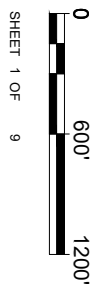


Appendix D

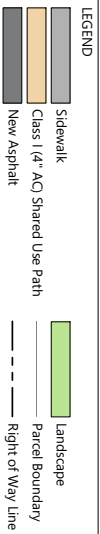
CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE



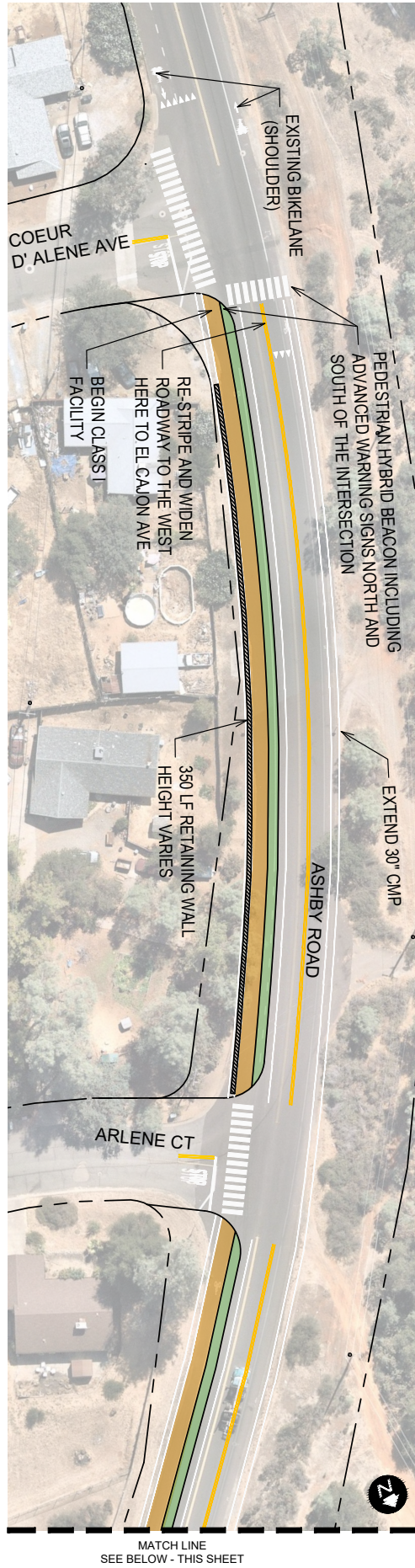
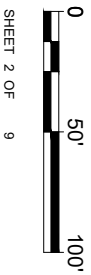
● Existing Utility Poles



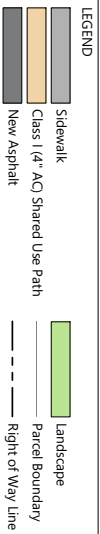
CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE



