

Appendix E



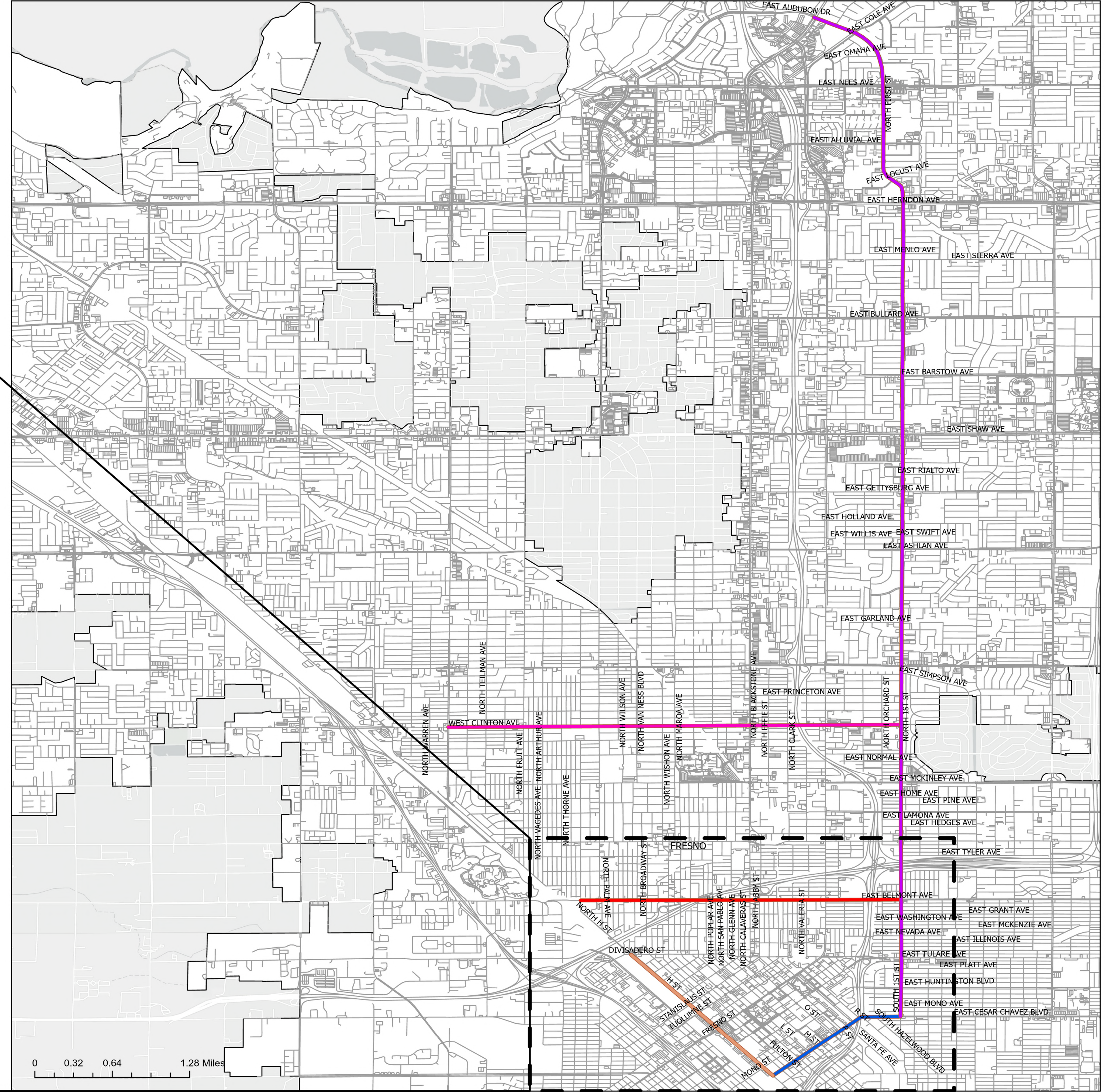
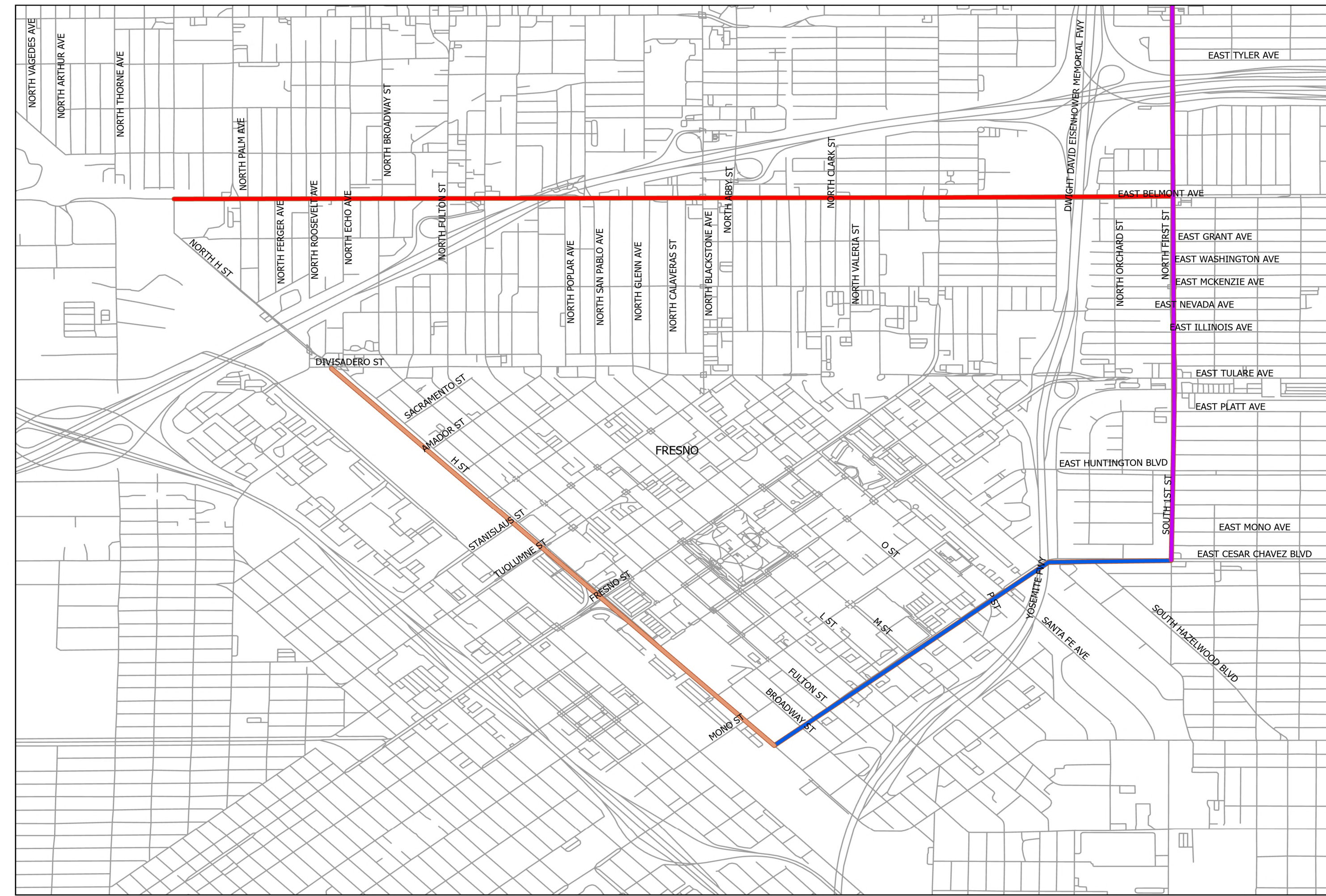
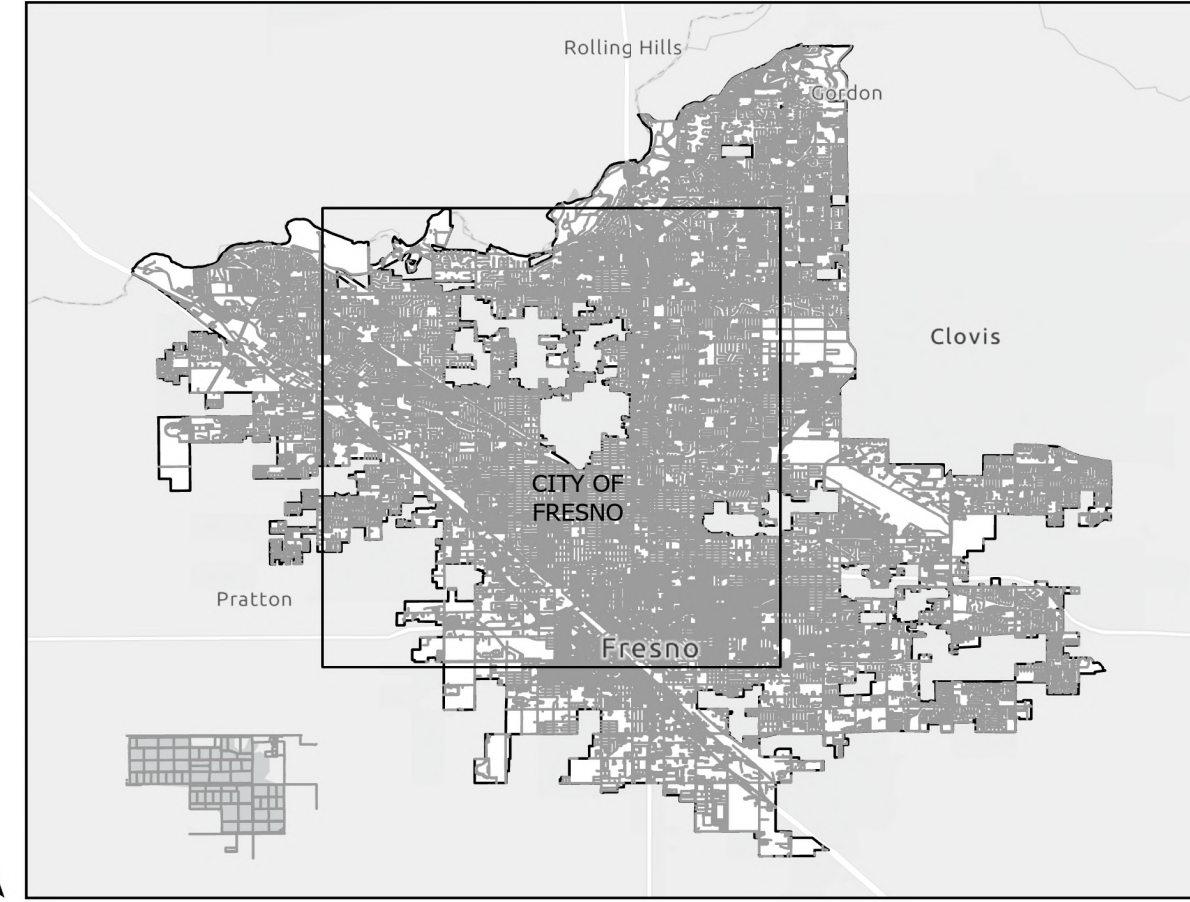
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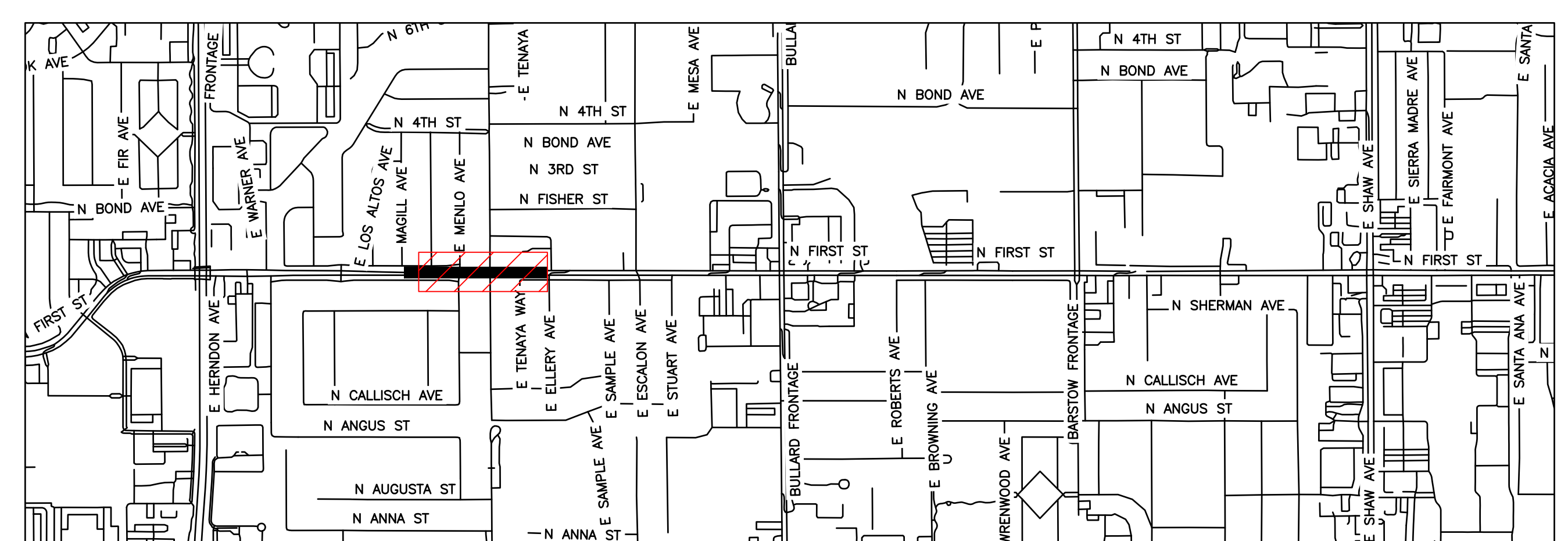
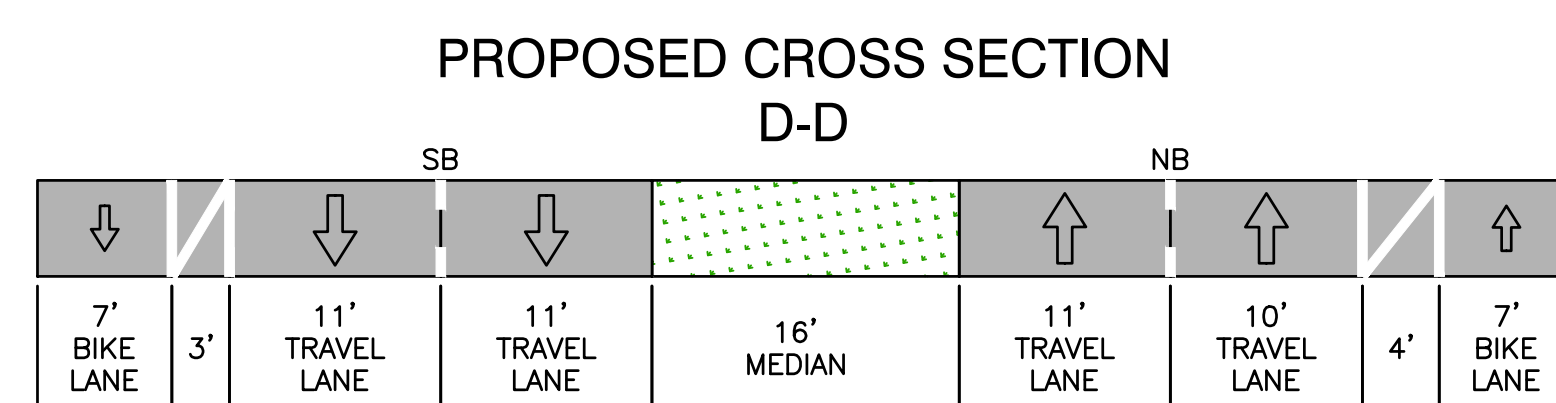
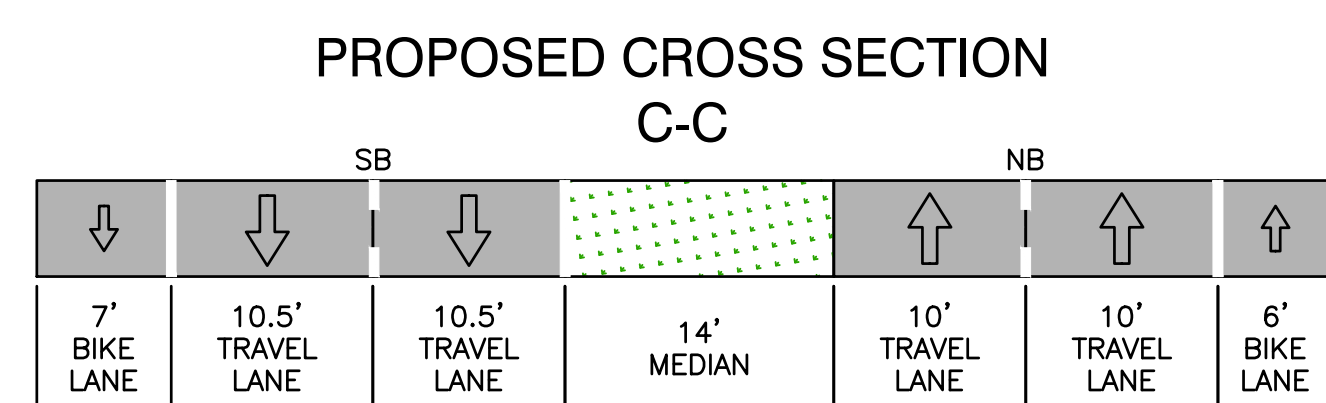
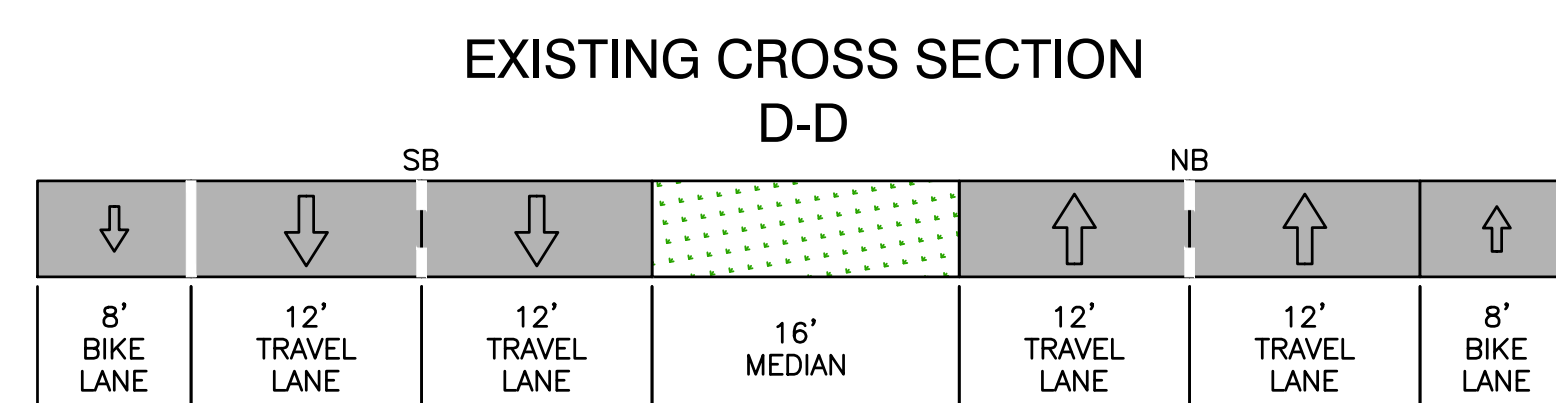
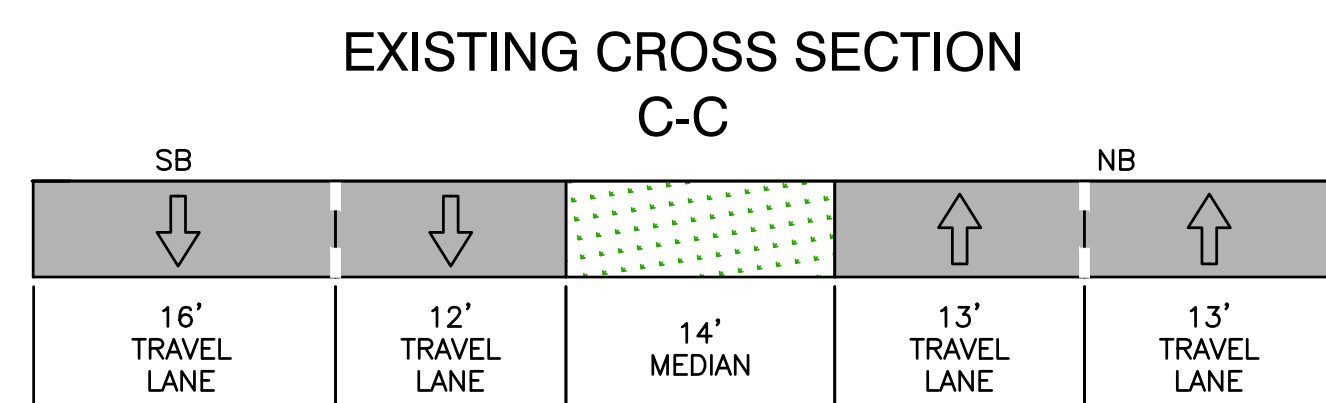
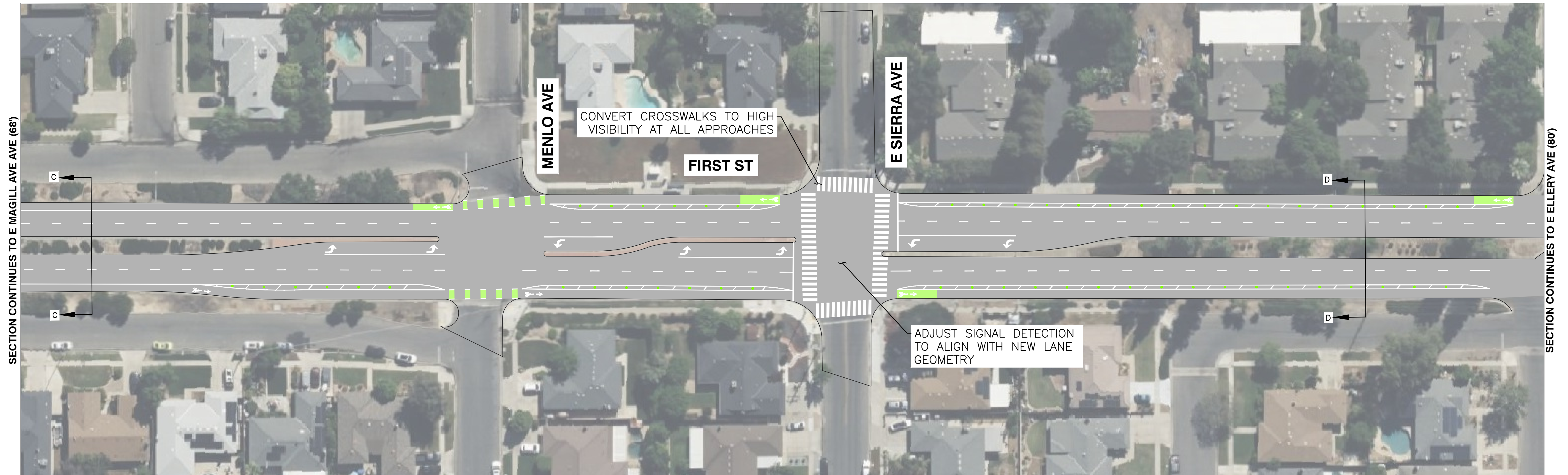
BIKEWAY IMPROVEMENTS

ACTIVE TRANSPORTATION PLAN

Project Locations
SEGMENT

- BELMONT AVE: H ST TO N FIRST ST
- CLINTON AVE: WEST AVE TO N FIRST ST
- E CESAR CHAVEZ BLVD: H ST TO N FIRST ST
- FIRST ST: N FRIANT RD TO E CESAR CHAVEZ BLVD
- H ST: DIVISADERO ST TO E CESAR CHAVEZ BLVD

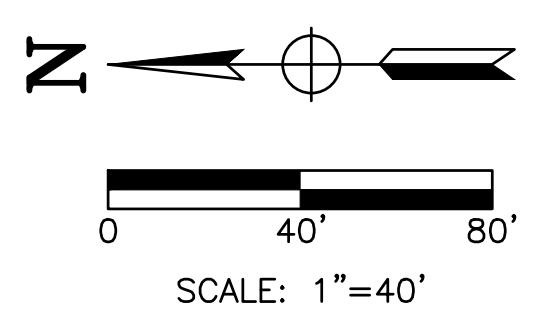


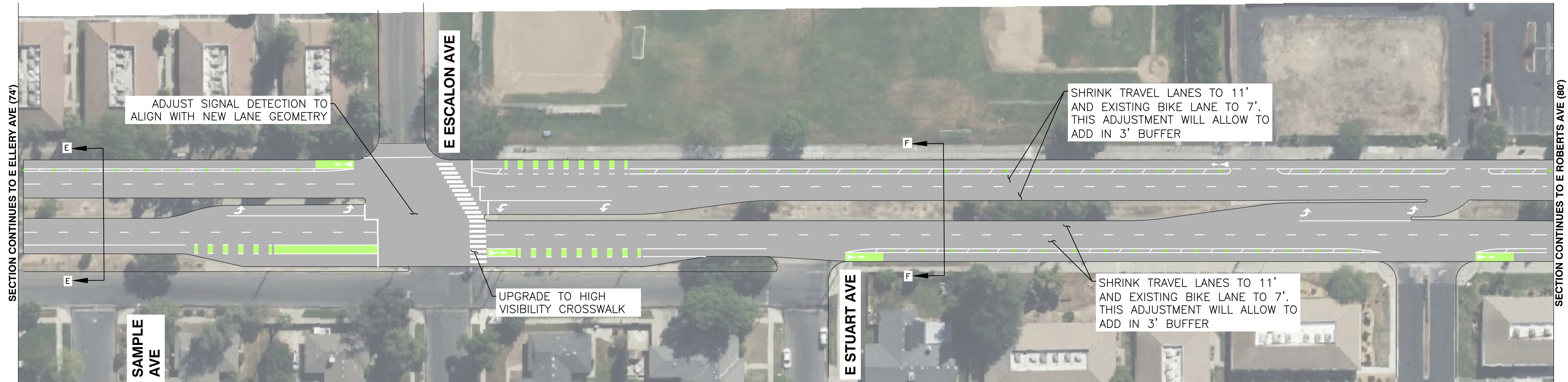


FIRST ST: E MAGILL AVE TO MENLO AVE (68')

