



Engineer's Opinion of Probable Cost
Madera 1200
TIA Intersection Analysis

January 6, 2021

SUMMARY

INTERSECTION	PCE TOTALS		TIA TOTALS	
4	\$	254,544	\$	1,000,000
5	\$	865,835	\$	32,645,000
6	\$	6,545,192	\$	2,300,000
7	\$	2,447,072	\$	5,415,000
8	\$	3,334,360	\$	4,200,000
9	\$	4,526,272	\$	8,160,000
10	\$	1,308,875	\$	3,400,000
11	\$	2,110,125	\$	4,715,000
13	\$	1,332,529	\$	2,325,000
14	\$	1,146,190	\$	2,600,000
15	\$	7,221,140	\$	3,400,000
16	\$	2,669,903	\$	2,115,000
17	\$	714,143	\$	600,000
18	\$	346,500	\$	320,000
19	\$	1,508,090	\$	1,500,000
20	\$	1,187,983	\$	3,900,000
21	\$	434,710	\$	600,000
22	\$	330,000	\$	300,000
24	\$	192,140	\$	500,000
25	\$	385,000	\$	315,000
30	\$	453,730	\$	10,000
31	\$	-	\$	-
32	\$	-	\$	-
36	\$	190,000	\$	515,000
38	\$	-	\$	300,000
43	\$	-	\$	15,000,000
44	\$	-	\$	20,000
49	\$	185,000	\$	15,000
51	\$	1,297,319	\$	300,000
52	\$	2,294,459	\$	1,700,000
53	\$	2,003,339	\$	2,115,000
55	\$	2,969,663	\$	3,115,000
56	\$	2,856,138	\$	3,415,000
57	\$	3,876,060	\$	2,600,000
58	\$	2,712,324	\$	2,600,000
TOTAL	\$	57,698,636	\$	112,015,000



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January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

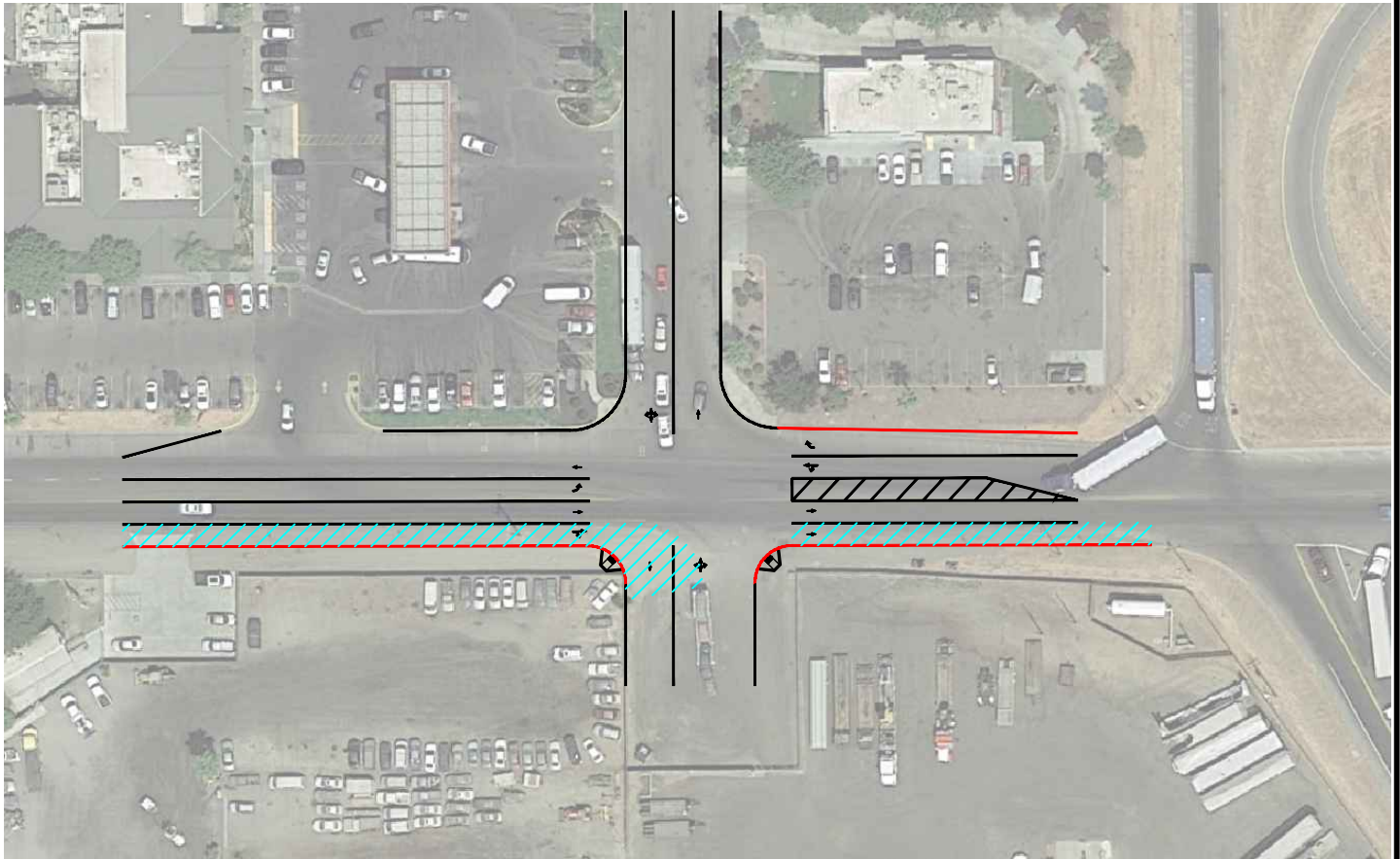
- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending
- 3 Grading and Demo factored into unit rates

DESCRIPTION

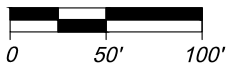
INTERSECTION 4

	Estimated		Unit		Extension
	Quantity	Unit	Price		
1 4" ASPHALT PAVEMENT	173	TON	\$ 95	\$	16,430
2 6" CLASS II ASPHALT BASE	259	TON	\$ 45	\$	11,674
3 6" CONCRETE CURB & GUTTER	674	LF	\$ 20	\$	13,480
4 TRANSITION 4" ASPHALT PAVEMENT	30	TON	\$ 95	\$	2,850
5 TRANSITION CLASS II ASPHALT BASE	45	TON	\$ 45	\$	2,025
6 HANDICAP CURB RAMP	2	EA	\$ 2,500	\$	5,000
7 STRIPING	1	LS	\$ 15,000	\$	15,000
8 POWERPOLE UNDERGROUNDING	4	EA	\$ 25,000	\$	100,000
9 ADDITIONAL RIGHT-OF-WAY	8118	SF	\$ 8	\$	64,944
10 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	LS	\$ 23,140	\$	23,140
INTERSECTION 4 TOTAL				\$	254,544

INTERSECTION 4 PISTACHIO DRIVE & AVENUE 18 1/2



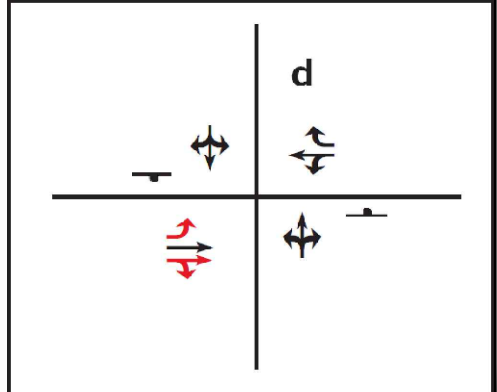
SCALE 1" = 100'



COST ESTIMATE LEGEND
 ADDITIONAL PAVEMENT REQUIRED
 ADA COMPLIANT RAMP
 LANE MARKINGS
 CURB & GUTTER

TIA LEGEND
 SIGNAL
 STOP SIGN
 DEFAC TO RIGHT TURN
 FREE RIGHT TURN
 RIGHT-TURN OVERLAP
 RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