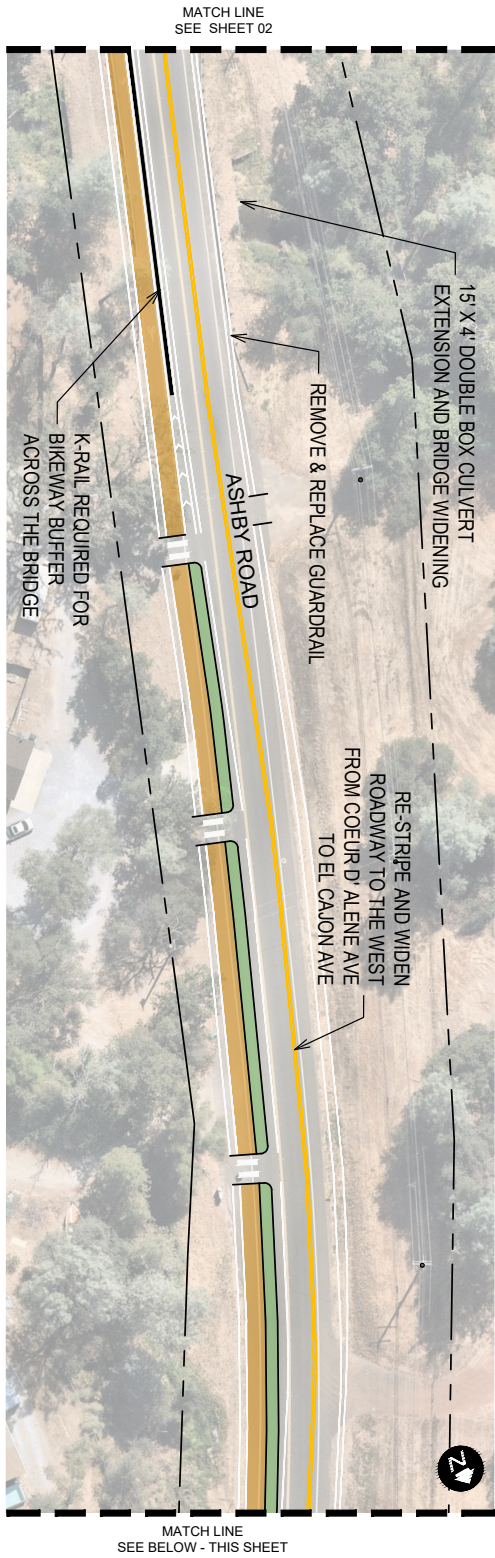
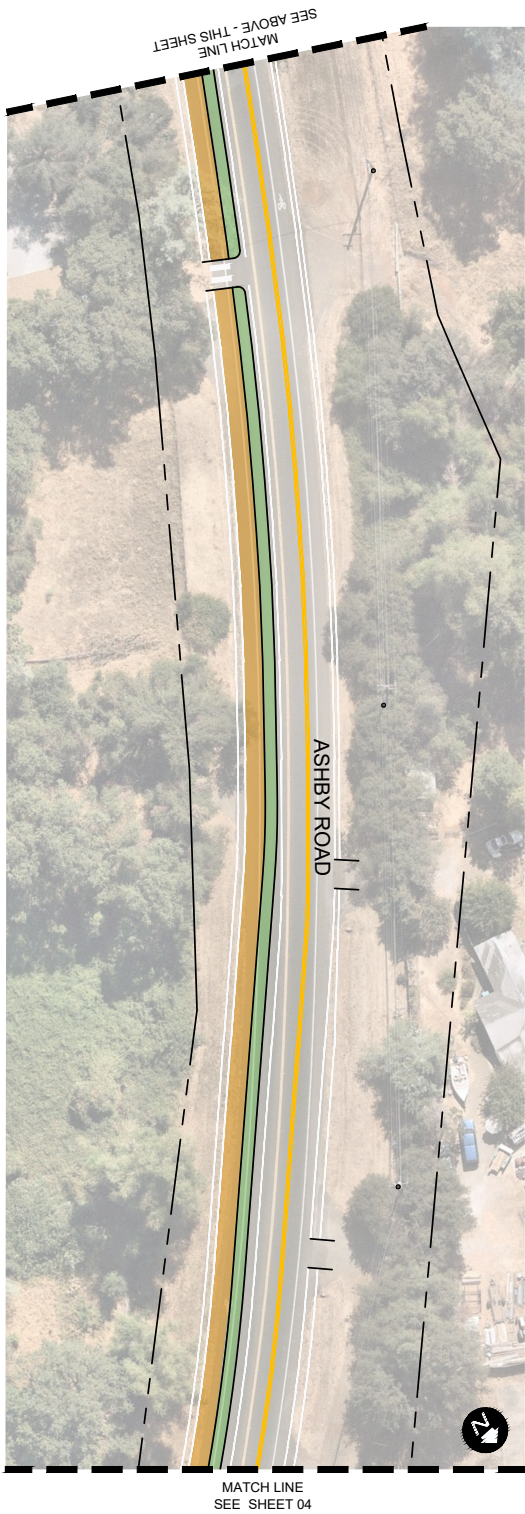
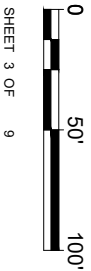
• Existing Utility Poles



CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE



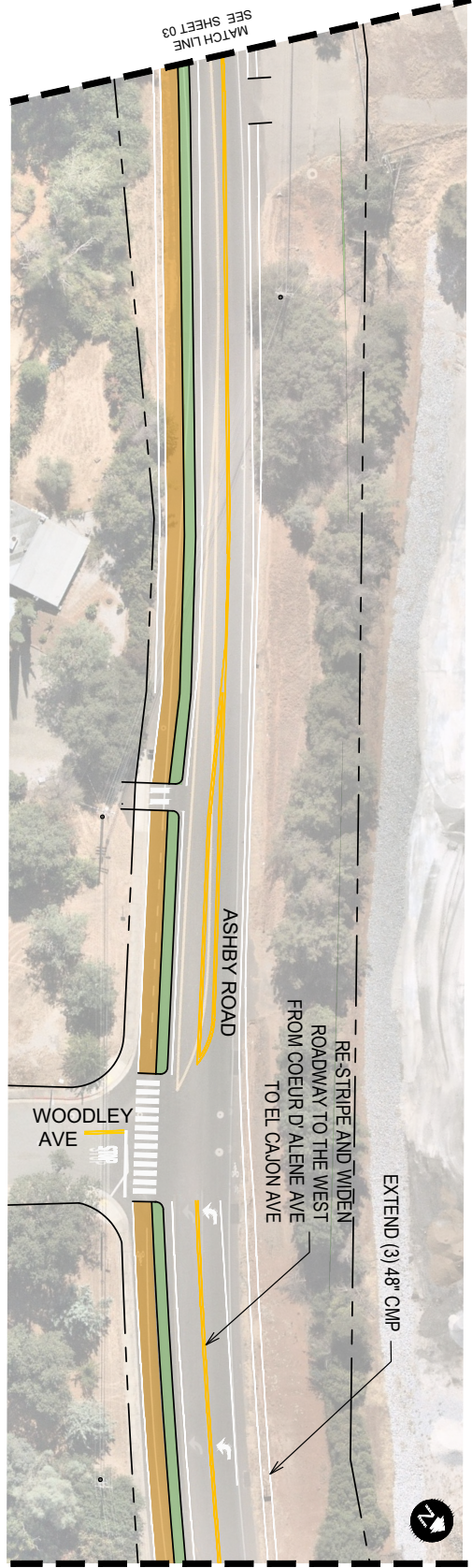
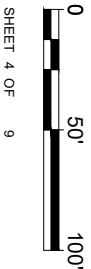
• Existing Utility Poles