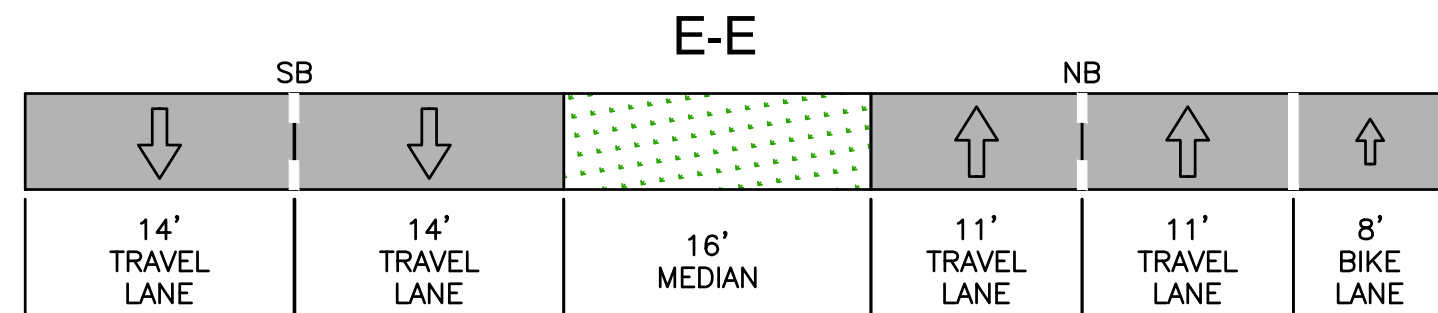
FIRST ST: E MENLO AVE TO E ELLERY AVE (80')

KEY MAP
NOT TO SCALE

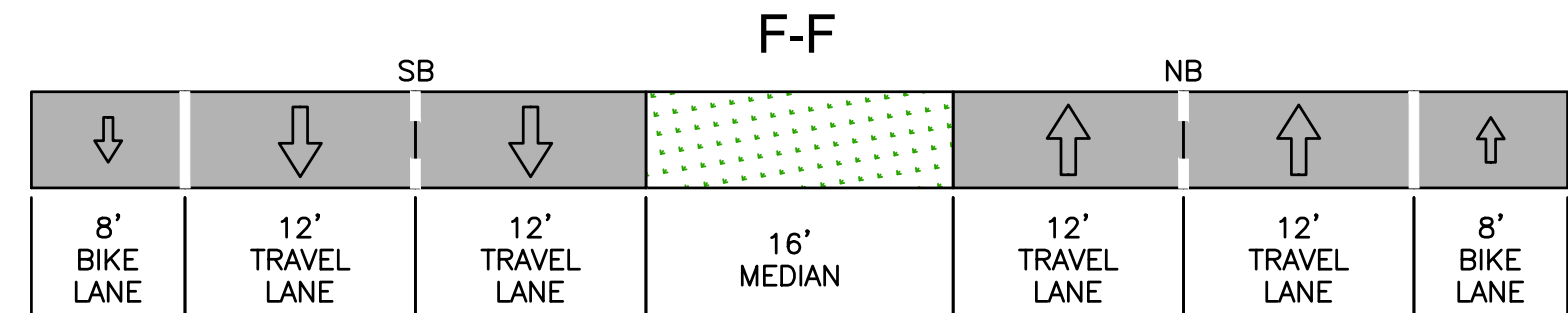




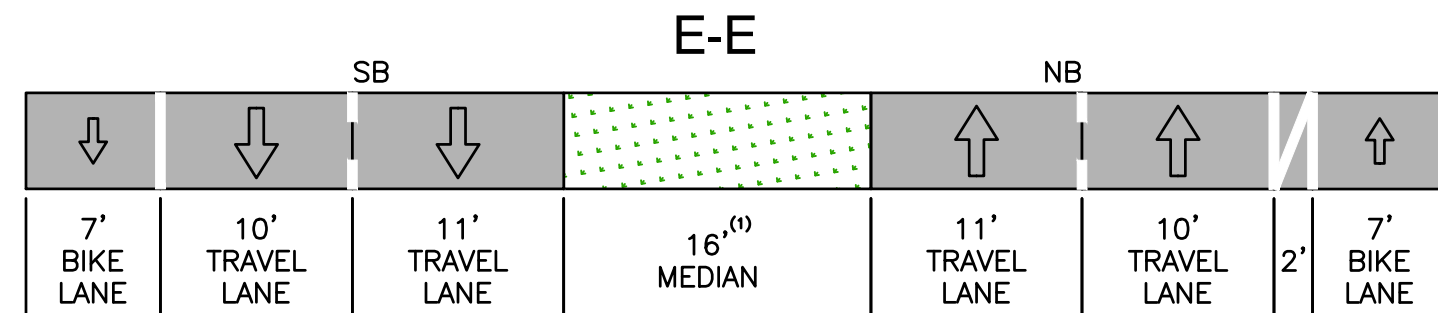
EXISTING CROSS SECTION



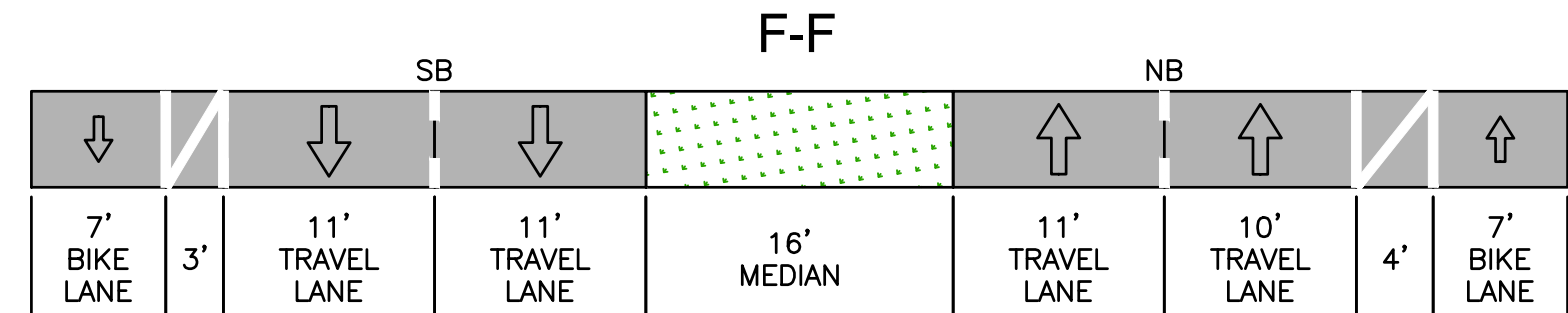
EXISTING CROSS SECTION



PROPOSED CROSS SECTION

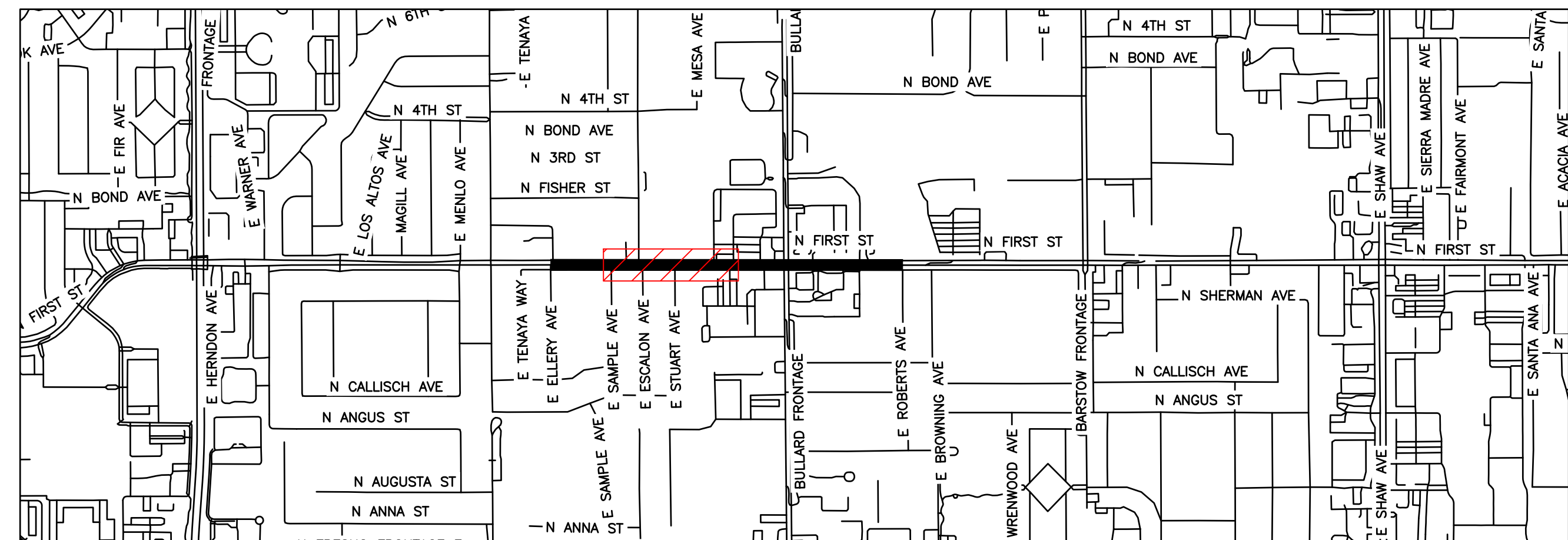


PROPOSED CROSS SECTION



FIRST ST: E ELLERY AVE TO E STUART AVE
(74')

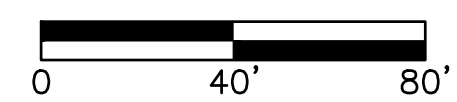
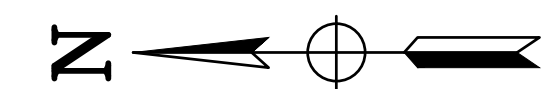
FIRST ST: E STUART AVE TO E ROBERTS AVE
(80')



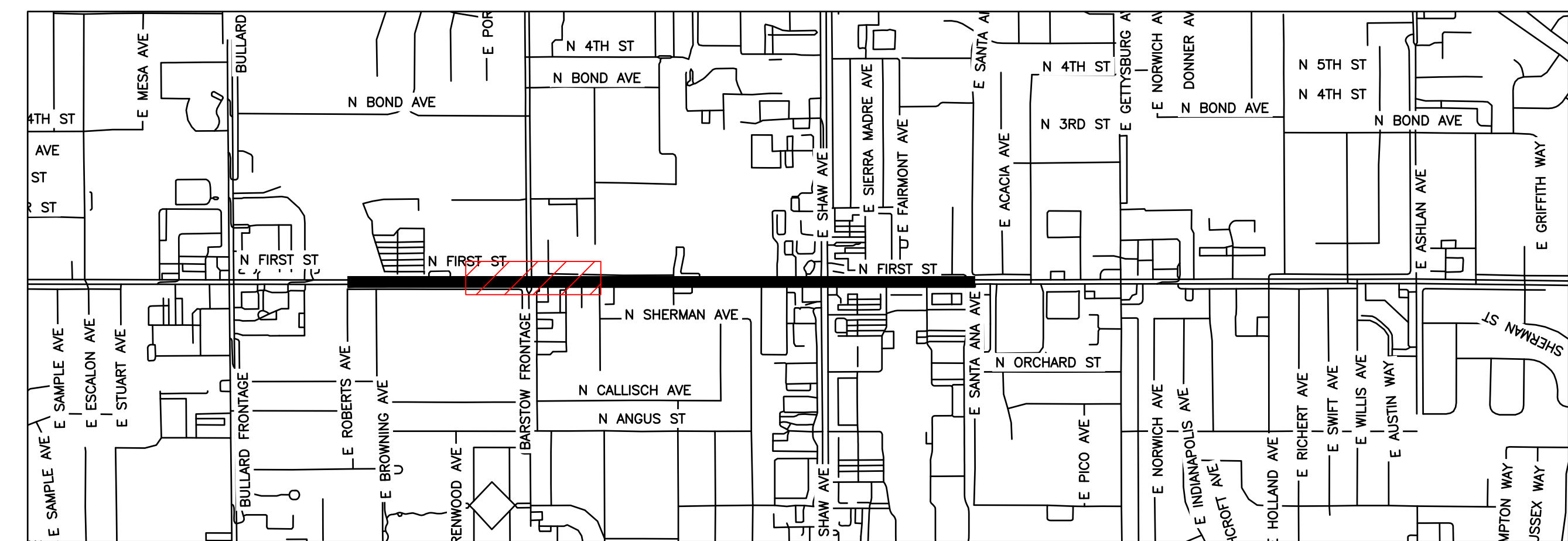
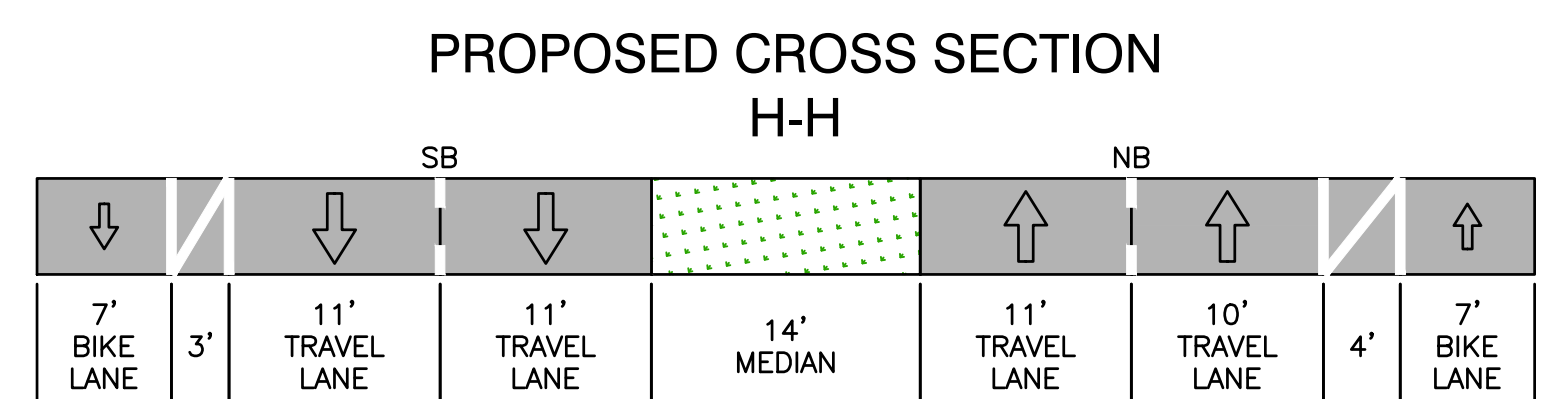
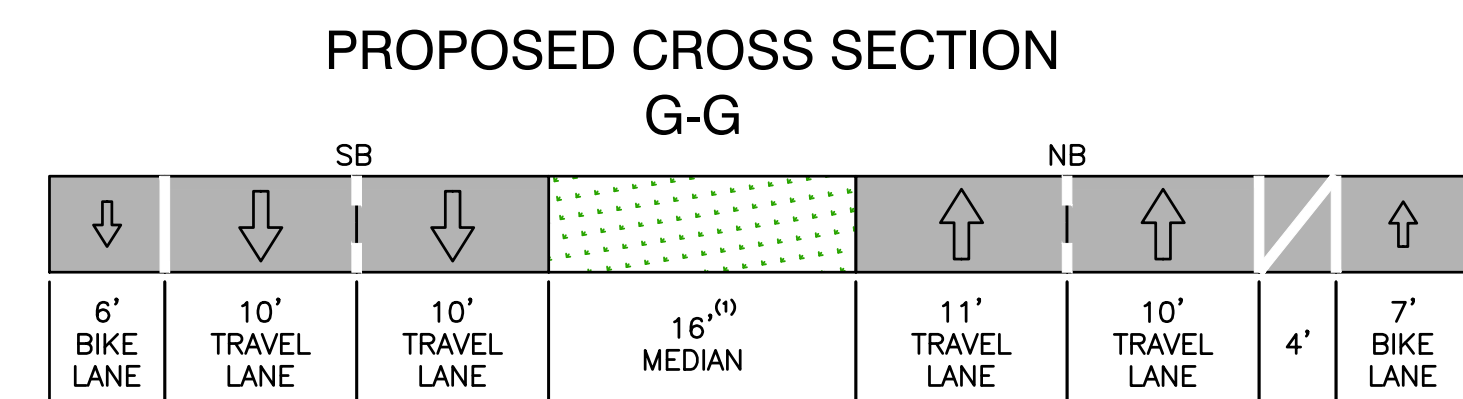
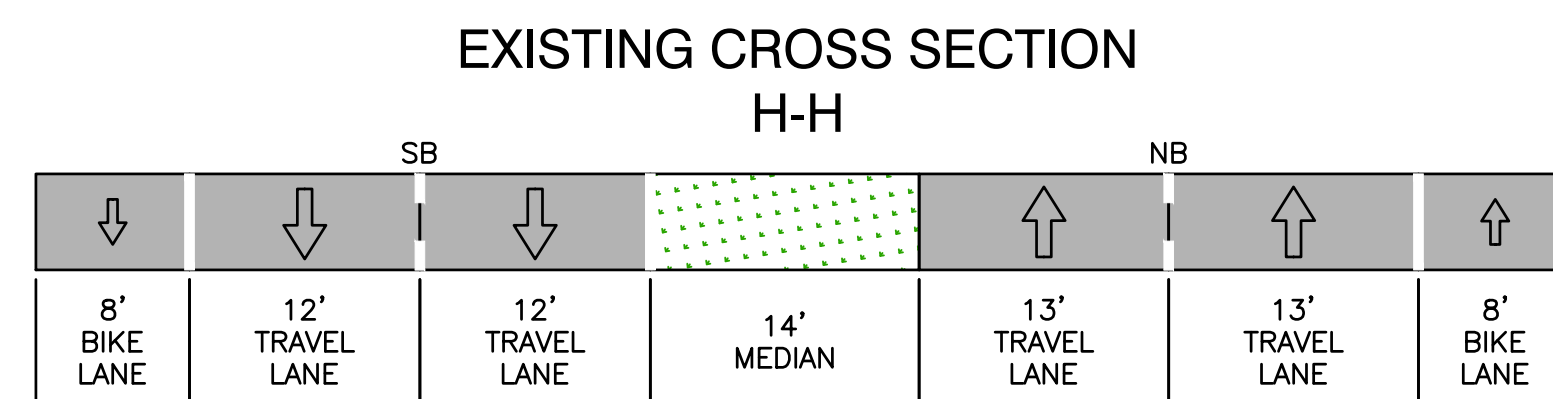
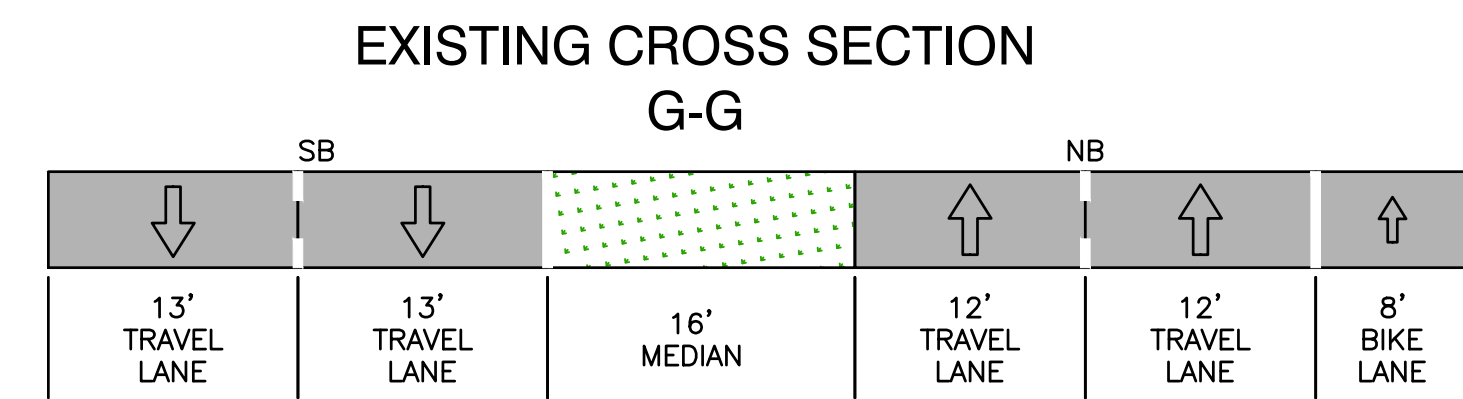
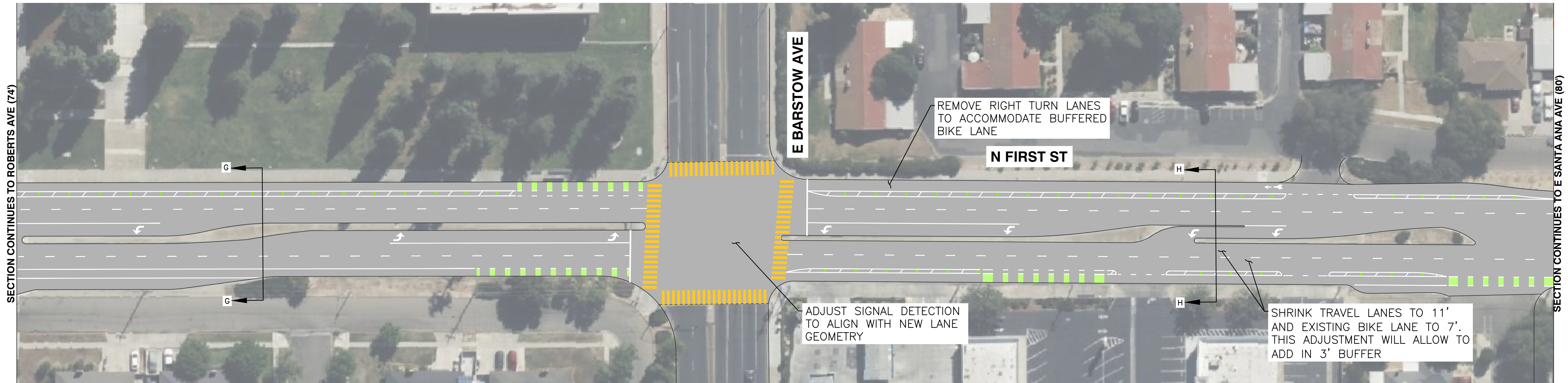
KEY MAP
NOT TO SCALE

NOTE:

(1) MEDIAN WIDTH REDUCTION REQUIRED TO ACCOMMODATE BUFFER SEPARATED BIKE LANE IN SOUTHBOUND DIRECTION.



SCALE: 1"=40'

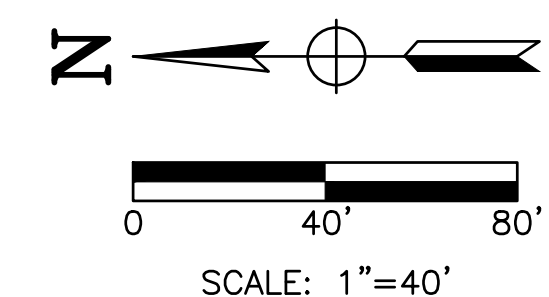


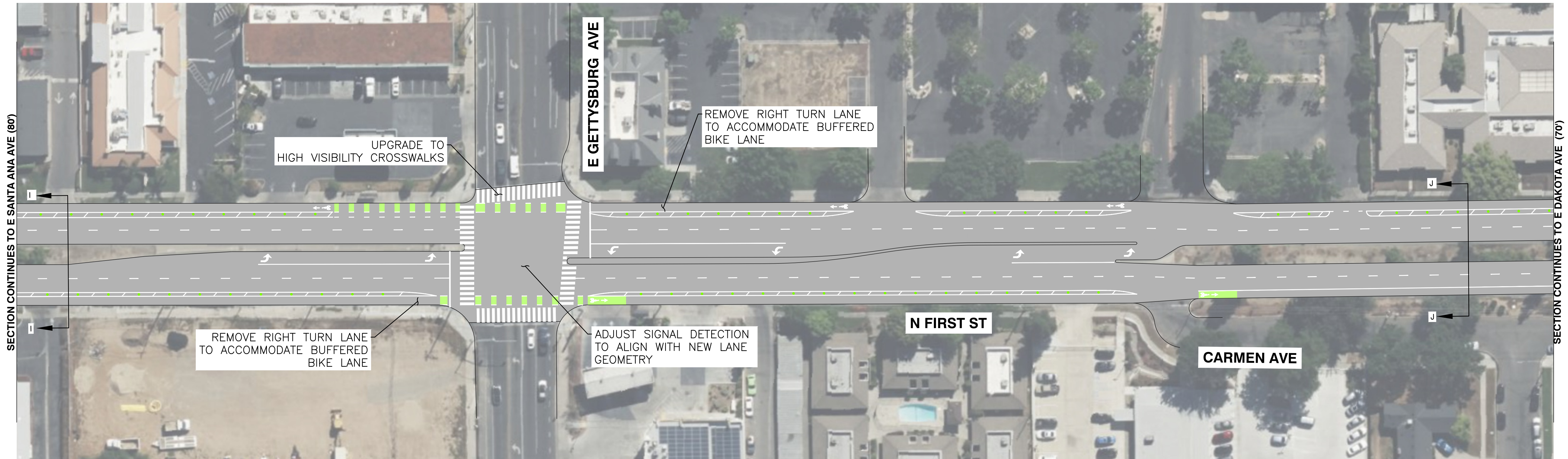
FIRST ST: ROBERTS AVE TO BARSTOW AVE (74')

FIRST ST: BARSTOW AVE TO E SANTA ANA AVE (80')

