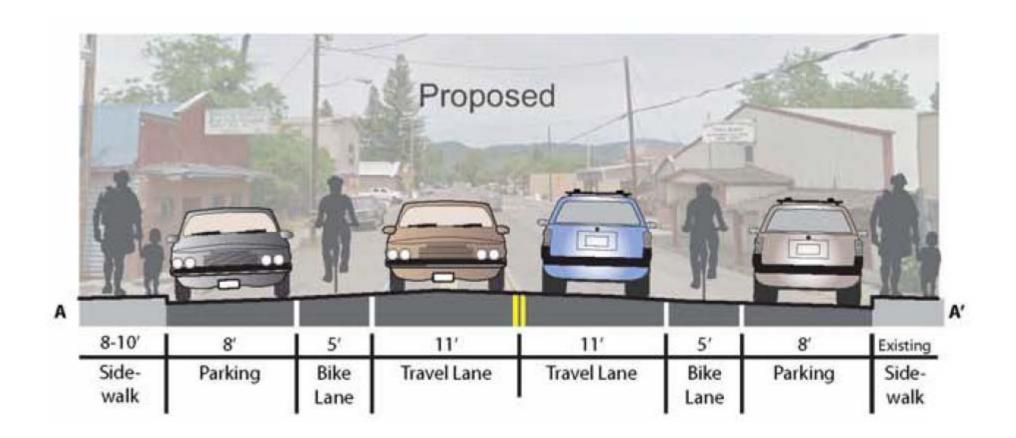












SR 162 North of Howard













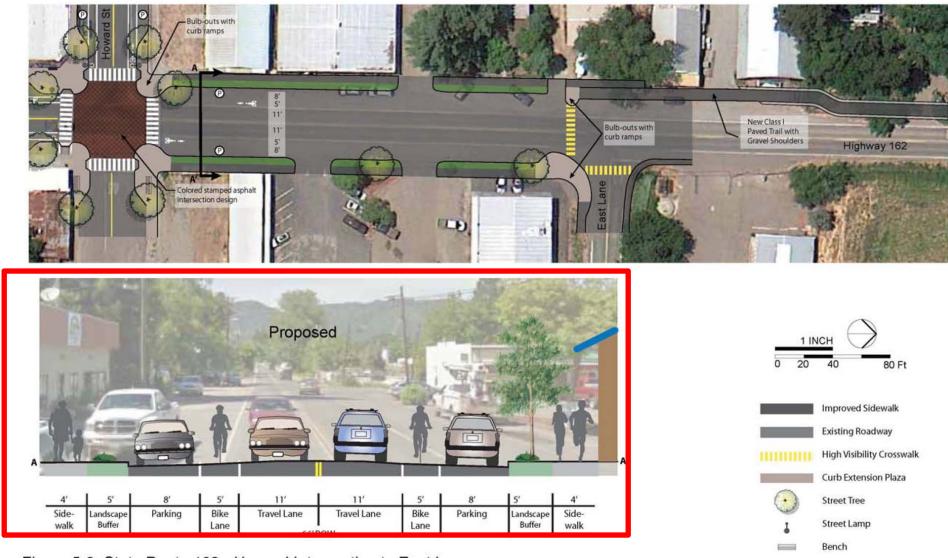