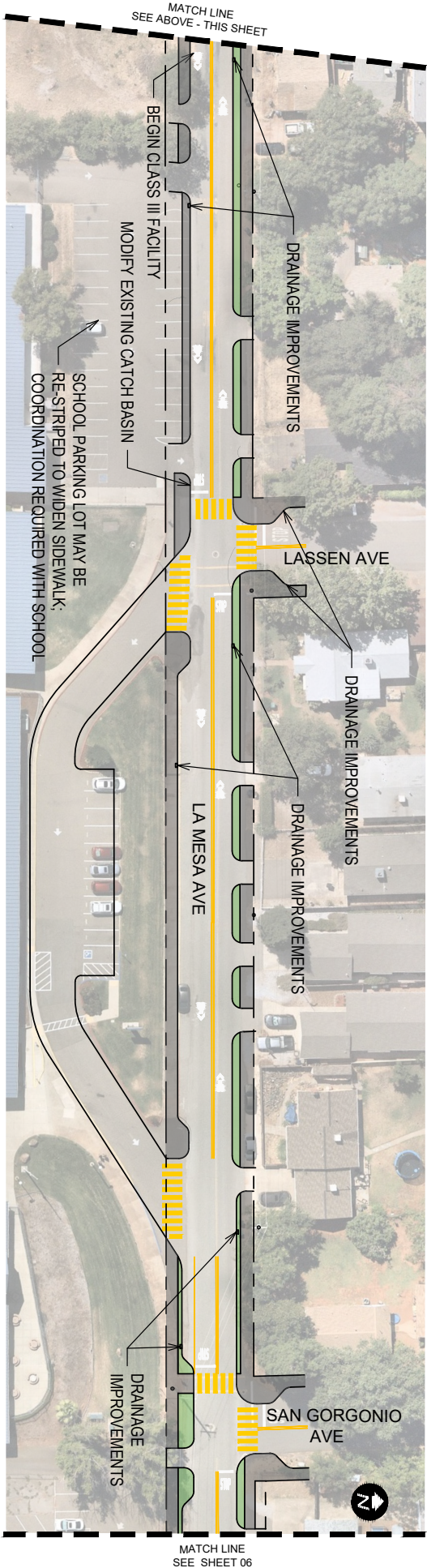
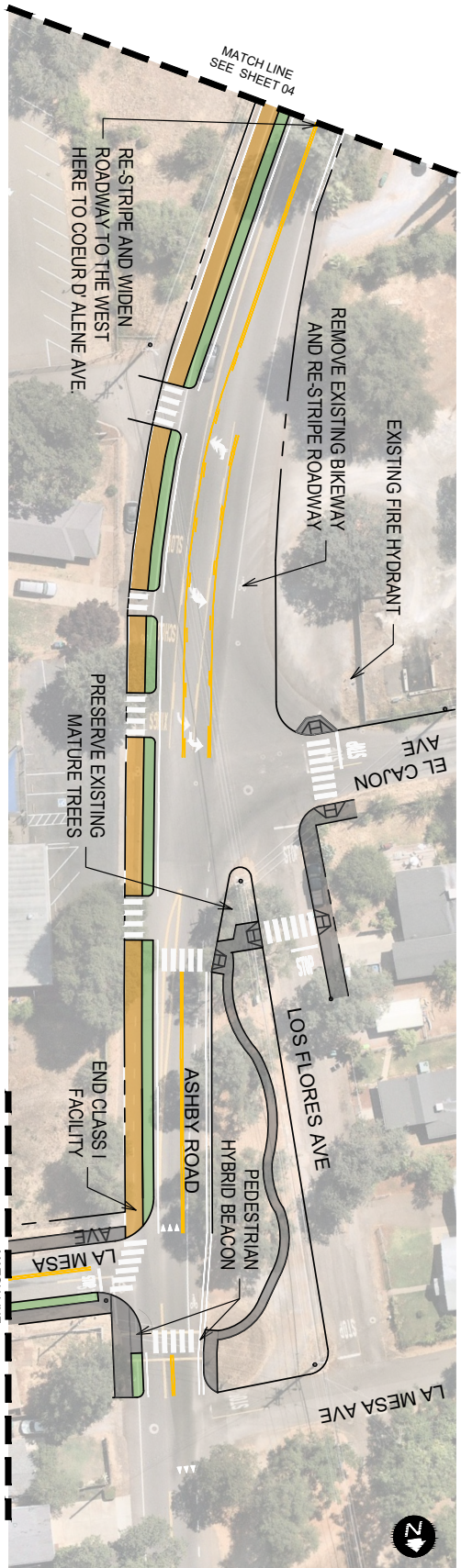


CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE

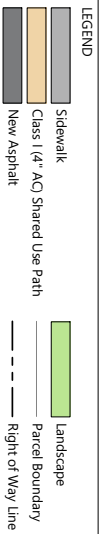


• Existing Utility Poles

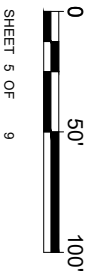




CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE

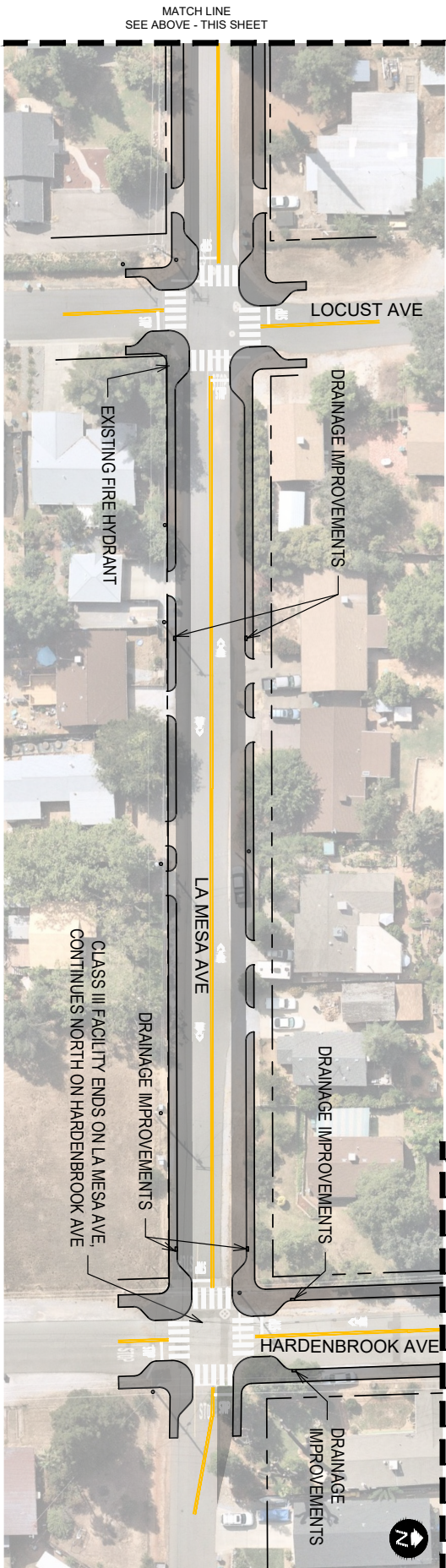
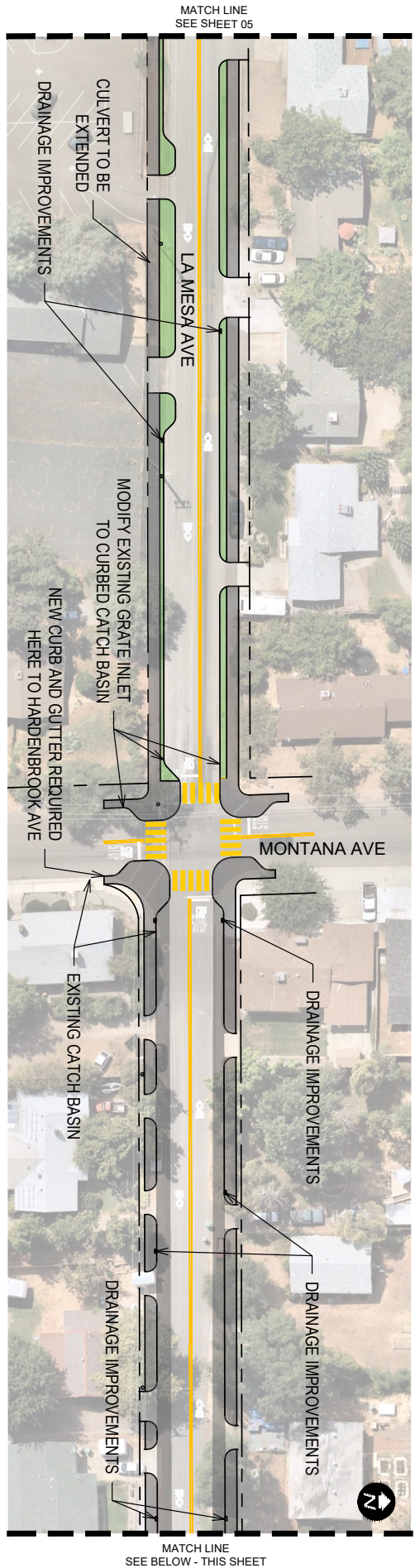