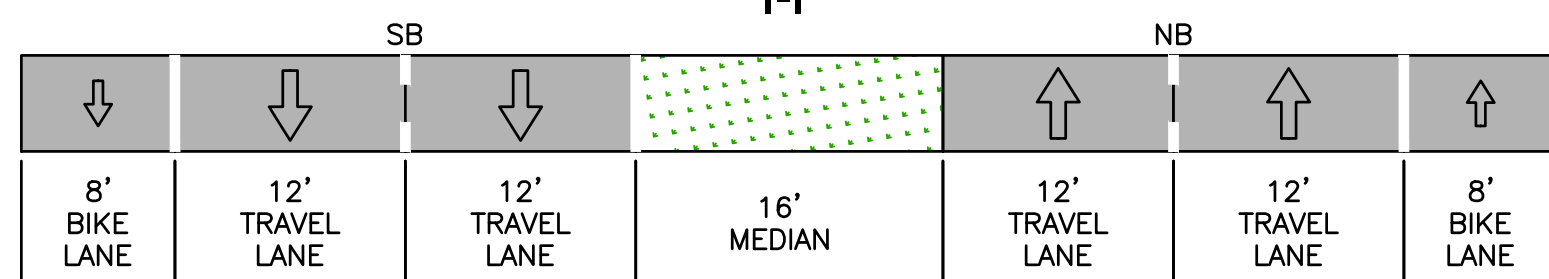
KEY MAP NOT TO SCALE

NOTE:
 (1) MEDIAN WIDTH REDUCTION REQUIRED TO ACCOMMODATE BUFFER SEPARATED BIKE LANE IN SOUTHBOUND DIRECTION

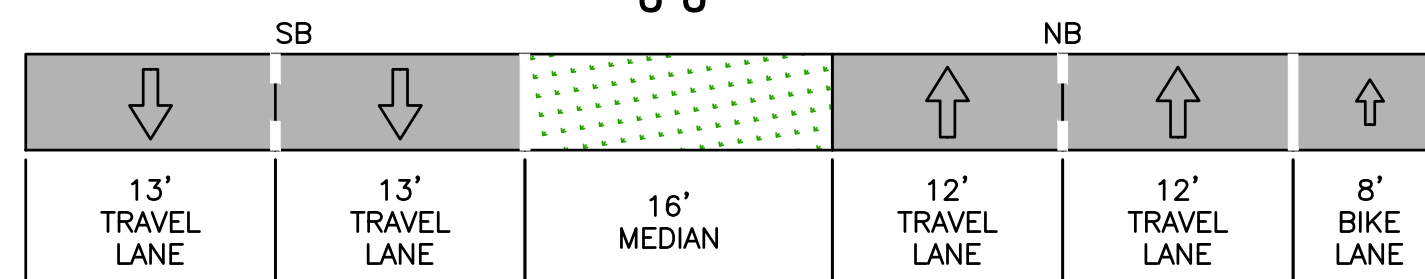




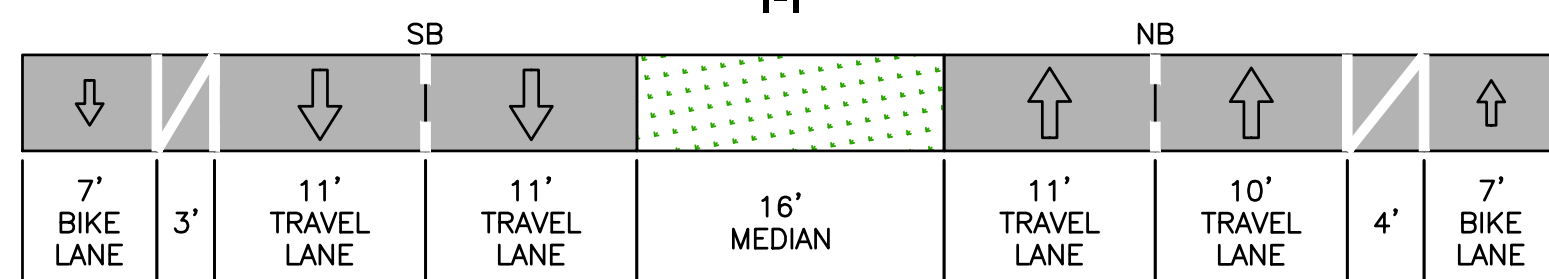
EXISTING CROSS SECTION I-I



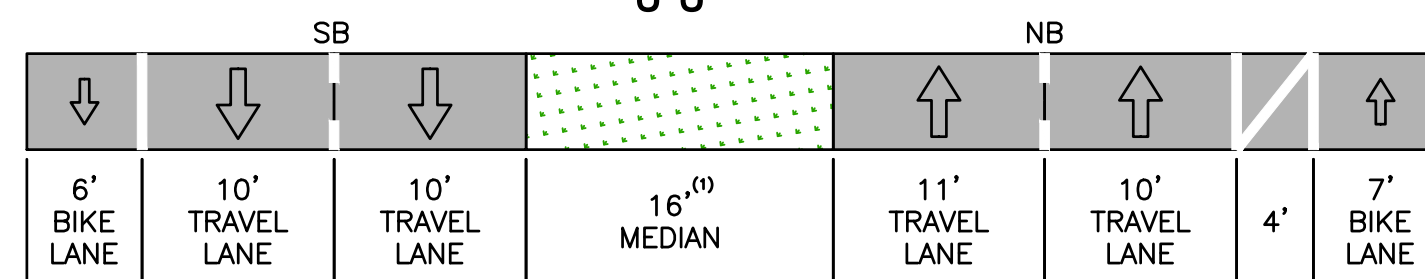
EXISTING CROSS SECTION J-J



PROPOSED CROSS SECTION I-I



PROPOSED CROSS SECTION J-J

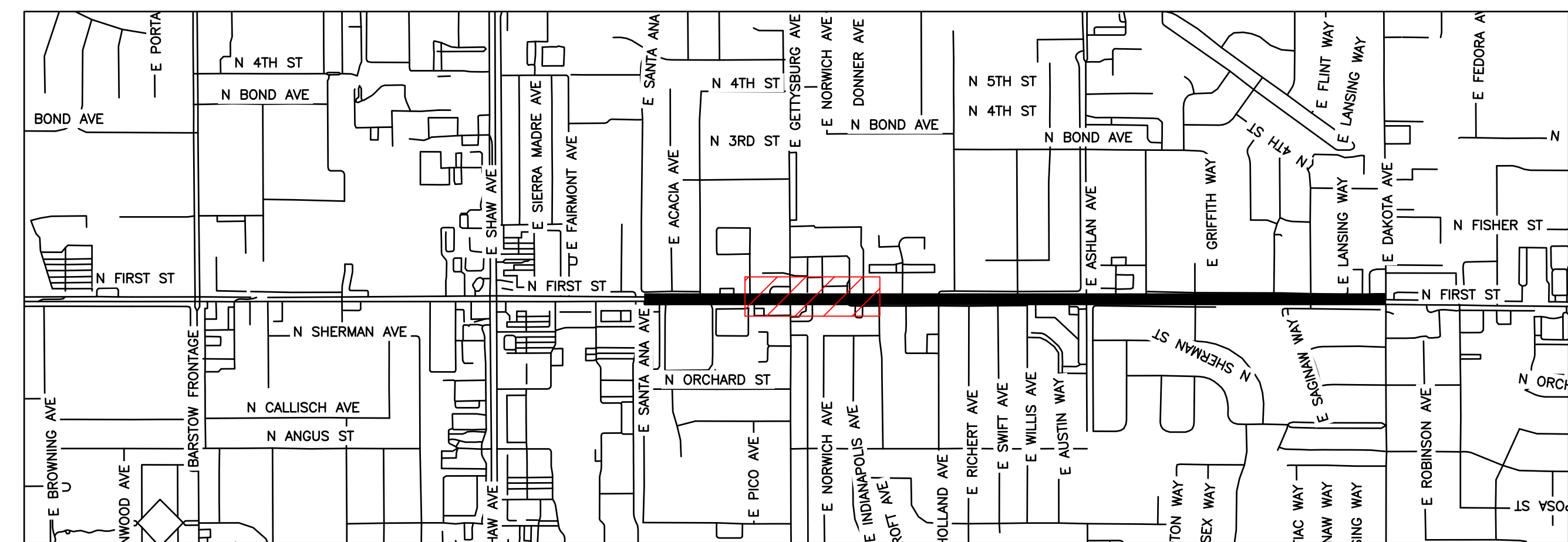


FIRST ST: E SANTA ANA AVE TO GETTYSBURG AVE (80')

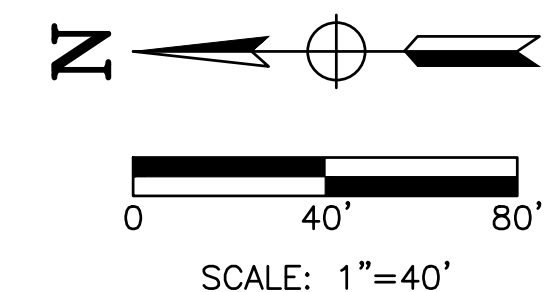
FIRST ST: E GETTYSBURG AVE TO E DAKOTA AVE (74')

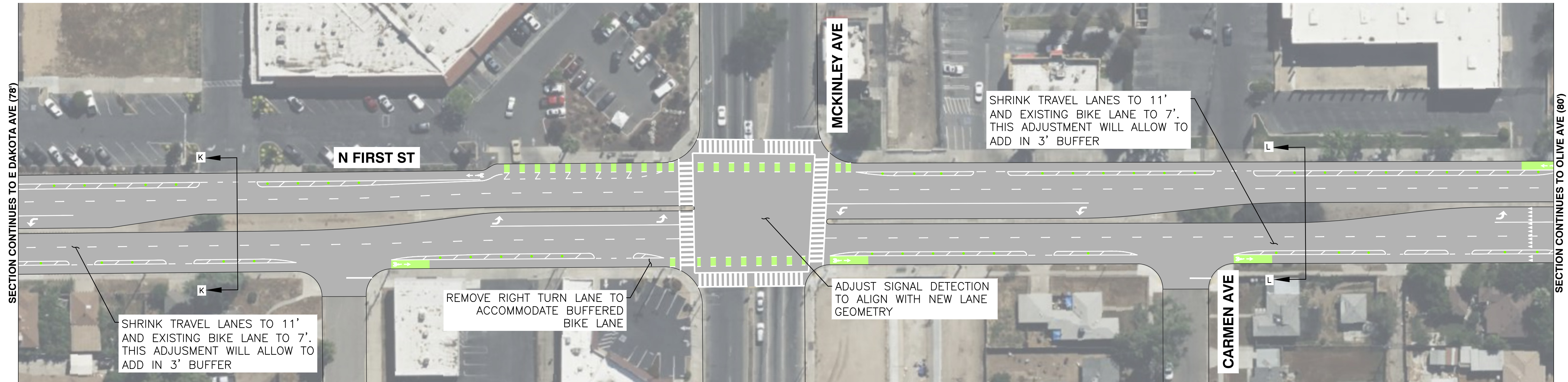
NOTE:

(1) MEDIAN WIDTH REDUCTION REQUIRED TO ACCOMMODATE BUFFER SEPARATED BIKE LANE IN SOUTHBOUND DIRECTION



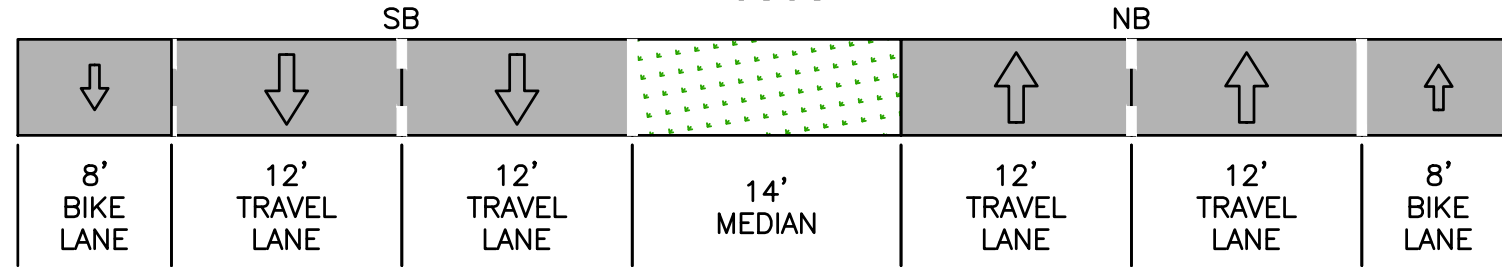
KEY MAP NOT TO SCALE





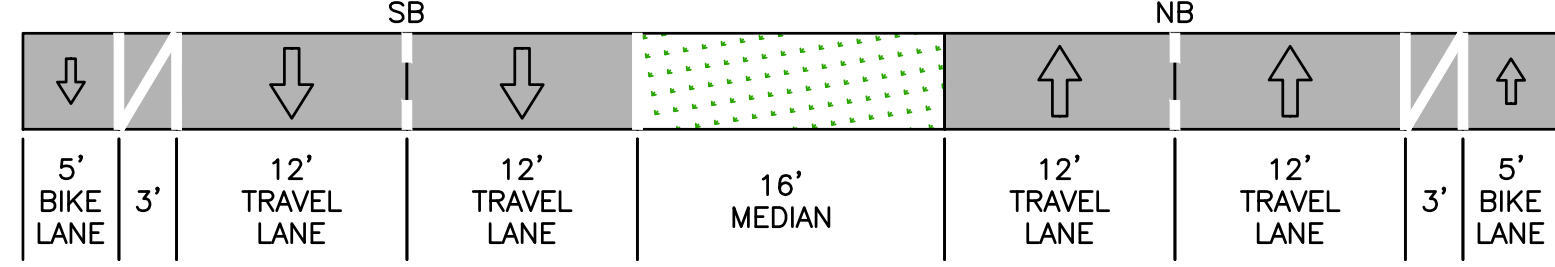
EXISTING CROSS SECTION

K-K



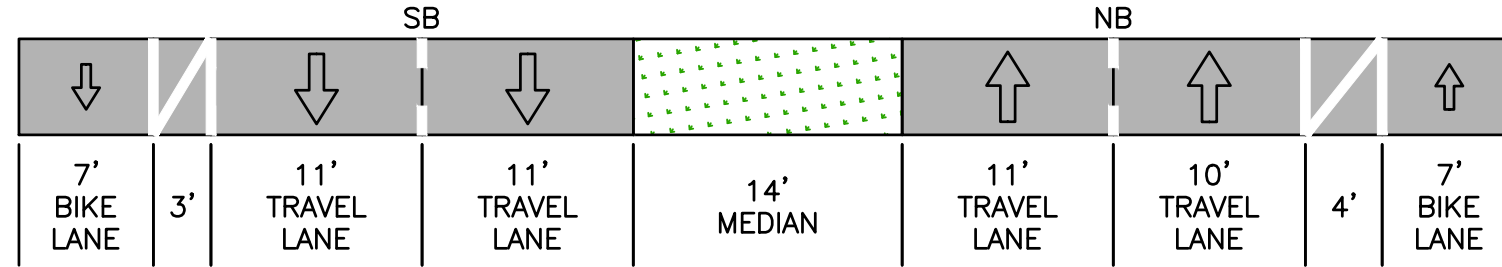
EXISTING CROSS SECTION

L-L



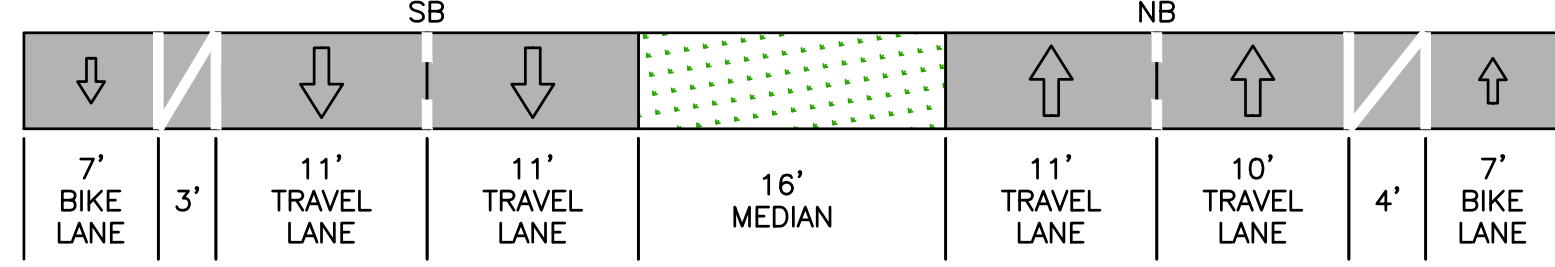
PROPOSED CROSS SECTION

K-K



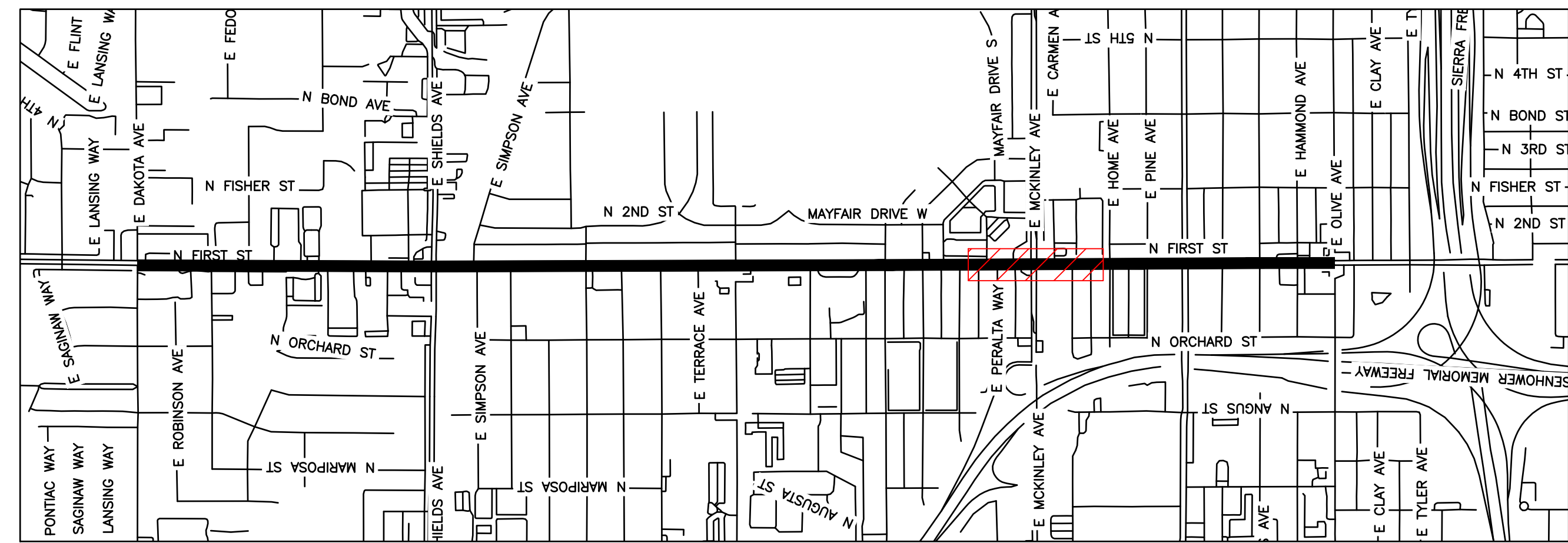
PROPOSED CROSS SECTION

L-L

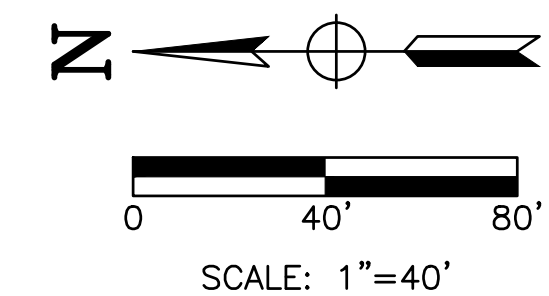


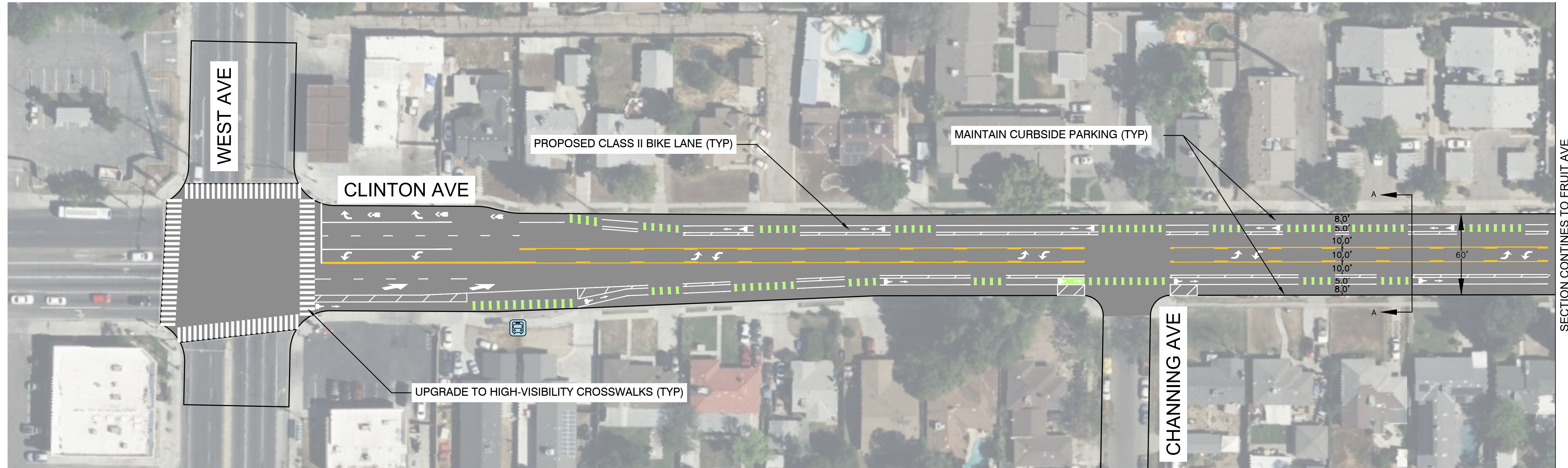
FIRST ST: E DAKOTA AVE TO MCKINLEY AVE
(78')

FIRST ST: MCKINLEY AVE TO OLIVE AVE
(80')

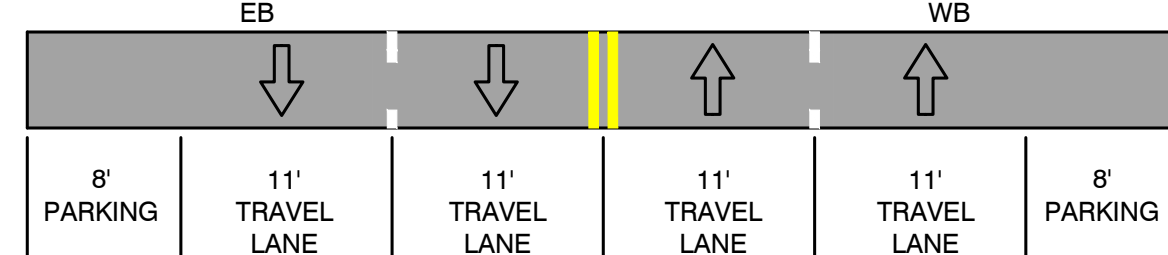


KEY MAP
NOT TO SCALE

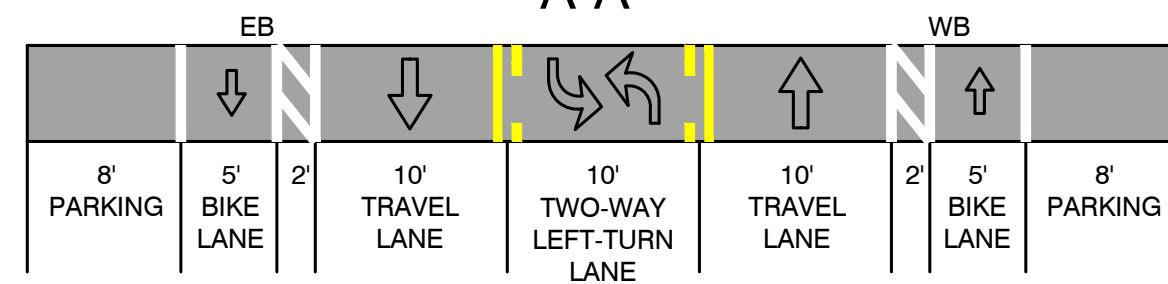




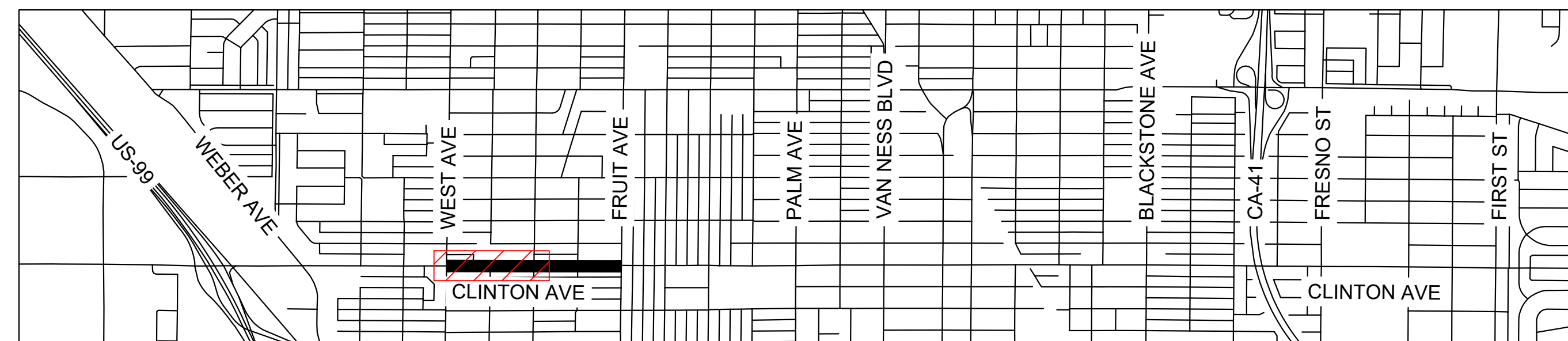
EXISTING CROSS SECTION
A-A



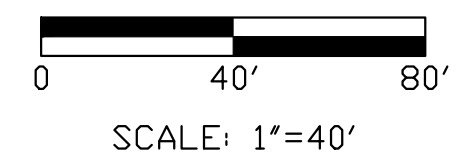
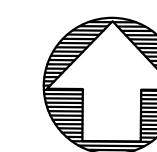
PROPOSED CROSS SECTION
A-A

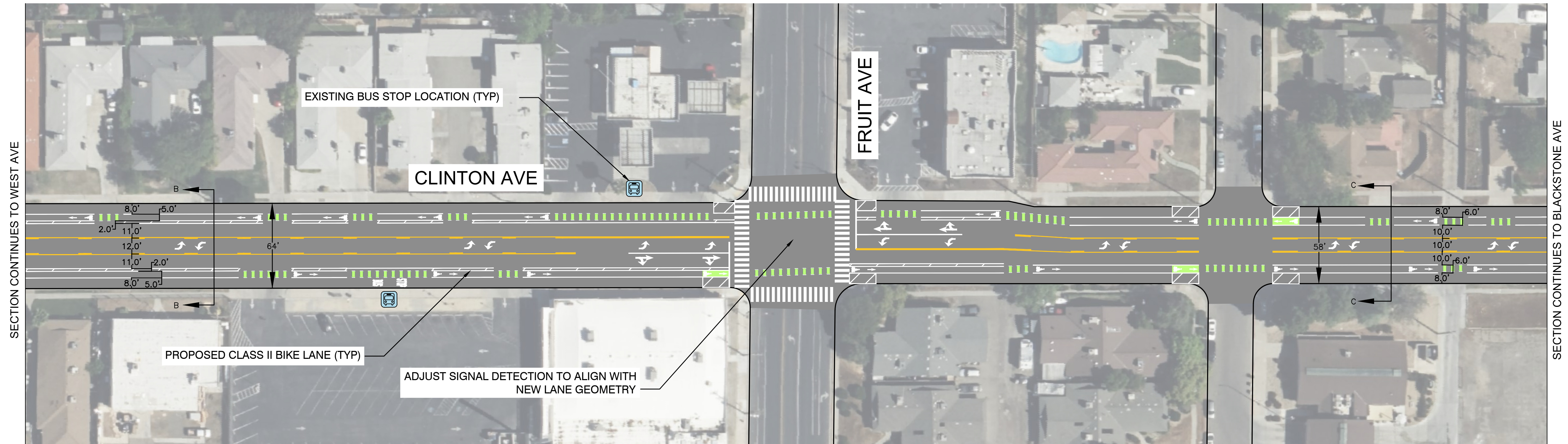


CLINTON AVE: WEST AVE TO N DELNO AVE
(60')