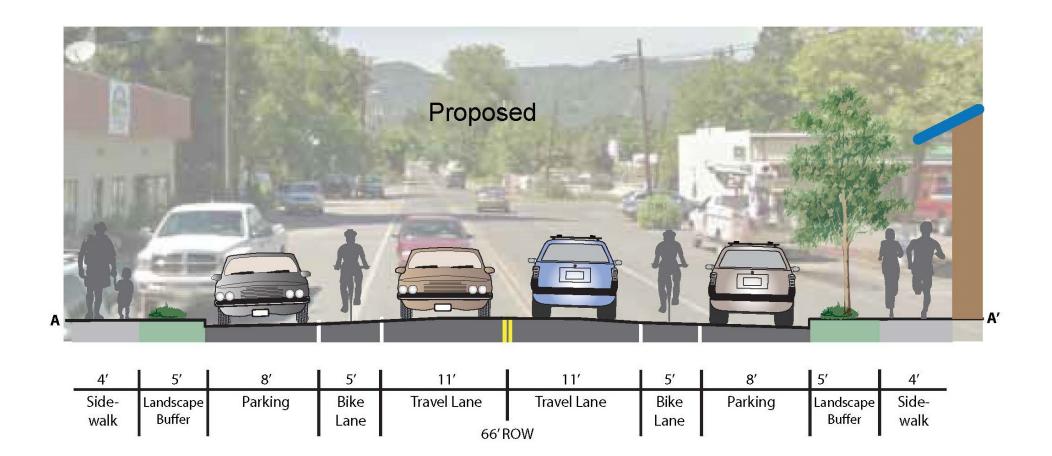
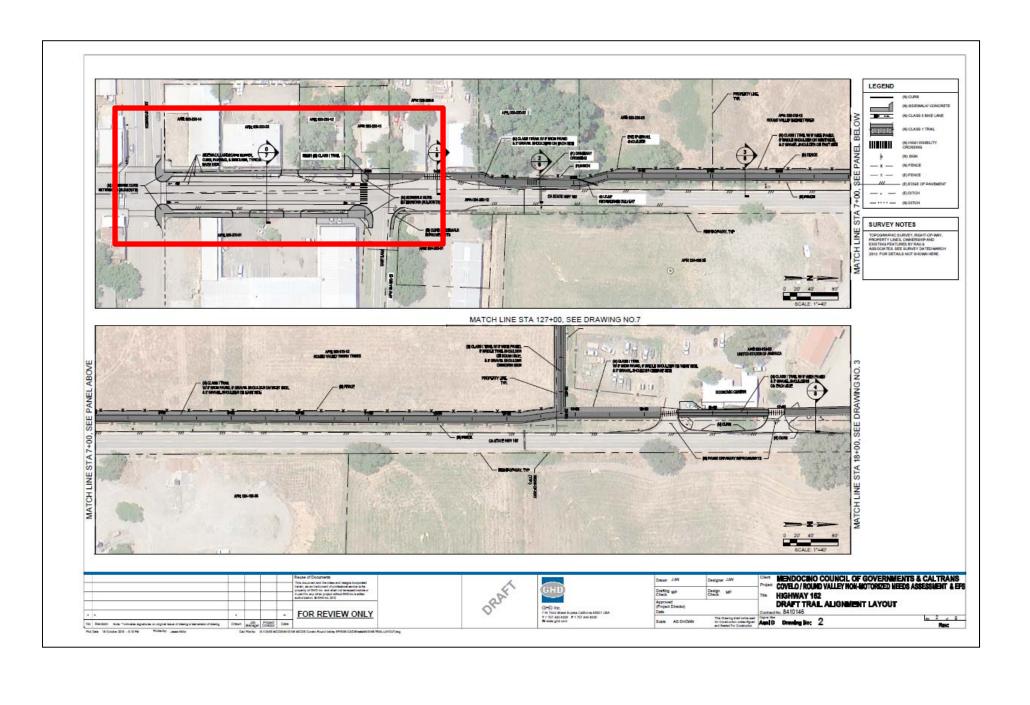
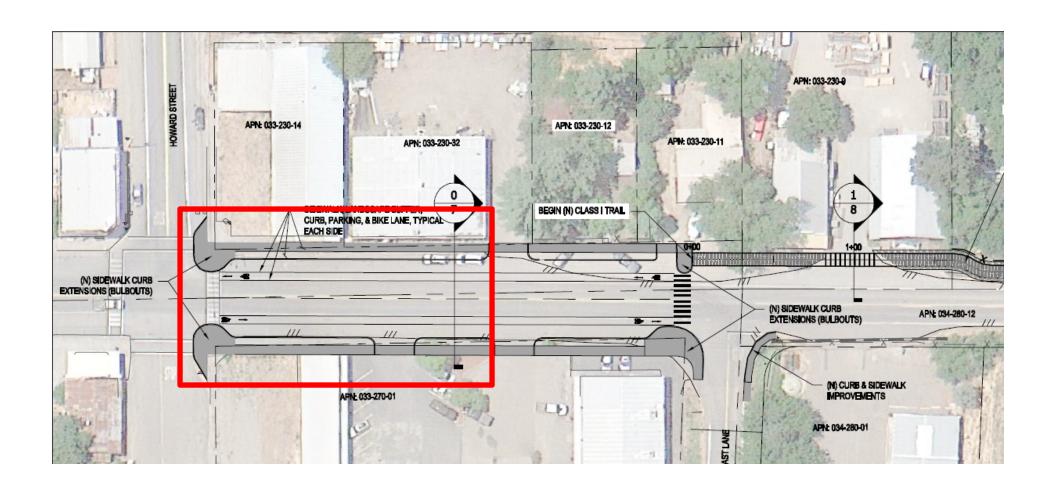
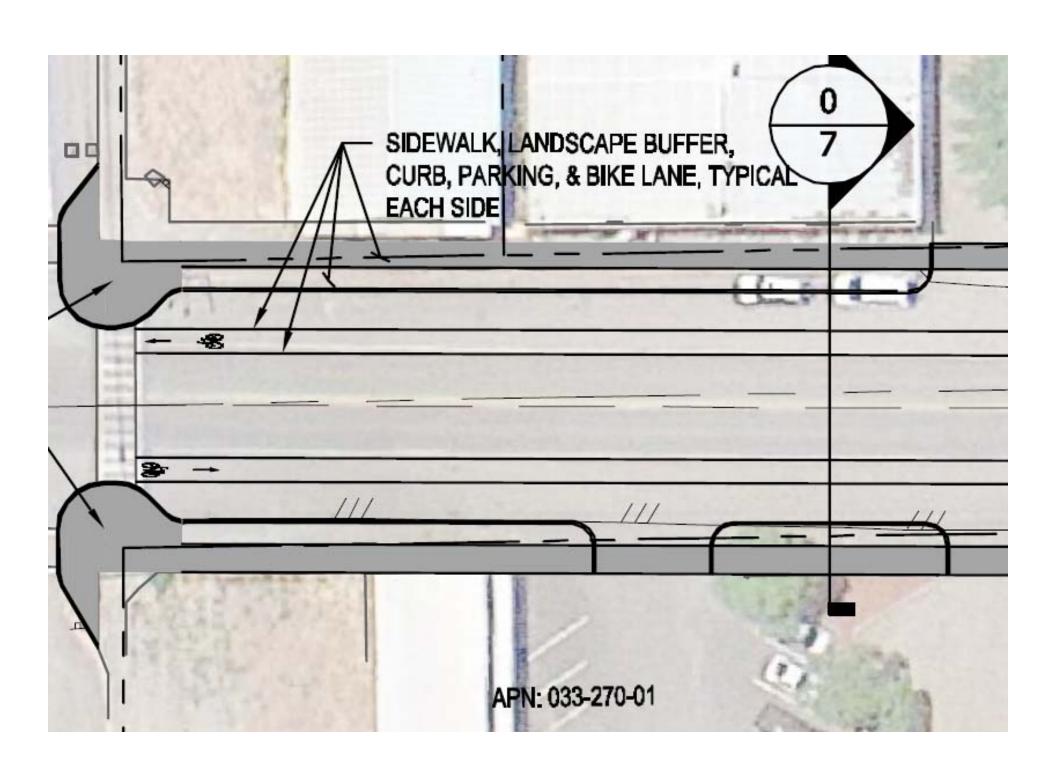


