

Table of Contents

Executive Summary	ES-1
Chapter 1 Introduction	1-1
1.1 Plan Overview	1-1
1.1.1 Plan Organization	1-1
1.2 Community Outreach	1-2
1.2.1 Community Workshops	1-3
1.2.2 Public Survey	1-5
Chapter 2 Existing Conditions	2-1
2.1 Introduction	2-1
2.2 Existing Corridor Transit Services	2-2
2.2.1 Existing Services	2-2
2.2.2 Corridor Transit Activity by Roadway Link	2-6
2.2.3 Transit Activity at Transit Centers over a Day	2-9
2.2.4 Transit Activity at Transit Centers over an Hour	2-9
2.3 Existing Ridership Characteristics	2-13
2.3.1 Existing Ridership Activity	2-13
2.3.2 Existing Corridor Ridership Characteristics	2-24
2.4 Existing Corridor Transit Facilities	2-29
2.4.1 Bus Stops	2-29
2.4.2 Transfer Centers	2-35
2.5 Other Plans and Projects	2-56
2.5.1 5th Street Bridge Replacement Project	2-56
2.5.2 Yuba City ADA Self-Evaluation and Transition Plan for the Public Right-of-Way	2-56
2.5.3 North Beale Corridor Complete Streets and Revitalization Plan	2-57
2.5.4 East Linda Reinvestment Plan	2-58
2.5.5 Yuba County Bicycle Master Plan	2-58
2.5.6 Yuba City Bicycle Master Plan 2011	2-58
2.5.7 Sutter County HHS Center	2-59

Chapter 3 | Design Parameters..... 3-1

3.1 Minimum Sidewalk and Bicycle Facility Parameters 3-1

 3.1.1 Sidewalks 3-1

 3.1.2 Bicycle Facilities 3-2

3.2 Bus Pullout Design Parameters 3-2

 3.2.1 Requirement for a Bus Pullout..... 3-2

 3.2.2 Bus Pullout Design Specifications 3-3

3.3 Passenger Facility Design Parameters..... 3-4

3.4 Bus Turning Path Design Specifications 3-5

 3.4.1 Design Vehicle..... 3-5

 3.4.2 Turning Path Design 3-5

3.5 Recommended Yuba-Sutter Transit Design Parameters 3-5

Chapter 4 | Route 1 Transit Center and Bus Stops Program and Design Options 4-1

4.1 Alturas & Shasta Transit Center Program and Site Options 4-1

 4.1.1 Recommended Transit Center Program..... 4-1

 4.1.2 Site Options..... 4-2

4.2 Alturas & Shasta Transit Center Preferred Options 4-15

 4.2.1 Preferred Site Plan and Illustrative Conceptual View..... 4-16

 4.2.2 Conceptual Cost Estimate 4-21

4.3 Recommended Improvements at Other Transit Centers..... 4-22

4.4 Improvements at Other Bus Stops along the Corridor..... 4-23

4.5 Feasibility and Assessment of Real Time Information Systems 4-25

4.6 Impact of the 5th Street Bridge Improvements 4-28

Chapter 5 | Battery Electric Bus Feasibility..... 5-1

5.1 Introduction..... 5-1

 5.1.1 Current Site Electrical Service 5-1

 5.1.2 Equipment Requirements for the First Charge Stations:..... 5-2

 5.1.3 Full Conversion of Fleet to BEBs..... 5-2

 5.1.4 Space Requirements 5-3

5.2 Summary 5-6

5.3 Risk Factors to the Project..... 5-7

5.4 Recommendations..... 5-7

Chapter 6 | Resources and References 6-1

Appendices

- A Route 1 Boarding, Alighting, and Passenger Load Data
- B Public Survey Results
- C Alturas & Shasta Transit Center Illustrative Conceptual Views

List of Tables

Table 2.1: Summary of Existing Yuba Sutter Transit Local Routes..... 2-5

Table 2.2: Weekday Transit Activity by Corridor Segment..... 2-7

Table 2.3: Summary of Weekday Bus Activity at Key Transfer Points..... 2-10

Table 2.4: Existing Weekday Hourly Local Route Service Schedule at Western Transfer Points..... 2-11

Table 2.5: Existing Weekday Hourly Local Route Service Schedule at Eastern Transfer Points 2-12