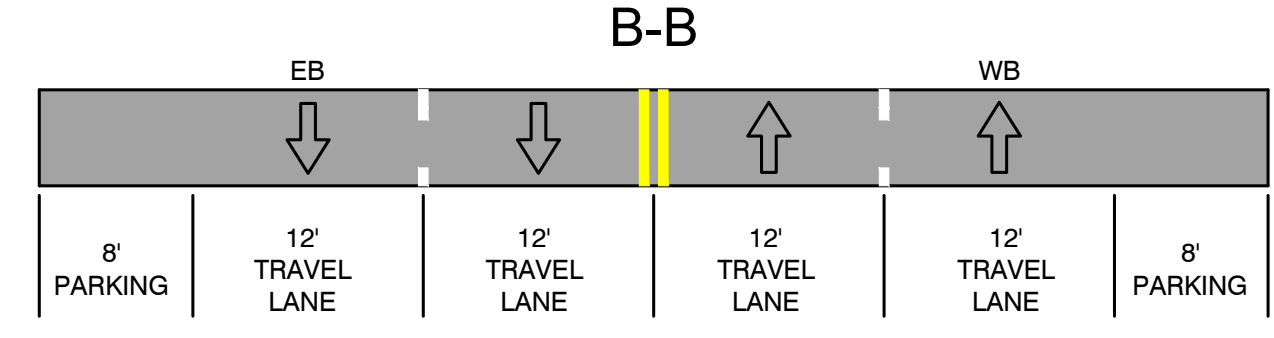


KEY MAP
NOT TO SCALE

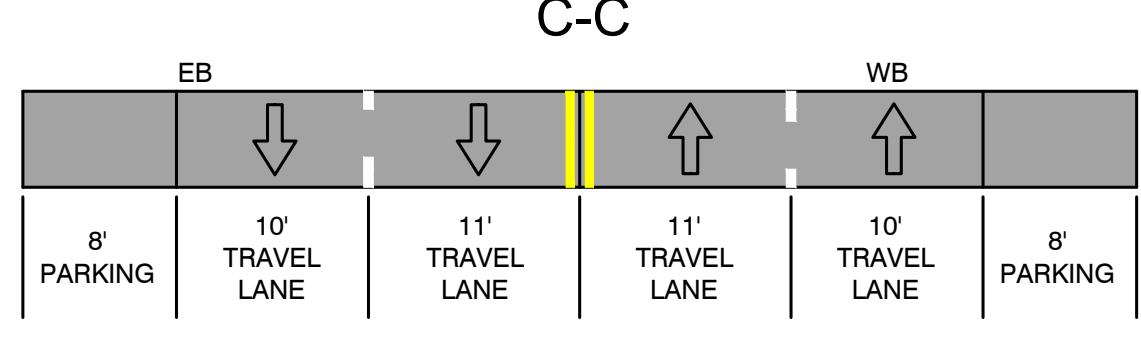




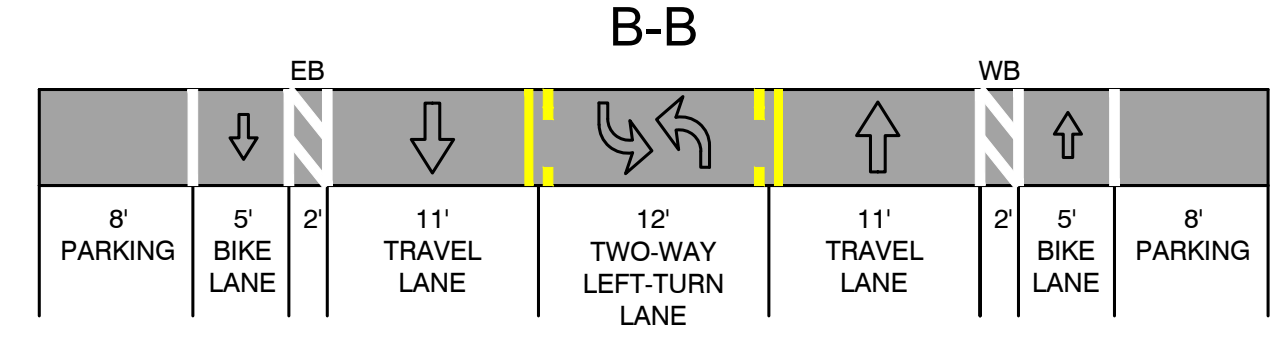
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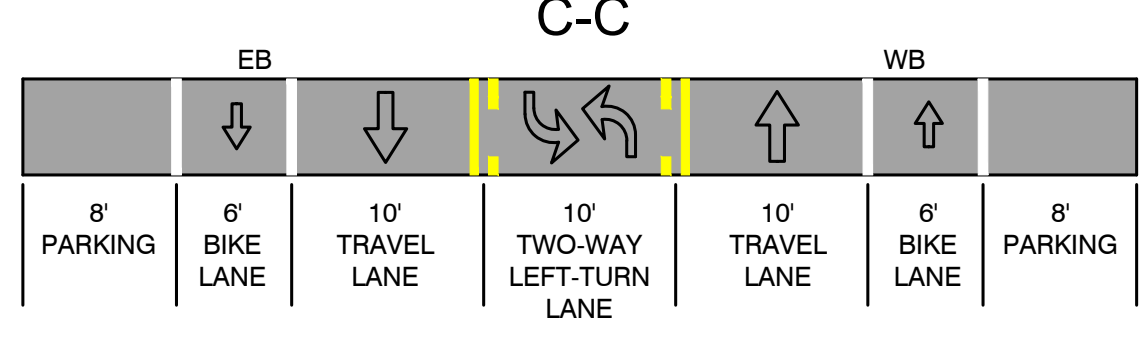
EXISTING CROSS SECTION



PROPOSED CROSS SECTION

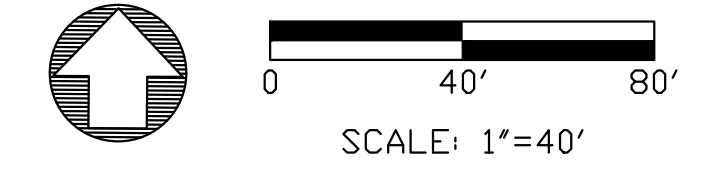
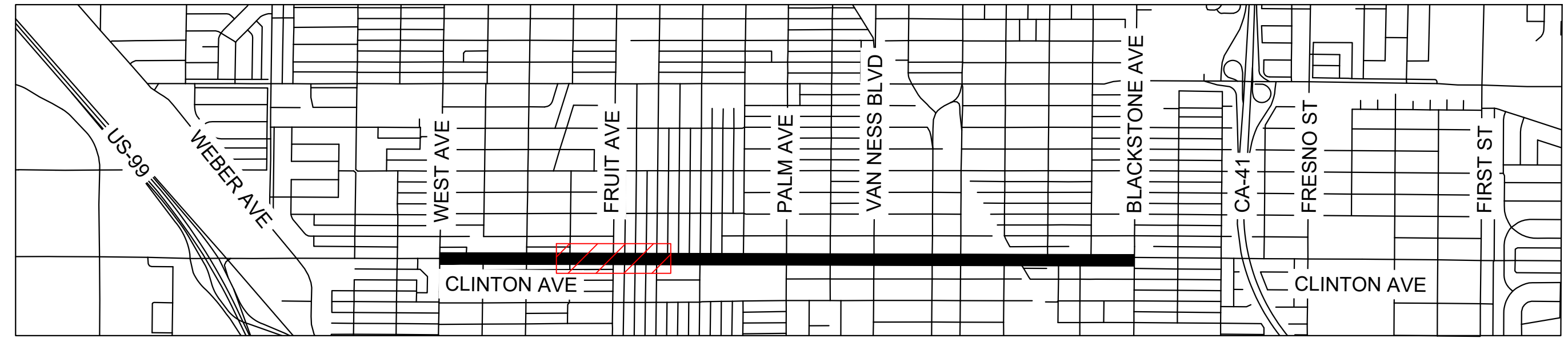


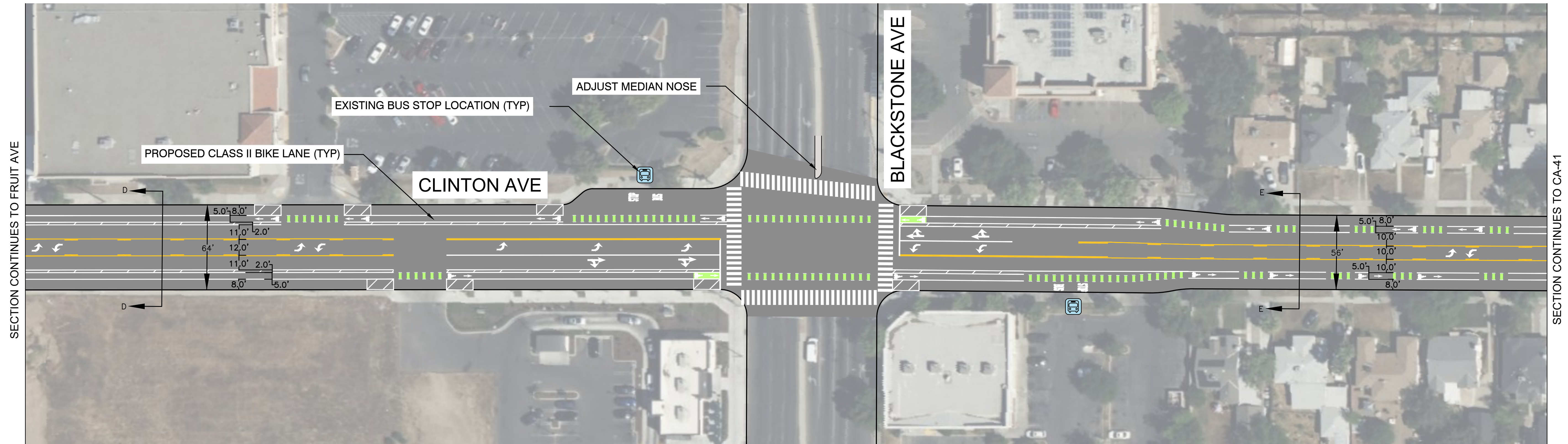
PROPOSED CROSS SECTION



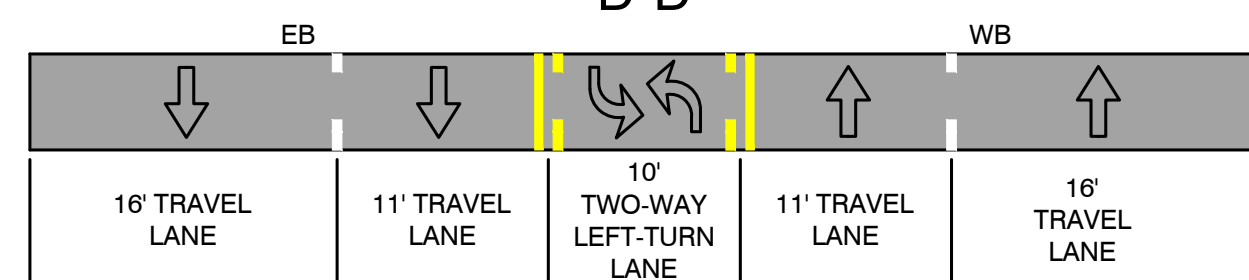
CLINTON AVE: DELNO AVE TO FRUIT AVE
(64')

CLINTON AVE: FRUIT AVE TO BLACKSTONE AVE
(58'-64')

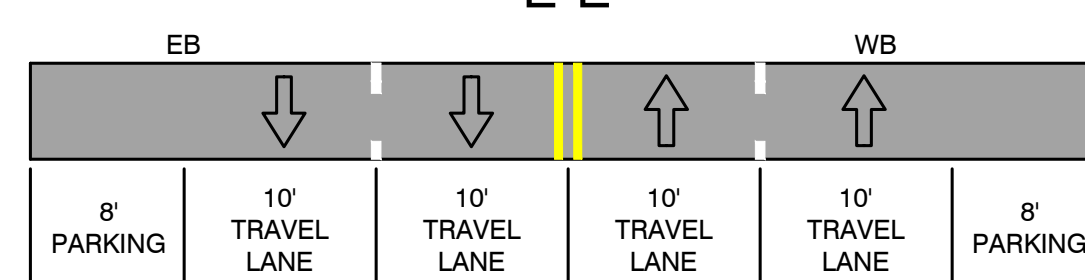




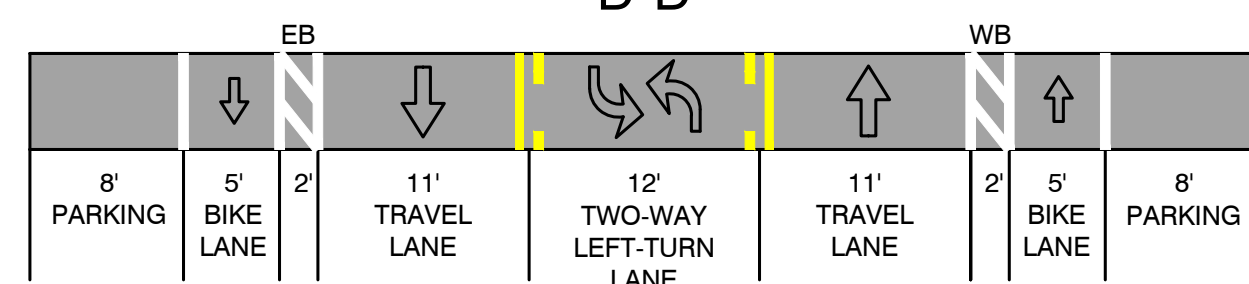
EXISTING CROSS SECTION
D-D



EXISTING CROSS SECTION
E-E

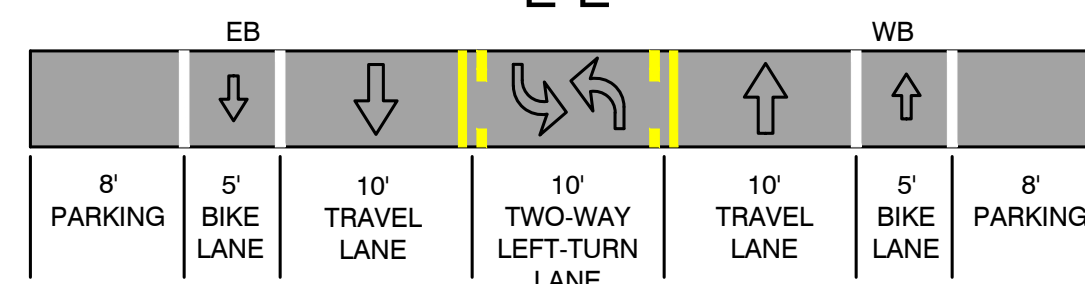


PROPOSED CROSS SECTION
D-D

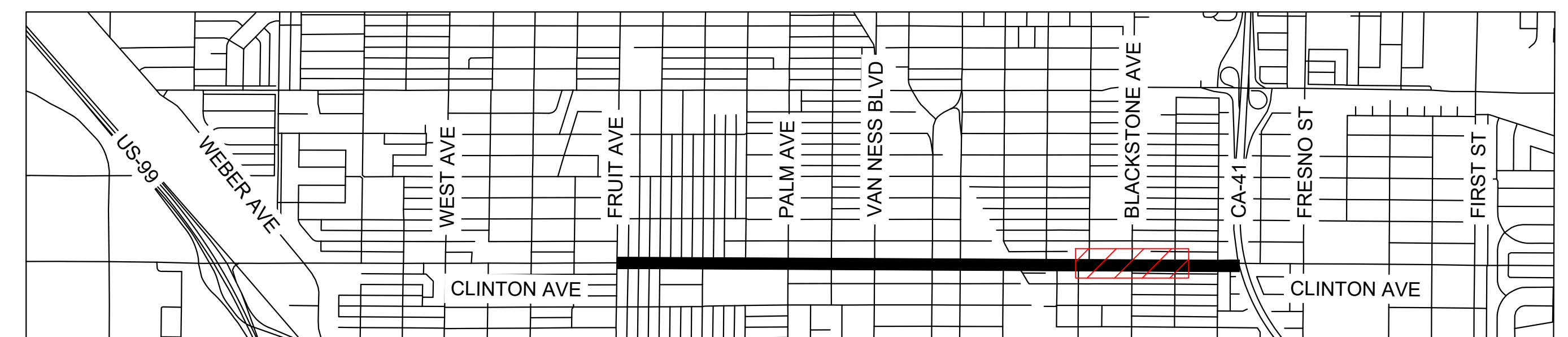


CLINTON AVE: FRUIT AVE TO BLACKSTONE AVE
(58'-64')

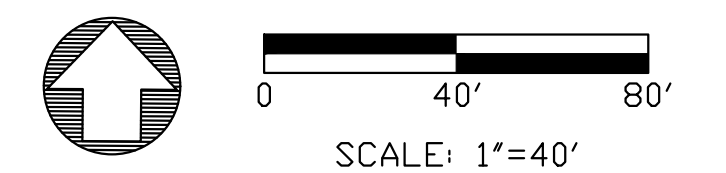
PROPOSED CROSS SECTION
E-E

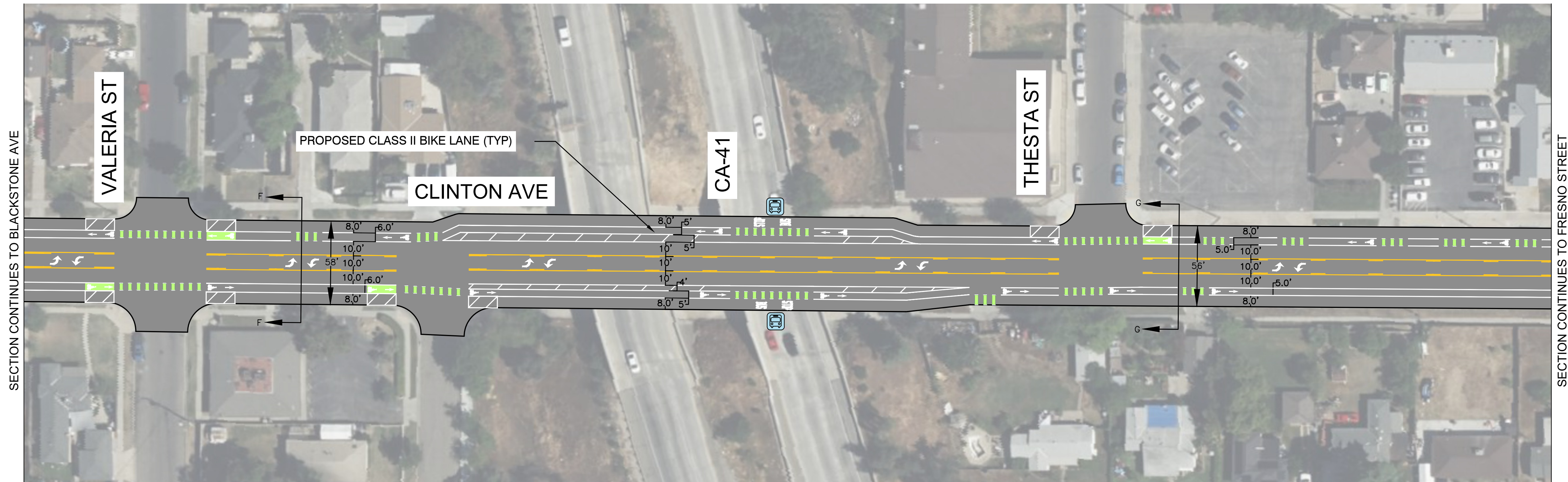


CLINTON AVE: BLACKSTONE AVE TO CA-41
(56'-58')



KEY MAP
NOT TO SCALE

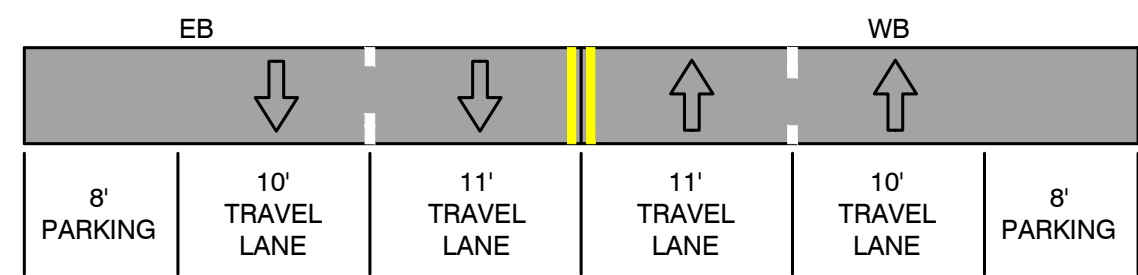




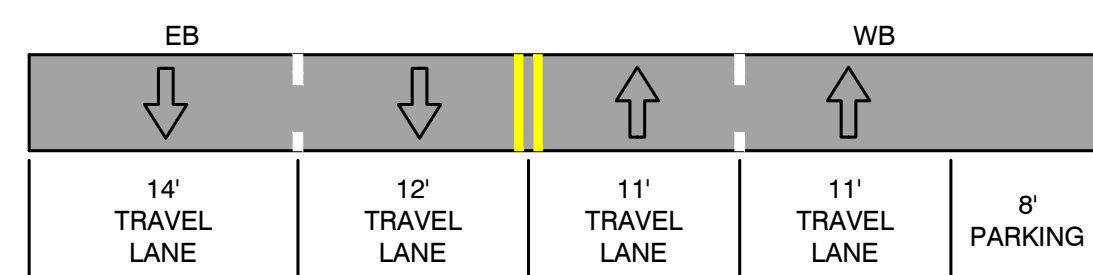
SECTION CONTINUES TO BLACKSTONE AVE

SECTION CONTINUES TO FRESNO STREET

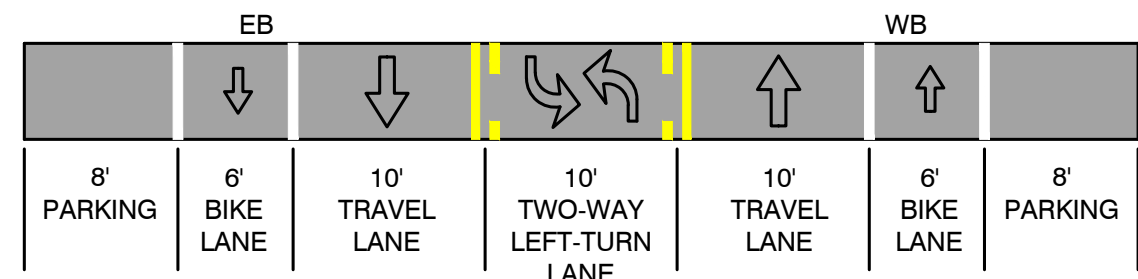
EXISTING CROSS SECTION
F-F



EXISTING CROSS SECTION
G-G

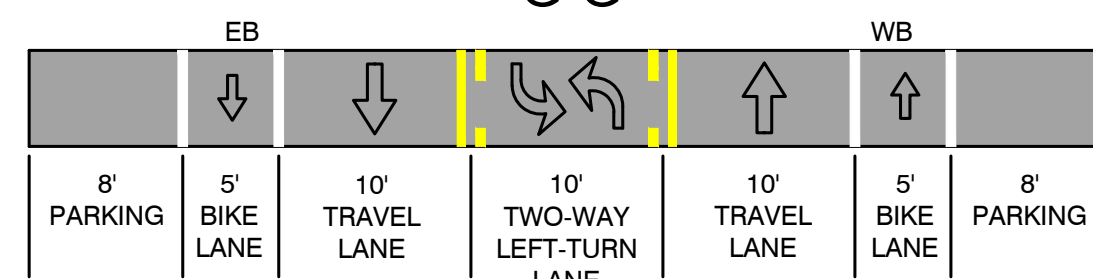


PROPOSED CROSS SECTION
F-F

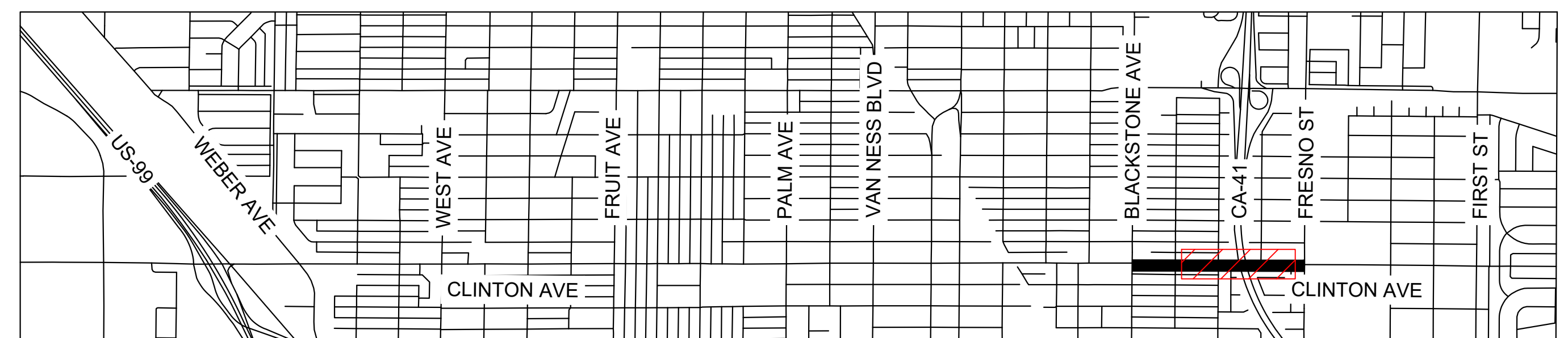


CLINTON AVE: BLACKSTONE AVE TO CA-41
(56'-58')

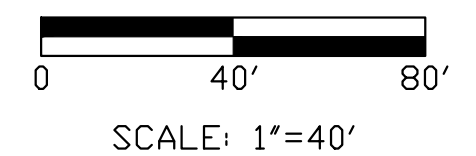
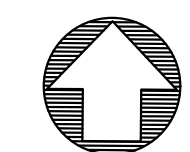
PROPOSED CROSS SECTION
G-G