Figure 5-8: State Route 162 - Howard Intersection to East Lane





















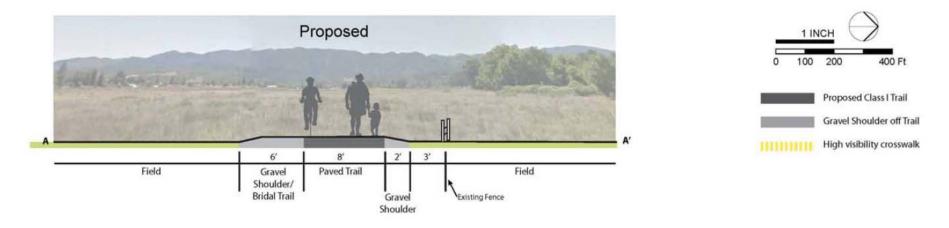
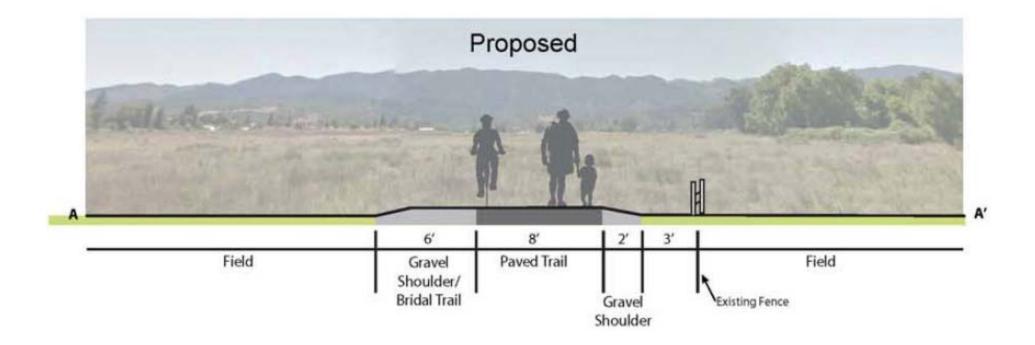
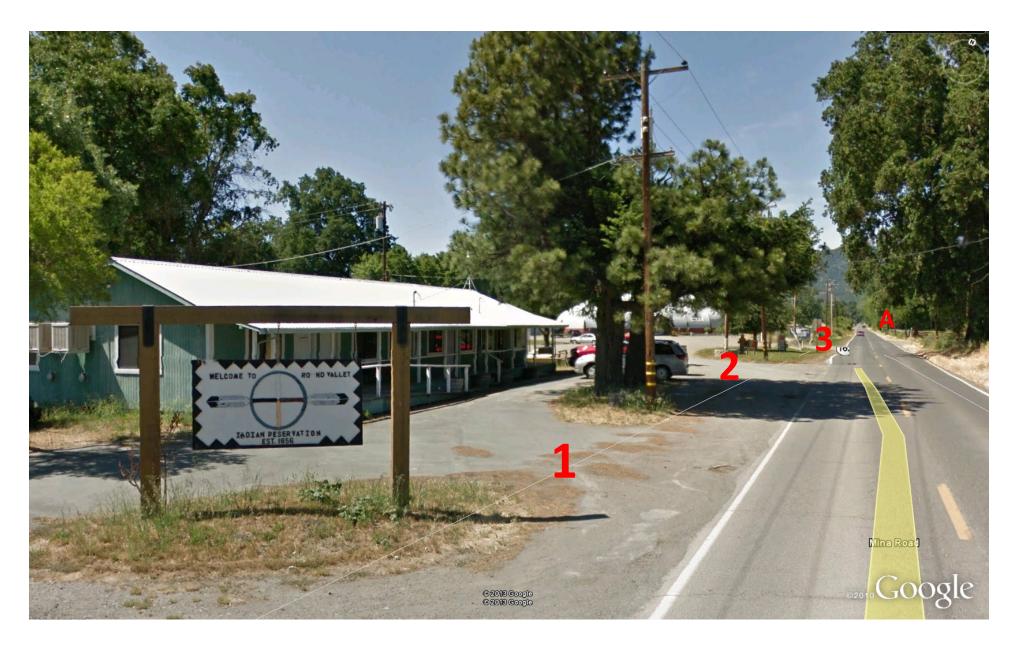


Figure 5-9 : East-West Trail – SR 162 to Henderson



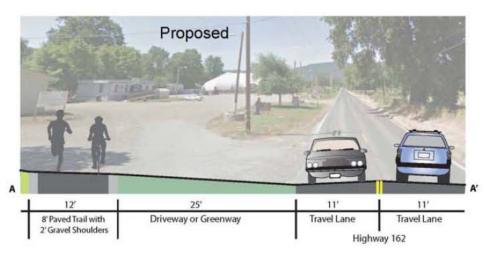




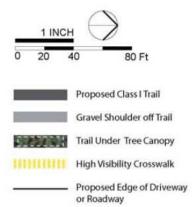


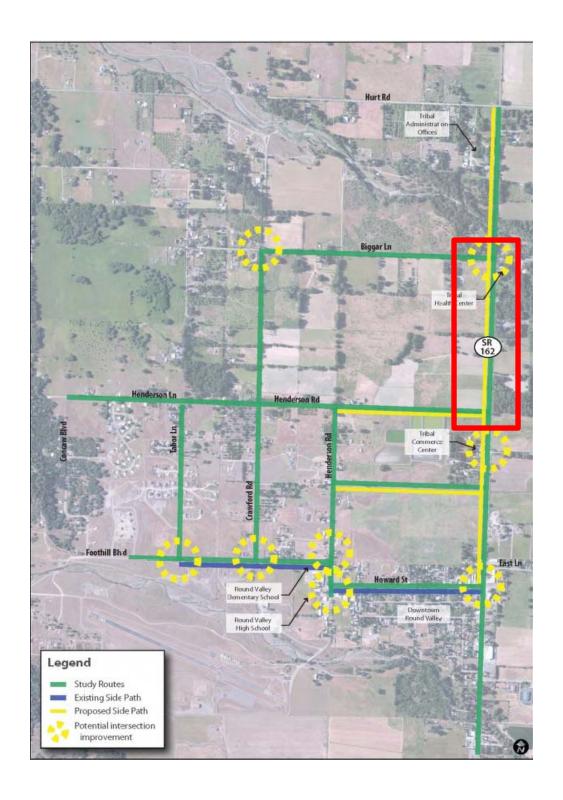














Consequence of moving ditch = more expensive project



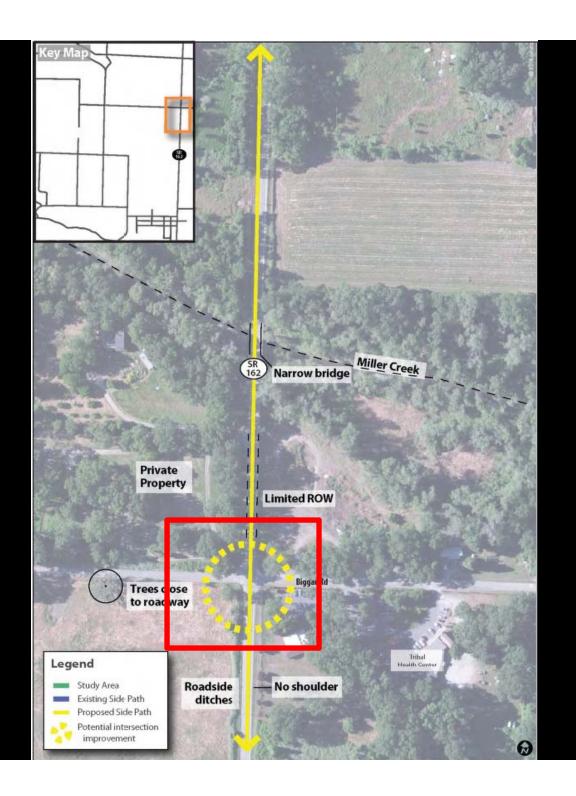
Consequence of "undergrounding" ditch = even more expensive project