Existing Utility Poles

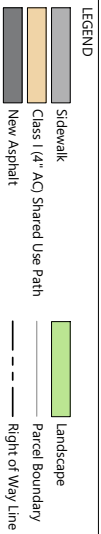


SHEET 5 OF 9

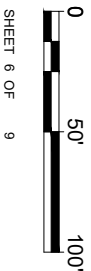


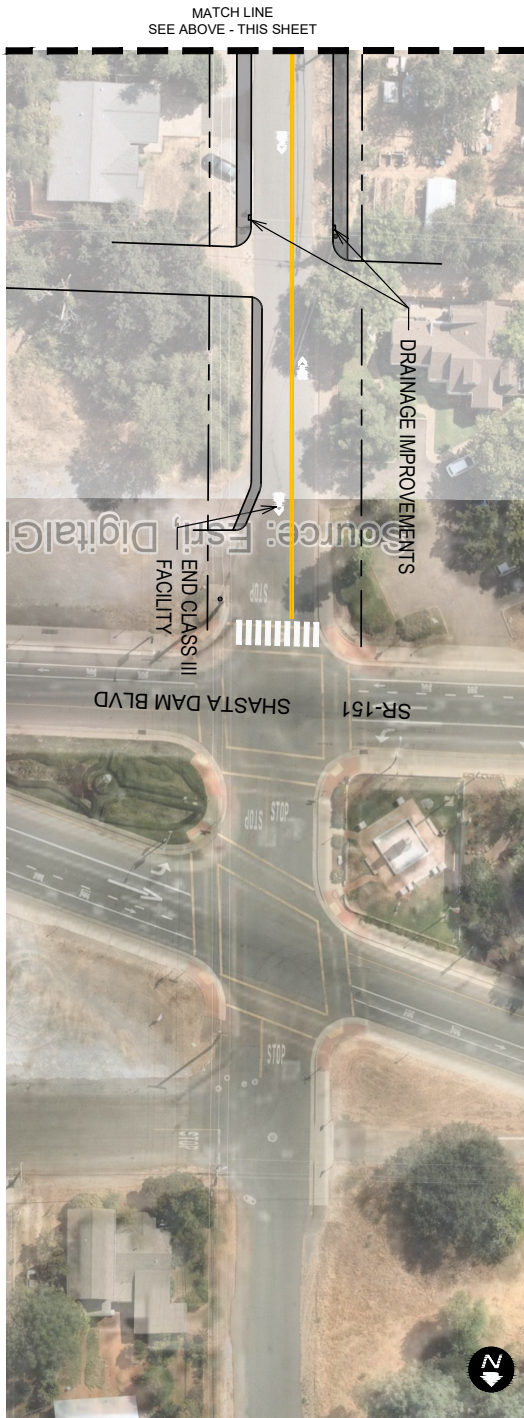
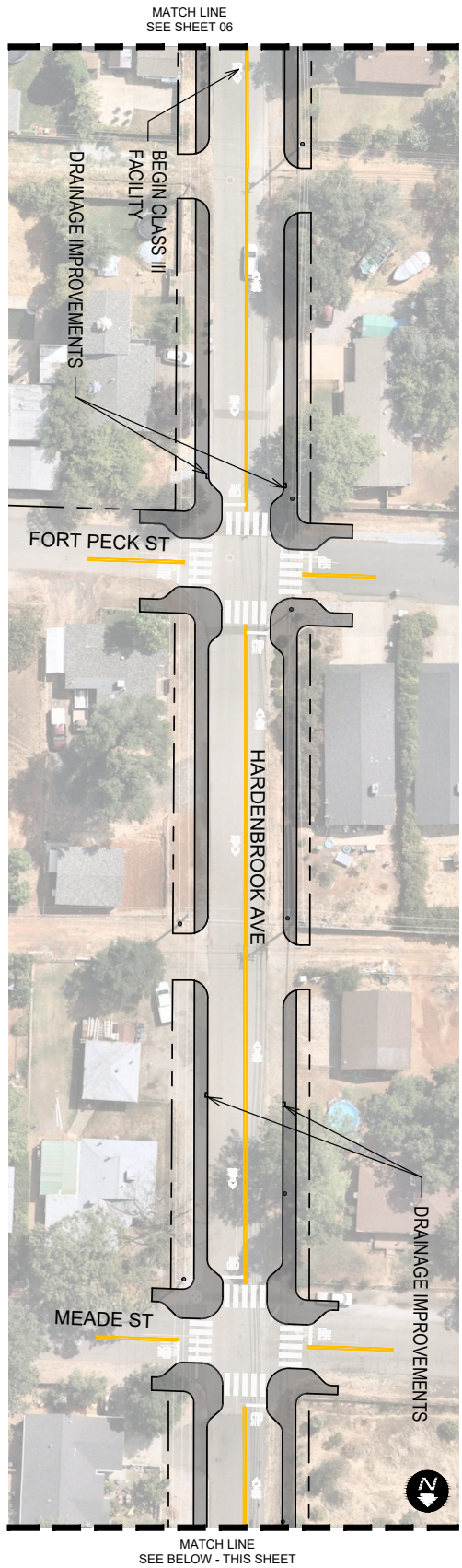


CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE

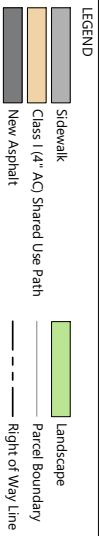


• Existing Utility Poles

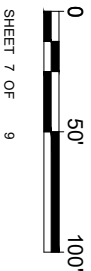


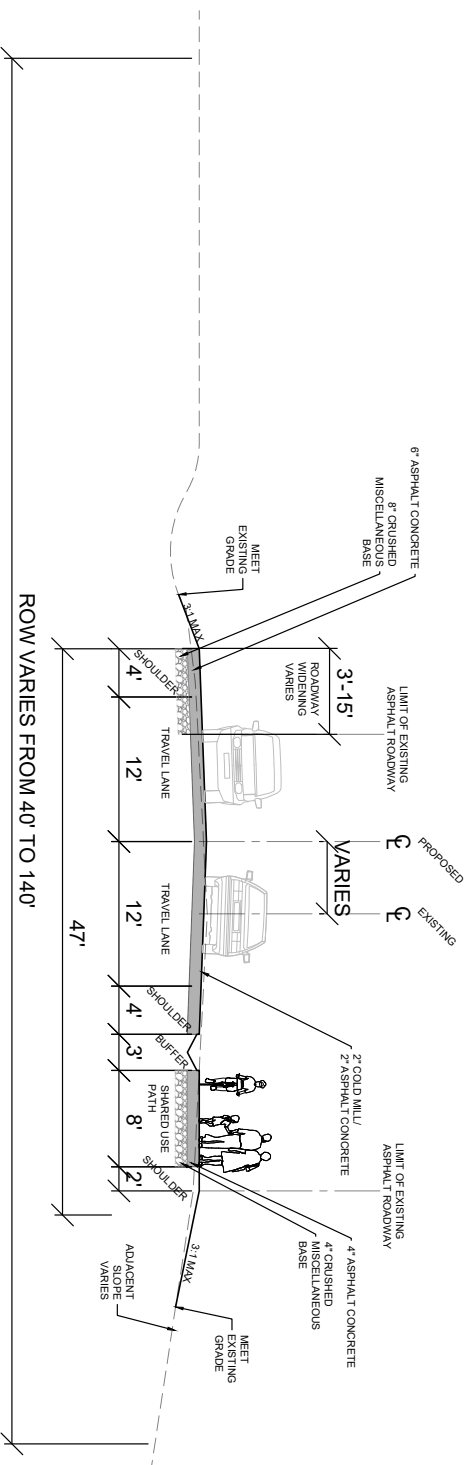
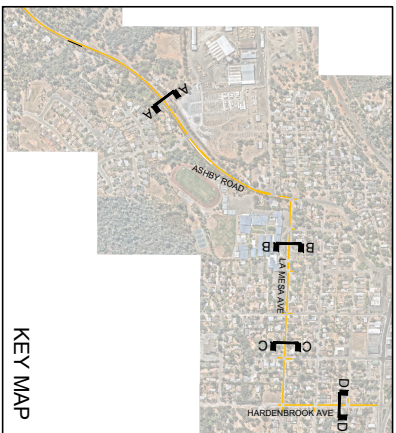