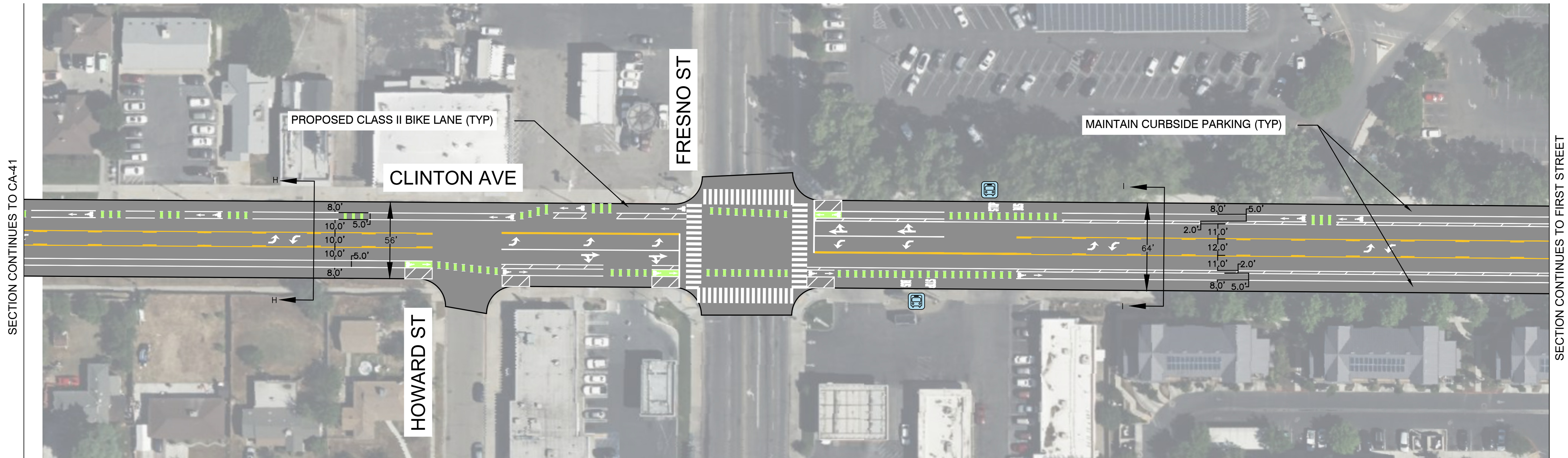
CLINTON AVE: CA-41 TO FRESNO ST
(56')



KEY MAP
NOT TO SCALE

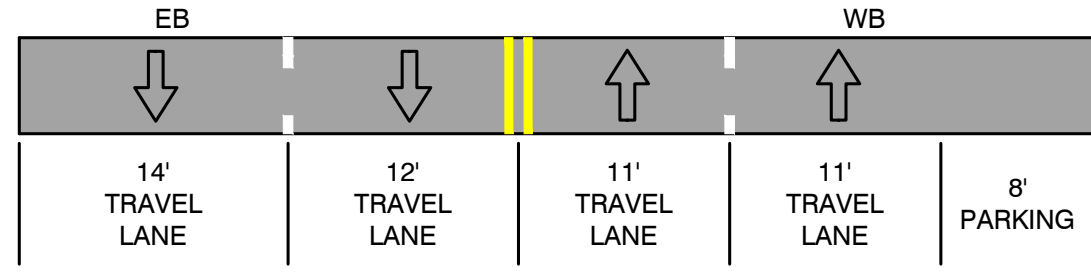


SCALE: 1"=40'



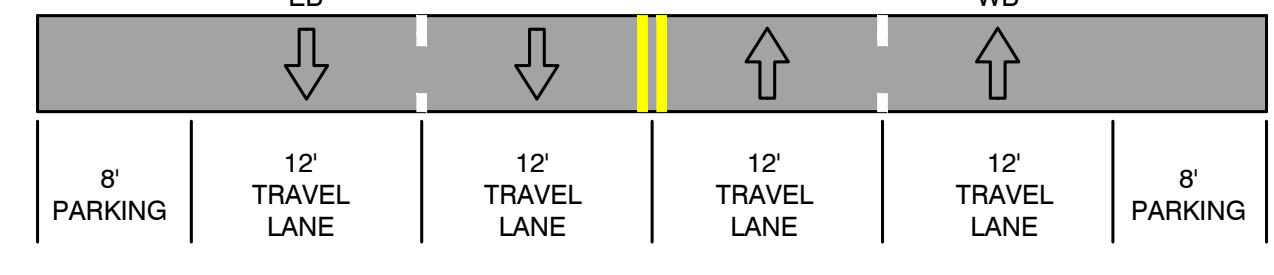
EXISTING CROSS SECTION

H-H



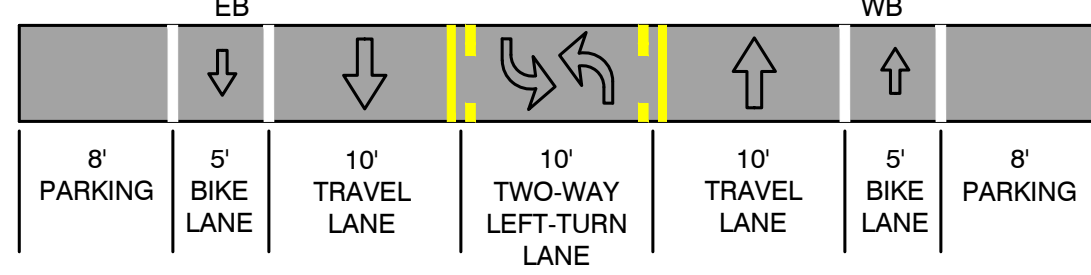
EXISTING CROSS SECTION

I-I



PROPOSED CROSS SECTION

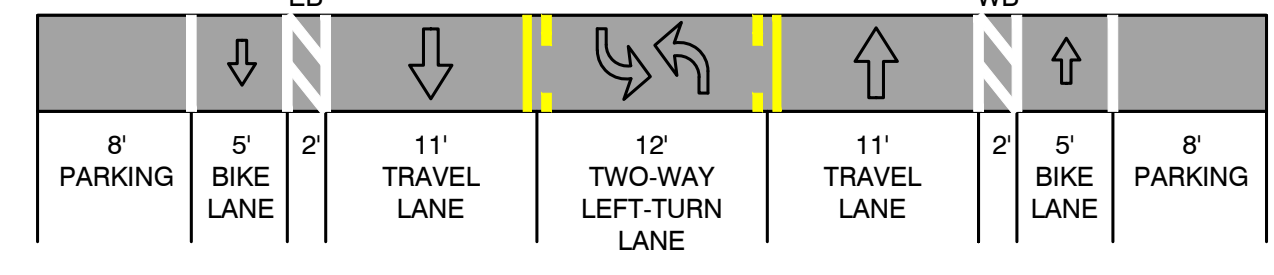
H-H



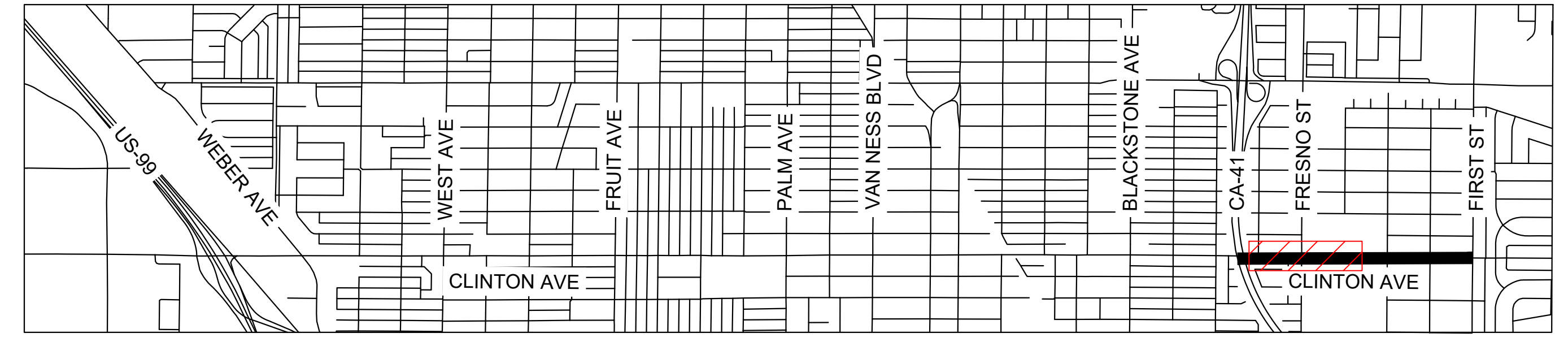
CLINTON AVE: CA-41 TO FRESNO ST (56')

PROPOSED CROSS SECTION

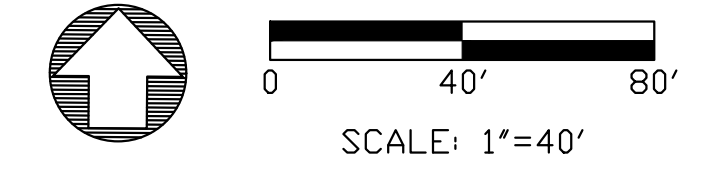
I-I

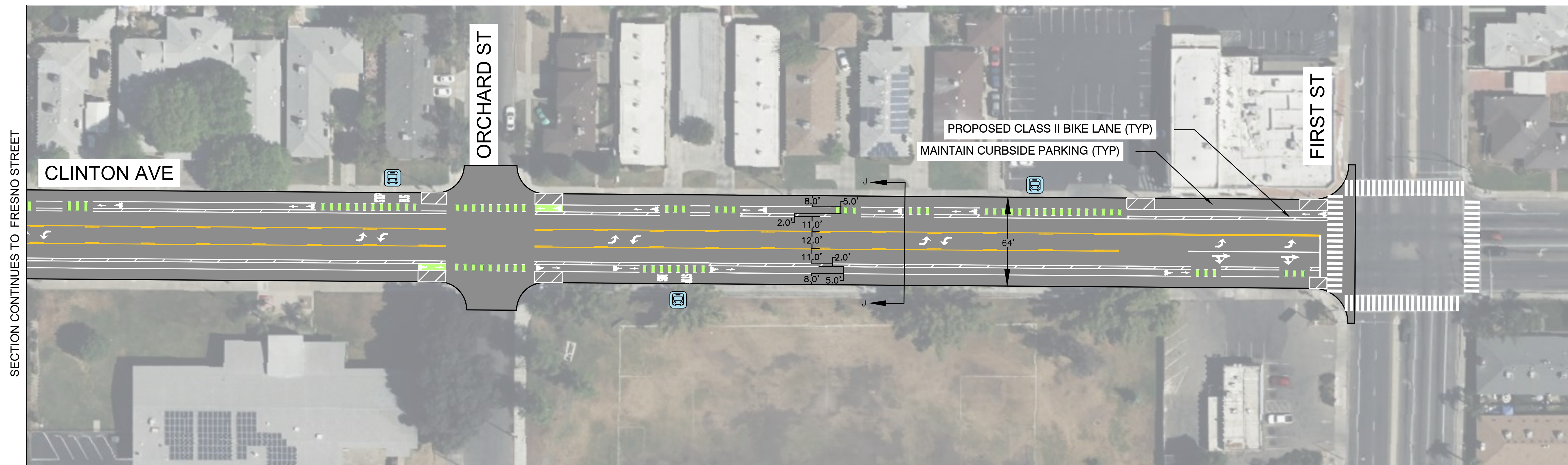


CLINTON AVE: FRESNO ST TO FIRST ST (64')



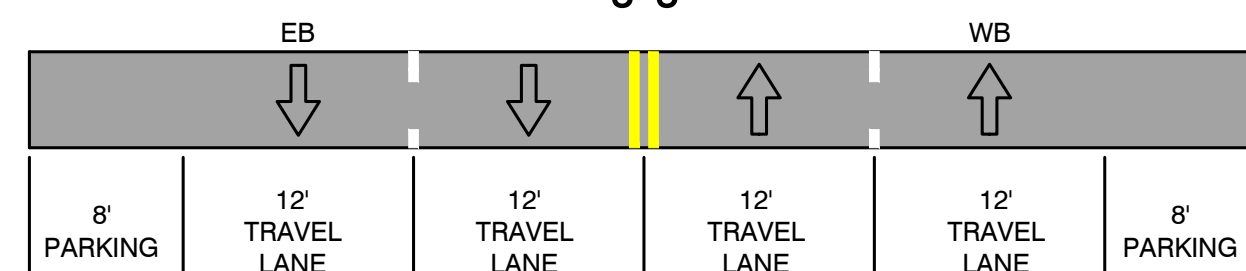
KEY MAP
NOT TO SCALE



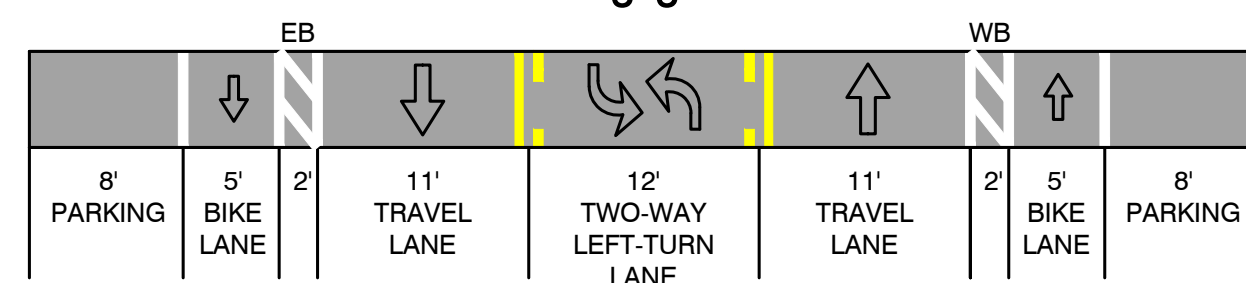


SECTION CONTINUES TO FRESNO STREET

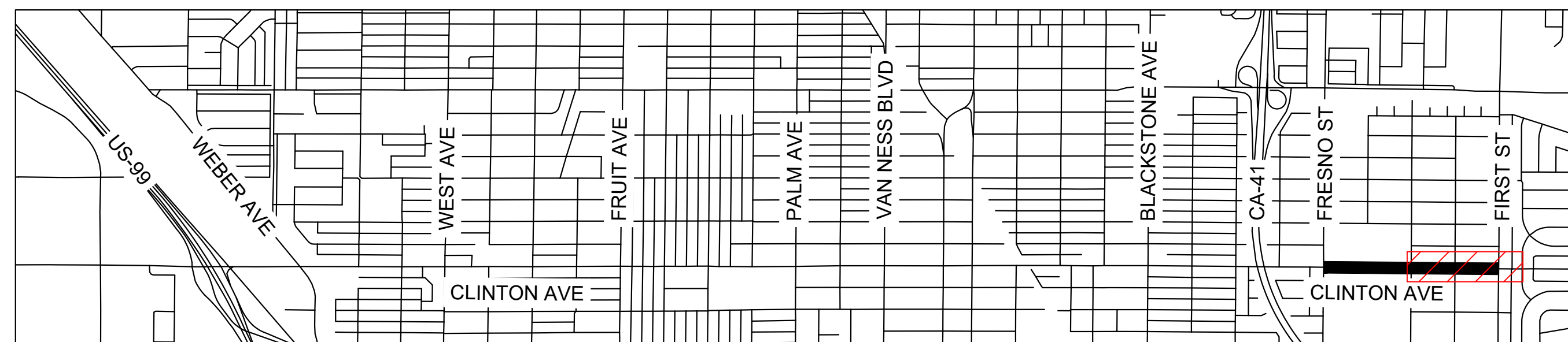
EXISTING CROSS SECTION J-J



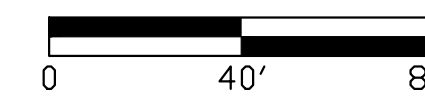
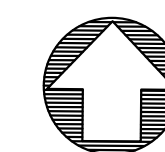
PROPOSED CROSS SECTION J-J



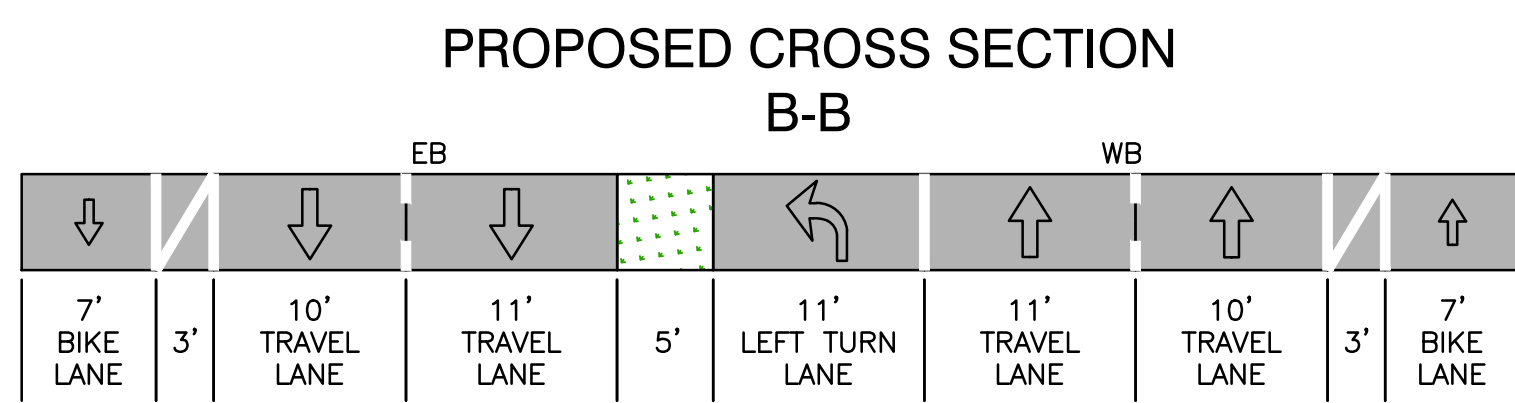
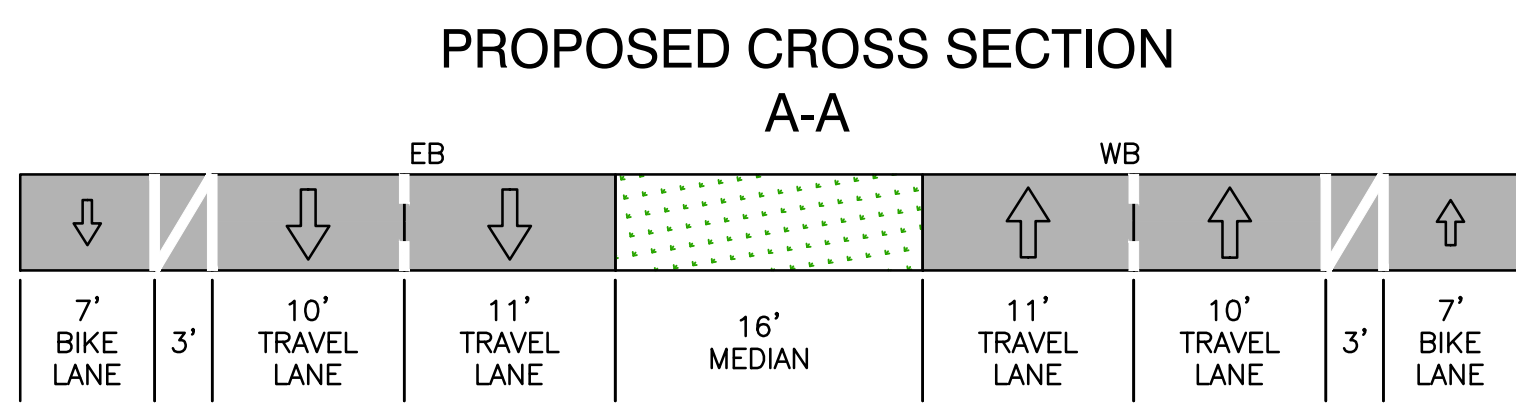
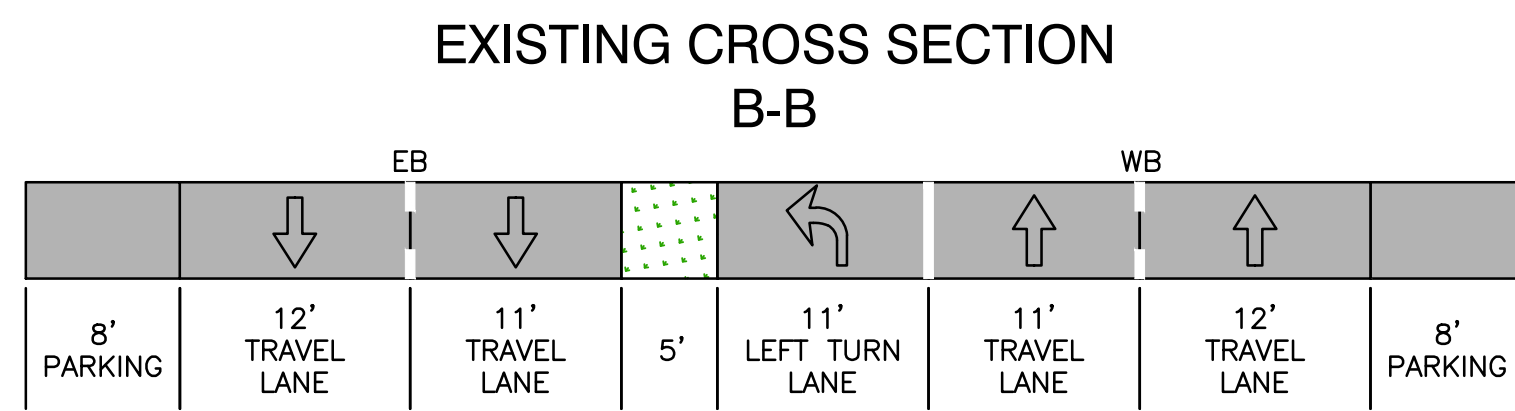
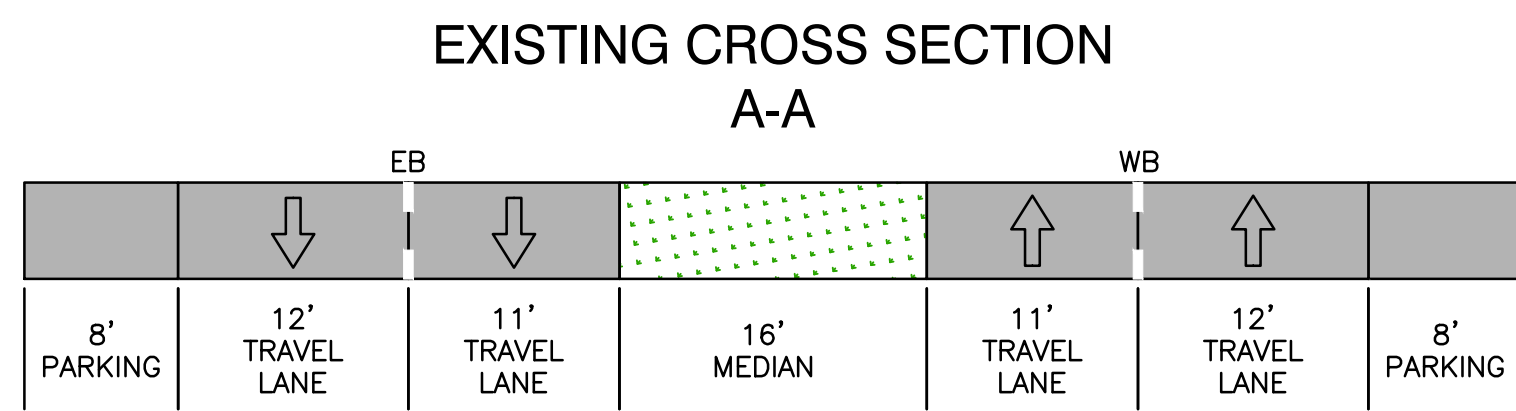
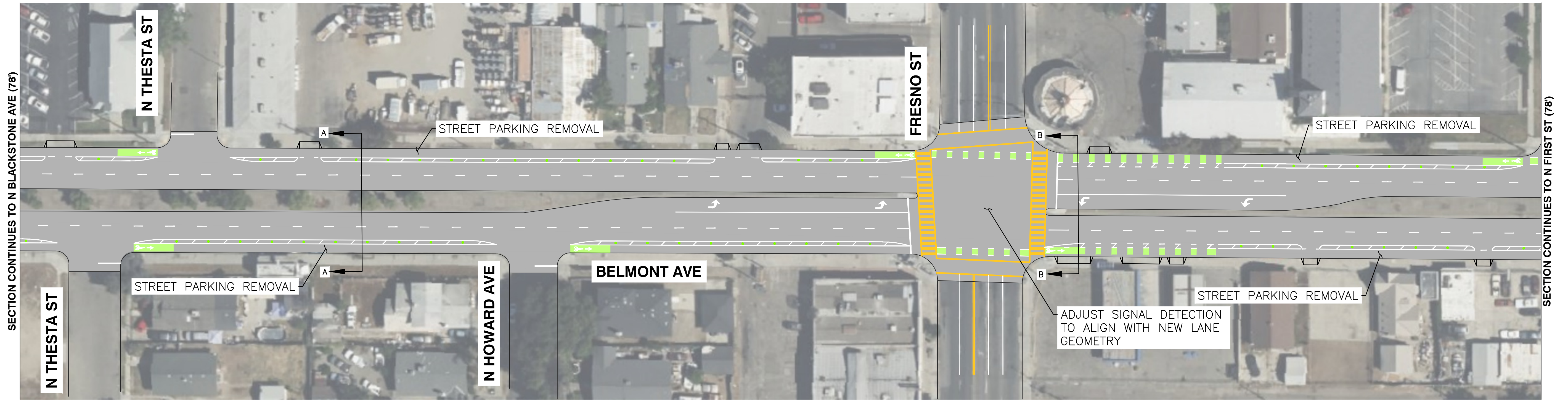
CLINTON AVE: FRESNO ST TO FIRST ST (64')



KEY MAP
NOT TO SCALE

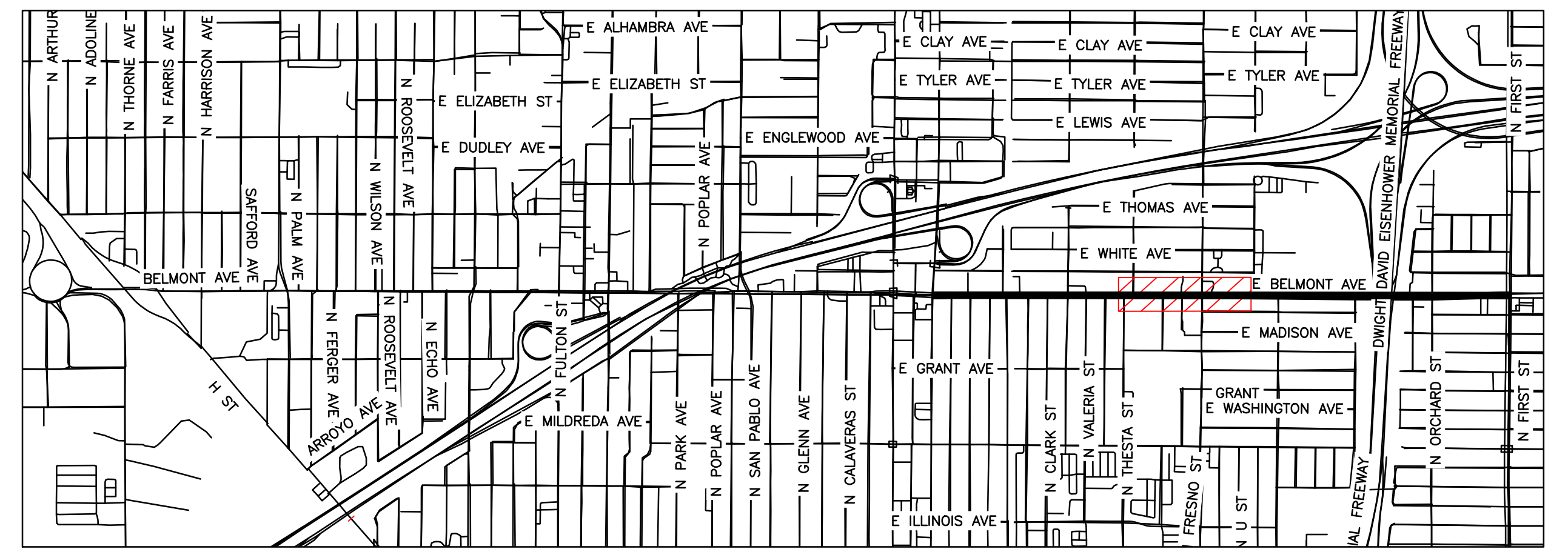


SCALE: 1"=40'