Six property owners on east side

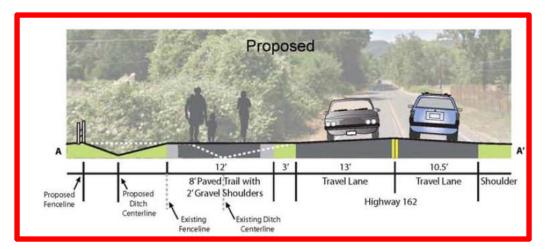












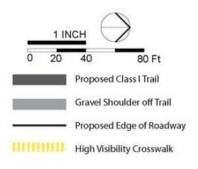
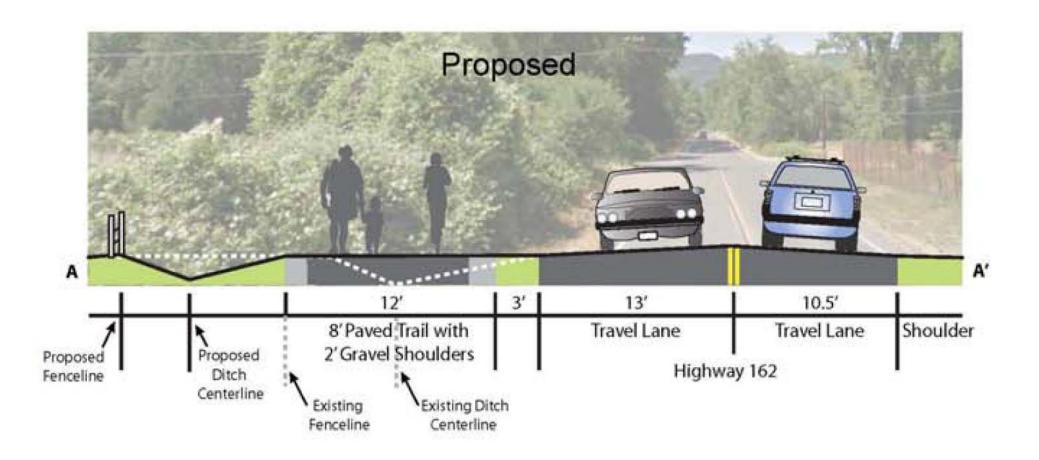
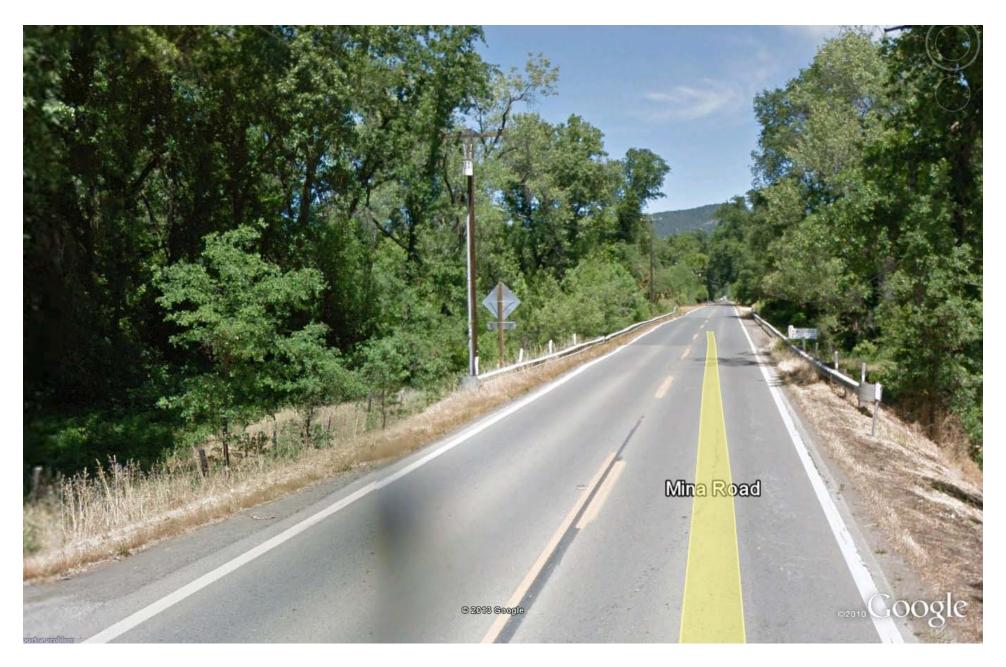