4 Pistachio Drive/Avenue 18 1/2



EXHIBIT
 DESCRIPTION:
 INTERSECTION 4

PROJECT NAME:
 MADERA 1200 - TIA ESTIMATE
 1/6/2021 20-113

FIGURE
 4



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January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

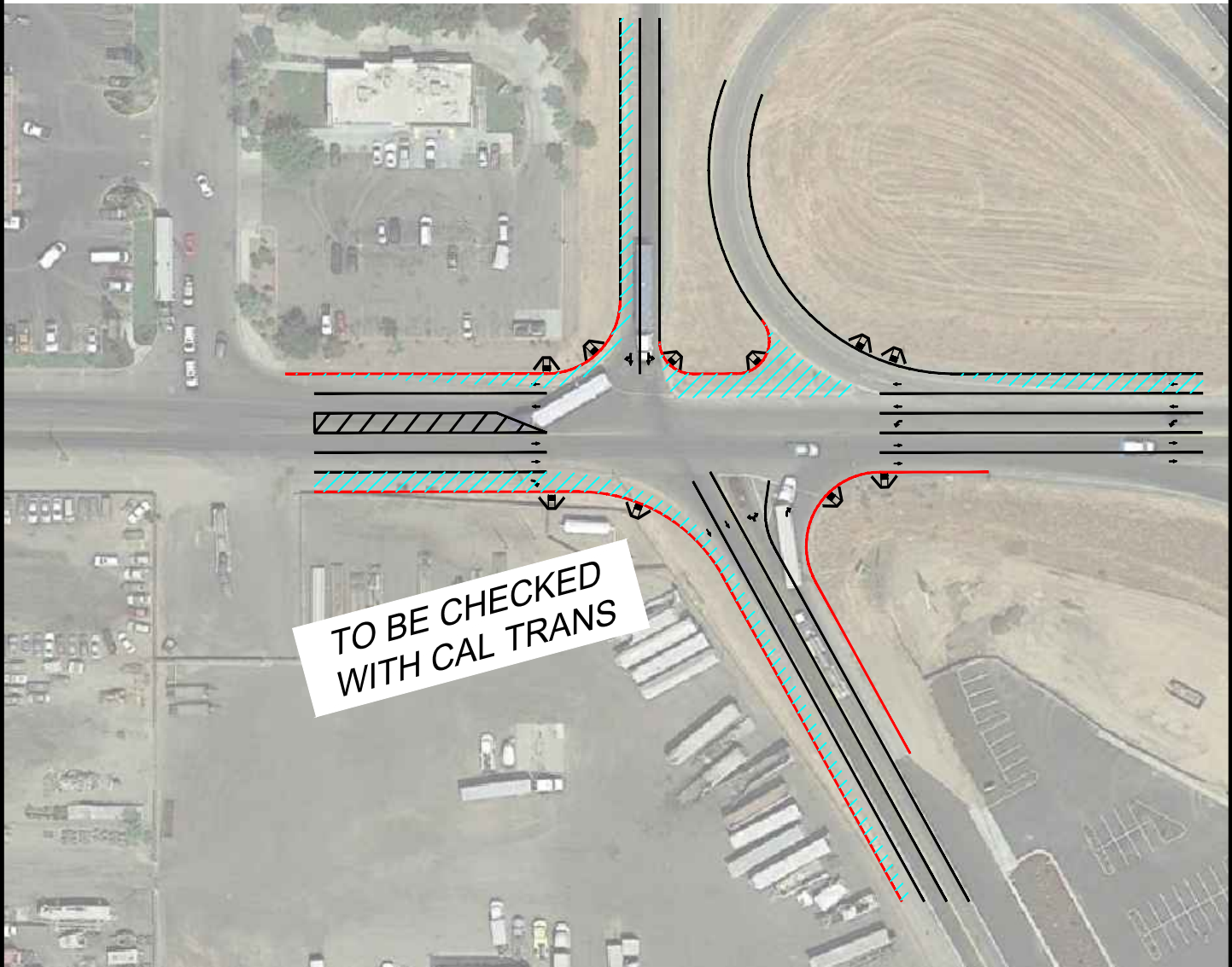
DESCRIPTION

INTERSECTION 5

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	252	TON	\$	95	\$ 23,928
2 6" CLASS II ASPHALT BASE	378	TON	\$	45	\$ 17,002
3 6" CONCRETE CURB & GUTTER	1107	LF	\$	20	\$ 22,140
4 TRANSITION 4" ASPHALT PAVEMENT	210	TON	\$	95	\$ 19,950
5 TRANSITION CLASS II ASPHALT BASE	315	TON	\$	45	\$ 14,175
6 HANDICAP CURB RAMP	10	EA	\$	2,500	\$ 25,000
7 STRIPING	1	LS	\$	20,000	\$ 20,000
8 SIGNALIZING	1	LS	\$	350,000	\$ 350,000
9 POWERPOLE UNDERGROUNDING	5	EA	\$	25,000	\$ 125,000
10 ADDITIONAL RIGHT-OF-WAY	18475	SF	\$	8	\$ 147,800
11 GRADING	1369	CY	\$	7	\$ 9,580
12 ENBANKMENT GRADING	627	CY	\$	20	\$ 12,548
13 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	LS	\$	78,712	\$ 78,712

INTERSECTION 5 TOTAL \$ 865,835

INTERSECTION 5 SR-99 SOUTHBOUND RAMPS ROAD 23 & AVENUE 18 1/2

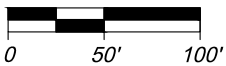


COST ESTIMATE LEGEND

- ADDITIONAL PAVEMENT REQUIRED
- ADA COMPLIANT RAMP
- LANE MARKINGS
- CURB & GUTTER



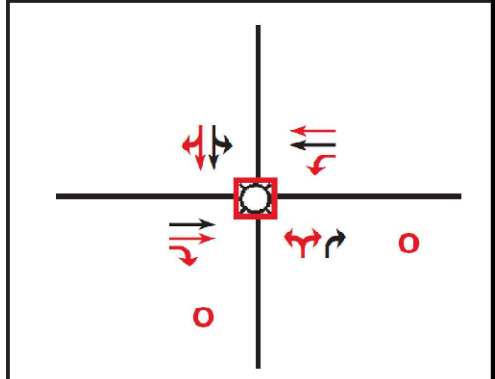
SCALE 1" = 100'



TIA LEGEND

- SIGNAL
- STOP SIGN
- DEFAC TO RIGHT TURN
- FREE RIGHT TURN
- RIGHT-TURN OVERLAP
- RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



5 SR-99 Southbound Ramps - Road 23/Avenue 18 1/2



EXHIBIT

DESCRIPTION:

INTERSECTION 5

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

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Engineer's Opinion of Probable Cost

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Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 6

Estimated

Quantity Unit

Unit

Price

Extension

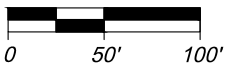
1 4" ASPHALT PAVEMENT	358	TON	\$	95	\$	34,029
2 6" CLASS II ASPHALT BASE	537	TON	\$	45	\$	24,179
3 TRANSITION 4" ASPHALT PAVEMENT	540	TON	\$	95	\$	51,300
4 TRANSITION CLASS II ASPHALT BASE	810	TON	\$	45	\$	36,450
5 STRIPING	1	LS	\$	20,000	\$	20,000
6 SIGNALIZING	1	LS	\$	350,000	\$	350,000
7 BRIDGE WIDENING	1	LS	\$	5,000,000	\$	5,000,000
8 GRADING	1331	CY	\$	7	\$	9,315
9 ENBANKMENT GRADING	6874	CY	\$	20	\$	137,479
10 ADDITIONAL RIGHT-OF-WAY	35928	SF	\$	8	\$	287,424
11 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	LS	\$	595,017	\$	595,017