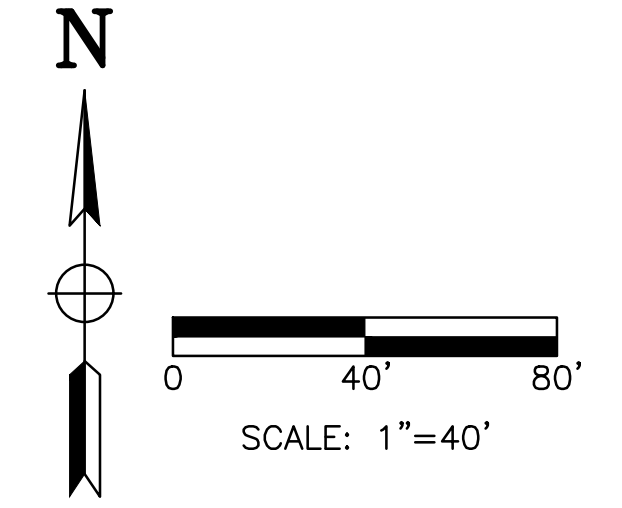


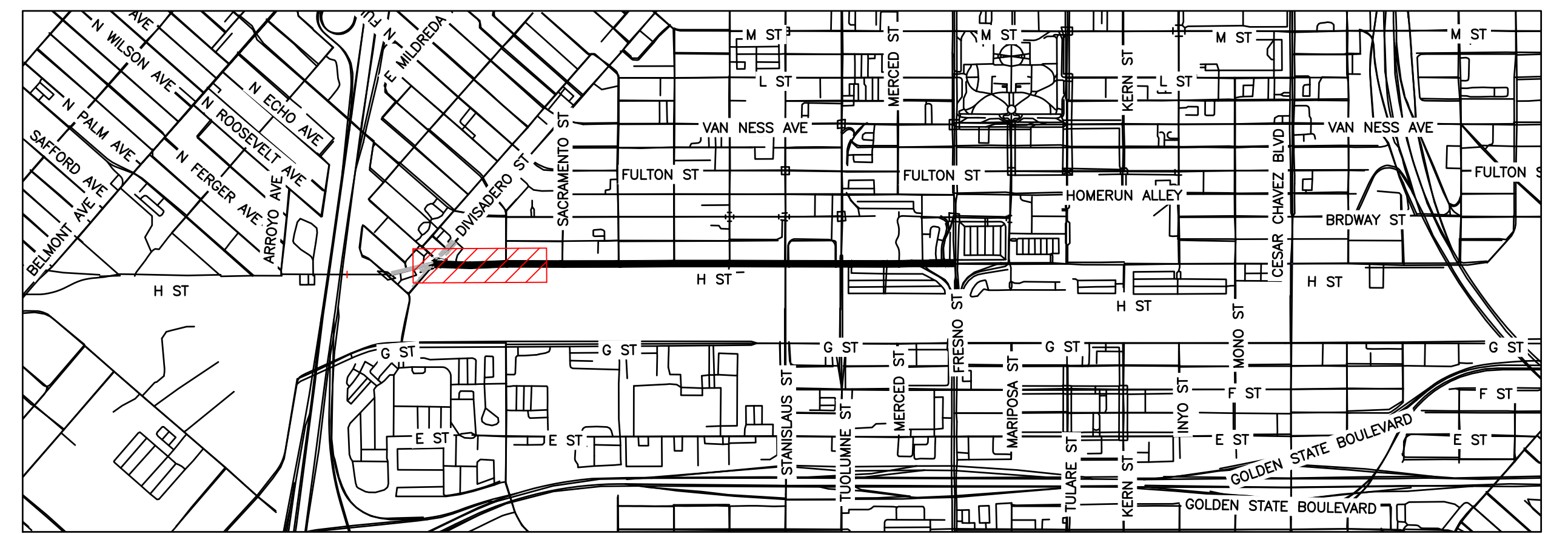
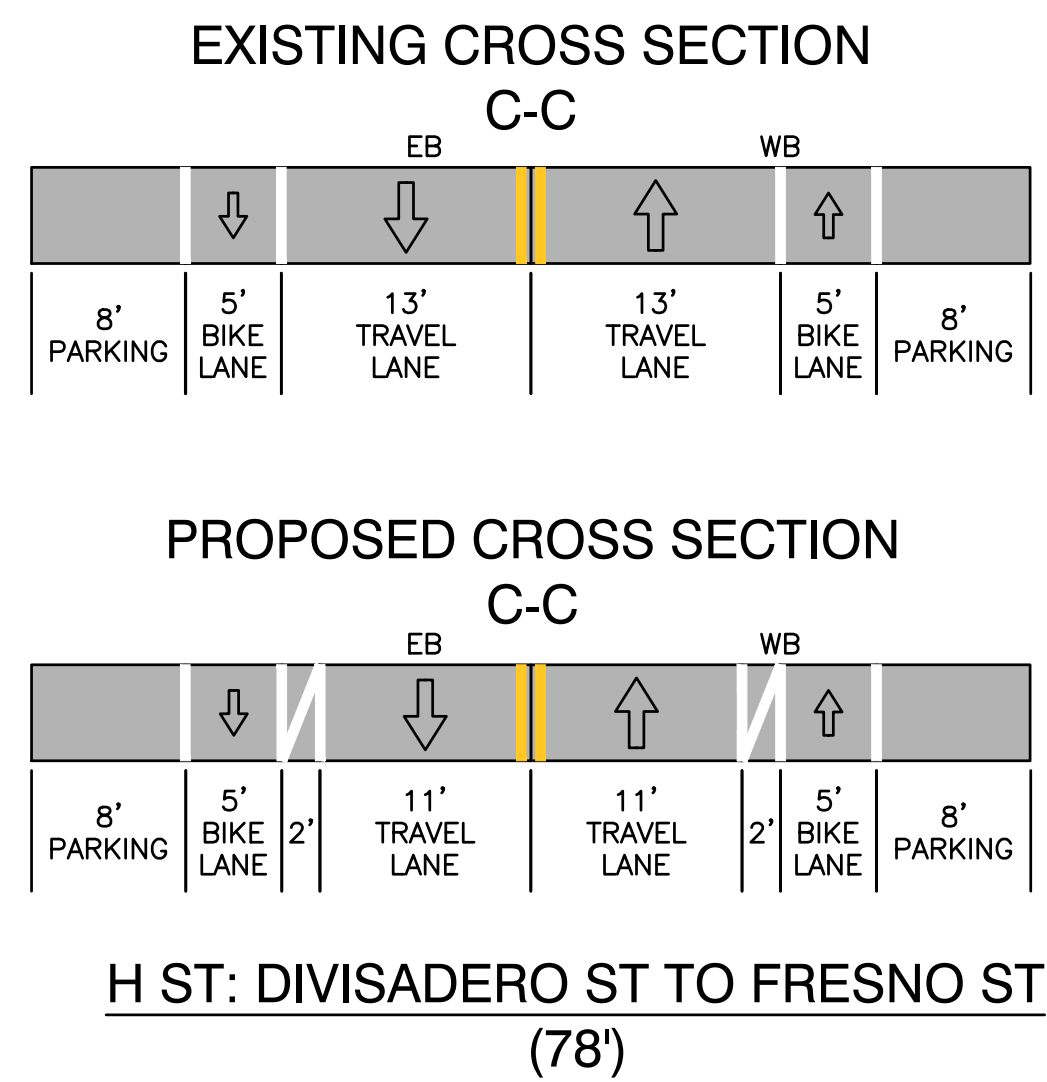
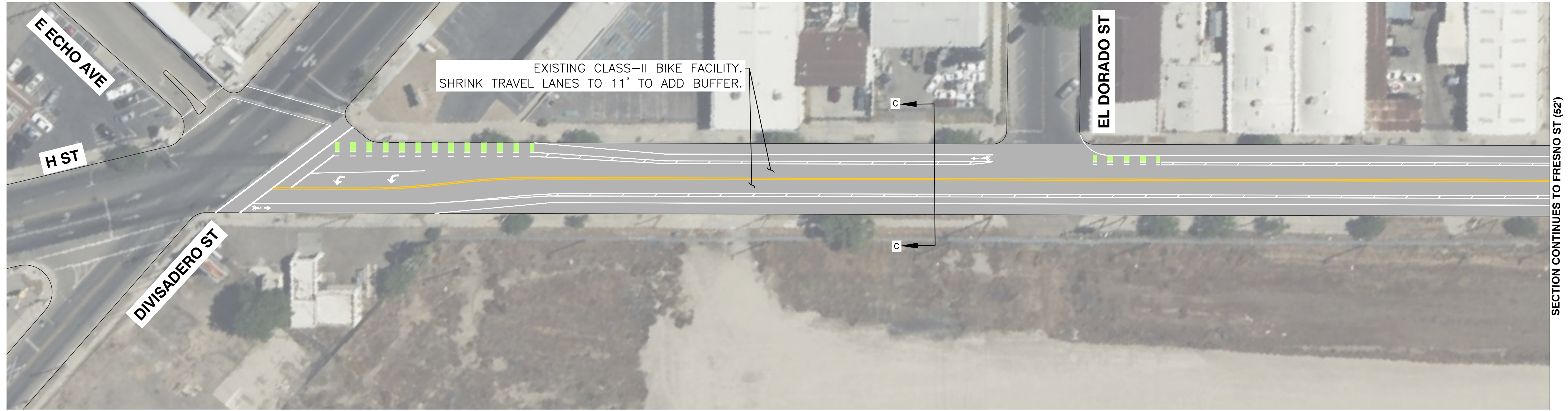
BELMONT AVE: N BLACKSTONE AVE TO FRESNO ST (78')

BELMONT AVE: FRESNO ST TO N FIRST ST (78')

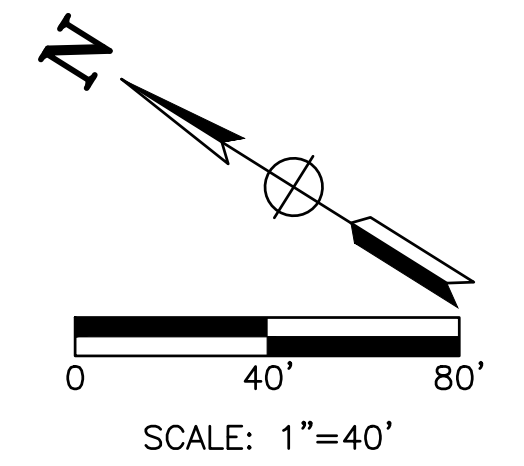


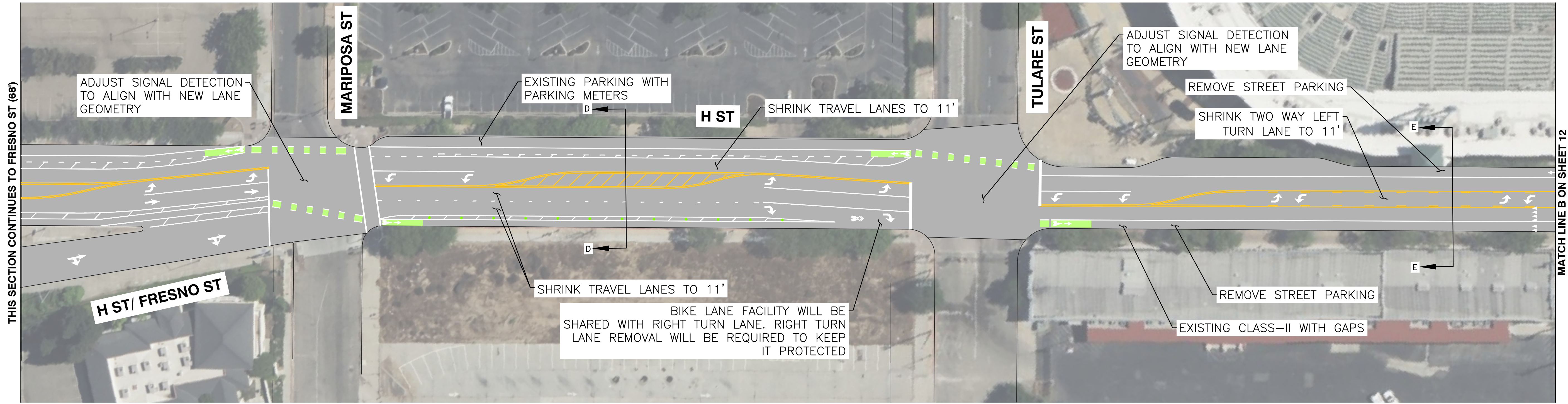
KEY MAP NOT TO SCALE



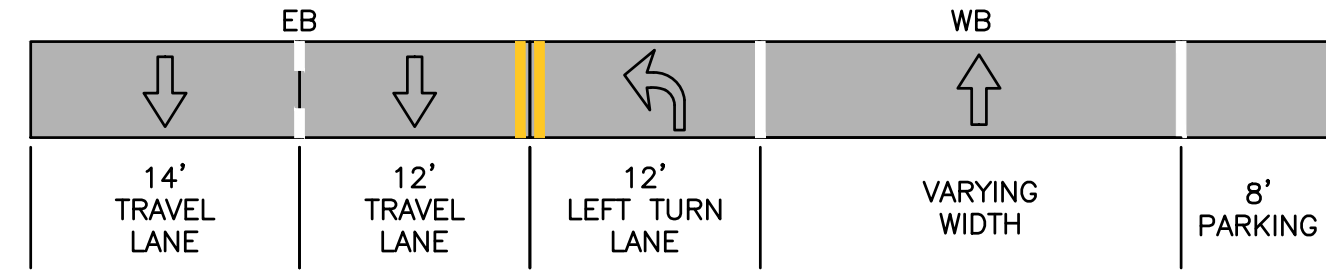


KEY MAP
NOT TO SCALE

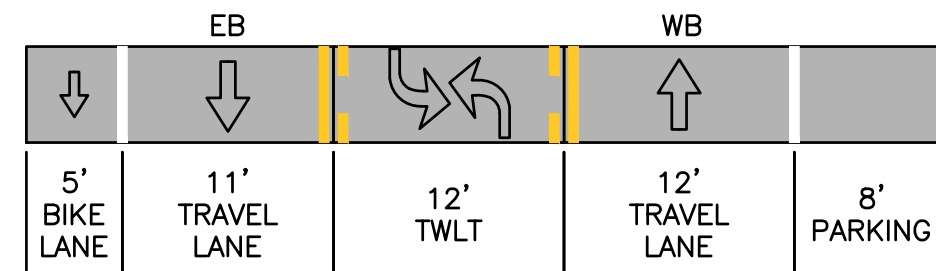




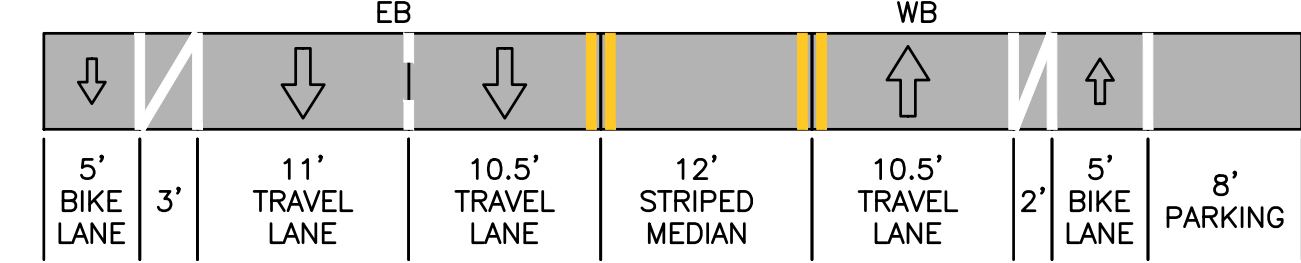
EXISTING CROSS SECTION
D-D



EXISTING CROSS SECTION
E-E

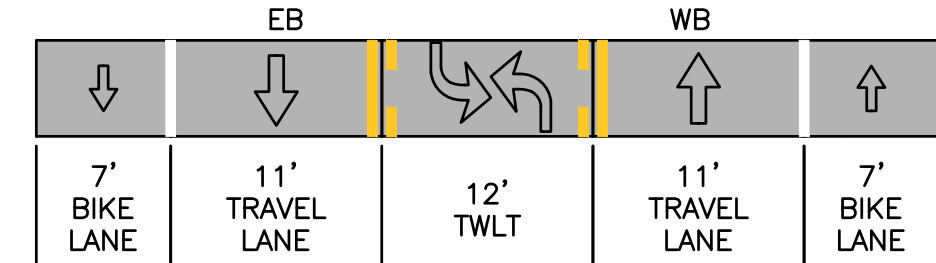


PROPOSED CROSS SECTION
D-D

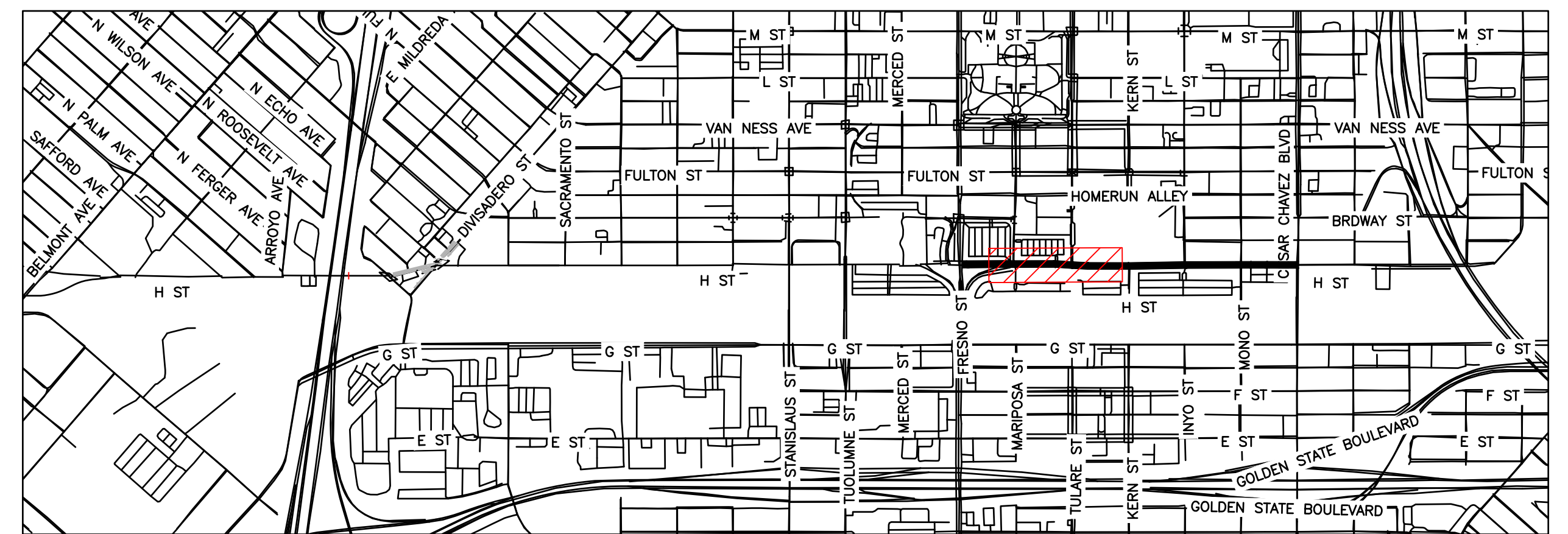


H ST: FRESNO ST TO TULARE ST
(68')

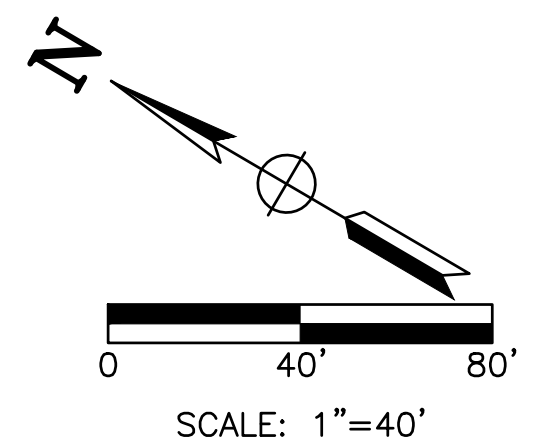
PROPOSED CROSS SECTION
E-E

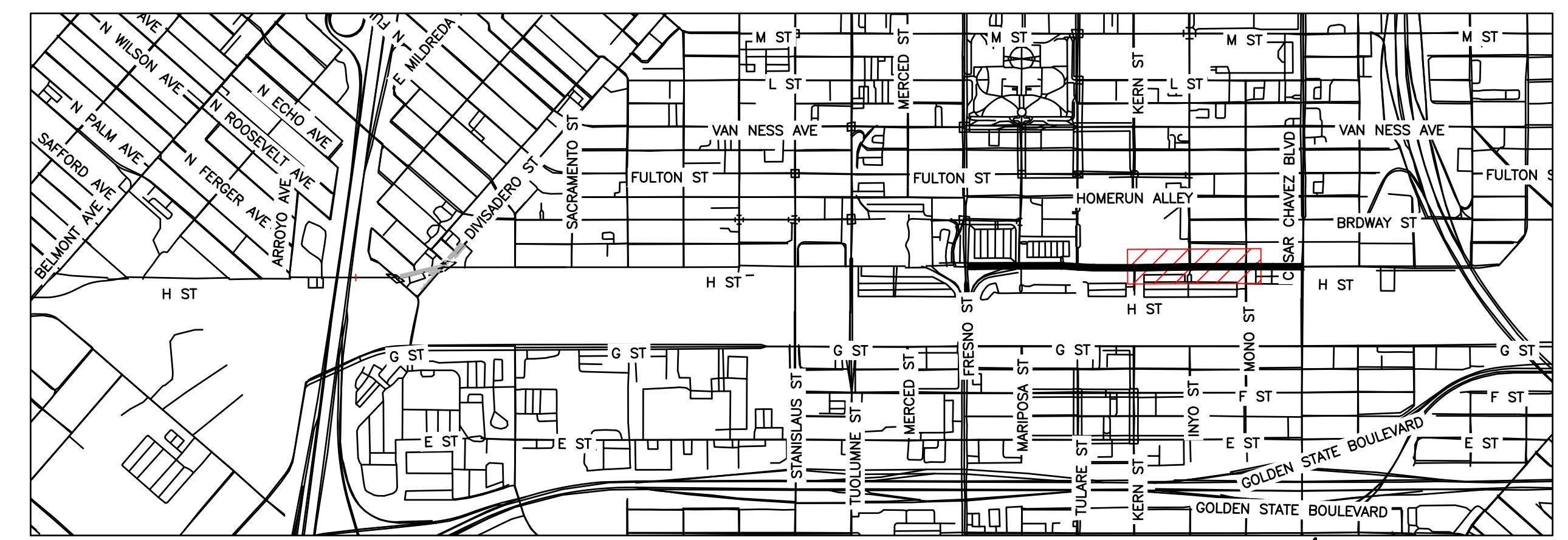
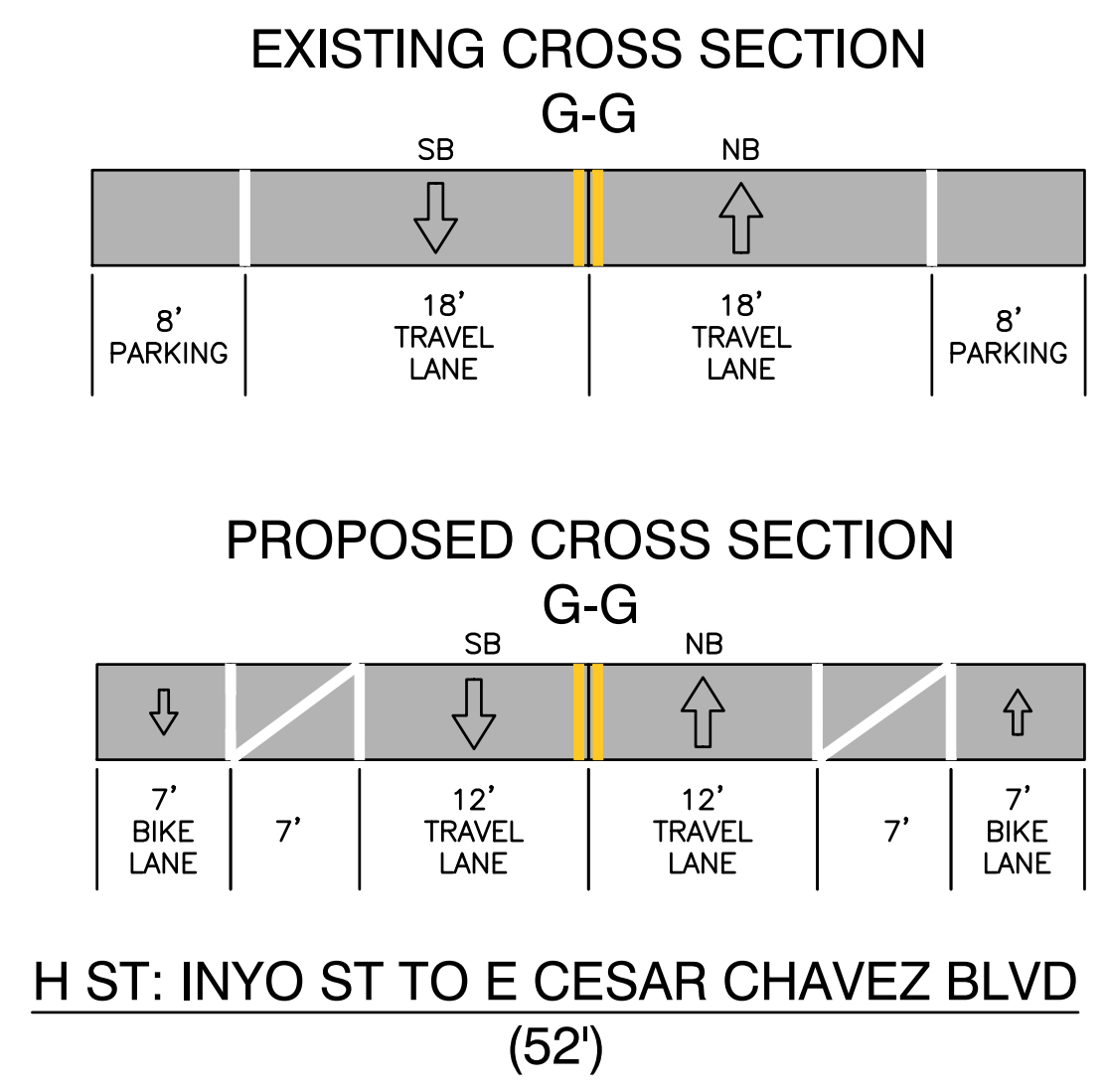
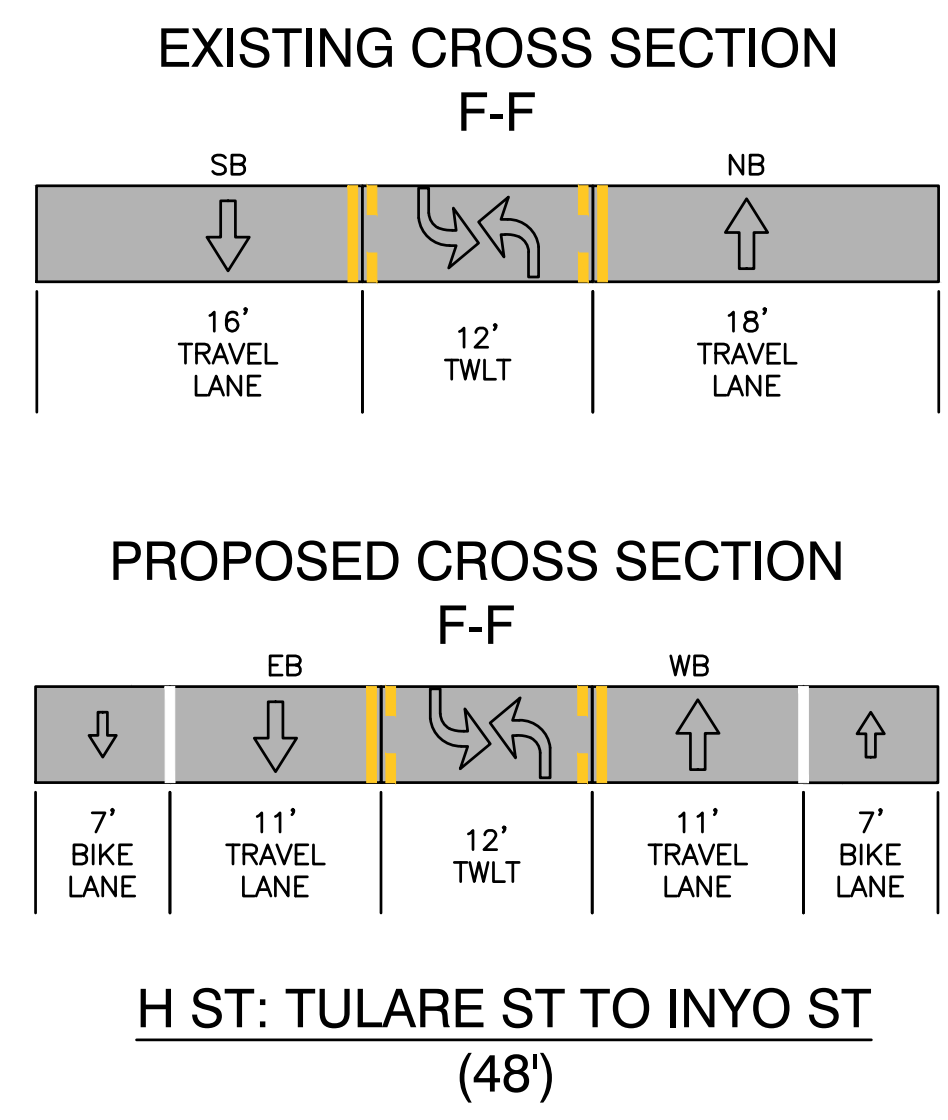
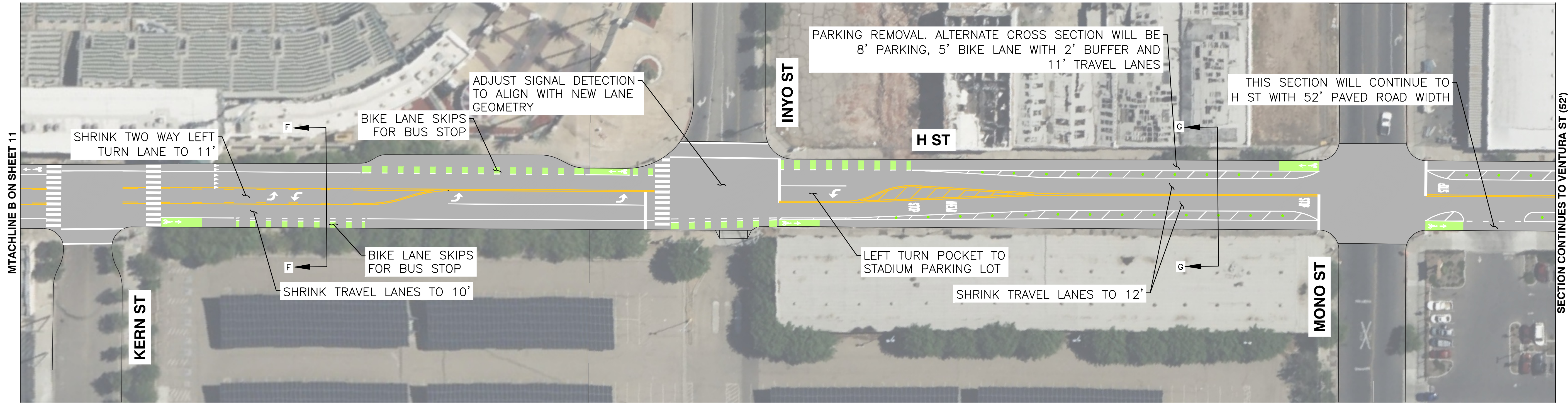