Figure 5-11: State Route 162 - Trail at Biggar Lane

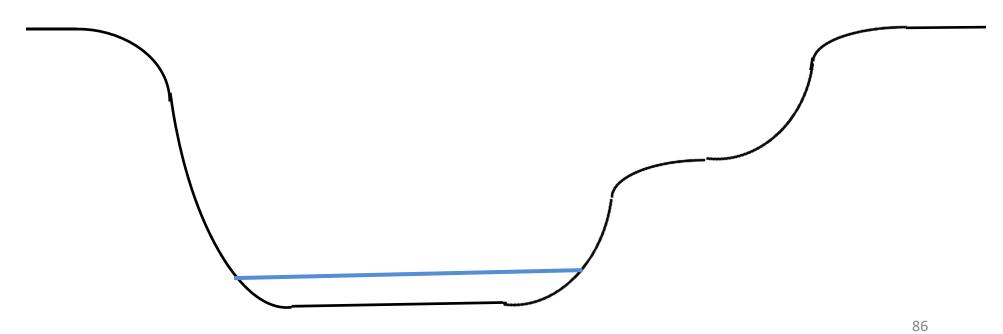




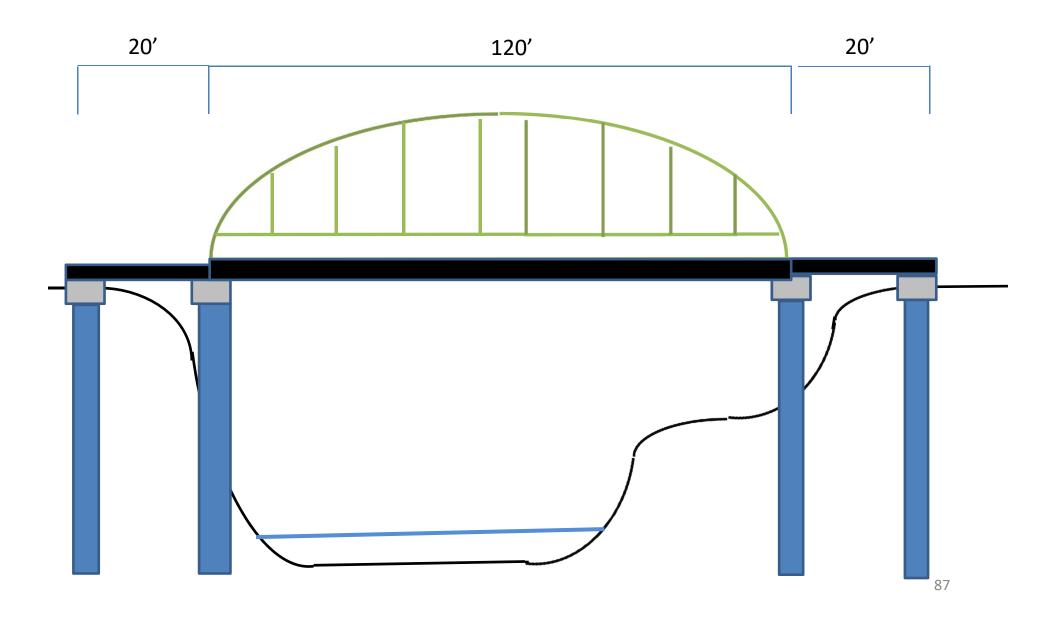






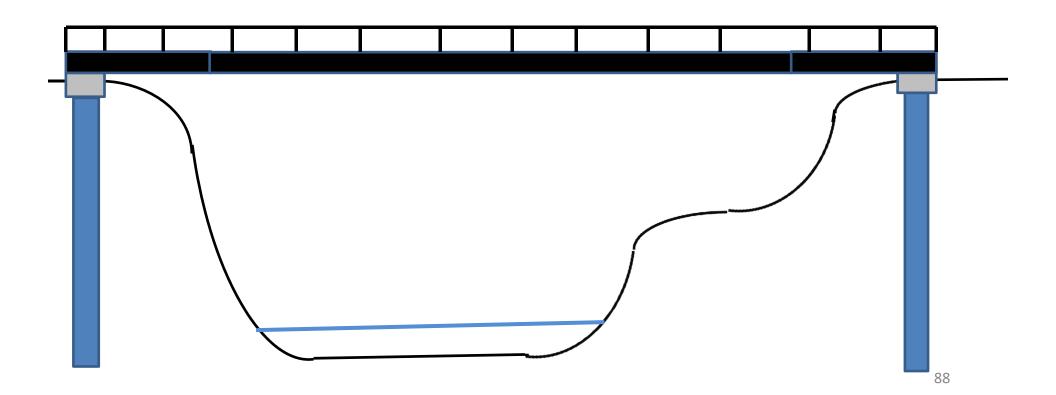


Use Existing Bridge



New Pre-fabricated Bridge

160'





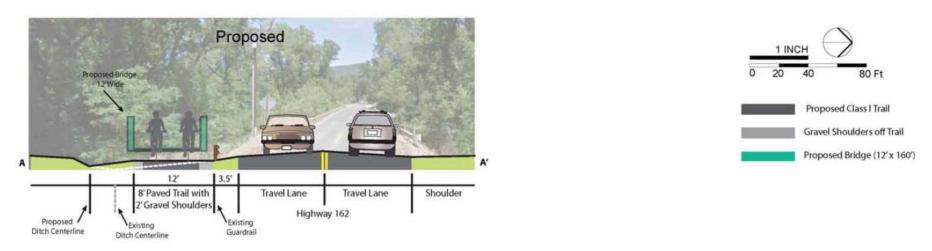
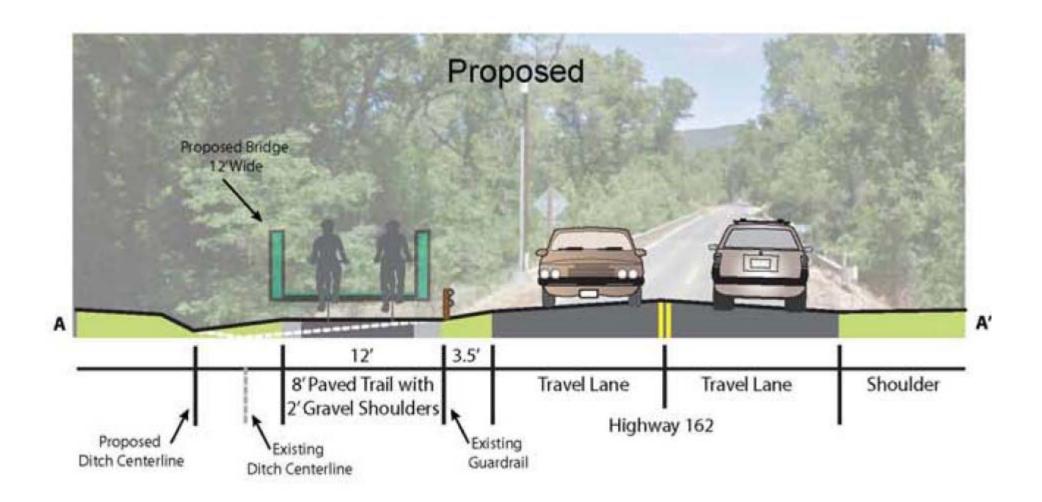
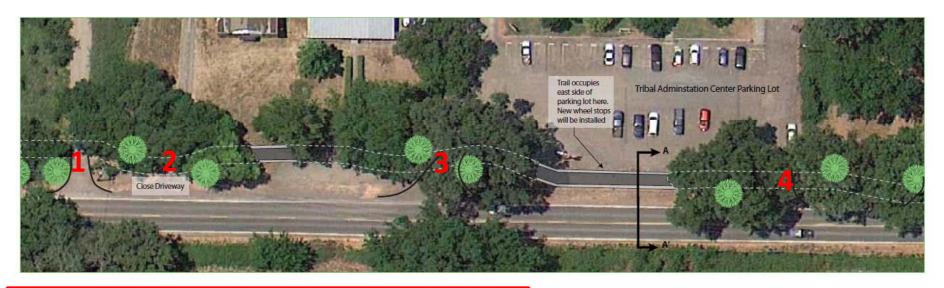