INTERSECTION 6 TOTAL \$ 6,545,192

INTERSECTION 6 SR-99 NORTHBOUND RAMPS AVENUE 18 1/2



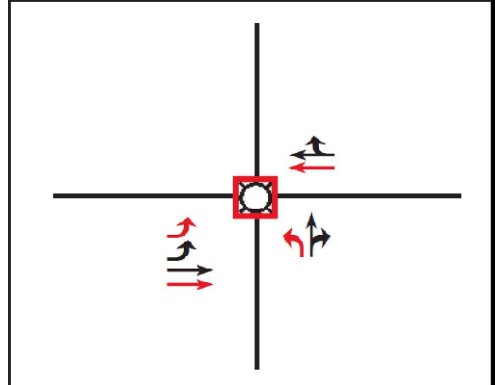
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



6 SR-99 Northbound Ramps/Avenue 18 1/2



EXHIBIT
DESCRIPTION:
INTERSECTION 6

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
6



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

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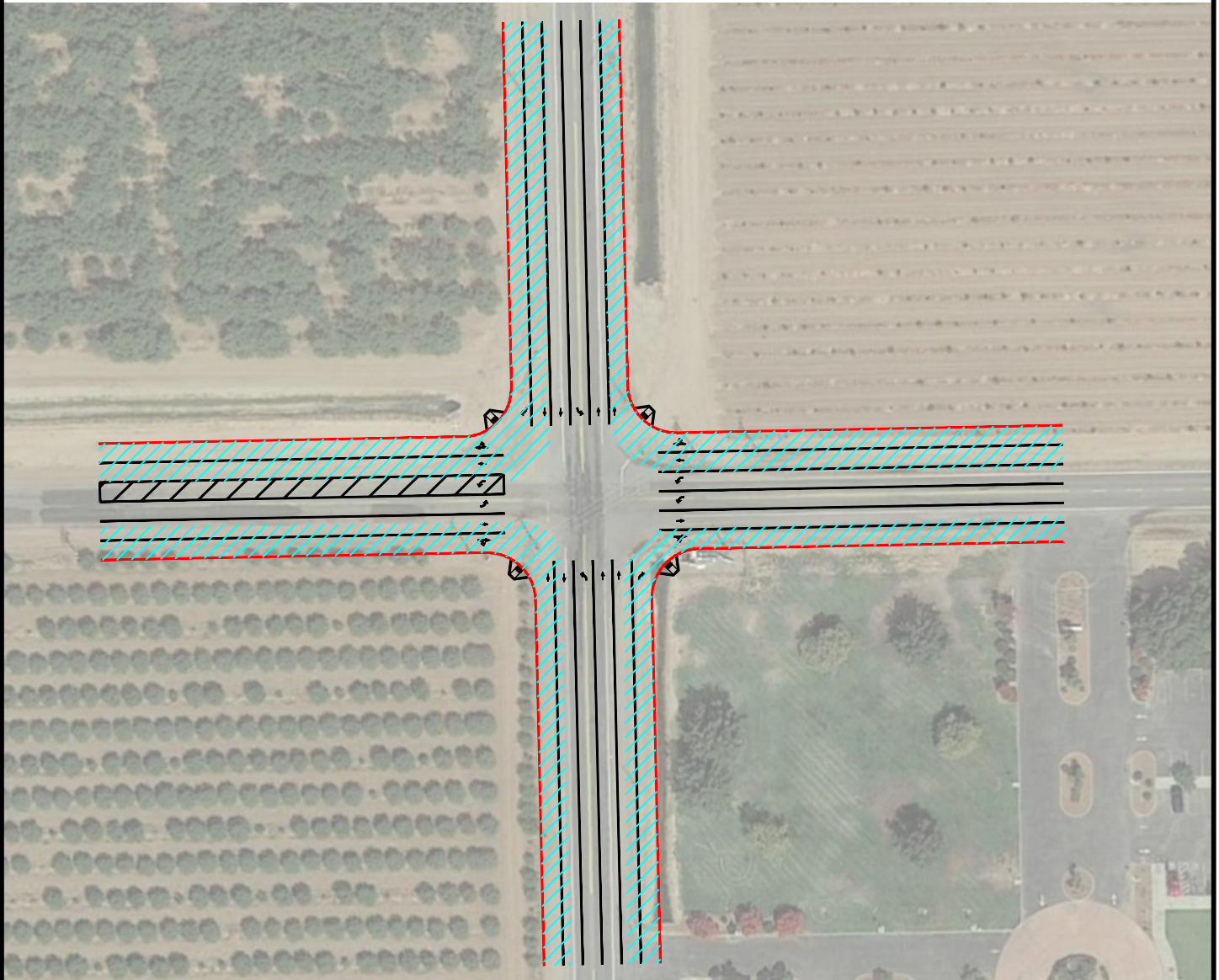
DESCRIPTION

INTERSECTION 7

	Estimated			Unit		
	Quantity	Unit		Price		Extension
1 4" ASPHALT PAVEMENT	1045	TON	\$	95	\$	99,292
2 6" CLASS II ASPHALT BASE	1568	TON	\$	45	\$	70,549
3 6" CONCRETE CURB & GUTTER	2018	LF	\$	20	\$	40,360
4 TRANSITION 4" ASPHALT PAVEMENT	1320	TON	\$	95	\$	125,400
5 TRANSITION CLASS II ASPHALT BASE	1980	TON	\$	45	\$	89,100
6 HANDICAP CURB RAMP	4	EA	\$	2,500	\$	10,000
7 STRIPING	1	LS	\$	30,000	\$	30,000
8 SIGNALIZING	1	LS	\$	400,000	\$	400,000
9 WATER PUMP RELOCATION	1	LS	\$	50,000	\$	50,000
10 POWERPOLE UNDERGROUNDING	20	EA	\$	25,000	\$	500,000
11 TREE REMOVAL	0.33	AC	\$	12,000	\$	3,998
12 ADDITIONAL RIGHT-OF-WAY	94607	SF	\$	8	\$	756,856
13 GRADING	7008	CY	\$	7	\$	49,055
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	LS	\$	222,461	\$	222,461

INTERSECTION 7 TOTAL \$ 2,447,072

INTERSECTION 7 ROAD 23 & AVENUE 17

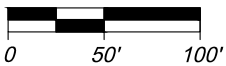


COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER



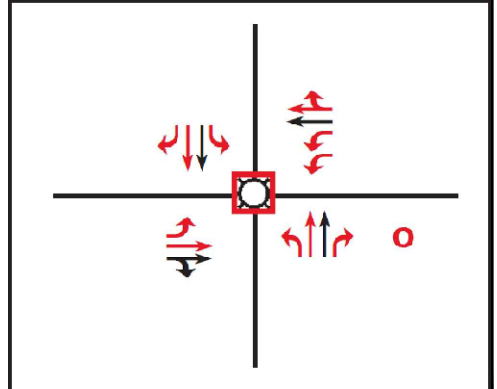
SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFAC TO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



7 Road 23/Avenue 17



EXHIBIT

DESCRIPTION:

INTERSECTION 7

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

7



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

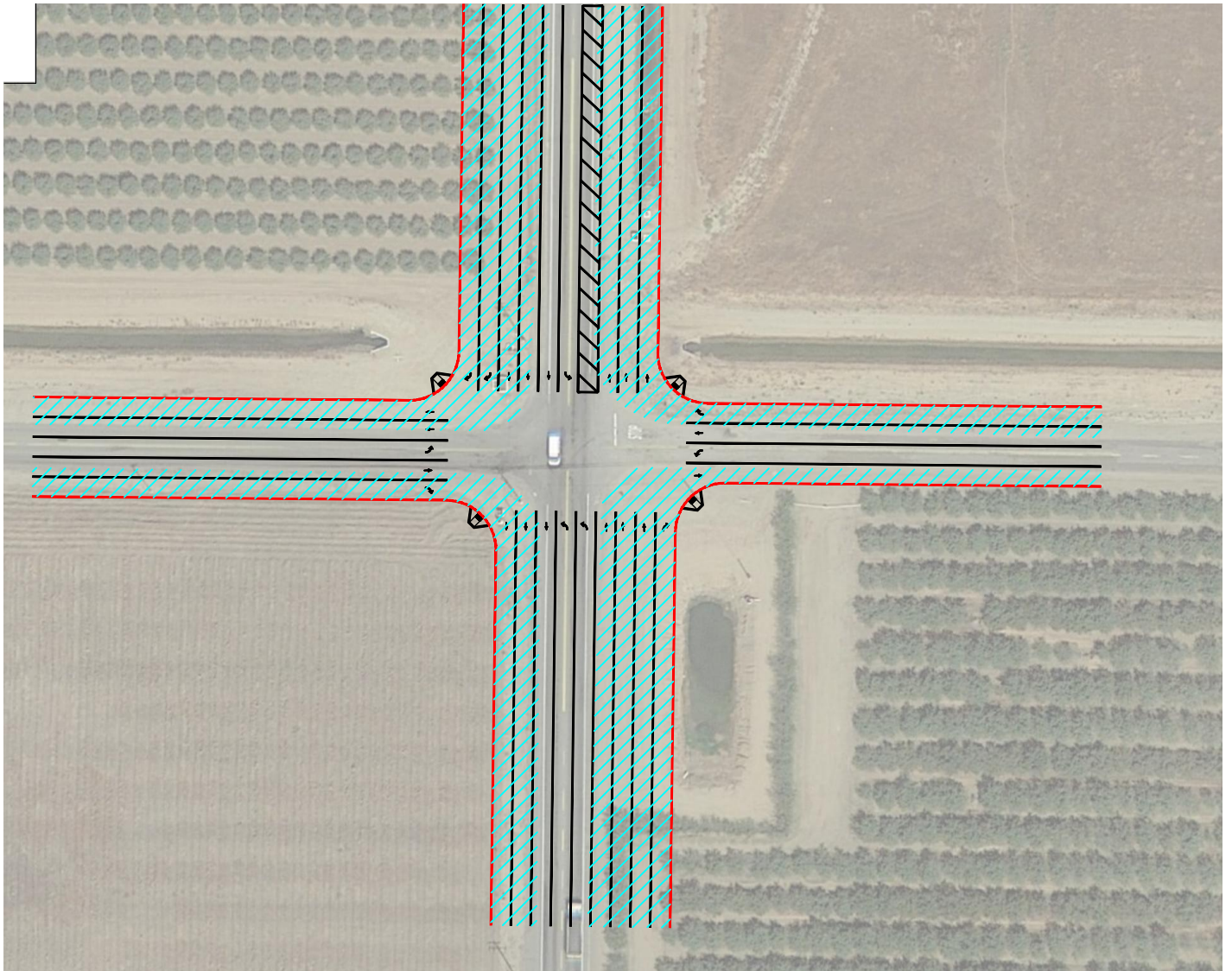
DESCRIPTION

INTERSECTION 8

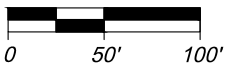
Estimated		Unit			
Quantity	Unit	Price		Extension	
1427	TON	\$	95	\$	135,565
2141	TON	\$	45	\$	96,323
2014	LF	\$	20	\$	40,280
2370	TON	\$	95	\$	225,150
3555	TON	\$	45	\$	159,975
4	EA	\$	2,500	\$	10,000
1	LS	\$	30,000	\$	30,000
1	LS	\$	400,000	\$	400,000
1	LS	\$	150,000	\$	150,000
1	LS	\$	150,000	\$	150,000
13	EA	\$	25,000	\$	325,000
1	AC	\$	12,000	\$	15,152
151880	SF	\$	8	\$	1,215,040
11250	CY	\$	7	\$	78,753
1	LS	\$	303,124	\$	303,124

INTERSECTION 8 TOTAL \$ 3,334,360

INTERSECTION 8 ROAD 23 & AVENUE 16



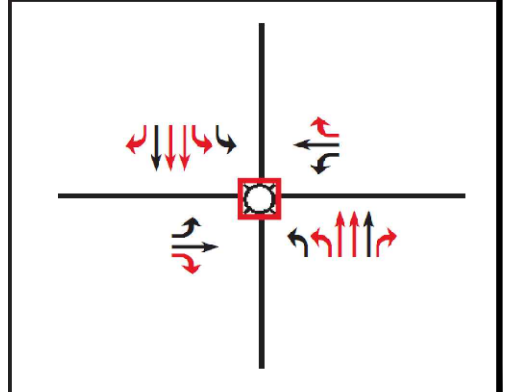
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