CALTRANS ATP CYCLE 5
CITY OF SHASTA LAKE
ASHBY ROAD, LA MESA AVE, & HARDENBROOK AVE

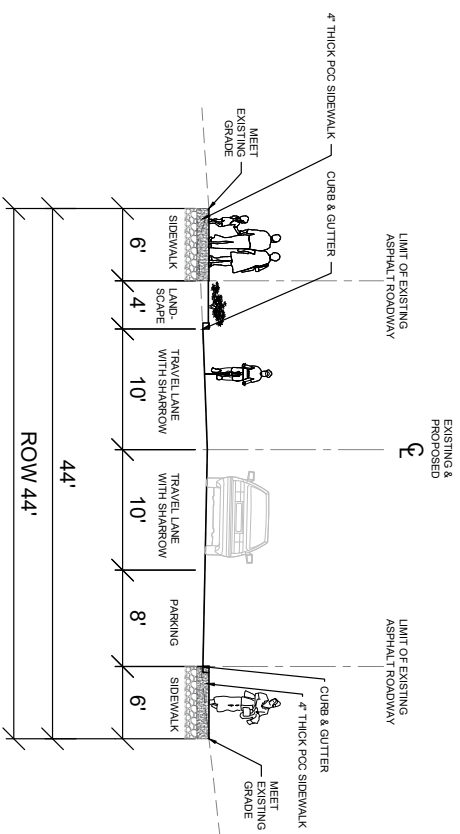


• Existing Utility Poles

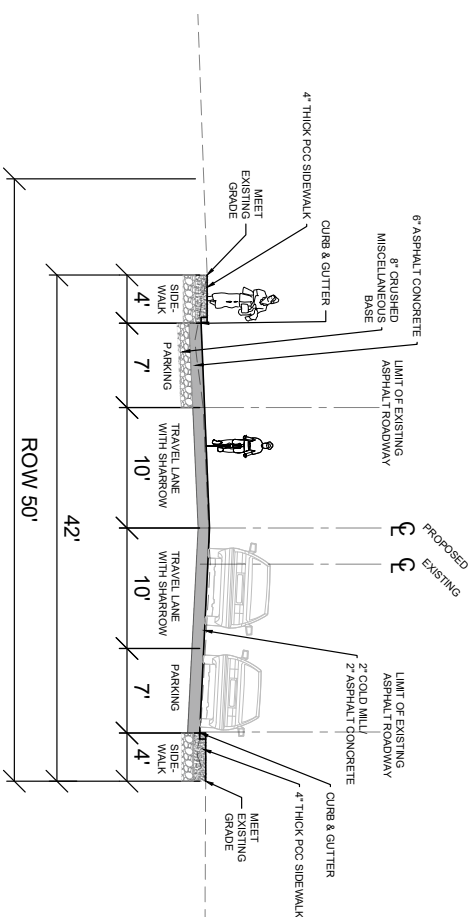




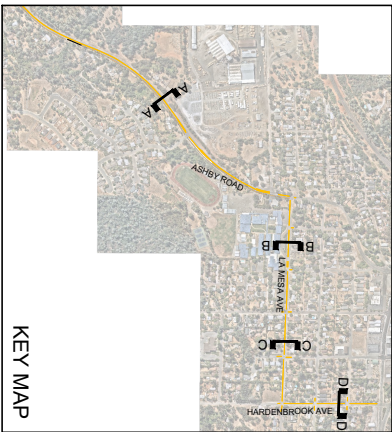
SECTION A:
ASHBY ROAD, TYP, ARLENE CT
TO EL CAJON AVE



SECTION B:
LA MESA AVE, TYP, FROM ASHBY RD TO
MONTANA AVE

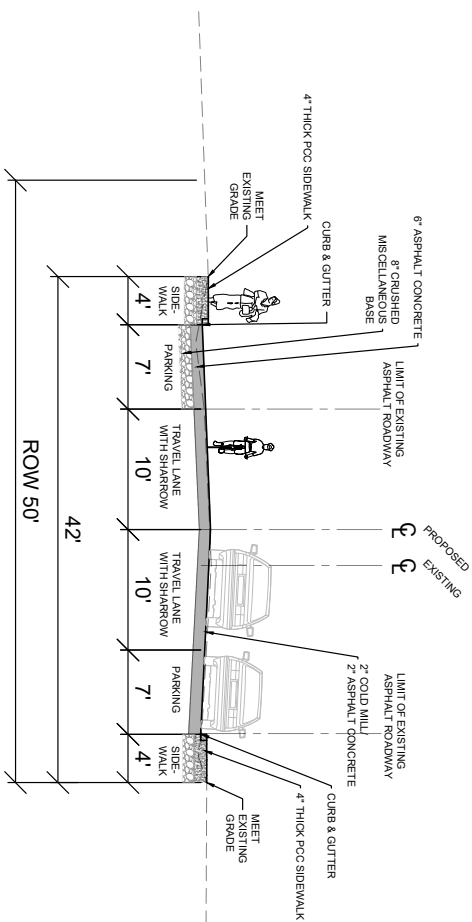


SECTION C:
LA MESA AVE, TYP, FROM MONTANA AVE
TO HARDENBROOK AVE



KEY MAP

SECTION D:
HARDENBROOK AVE, TYP. FROM LA MESA AVE
TO SHASTA DAM BLVD



Detailed Engineer's Estimate and Total Project Costs- Cycle 5 v1.3

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

Project Information:

Agency: Shasta Regional Transportation Agency

Date: 7/1/2020

Project Description: Ashby to Downtown

Project Location: Shasta Lake, CA

Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate: Steven Frieson, PE

License #: 42110

Engineer's Estimate and Cost Breakdown:

Engineer's Estimate (for Construction Items Only)