Figure 5-12: State Route 162 - Trail and Bridge over Mill Creek









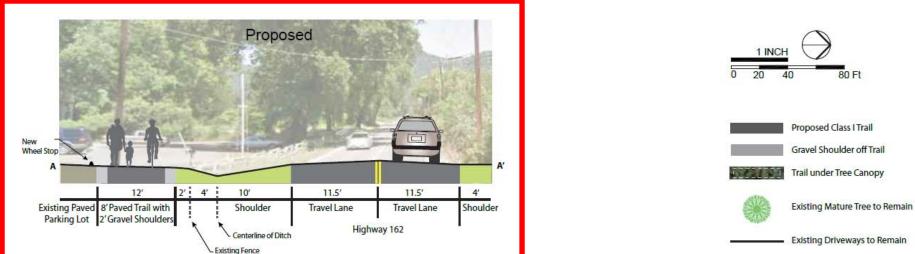
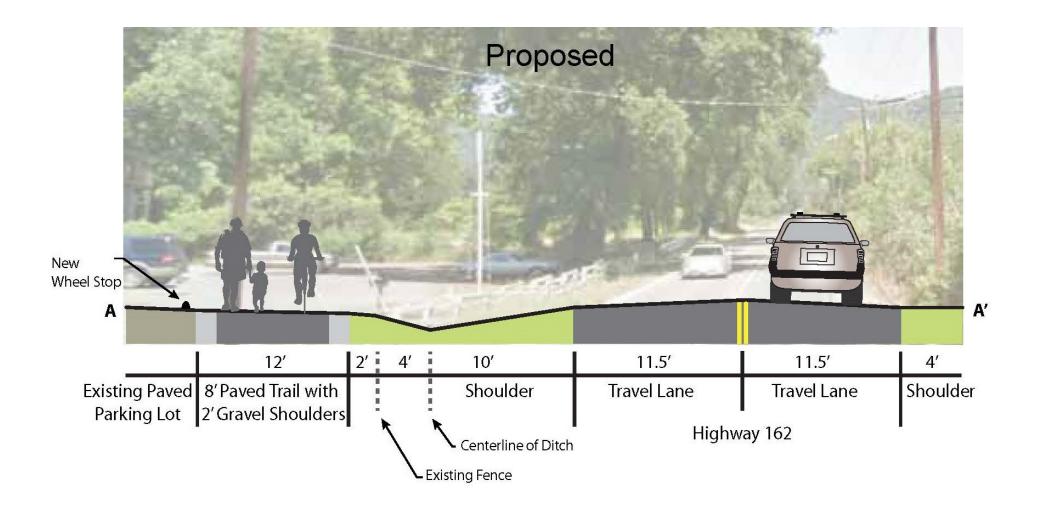


Figure 5-12: State Route 162 - Trail at Tribal Adminstration Center



Howard Street





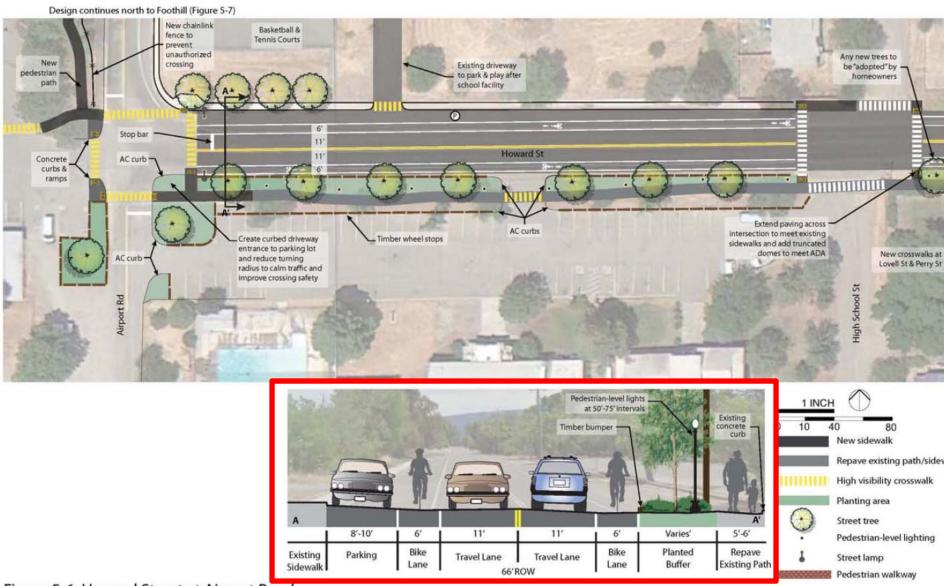
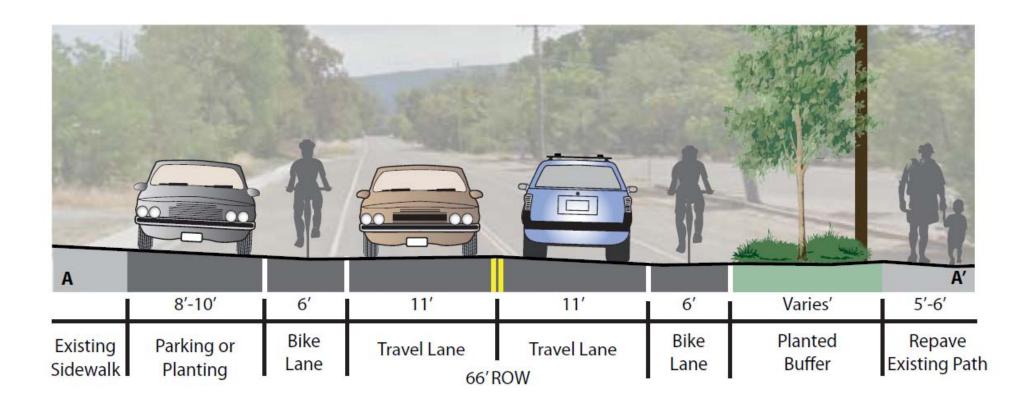