8 Road 23/Avenue 16



EXHIBIT

DESCRIPTION:
INTERSECTION 8

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
8



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

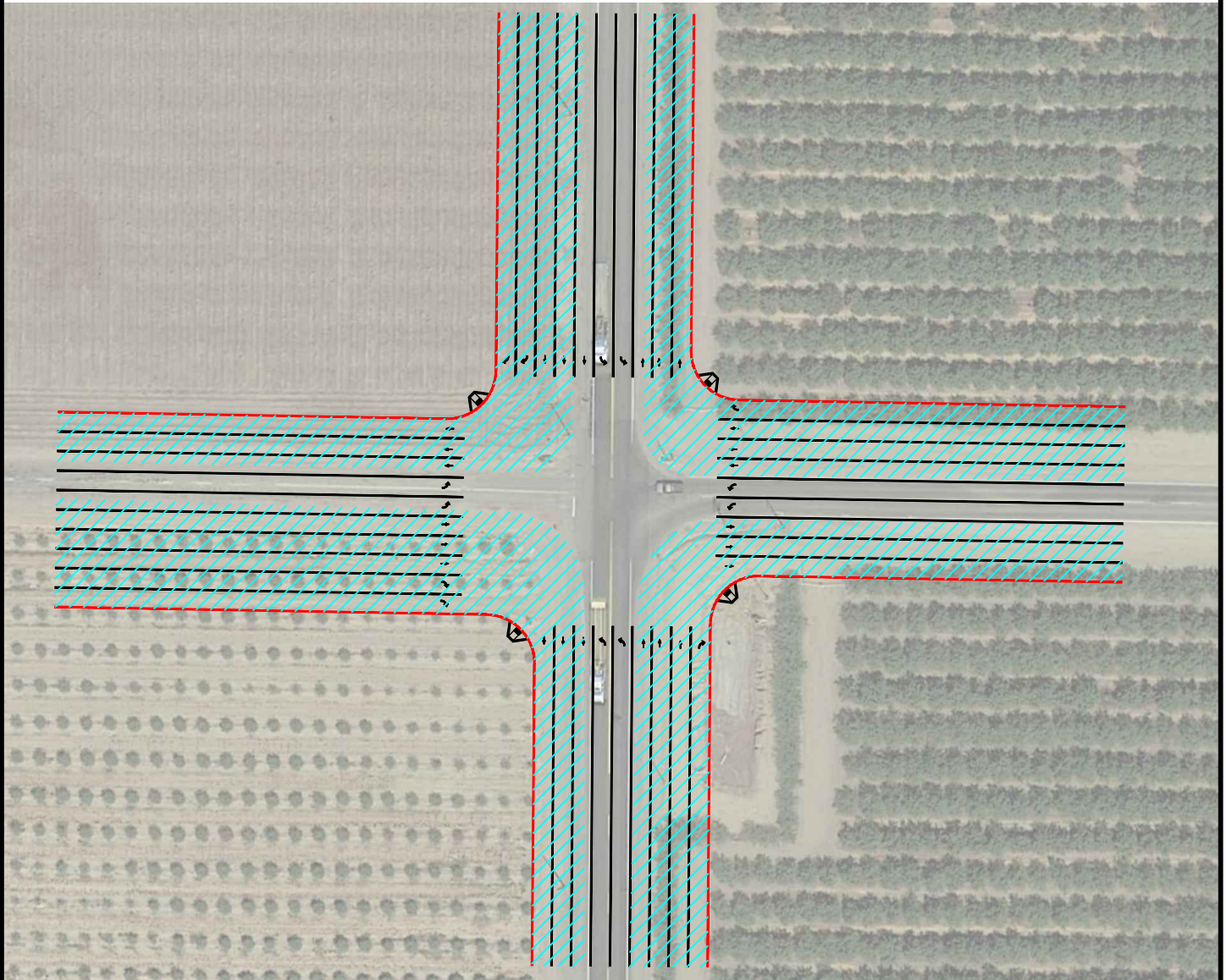
DESCRIPTION

INTERSECTION 9

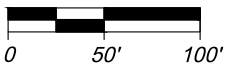
	Estimated			Unit		
	Quantity	Unit		Price		Extension
1 4" ASPHALT PAVEMENT	2278	TON	\$	95	\$	216,443
2 6" CLASS II ASPHALT BASE	3418	TON	\$	45	\$	153,789
3 6" CONCRETE CURB & GUTTER	1976	LF	\$	20	\$	39,520
4 TRANSITION 4" ASPHALT PAVEMENT	4110	TON	\$	95	\$	390,450
5 TRANSITION CLASS II ASPHALT BASE	6165	TON	\$	45	\$	277,425
6 HANDICAP CURB RAMP	4	EA	\$	2,500	\$	10,000
7 STRIPING	1	LS	\$	30,000	\$	30,000
8 SIGNALIZING	1	LS	\$	400,000	\$	400,000
9 BASIN RELOCATION	1	LS	\$	150,000	\$	150,000
10 POWERPOLE UNDERGROUNDING	8	EA	\$	25,000	\$	200,000
11 TREE REMOVAL	5.87	AC	\$	12,000	\$	70,395
12 ADDITIONAL RIGHT-OF-WAY	255534	SF	\$	8	\$	2,044,272
13 GRADING	18928	CY	\$	7	\$	132,499
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	411,479	\$	411,479

INTERSECTION 9 TOTAL \$ 4,526,272

INTERSECTION 9 ROAD 23 & CLEVELAND AVENUE



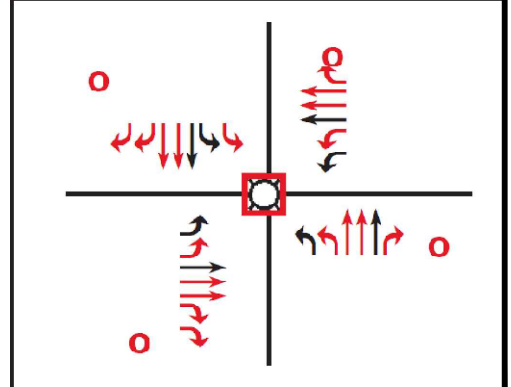
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



9 Road 23/Cleveland Avenue



EXHIBIT
DESCRIPTION:
INTERSECTION 9

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
9



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

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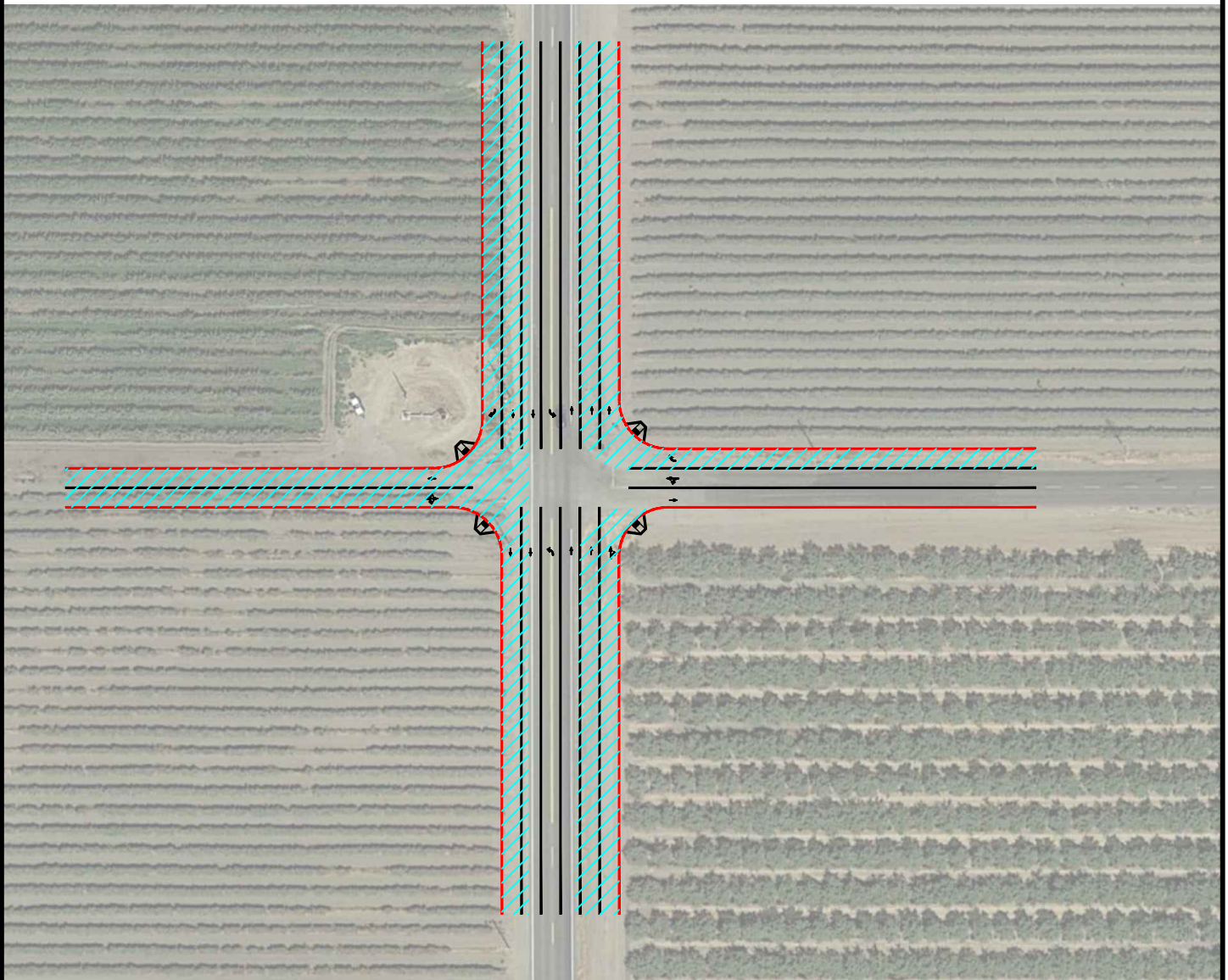
DESCRIPTION

INTERSECTION 10

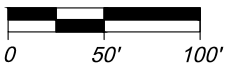
	Estimated		Unit		Extension
	Quantity	Unit	Price		
1 4" ASPHALT PAVEMENT	875	TON	\$ 95	\$	83,168
2 6" CLASS II ASPHALT BASE	1313	TON	\$ 45	\$	59,093
3 6" CONCRETE CURB & GUTTER	1996	LF	\$ 20	\$	39,920
4 TRANSITION 4" ASPHALT PAVEMENT	330	TON	\$ 95	\$	31,360
5 TRANSITION CLASS II ASPHALT BASE	495	TON	\$ 45	\$	22,282
6 HANDICAP CURB RAMP	4	EA	\$ 2,500	\$	10,000
7 STRIPING	1	LS	\$ 20,000	\$	20,000
8 SIGNALIZING	1	LS	\$ 350,000	\$	350,000
9 POWERPOLE UNDERGROUNDING	6	EA	\$ 25,000	\$	150,000
10 TREE REMOVAL	1.11	AC	\$ 12,000	\$	13,284
11 ADDITIONAL RIGHT-OF-WAY	48222	SF	\$ 8	\$	385,776
12 GRADING	3572	CY	\$ 7	\$	25,004
13 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$ 118,989	\$	118,989