Table 2.6: 2016 Transit Ridership by Route and by Month..... 2-13

Table 2.7: Local Route Ridership Variation by Day of Week 2-16

Table 2.8: Route I Average Weekday Ridership by Run 2-17

Table 2.9: Average Daily Route I Boarding, Alighting and Passenger Load by Stop 2-19

Table 2.10: Total Boarding by Time at Route I Transfer Centers..... 2-21

Table 2.11: Route I Rider Suggestions for Bus Stop Improvements 2-27

Table 2.12: Current Local Route Transfer Activity..... 2-28

Table 2.13: Route I Corridor Bus Stop Amenities 2-30

Table 2.14: Route I Corridor Bus Stop Conditions 2-31

Table 2.15: Route I Corridor Bus Stop Sidewalks and Safety..... 2-33

Table 3.1: AASHTO Bus Bay Dimensions 3-2

Table 4.1: Alternative Alturas & Shasta Transfer Center Site Options..... 4-15

Table 4.2: Site Suitability Based on Performance Metrics 4-16

Table 4.3: Conceptual Cost Estimate 4-21

Table 4.4: Recommended Improvements at Other Route I Bus Stops..... 4-24

Table 4.5: Real-Time Sign Cost Estimates 4-28

Table 5.1: Cost Estimate 5-11

List of Figures

Figure 2.1: Yuba-Sutter Transit Routes 2-3

Figure 2.2: Yuba-Sutter Local Routes 2-4

Figure 2.3: 2016 Local Route Ridership by Month 2-15

Figure 2.4: Route 1 Average Weekday Boarding per Run..... 2-18

Figure 2.5: Weekday Boardings at Transfer Center by Half-Hourly Period 2-23

Figure 2.6: Daily Boardings by Route at Transfer Centers..... 2-24

Figure 2.8: Walton Terminal Project Site 2-37

Figure 2.9: Walton Avenue Transit Center Access..... 2-39

Figure 2.10: Alturas & Shasta Terminal Project Site..... 2-42

Figure 2.11: Alturas & Shasta Terminal Access 2-43

Figure 2.12: Yuba County Government Center Project Site..... 2-46

Figure 2.13: Yuba County Government Center Access..... 2-47

Figure 2.14: North Beale Transit Center Project Site 2-50

Figure 2.15: North Beale Transit Center Access..... 2-51

Figure 2.16: Yuba College Transit Center Project Site 2-54

Figure 2.17: Yuba College Transit Center Site Access..... 2-55

Figure 3.1: Yuba City Standard Bus Turnout 3-6

Figure 3.2: Yuba-Sutter Transit Standard Bus Shelter 3-8

Figure 3.3: Yuba-Sutter Transit Standard Bus Bench 3-9

Figure 4.1: Potential New Alturas & Shasta Transit Center Sites..... 4-3

Figure 4.2: Aquarium Store Site 4-5

Figure 4.3: DMV Site 4-8

Figure 4.4: Market Street Site..... 4-10

Figure 4.5: Almond/Baptist Site 4-13

Figure 4.6: Alturas & Shasta Transit Center Preferred Site Plan 4-17

Figure 4.7: Alturas & Shasta Transit Center Conceptual View I 4-19

Figure 5-1: Site Plan..... 5-9

Acronyms and Abbreviations

ADA	Americans with Disabilities Act
amps	ampere
AASHTO	American Association of State Highway and Transportation Officials
ADT	average daily traffic
AVL	automated vehicle location
BEBs	battery electric buses
Board	Yuba-Sutter Transit Board of Directors
Caltrans	California Department of Transportation
DAR	Dial-A-Ride
DMV	Department of Motor Vehicles
E-Paper	electronic paper
EV	electric vehicle
EVSE	Electric Vehicle Supply Equipment
FRAQMD	Feather River Air Quality Management District
GPS	Global Positioning System
GTFS	General Transit Feed Specification
HHS	Health and Human Services
JSON	JavaScript Object Notation
kVA	Kilovolt-amps
kW	kilowatt
LCD	liquid crystal display
LSC	LSC Transportation Consultants, Inc..
LED	light emitting diode
MHz	megahertz
mph	miles per hour
PG&E	Pacific Gas & Electric
Plan	Corridor Enhancement Plan
RTS	real-time signs
UV	ultraviolet
SR	State Route
XML	Extensible Markup Language

This page intentionally left blank.