Figure 5-6: Howard Street at Airport Road

Covelo/Round Valley Non-motorized Transportation Pla







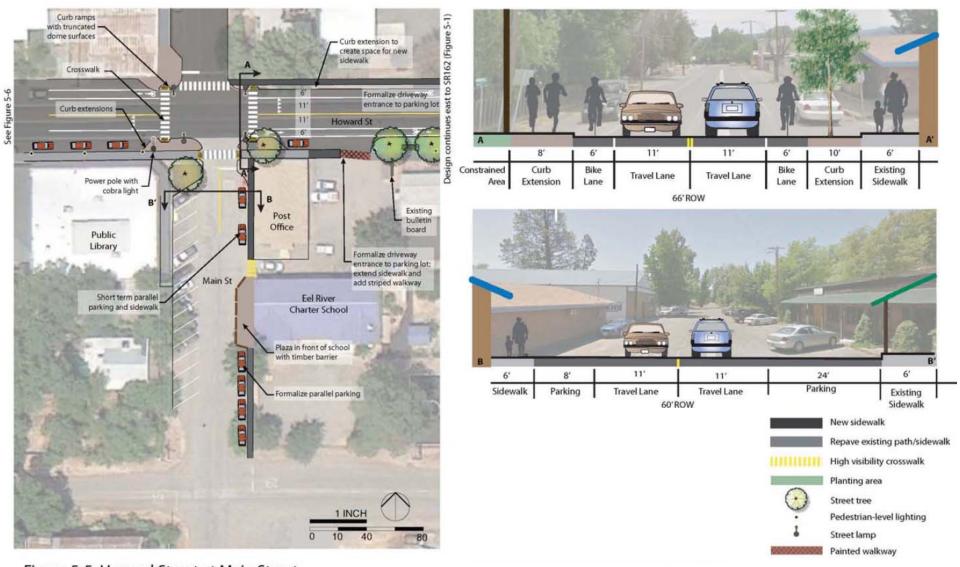


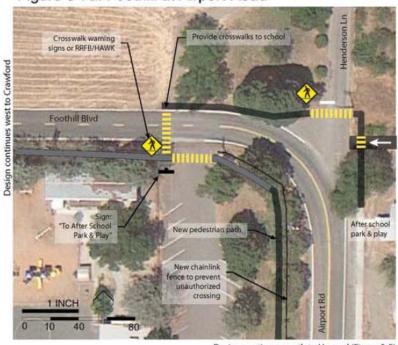
Figure 5-5: Howard Street at Main Street

Covelo/Round Valley Non-motorized Transportation Plan

Foothill Blvd



Figure 5-7a: Foothill at Airport Road



Design continues south to Howard (Figure 5-5)

Figure 5-7b: Foothill at Tabor

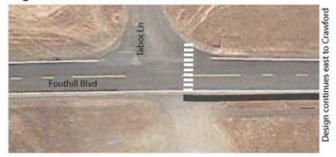


Figure 5-7c: Foothill at Crawford



Key to Howard Street Sheets



Foothill (Existing, typ.)

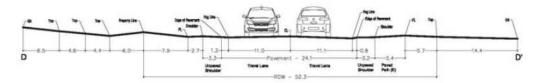
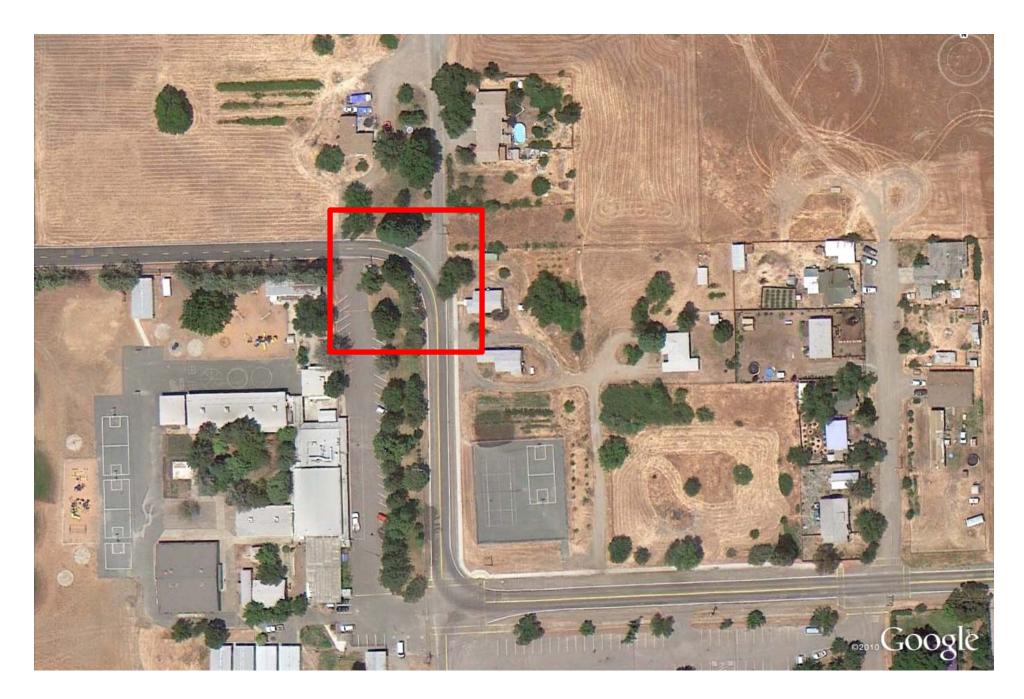
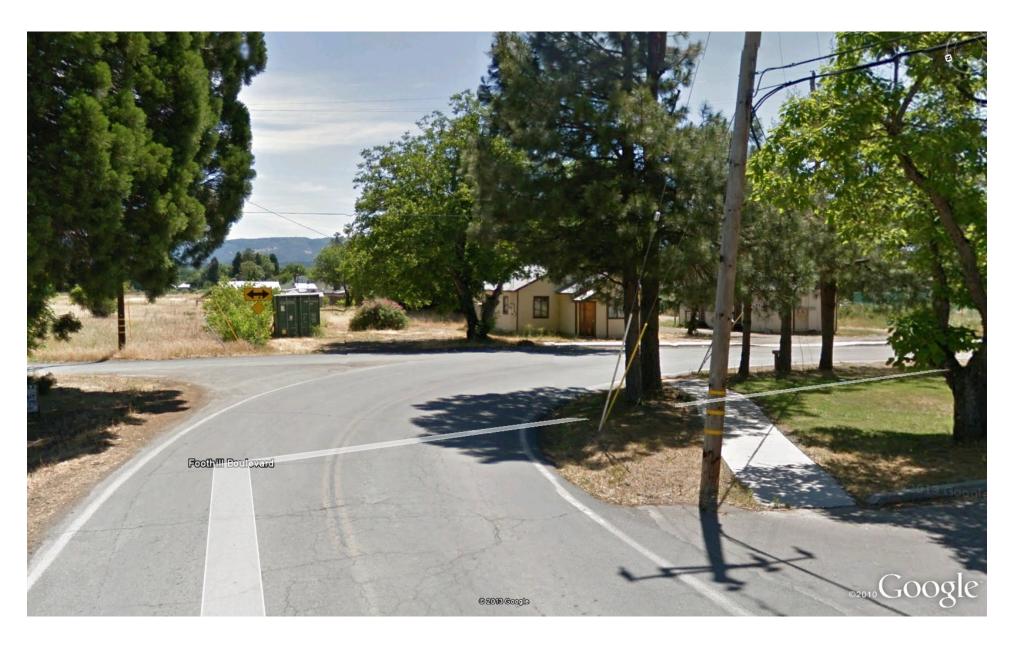