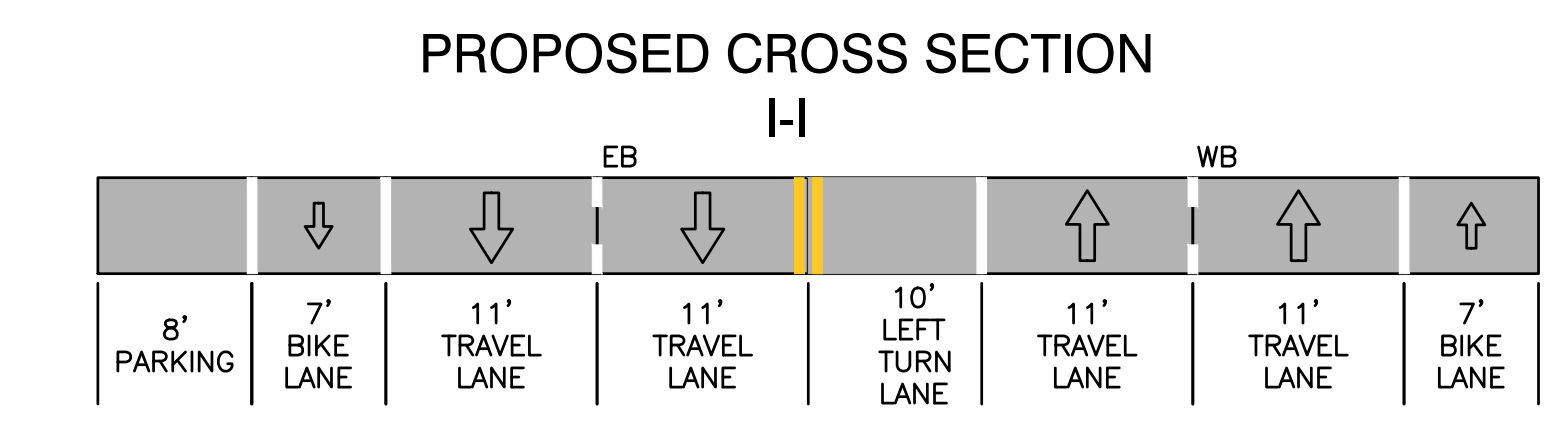
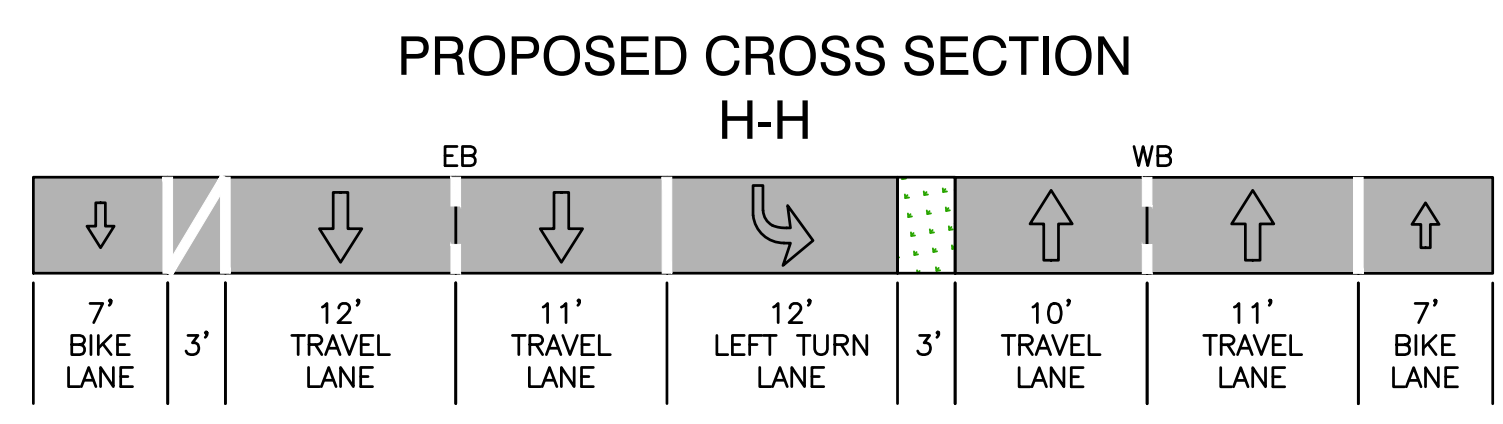
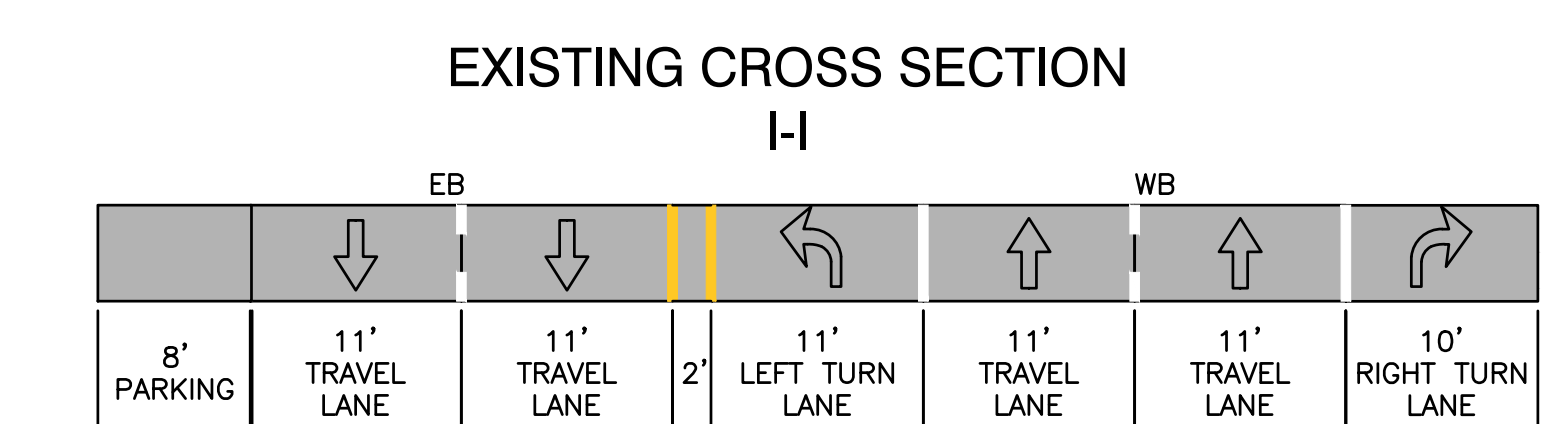
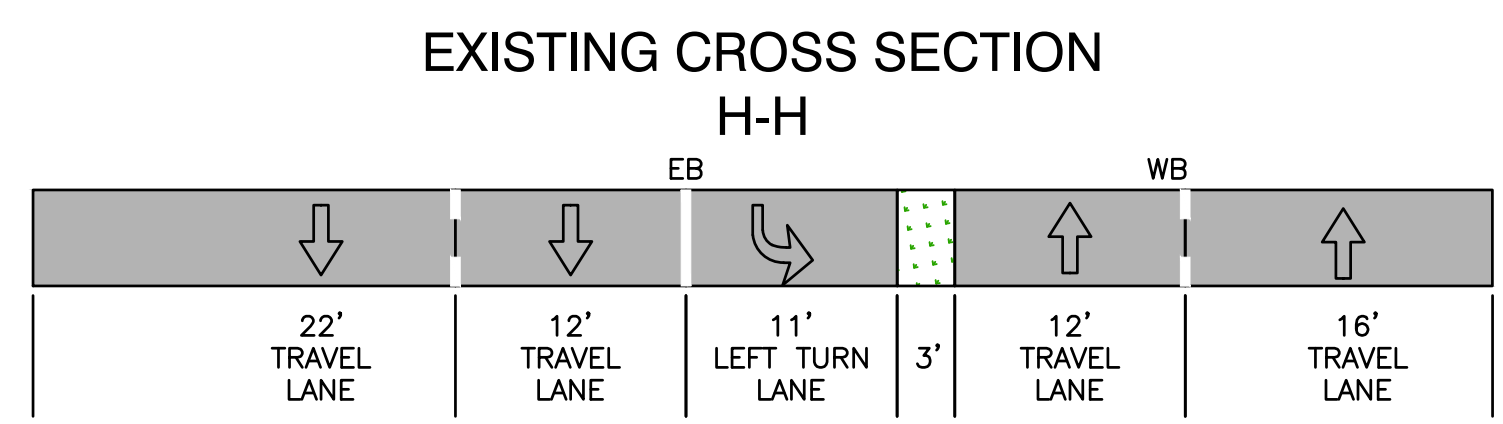
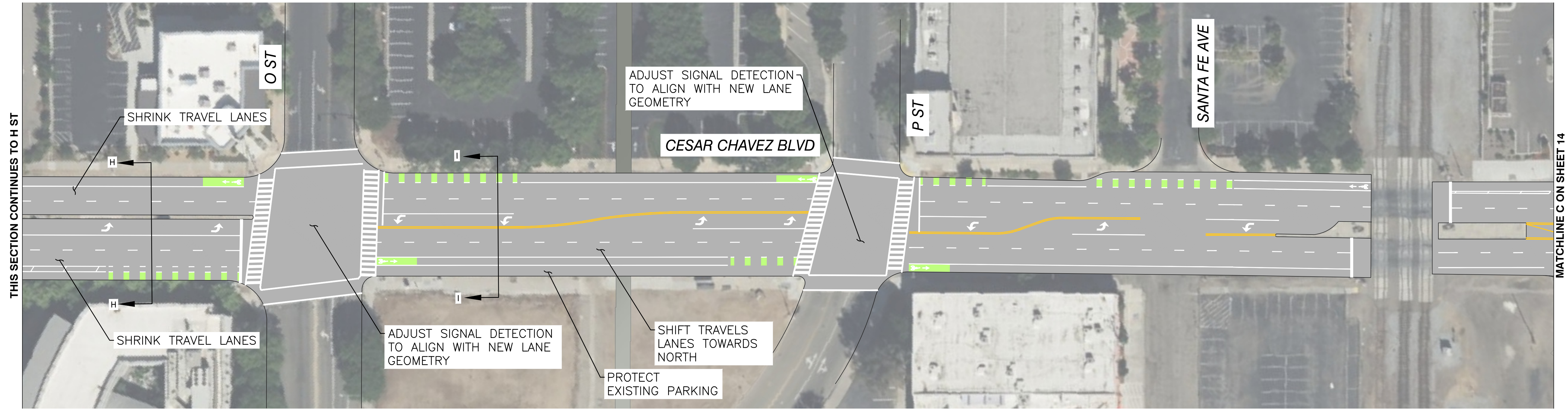
H ST: TULARE ST TO INYO ST
(48')



KEY MAP
NOT TO SCALE

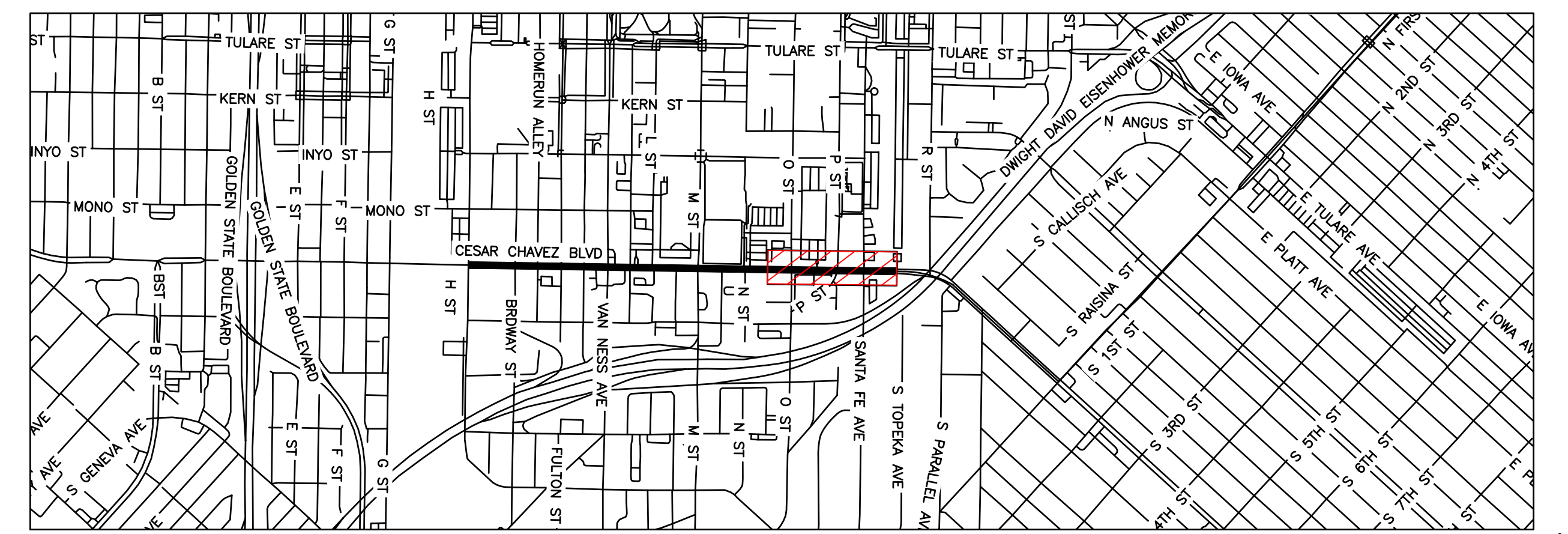




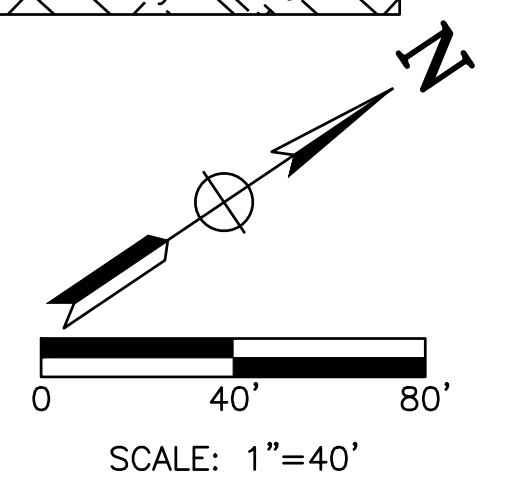


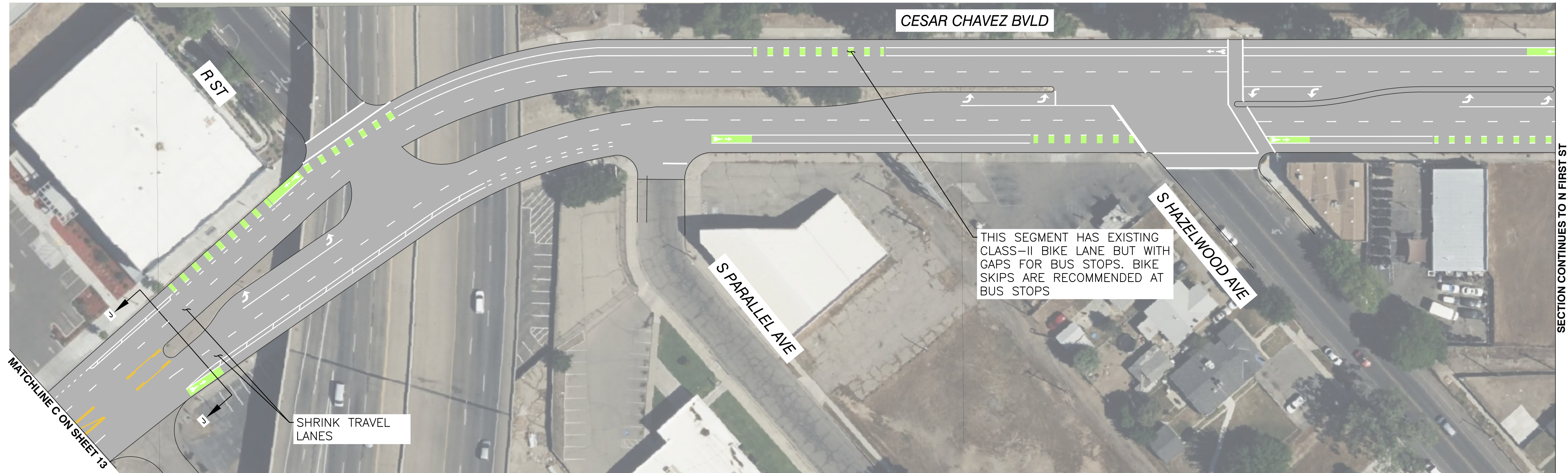
CESAR CHAVEZ BLVD: H ST TO O ST
(76')

CESAR CHAVEZ BLVD: O ST TO SANTA FE AVE
(76')



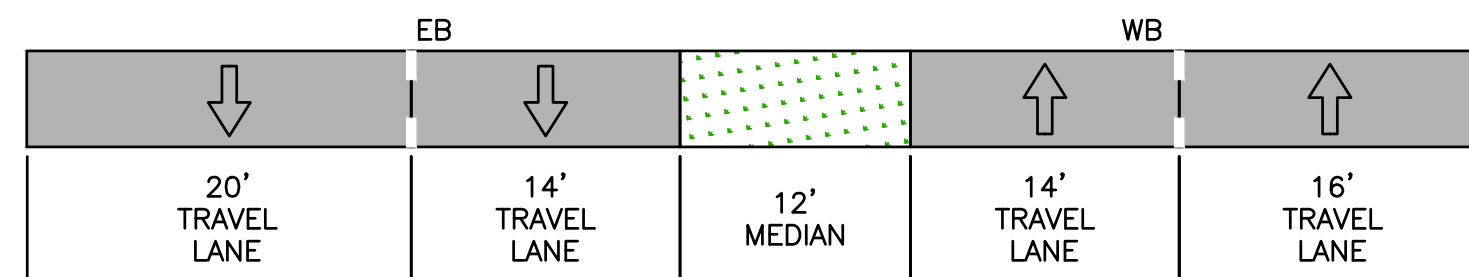
KEY MAP
NOT TO SCALE





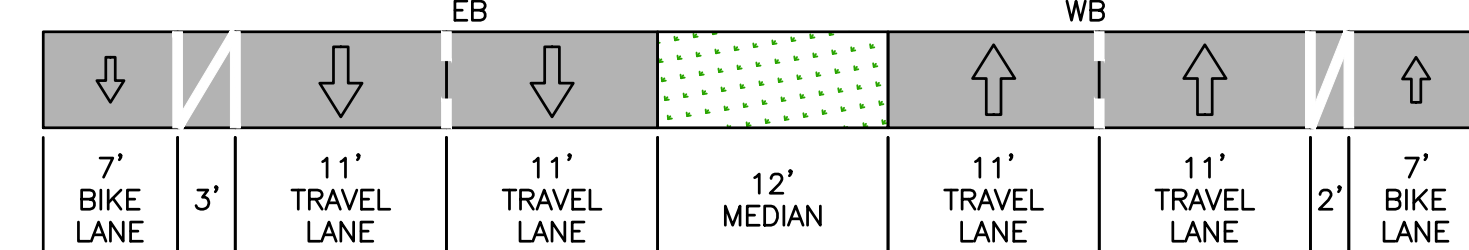
EXISTING CROSS SECTION

J-J

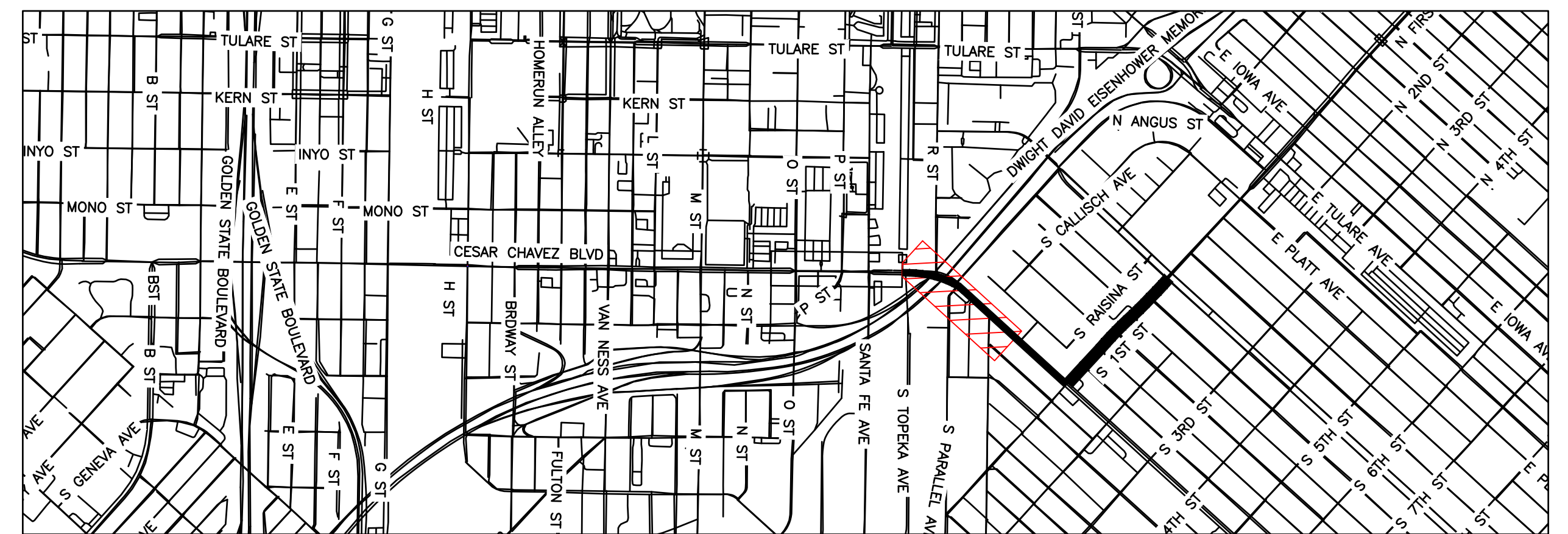


PROPOSED CROSS SECTION

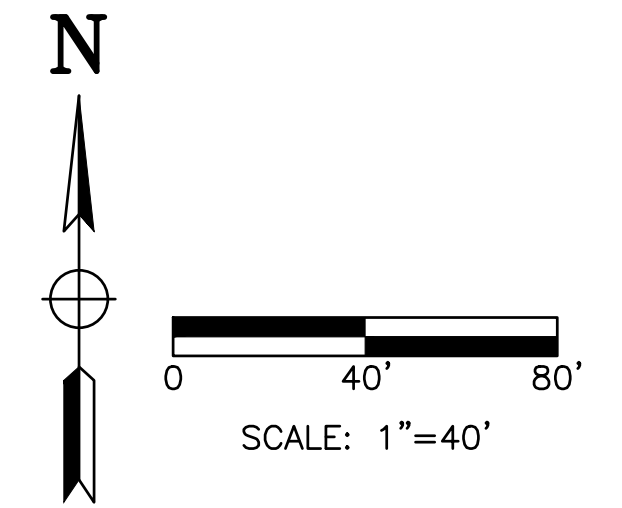
J-J



CESAR CHAVEZ BLVD: SANTA FE AVE TO R ST
(66')