Cost Breakdown

ATP Eligible
Costs/Items

ATP Ineligible
Costs/Items

Corps/CCC
to construct

Item No.	Item	Quantity	Units	Unit Cost	Total Item Cost	%	\$	%	\$	%	\$
General Overhead-Related Construction Items											
1	Mobilization/ Demobilization	1	LS	\$275,000.00	\$275,000	100%	\$275,000				
2	Traffic Control (including Changeable Message Signs)	1	LS	\$125,000.00	\$125,000	100%	\$125,000				
3	Stormwater Control, SWPPP, & BMPs	1	LS	\$300,000.00	\$300,000	100%	\$300,000				
4	Permitting including fees (Caltrans and UPPR)	1	LS	\$75,000.00	\$75,000	100%	\$75,000				
5	Clearing and Grubbing	1	LS	\$350,000.00	\$350,000	100%	\$350,000				
6	Construction Staking	1	LS	\$150,000.00	\$150,000	100%	\$150,000				
7						100%					
8						100%					
9						100%					
10						100%					
General Construction Items											
11	Unclassified Excavation (Removal of AC, base, etc)	1	LS	\$650,000.00	\$650,000	100%	\$650,000				
12	Construct Curb Ramp	61	EA	\$5,000.00	\$305,000	100%	\$305,000				
13	6" AC Pavement	1674	TON	\$140.00	\$234,360	100%	\$234,360				
14	8" Crushed Miscellaneous Base	1910	CY	\$85.00	\$162,350	100%	\$162,350				
15	Coldmill (2" Max)	124650	SF	\$0.25	\$31,163	100%	\$31,163				
16	2" AC Overlay	1558	TON	\$140.00	\$218,120	100%	\$218,120				
17	Construct Curb and Gutter	8275	LF	\$45.00	\$372,375	100%	\$372,375				
18	Construct Shared Use Path (DG)	32575	SF	\$10.00	\$325,750	100%	\$325,750				
19	Construct 4" Thick Sidewalk (6-ft width)	40725	SF	\$12.50	\$509,063	100%	\$509,063				
20	30" CMP Extension	45	LF	\$225.00	\$10,125	100%	\$10,125				
21	48" CMP Extension	135	LF	\$250.00	\$33,750	100%	\$33,750				
22	15' x 4' Double Box Culvert Extension and Bridge Widening	1	LS	\$682,500.00	\$682,500	100%	\$682,500				
23	Existing Catch Basin Modification	4	EA	\$6,000.00	\$24,000	100%	\$24,000				
24	Construct Catch Basin	25	EA	\$7,500.00	\$187,500	100%	\$187,500				
25	Install 24" RCP	4320	LF	\$350.00	\$1,512,000	100%	\$1,512,000				
26	Valve, Meters, and Pullbox to grade	15	EA	\$450.00	\$6,750	100%	\$6,750				
27	Pavement Markings	720	SF	\$4.00	\$2,880	100%	\$2,880				
28	Thermoplastic High Visibility Crosswalks	3120	SF	\$5.00	\$15,600	100%	\$15,600				
29	Pavement Striping	29010	LF	\$2.50	\$72,525	100%	\$72,525				
30	Shared Bike Lane Marking	368	SF	\$4.00	\$1,472	100%	\$1,472				
31	Class II Bike Lane Marking	27	SF	\$4.00	\$108	100%	\$108				
32	Sign with new post	35	EA	\$250.00	\$8,750	100%	\$8,750				
33	Install Rectangular Rapid Flashing Beacon (RRFB)	2	EA	\$40,000.00	\$80,000	100%	\$80,000				
34	Landscape Understory (including drainage swales)	1	LS	\$500,000.00	\$500,000	100%	\$500,000				
35	Retaining Walls (Height Varies)	800	LF	\$200.00	\$160,000	100%	\$160,000				
36	Guardrail	300	LF	\$150.00	\$45,000	100%	\$45,000				
37								100%			
38								100%			
39								100%			
40								100%			
41								100%			
42								100%			
43								100%			
44								100%			
45								100%			
46								100%			
47								100%			
48								100%			
49								100%			
50								100%			
51								100%			
52								100%			
Subtotal of Construction Items:					\$7,426,140		\$7,426,140				

Construction Item Contingencies (% of Construction Items): 20.00% \$1,485,228

\$1,485,228

Total (Construction Items & Contingencies) cost: \$8,911,368

\$8,911,368

Project Delivery Costs:

Type of Project Cost

Cost \$

Preliminary Engineering (PE)

Environmental Studies and Permits(PA&ED): \$ 600,000

Plans, Specifications and Estimates (PS&E): \$ 1,367,000

Total PE: \$ 1,967,000

ATP Eligible Costs

\$600,000

\$1,367,000

\$1,967,000

Non-participating Costs

"PE" costs / "CON" costs

22% 25% Max

Right of Way (RW)

Right of Way Engineering:

Acquisitions and Utilities:

Detailed Engineer's Estimate and Total Project Costs- Cycle 5 v1.3

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

Project Information:

Agency: Shasta Regional Transportation Agency

Date: 7/1/2020

Project Description: Ashby to Downtown

Project Location: Shasta Lake, CA

Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate: Steven Frieson, PE

License #: 42110

Total RW: \$ -

Construction Engineering (CE)

Construction Engineering (CE): \$ 1,200,000

\$1,200,000

"CE" costs / "CON" costs

13% 15% Max

(PE+RW+CE) Total Project Delivery: \$3,167,000

\$3,167,000

Total Construction Costs: \$8,911,368

\$8,911,368

Total Project Cost: \$12,078,368

ATP Eligible Costs

Non-participating Costs

\$12,078,368

Documentation of Ineligible (Non-Participating) Costs:

The Engineer's logic and/or calculations for splitting costs between ATP-Eligible and Non-participating costs must be documented in this section of the Estimate form.

Separate logic is required for each item which is partly ineligible for ATP funding or is required for the construction of an ineligible item/element of the project.

Item #: Description of Engineer's Logic: (See examples shown in the Instructions)