Figure 5-7: Foothill Boulevard

Covelo/Round Valley Non-motorized Transportation Plan





Phased Projects and Preliminary Estimates of Probable Construction Cost

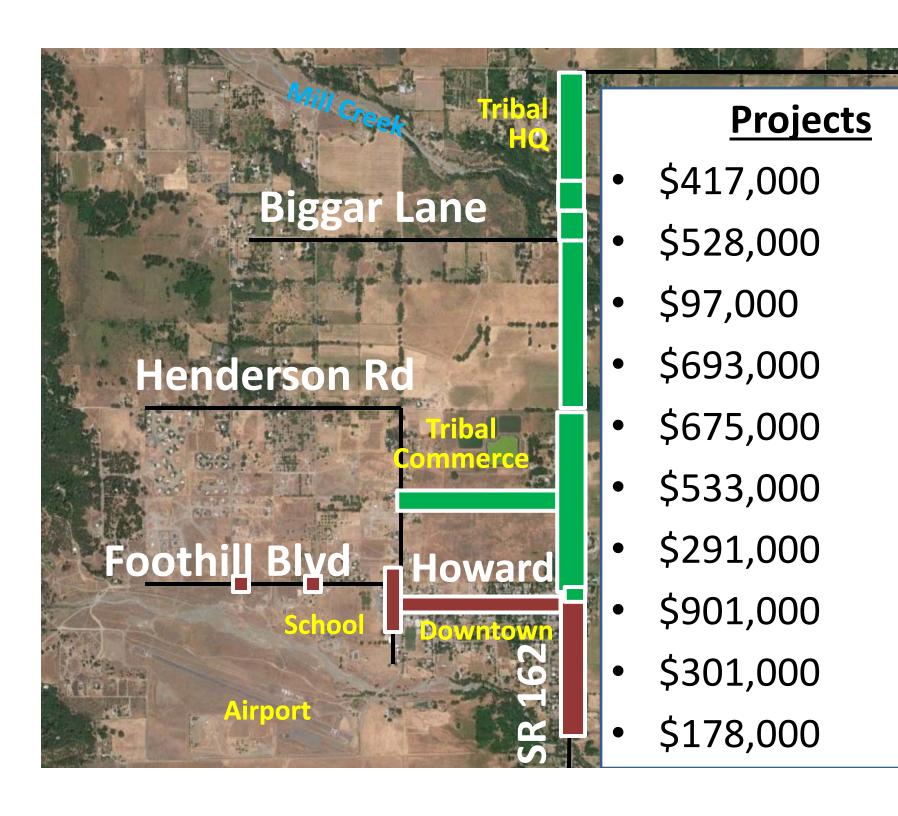
Preliminary Estimates of Probable Cost

Table C- 3: State Route 162 - Howard Intersection

	ITEM & ASSUMPTIONS	QTY	UNIT	UNIT COST	COST	SUB TOTAL
1	Mobilization - maximum of 5% of total bid price	1	ALLOW	5.00%	\$13,033.42	
2	General Conditions, Bonds and Insurance	1	ALLOW	2.00%	\$5,213.37	
3	Erosion Control - includes all BMPs, SWPPP and Supply QSP	1	ALLOW	5.00%	\$13,033.42	
4	Traffic Control	1	ALLOW	10.00%	\$26,066.84	
	Sub-total					\$57,347.06
5	Sitework, Demolition and Removal - includes all demolition, site preparation for all construction; relocation or re-setting of utilities; temporary construction fencing,					
5.1	Sawcut pavement	1064	LF	\$5.00	\$5,320.00	
5.2	Remove AC pavement	8675	SF	\$0.25	\$2,168.75	
5.3	Remove concrete pavement	2221	SF	\$0.25	\$555.25	
	Sub-total					\$8,044.00
6	Earthwork					
6.1	Clearing and Grubbing	8,206	SF	\$0.25	\$2,051.50	
6.2	Excavation and Grading	0	CY	\$18.00	\$0.00	
6.3	Embankment, Import Borrow	0	CY	\$30.00	\$0.00	
6.4	Soil for new landscape areas	0	CY	\$10.00	\$0.00	
	Sub-total					\$2,051.50
7	Concrete Work and Asphalt Paving - includes concrete curbs, 4° PCC sidewalk, Type I pedestrian ramps, concrete pads, Class I Trail					
7.1	Construct curb & gutter	1049	LF	\$24.00	\$25,176.00	
7.2.	Construct AC curb	0	LF	\$12.00	\$0.00	

What is included in the Preliminary Estimates of Probable Cost?

- Final Survey and Final Design Engineering
- Environmental Permitting
- Environmental Mitigation
- Right-of-Way Acquisition
- Construction
- Contingencies



TOTAL COST OF ALL PROJECTS

1	Hurt to bridge	\$	417,000.00
2	Bridge	\$	528,000.00
3	Bridge to Biggar, Biggar	\$	97,000.00
4	Biggar to Tribal Econ Center	\$	693,000.00
5	Tribal Econ to East	\$	675,000.00
6	Howard @ HWY162	\$	533,000.00
6 7	Howard @ HWY162 Downtown (162 so of Howard)	\$ \$	533,000.00 291,000.00
	_		,
7	Downtown (162 so of Howard)	\$	291,000.00

TOTAL

\$ 4,326,000

TOTAL COST OF COMBINED TRAIL PROJECT

1	Hurt to bridge	\$ 417,000.00
2	Bridge	\$ 528,000.00
3	Bridge to Biggar, Biggar	\$ 97,000.00
4	Biggar to Tribal Econ Center	\$ 693,000.00
5	Tribal Econ to East	\$ 675,000.00

TOTAL

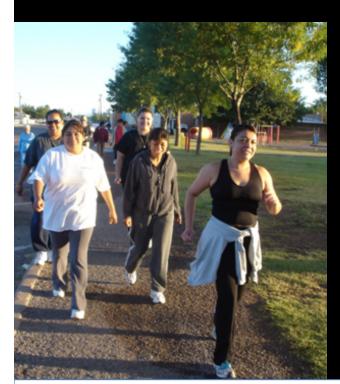
\$2,410,000

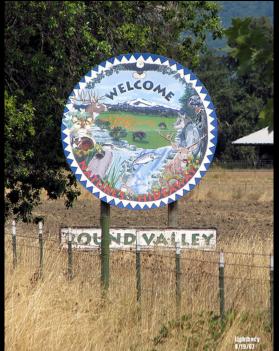
Chapter 6: Implementation Steps and Funding Opportunities

Implementation Considerations

- Update Transportation Planning Documents
- Coordination of implementing agency(s)
- Identify funding sources
 - Grant Programs
 - TAP Program (SR2S, BTA, etc)
 - TIGER
 - HSIP
 - Others
- Phase and prioritize projects to match funding availability

Discussion and Q&A







Lead Agencies:





Consultant Team:









Civil Engineers · Land Surveyors