KEY MAP
NOT TO SCALE



City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%



Summary Table

N First St: N Friant Rd to Olive Ave					
Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	91484	\$ 365,936.30
2	4" White Stripe	LF	\$4.00	77990	\$ 311,960.00
3	6" White Stripe	LF	\$5.00	143255	\$ 716,275.00
4	6" Yellow Stripe	LF	\$5.00	465	\$ 2,325.00
5	12" White Stripe	LF	\$8.00	17445	\$ 139,563.33
6	Green Pavement Marking	SF	\$12.00	19950	\$ 239,400.00
7	Bike Pavement Marking	EA	\$250.00	147	\$ 36,750.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	281	\$ 84,300.00
9	New Sign and Post	EA	\$500.00	50	\$ 25,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	2472	\$ 370,731.25
11	Install High Visibility Crosswalk	EA	\$1,000.00	62	\$ 62,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	23	\$ 57,500.00
Sub-Total					\$ 2,411,740.88
Traffic Control and Mobilization (12.5%)					\$ 301,500.00
Contingency (10%)					\$ 271,400.00
Total Construction Cost					\$ 2,984,700.00
Design and Construction Administration (20%)					\$ 597,000.00
Total Cost					\$ 3,581,700.00

Clinton Ave: West Ave to N First St					
Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	33434	\$ 133,734.81
2	6" White Stripe	LF	\$5.00	73300	\$ 366,500.00
3	12" White Stripe	LF	\$8.00	1527	\$ 12,213.33
4	4" Yellow Stripe	LF	\$4.00	62860	\$ 251,440.00
5	Green Pavement Marking	SF	\$12.00	13650	\$ 163,800.00
6	Bike Pavement Marking	EA	\$250.00	47	\$ 11,750.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	176	\$ 52,710.00
8	New Sign and Post	EA	\$500.00	35	\$ 17,500.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	27	\$ 27,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	11	\$ 27,500.00
Sub-Total					\$ 1,064,148.15
Traffic Control and Mobilization (12.5%)					\$ 133,100.00
Contingency (10%)					\$ 119,800.00
Total Construction Cost					\$ 1,317,100.00
Design and Construction Administration (20%)					\$ 263,500.00
Total Cost					\$ 1,580,600.00

Belmont Ave: N Blackstone Ave to N First St					
Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	43939	\$ 175,754.07
2	4" White Stripe	LF	\$4.00	18775	\$ 75,100.00
3	6" White Stripe	LF	\$5.00	70140	\$ 350,700.00
4	12" White Stripe	LF	\$8.00	4905	\$ 39,243.33
5	4" Yellow Stripe	LF	\$4.00	3780	\$ 15,120.00
6	8" Yellow Stripe	LF	\$5.00	7710	\$ 38,550.00
7	Green Pavement Marking	SF	\$12.00	12900	\$ 154,800.00
8	Bike Pavement Marking	EA	\$250.00	72	\$ 18,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	84	\$ 25,200.00
10	New Sign and Post	EA	\$500.00	44	\$ 22,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00	462	\$ 69,350.00
12	Install High Visibility Crosswalk	EA	\$1,000.00	37	\$ 37,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	16	\$ 40,000.00
Sub-Total					\$ 1,060,817.41
Traffic Control and Mobilization (12.5%)					\$ 132,700.00
Contingency (10%)					\$ 119,400.00
Total Construction Cost					\$ 1,313,000.00
Design and Construction Administration (20%)					\$ 262,600.00
Total Cost					\$ 1,575,600.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

N First Street



N First St: N Friant Rd to Herndon Ave (Class-IV)

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	24984	\$ 99,934.81
2	4" White Stripe	LF	\$4.00	19840	
3	6" White Stripe	LF	\$5.00	39680	\$ 198,400.00
4	6" Yellow Stripe	LF	\$5.00		\$ -
5	12" White Stripe	LF	\$8.00	3307	\$ 26,453.33
6	Green Pavement Marking	SF	\$12.00	3600	\$ 43,200.00
7	Bike Pavement Marking	EA	\$250.00	24	\$ 6,000.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	51	\$ 15,300.00
9	New Sign and Post	EA	\$500.00	10	\$ 5,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	827	\$ 124,000.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	7	\$ 7,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	5	\$ 12,500.00
Sub-Total					\$ 537,788.15
Traffic Control and Mobilization (12.5%)					\$ 67,300.00
Contingency (10%)					\$ 60,600.00
Total Construction Cost					\$ 665,700.00
Design and Construction Administration (20%)					\$ 133,200.00
Total Cost					\$ 798,900.00

N First St: Herndon Ave to E Menlo Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	4680	\$ 18,720.00
2	4" White Stripe	LF	\$4.00	4740	
3	6" White Stripe	LF	\$5.00	4740	\$ 23,700.00
4	6" Yellow Stripe	LF	\$5.00	465	\$ 2,325.00
5	12" White Stripe	LF	\$8.00	280	\$ 2,240.00
6	Green Pavement Marking	SF	\$12.00	1350	\$ 16,200.00
7	Bike Pavement Marking	EA	\$250.00	9	\$ 2,250.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	24	\$ 7,200.00
9	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	28	\$ 4,200.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	6	\$ 6,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 89,835.00
Traffic Control and Mobilization (12.5%)					\$ 11,300.00
Contingency (10%)					\$ 10,200.00
Total Construction Cost					\$ 111,400.00
Design and Construction Administration (20%)					\$ 22,300.00
Total Cost					\$ 133,700.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

N First Street



N First St: Menlo Ave to E Ellery Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1944	\$ 7,774.81
2	4" White Stripe	LF	\$4.00	1640	
3	6" White Stripe	LF	\$5.00	3280	\$ 16,400.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	342	\$ 2,733.33
6	Green Pavement Marking	SF	\$12.00	1350	\$ 16,200.00
7	Bike Pavement Marking	EA	\$250.00	4	\$ 1,000.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	24	\$ 7,200.00
9	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	68	\$ 10,250.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	4	\$ 4,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 71,558.15
Traffic Control and Mobilization (12.5%)					\$ 9,000.00
Contingency (10%)					\$ 8,100.00
Total Construction Cost					\$ 88,700.00
Design and Construction Administration (20%)					\$ 17,800.00
Total Cost					\$ 106,500.00

N First St: E Ellery Ave to E Stuart Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	2363	\$ 9,451.85
2	4" White Stripe	LF	\$4.00	2200	
3	6" White Stripe	LF	\$5.00	3300	\$ 16,500.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	103	\$ 820.00
6	Green Pavement Marking	SF	\$12.00	1200	\$ 14,400.00
7	Bike Pavement Marking	EA	\$250.00	8	\$ 2,000.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	15	\$ 4,500.00
9	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	34	\$ 5,125.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 61,796.85
Traffic Control and Mobilization (12.5%)					\$ 7,800.00
Contingency (10%)					\$ 7,000.00
Total Construction Cost					\$ 76,600.00
Design and Construction Administration (20%)					\$ 15,400.00
Total Cost					\$ 92,000.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

N First Street



N First St: E Stuart Ave to E Roberts Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	4836	\$ 19,342.22
2	4" White Stripe	LF	\$4.00	4080	
3	6" White Stripe	LF	\$5.00	8160	\$ 40,800.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	1020	\$ 8,160.00
6	Green Pavement Marking	SF	\$12.00	1500	\$ 18,000.00
7	Bike Pavement Marking	EA	\$250.00	10	\$ 2,500.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	12	\$ 3,600.00
9	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	170	\$ 25,500.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 123,402.22
Traffic Control and Mobilization (12.5%)					\$ 15,500.00
Contingency (10%)					\$ 13,900.00
Total Construction Cost					\$ 152,900.00
Design and Construction Administration (20%)					\$ 30,600.00
Total Cost					\$ 183,500.00

N First St: E Roberts Ave to E Barstow Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	3437	\$ 13,748.15
2	4" White Stripe	LF	\$4.00	3200	
3	6" White Stripe	LF	\$5.00	4800	\$ 24,000.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	510	\$ 4,080.00
6	Green Pavement Marking	SF	\$12.00	750	\$ 9,000.00
7	Bike Pavement Marking	EA	\$250.00	3	\$ 750.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	8	\$ 2,400.00
9	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	67	\$ 10,000.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 69,478.15
Traffic Control and Mobilization (12.5%)					\$ 8,700.00
Contingency (10%)					\$ 7,900.00
Total Construction Cost					\$ 86,100.00
Design and Construction Administration (20%)					\$ 17,300.00
Total Cost					\$ 103,400.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

N First Street



N First St: E Barstow Ave to Santa Ana Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	9704	\$ 38,817.78
2	4" White Stripe	LF	\$4.00	7940	
3	6" White Stripe	LF	\$5.00	15880	\$ 79,400.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	1985	\$ 15,880.00
6	Green Pavement Marking	SF	\$12.00	1950	\$ 23,400.00
7	Bike Pavement Marking	EA	\$250.00	13	\$ 3,250.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	29	\$ 8,700.00
9	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	67	\$ 10,000.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	8	\$ 8,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	3	\$ 7,500.00
Sub-Total					\$ 195,947.78
Traffic Control and Mobilization (12.5%)					\$ 24,500.00
Contingency (10%)					\$ 22,100.00
Total Construction Cost					\$ 242,600.00
Design and Construction Administration (20%)					\$ 48,600.00
Total Cost					\$ 291,200.00

N First St: E Santa Ana Ave to E Gettysburg Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	3081	\$ 12,325.93
2	4" White Stripe	LF	\$4.00	2600	
3	6" White Stripe	LF	\$5.00	5200	\$ 26,000.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	650	\$ 5,200.00
6	Green Pavement Marking	SF	\$12.00	450	\$ 5,400.00
7	Bike Pavement Marking	EA	\$250.00	3	\$ 750.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	29	\$ 8,700.00
9	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	108	\$ 16,250.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	7	\$ 7,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 85,125.93
Traffic Control and Mobilization (12.5%)					\$ 10,700.00
Contingency (10%)					\$ 9,600.00
Total Construction Cost					\$ 105,500.00
Design and Construction Administration (20%)					\$ 21,100.00
Total Cost					\$ 126,600.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

N First Street



N First St: E Gettysburg Ave to Dakota Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	11353	\$ 45,411.85
2	4" White Stripe	LF	\$4.00	10570	
3	6" White Stripe	LF	\$5.00	15855	\$ 79,275.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	1321	\$ 10,570.00
6	Green Pavement Marking	SF	\$12.00	3600	\$ 43,200.00
7	Bike Pavement Marking	EA	\$250.00	24	\$ 6,000.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	26	\$ 7,800.00
9	New Sign and Post	EA	\$500.00	6	\$ 3,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	220	\$ 33,031.25
11	Install High Visibility Crosswalk	EA	\$1,000.00	6	\$ 6,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 239,288.10
Traffic Control and Mobilization (12.5%)					\$ 30,000.00
Contingency (10%)					\$ 27,000.00
Total Construction Cost					\$ 296,300.00
Design and Construction Administration (20%)					\$ 59,300.00
Total Cost					\$ 355,600.00

N First St: Dakota Ave to E McKinley Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	18726	\$ 74,903.70
2	4" White Stripe	LF	\$4.00	15800	
3	6" White Stripe	LF	\$5.00	31600	\$ 158,000.00
4	6" Yellow Stripe	LF	\$5.00	0	\$ -
5	12" White Stripe	LF	\$8.00	6583	\$ 52,666.67
6	Green Pavement Marking	SF	\$12.00	1650	\$ 19,800.00
7	Bike Pavement Marking	EA	\$250.00	36	\$ 9,000.00
8	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	42	\$ 12,600.00
9	New Sign and Post	EA	\$500.00	10	\$ 5,000.00
10	Flexible Delineator Post with Long Base	EA	\$150.00	658	\$ 98,750.00
11	Install High Visibility Crosswalk	EA	\$1,000.00	14	\$ 14,000.00
12	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	3	\$ 7,500.00
Sub-Total					\$ 452,220.37
Traffic Control and Mobilization (12.5%)					\$ 56,600.00
Contingency (10%)					\$ 50,900.00
Total Construction Cost					\$ 559,800.00
Design and Construction Administration (20%)					\$ 112,000.00
Total Cost					\$ 671,800.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

Clinton Avenue



Clinton Ave: West Ave to Fruit Ave


Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	5822	\$ 23,288.89
2	6" White Stripe	LF	\$5.00	15720	\$ 78,600.00
3	12" White Stripe	LF	\$8.00	1310	\$ 10,480.00
4	4" Yellow Stripe	LF	\$4.00	10480	\$ 41,920.00
5	Green Pavement Marking	SF	\$12.00	2500	\$ 30,000.00
6	Bike Pavement Marking	EA	\$250.00	7	\$ 1,750.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	28	\$ 8,400.00
8	New Sign and Post	EA	\$500.00	8	\$ 4,000.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	6	\$ 6,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 209,438.89
Traffic Control and Mobilization (12.5%)					\$ 26,200.00
Contingency (10%)					\$ 23,600.00
Total Construction Cost					\$ 259,300.00
Design and Construction Administration (20%)					\$ 51,900.00
Total Cost					\$ 311,200.00

Clinton Ave: Fruit Ave to N Blackstone Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	16906	\$ 67,623.70
2	6" White Stripe	LF	\$5.00	31480	\$ 157,400.00
3	12" White Stripe	LF	\$8.00		\$ -
4	4" Yellow Stripe	LF	\$4.00	31480	\$ 125,920.00
5	Green Pavement Marking	SF	\$12.00	6750	\$ 81,000.00
6	Bike Pavement Marking	EA	\$250.00	27	\$ 6,750.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	91	\$ 27,210.00
8	New Sign and Post	EA	\$500.00	16	\$ 8,000.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	15	\$ 15,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	6	\$ 15,000.00
Sub-Total					\$ 503,903.70
Traffic Control and Mobilization (12.5%)					\$ 63,000.00
Contingency (10%)					\$ 56,700.00
Total Construction Cost					\$ 623,700.00
Design and Construction Administration (20%)					\$ 124,800.00
Total Cost					\$ 748,500.00

Clinton Ave: N Blackstone Ave to CA-41

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	3550	\$ 14,200.00
2	6" White Stripe	LF	\$5.00	7100	\$ 35,500.00
3	12" White Stripe	LF	\$8.00		\$ -
4	4" Yellow Stripe	LF	\$4.00	7100	\$ 28,400.00
5	Green Pavement Marking	SF	\$12.00	2000	\$ 24,000.00
6	Bike Pavement Marking	EA	\$250.00	5	\$ 1,250.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	19	\$ 5,700.00
8	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	0	\$ -
Sub-Total					\$ 113,050.00
Traffic Control and Mobilization (12.5%)					\$ 14,200.00
Contingency (10%)					\$ 12,800.00
Total Construction Cost					\$ 140,100.00
Design and Construction Administration (20%)					\$ 28,100.00
Total Cost					\$ 168,200.00

City of Fresno	
Active Transportation Plan	
Bikeway Improvements Cost Estimate-35%	
Clinton Avenue	

Clinton Ave: CA-41 to Fresno St					
Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1763	\$ 7,051.85
2	6" White Stripe	LF	\$5.00	3400	\$ 17,000.00
3	12" White Stripe	LF	\$8.00		\$ -
4	4" Yellow Stripe	LF	\$4.00	3400	\$ 13,600.00
5	Green Pavement Marking	SF	\$12.00	800	\$ 9,600.00
6	Bike Pavement Marking	EA	\$250.00	2	\$ 500.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	7	\$ 2,100.00
8	New Sign and Post	EA	\$500.00	1	\$ 500.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 54,851.85
Traffic Control and Mobilization (12.5%)					\$ 6,900.00
Contingency (10%)					\$ 6,200.00
Total Construction Cost					\$ 68,000.00
Design and Construction Administration (20%)					\$ 13,600.00
Total Cost					\$ 81,600.00

Clinton Ave: Fresno St to First St					
Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	5393	\$ 21,570.37
2	6" White Stripe	LF	\$5.00	15600	\$ 78,000.00
3	12" White Stripe	LF	\$8.00	217	\$ 1,733.33
4	4" Yellow Stripe	LF	\$4.00	10400	\$ 41,600.00
5	Green Pavement Marking	SF	\$12.00	1600	\$ 19,200.00
6	Bike Pavement Marking	EA	\$250.00	6	\$ 1,500.00
7	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	31	\$ 9,300.00
8	New Sign and Post	EA	\$500.00	6	\$ 3,000.00
9	Install High Visibility Crosswalk	EA	\$1,000.00	2	\$ 2,000.00
10	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 182,903.70
Traffic Control and Mobilization (12.5%)					\$ 22,900.00
Contingency (10%)					\$ 20,600.00
Total Construction Cost					\$ 226,500.00
Design and Construction Administration (20%)					\$ 45,300.00
Total Cost					\$ 271,800.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

Downtown Loop



H St: Divisadero St to Broadway Plaza

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	12018	\$ 48,071.11
2	4" White Stripe	LF	\$4.00		\$ -
3	6" White Stripe	LF	\$5.00	24960	\$ 124,800.00
4	12" White Stripe	LF	\$8.00	1040	\$ 8,320.00
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00	4160	\$ 20,800.00
7	Green Pavement Marking	SF	\$12.00	2250	\$ 27,000.00
8	Bike Pavement Marking	EA	\$250.00	15	\$ 3,750.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	5	\$ 1,500.00
10	New Sign and Post	EA	\$500.00	3	\$ 1,500.00
11	Flexible Delineator Post with Long Base	EA	\$150.00		\$ -
12	Install High Visibility Crosswalk	EA	\$1,000.00	3	\$ 3,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 241,241.11
Traffic Control and Mobilization (12.5%)					\$ 30,200.00
Contingency (10%)					\$ 27,200.00
Total Construction Cost					\$ 298,700.00
Design and Construction Administration (20%)					\$ 59,800.00
Total Cost					\$ 358,500.00

H St: Broadway Plaza to Tulare St

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	2456	\$ 9,822.22
2	4" White Stripe	LF	\$4.00	255	\$ 1,020.00
3	6" White Stripe	LF	\$5.00	5850	\$ 29,250.00
4	12" White Stripe	LF	\$8.00	244	\$ 1,950.00
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00	1950	\$ 9,750.00
7	Green Pavement Marking	SF	\$12.00	600	\$ 7,200.00
8	Bike Pavement Marking	EA	\$250.00	4	\$ 1,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	9	\$ 2,700.00
10	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00	12	\$ 1,800.00
12	Install High Visibility Crosswalk	EA	\$1,000.00	1	\$ 1,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	2	\$ 5,000.00
Sub-Total					\$ 72,492.22
Traffic Control and Mobilization (12.5%)					\$ 9,100.00
Contingency (10%)					\$ 8,200.00
Total Construction Cost					\$ 89,800.00
Design and Construction Administration (20%)					\$ 18,000.00
Total Cost					\$ 107,800.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

Downtown Loop



H St: Tulare St to Inyo St

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1680	\$ 6,720.00
2	4" White Stripe	LF	\$4.00		\$ -
3	6" White Stripe	LF	\$5.00	1890	\$ 9,450.00
4	12" White Stripe	LF	\$8.00		\$ -
5	4" Yellow Stripe	LF	\$4.00	3780	\$ 15,120.00
6	8" Yellow Stripe	LF	\$5.00		\$ -
7	Green Pavement Marking	SF	\$12.00	600	\$ 7,200.00
8	Bike Pavement Marking	EA	\$250.00	4	\$ 1,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	12	\$ 3,600.00
10	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00	12	\$ 1,800.00
12	Install High Visibility Crosswalk	EA	\$1,000.00	4	\$ 4,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 53,390.00
Traffic Control and Mobilization (12.5%)					\$ 6,700.00
Contingency (10%)					\$ 6,100.00
Total Construction Cost					\$ 66,200.00
Design and Construction Administration (20%)					\$ 13,300.00
Total Cost					\$ 79,500.00

H St: Inyo St to Cesar Chavez Blvd

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1849	\$ 7,395.56
2	4" White Stripe	LF	\$4.00		\$ -
3	6" White Stripe	LF	\$5.00	3840	\$ 19,200.00
4	12" White Stripe	LF	\$8.00	800	\$ 6,400.00
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00	960	\$ 4,800.00
7	Green Pavement Marking	SF	\$12.00	750	\$ 9,000.00
8	Bike Pavement Marking	EA	\$250.00	3	\$ 750.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	3	\$ 900.00
10	New Sign and Post	EA	\$500.00	4	\$ 2,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00	0	\$ -
12	Install High Visibility Crosswalk	EA	\$1,000.00	3	\$ 3,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	0	\$ -
Sub-Total					\$ 53,445.56
Traffic Control and Mobilization (12.5%)					\$ 6,700.00
Contingency (10%)					\$ 6,100.00
Total Construction Cost					\$ 66,300.00
Design and Construction Administration (20%)					\$ 13,300.00
Total Cost					\$ 79,600.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

Downtown Loop



Cesar Chavez Blvd: H St to O St

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	7570	\$ 30,281.48
2	4" White Stripe	LF	\$4.00	5600	\$ 22,400.00
3	6" White Stripe	LF	\$5.00	8400	\$ 42,000.00
4	12" White Stripe	LF	\$8.00	583	\$ 4,666.67
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00		\$ -
7	Green Pavement Marking	SF	\$12.00	3150	\$ 37,800.00
8	Bike Pavement Marking	EA	\$250.00	12	\$ 3,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	29	\$ 8,700.00
10	New Sign and Post	EA	\$500.00	12	\$ 6,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00		\$ -
12	Install High Visibility Crosswalk	EA	\$1,000.00	4	\$ 4,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	5	\$ 12,500.00
Sub-Total					\$ 171,348.15
Traffic Control and Mobilization (12.5%)					\$ 21,500.00
Contingency (10%)					\$ 19,300.00
Total Construction Cost					\$ 212,200.00
Design and Construction Administration (20%)					\$ 42,500.00
Total Cost					\$ 254,700.00

Cesar Chavez Blvd: O St to Santa Fe Ave

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1801	\$ 7,205.93
2	4" White Stripe	LF	\$4.00	1280	\$ 5,120.00
3	6" White Stripe	LF	\$5.00	1920	\$ 9,600.00
4	12" White Stripe	LF	\$8.00		\$ -
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00	640	\$ 3,200.00
7	Green Pavement Marking	SF	\$12.00	1050	\$ 12,600.00
8	Bike Pavement Marking	EA	\$250.00	4	\$ 1,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	9	\$ 2,700.00
10	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00		\$ -
12	Install High Visibility Crosswalk	EA	\$1,000.00	6	\$ 6,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 50,925.93
Traffic Control and Mobilization (12.5%)					\$ 6,400.00
Contingency (10%)					\$ 5,800.00
Total Construction Cost					\$ 63,200.00
Design and Construction Administration (20%)					\$ 12,700.00
Total Cost					\$ 75,900.00

City of Fresno

Active Transportation Plan

Bikeway Improvements Cost Estimate-35%

Downtown Loop



Cesar Chavez Blvd: Santa Fe Ave to R St

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	1369	\$ 5,475.56
2	4" White Stripe	LF	\$4.00	1120	\$ 4,480.00
3	6" White Stripe	LF	\$5.00	2240	\$ 11,200.00
4	12" White Stripe	LF	\$8.00	47	\$ 373.33
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00		\$ -
7	Green Pavement Marking	SF	\$12.00	600	\$ 7,200.00
8	Bike Pavement Marking	EA	\$250.00	4	\$ 1,000.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	4	\$ 1,200.00
10	New Sign and Post	EA	\$500.00	2	\$ 1,000.00
11	Flexible Delineator Post with Long Base	EA	\$150.00		\$ -
12	Install High Visibility Crosswalk	EA	\$1,000.00	1	\$ 1,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	1	\$ 2,500.00
Sub-Total					\$ 35,428.89
Traffic Control and Mobilization (12.5%)					\$ 4,500.00
Contingency (10%)					\$ 4,000.00
Total Construction Cost					\$ 44,000.00
Design and Construction Administration (20%)					\$ 8,800.00
Total Cost					\$ 52,800.00

Belmont Ave: N Blackstone Ave to N First St

Item No.	Description	Unit	Est. Unit Cost	Quantity	Cost per Mile
1	Slurry Seal (Type II)	SY	\$4.00	15196	\$ 60,782.22
2	4" White Stripe	LF	\$4.00	10520	\$ 42,080.00
3	6" White Stripe	LF	\$5.00	21040	\$ 105,200.00
4	12" White Stripe	LF	\$8.00	2192	\$ 17,533.33
5	4" Yellow Stripe	LF	\$4.00		\$ -
6	8" Yellow Stripe	LF	\$5.00		\$ -
7	Green Pavement Marking	SF	\$12.00	3900	\$ 46,800.00
8	Bike Pavement Marking	EA	\$250.00	26	\$ 6,500.00
9	Pavement Marking (Arrows + Bike Detection Symbol)	EA	\$300.00	13	\$ 3,900.00
10	New Sign and Post	EA	\$500.00	13	\$ 6,500.00
11	Flexible Delineator Post with Long Base	EA	\$150.00	438	\$ 65,750.00
12	Install High Visibility Crosswalk	EA	\$1,000.00	15	\$ 15,000.00
13	Loop/Video Detection Reconfiguration at Signalized Intersection	EA	\$2,500.00	5	\$ 12,500.00
Sub-Total					\$ 382,545.56
Traffic Control and Mobilization (12.5%)					\$ 47,900.00
Contingency (10%)					\$ 43,100.00
Total Construction Cost					\$ 473,600.00
Design and Construction Administration (20%)					\$ 94,800.00
Total Cost					\$ 568,400.00