INTERSECTION 10 TOTAL \$ 1,308,875

INTERSECTION 10 ROAD 23 & AVENUE 14 1/2



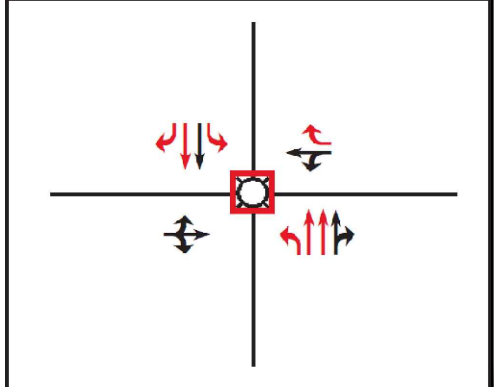
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



10 Road 23/Avenue 14 1/2

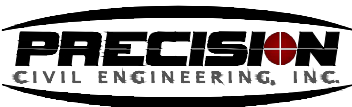


EXHIBIT
DESCRIPTION:
INTERSECTION 10

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
10



Engineer's Opinion of Probable Cost

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Madera 1200

TIA Intersection Analysis

Notes:

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- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

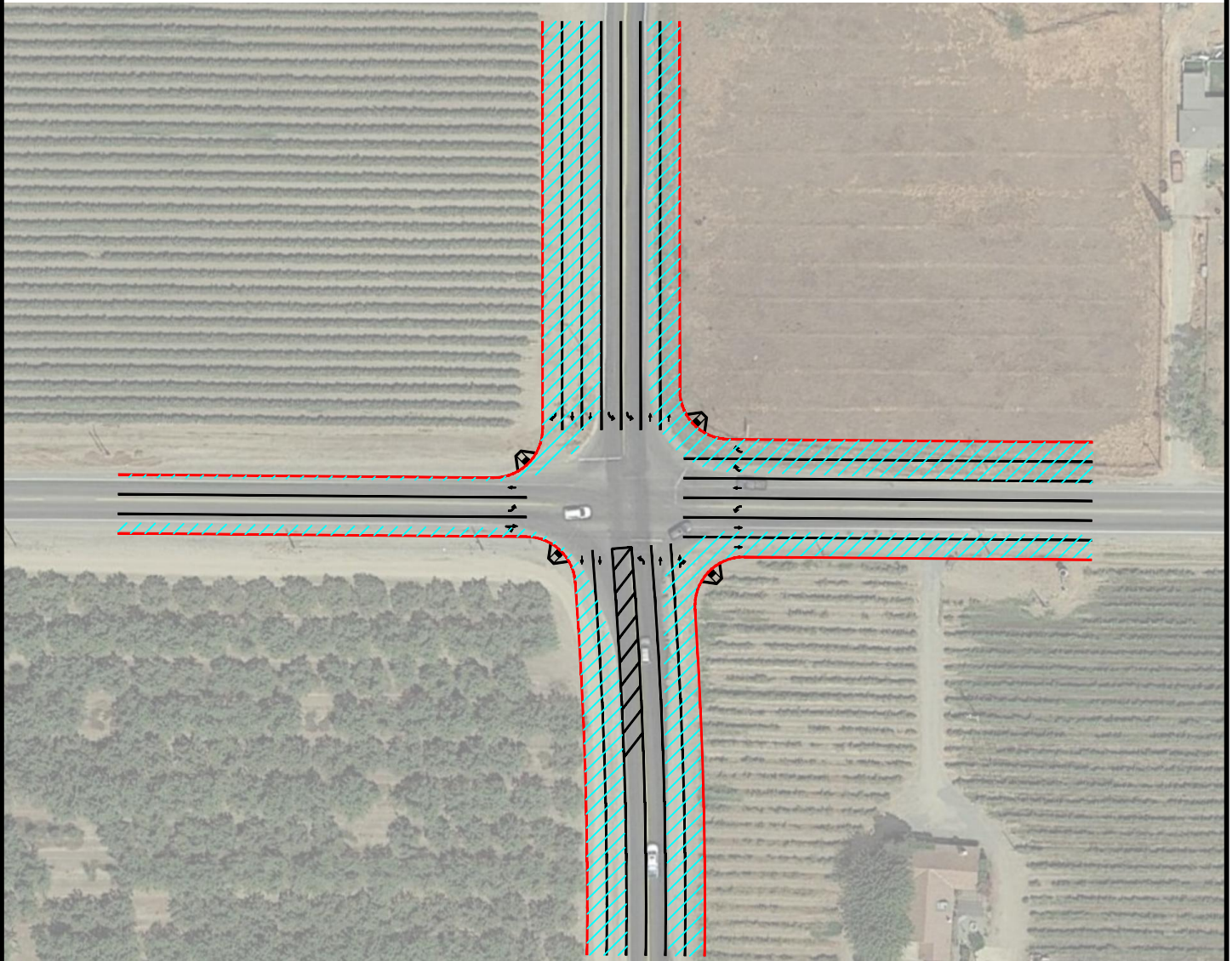
DESCRIPTION

INTERSECTION 11

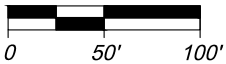
	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	900	TON	\$	95 \$	85,505
2 6" CLASS II ASPHALT BASE	1350	TON	\$	45 \$	60,753
3 6" CONCRETE CURB & GUTTER	2031	LF	\$	20 \$	40,620
4 TRANSITION 4" ASPHALT PAVEMENT	1590	TON	\$	95 \$	151,050
5 TRANSITION CLASS II ASPHALT BASE	2385	TON	\$	45 \$	107,325
6 HANDICAP CURB RAMP	4	EA	\$	2,500 \$	10,000
7 STRIPING	1	LS	\$	20,000 \$	20,000
8 SIGNALIZING	1	LS	\$	350,000 \$	350,000
9 POWERPOLE UNDERGROUNDING	9	EA	\$	25,000 \$	225,000
10 TREE REMOVAL	1.63	AC	\$	12,000 \$	19,581
11 ADDITIONAL RIGHT-OF-WAY	99602	SF	\$	8 \$	796,816
12 GRADING	7378	CY	\$	7 \$	51,645
13 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	191,830 \$	191,830

INTERSECTION 11 TOTAL \$ 2,110,125

INTERSECTION 11 ROAD 23 & AVENUE 14



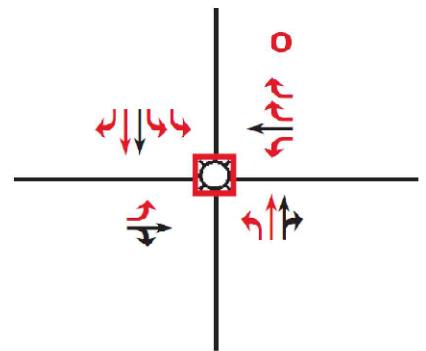
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



11 Road 23/Avenue 14

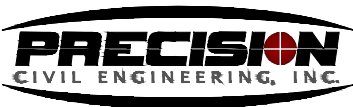


EXHIBIT
DESCRIPTION:
INTERSECTION 11

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
11



Engineer's Opinion of Probable Cost

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Notes:

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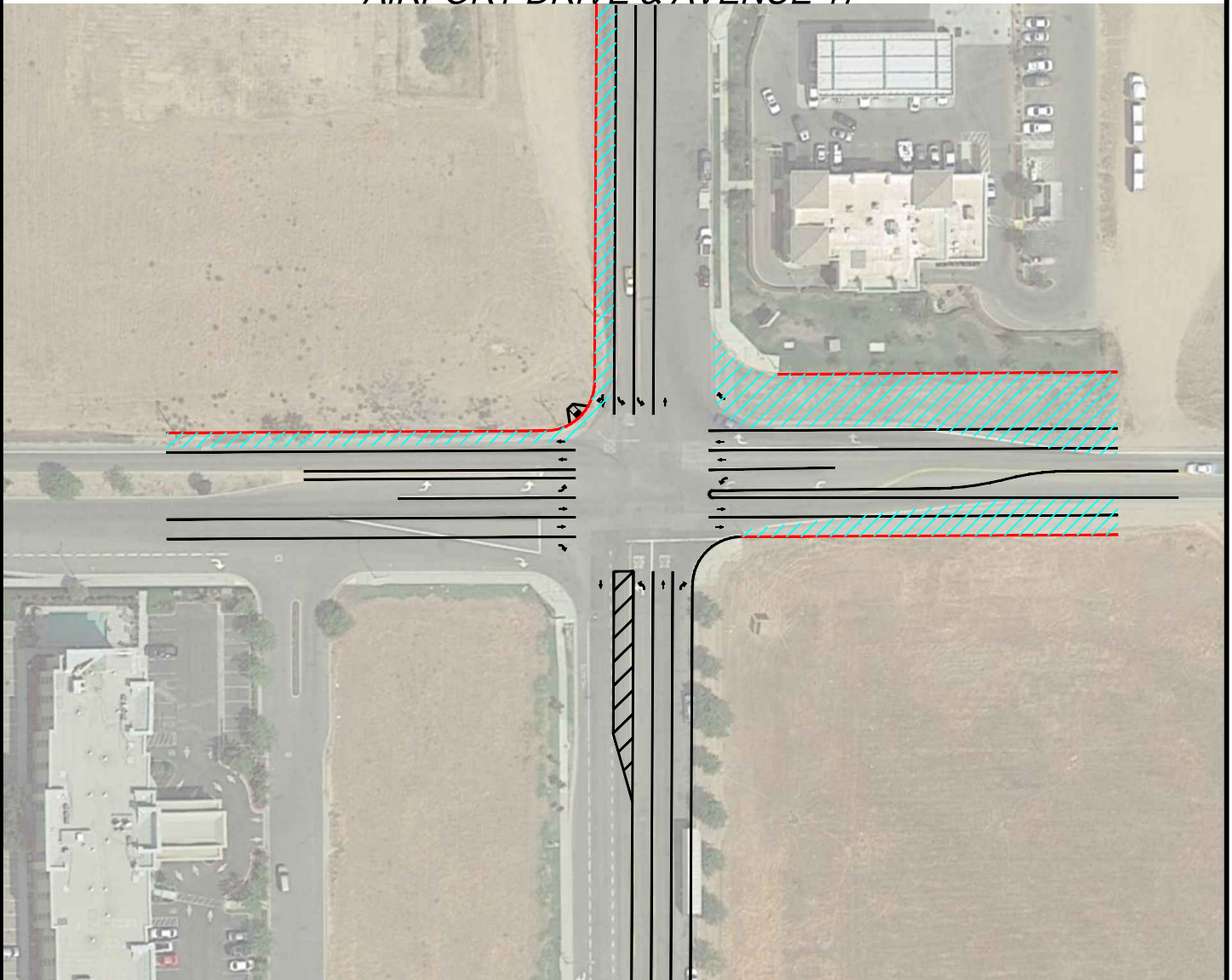
DESCRIPTION

INTERSECTION 13

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	457	TON	\$	95 \$	43,389
2 6" CLASS II ASPHALT BASE	685	TON	\$	45 \$	30,829
3 6" CONCRETE CURB & GUTTER	951	LF	\$	20 \$	19,020
4 TRANSITION 4" ASPHALT PAVEMENT	780	TON	\$	95 \$	74,100
5 TRANSITION CLASS II ASPHALT BASE	1170	TON	\$	45 \$	52,650
6 HANDICAP CURB RAMP	2	EA	\$	2,500 \$	5,000
7 STRIPING	1	LS	\$	15,000 \$	15,000
8 SIGNALIZING	1	LS	\$	400,000 \$	400,000
9 POWERPOLE UNDERGROUNDING	6	EA	\$	25,000 \$	150,000
10 ADDITIONAL RIGHT-OF-WAY	49469	SF	\$	8 \$	395,752
11 GRADING	3664	CY	\$	7 \$	25,651
12 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	121,139 \$	121,139

INTERSECTION 13 TOTAL \$ 1,332,529

INTERSECTION 13 GOLDEN STATE BOULEVARD AIRPORT DRIVE & AVENUE 17



COST ESTIMATE LEGEND

ADDITIONAL PAVEMENT REQUIRED

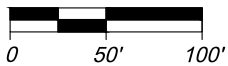
ADA COMPLIANT RAMP

LANE MARKINGS

CURB & GUTTER



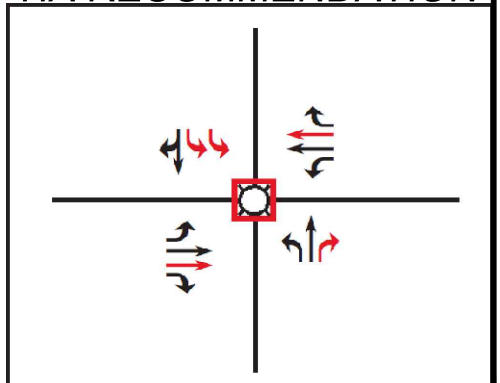
SCALE 1" = 100'



TIA LEGEND

SIGNAL
 STOP SIGN
 DEFAC TO RIGHT TURN
 FREE RIGHT TURN
 RIGHT-TURN OVERLAP
 RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



13 Golden State Boulevard - Airport Drive/Avenue 17



EXHIBIT

DESCRIPTION:

INTERSECTION 13

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

13



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

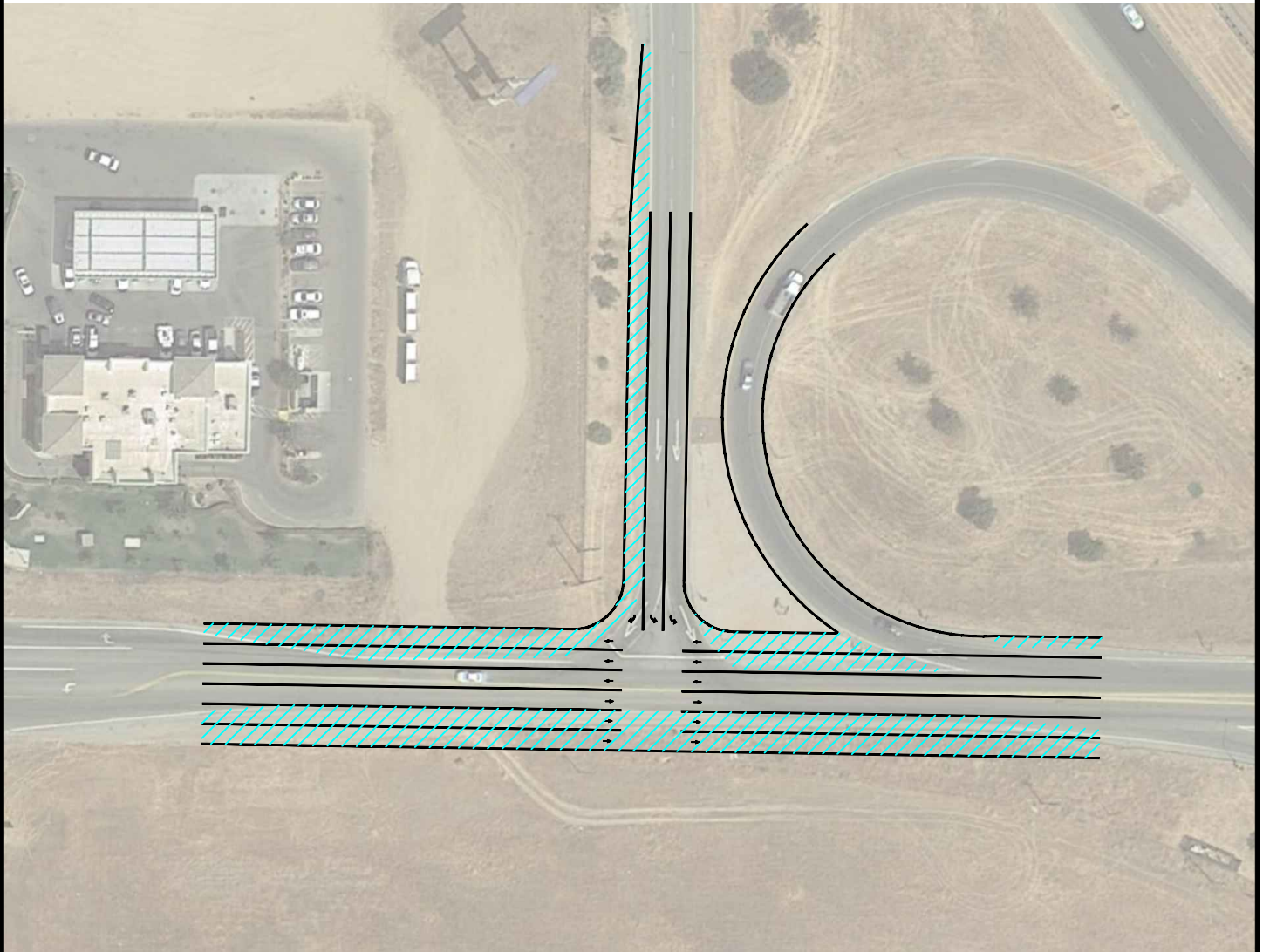
INTERSECTION 14

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	556	TON	\$	95	\$ 52,830
2 6" CLASS II ASPHALT BASE	834	TON	\$	45	\$ 37,537
3 TRANSITION 4" ASPHALT PAVEMENT	660	TON	\$	95	\$ 62,700
4 TRANSITION CLASS II ASPHALT BASE	990	TON	\$	45	\$ 44,550
5 STRIPING	1	LS	\$	30,000	\$ 30,000
6 SIGNALIZING	1	LS	\$	400,000	\$ 400,000
7 ADDITIONAL RIGHT-OF-WAY	48644	SF	\$	8	\$ 389,152
8 GRADING	3603	CY	\$	7	\$ 25,223
9 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	104,199	\$ 104,199

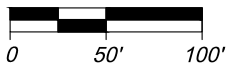
INTERSECTION 14 TOTAL \$ 1,146,190

INTERSECTION 14

SR-99 SOUTHBOUND RAMP & AVENUE 17



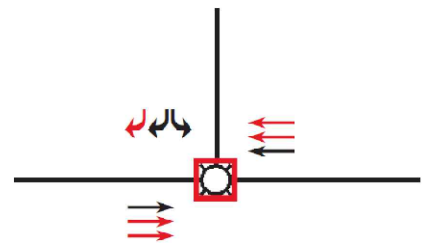
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
-  ADDITIONAL PAVEMENT REQUIRED
 -  ADA COMPLIANT RAMP
 -  LANE MARKINGS
 -  CURB & GUTTER

- TIA LEGEND**
-  SIGNAL
 -  STOP SIGN
 -  DEFACTO RIGHT TURN
 -  FREE RIGHT TURN
 -  RIGHT-TURN OVERLAP
 -  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



14 SR-99 Southbound Ramps/Avenue 17



EXHIBIT

DESCRIPTION:

INTERSECTION 14

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE

14



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

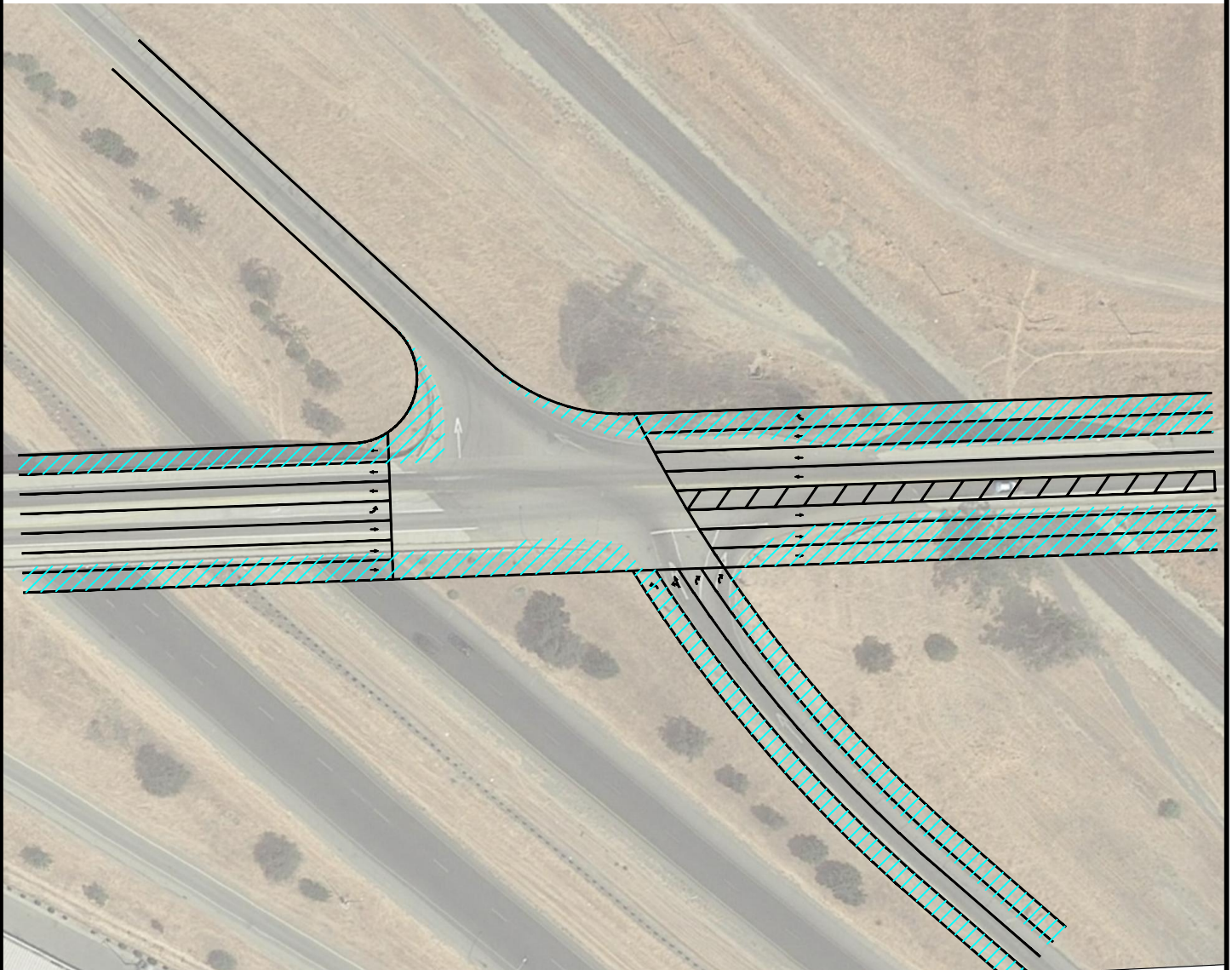
DESCRIPTION

INTERSECTION 15

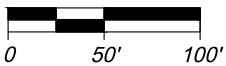
	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	895	TON	\$	95 \$	84,989
2 6" CLASS II ASPHALT BASE	1342	TON	\$	45 \$	60,387
3 6" CONCRETE CURB & GUTTER	985	LF	\$	20 \$	19,700
4 TRANSITION 4" ASPHALT PAVEMENT	1080	TON	\$	95 \$	102,600
5 TRANSITION CLASS II ASPHALT BASE	1620	TON	\$	45 \$	72,900
6 STRIPING	1	LS	\$	30,000 \$	30,000
7 SIGNALIZING	1	LS	\$	400,000 \$	400,000
8 BRIDGE WIDENING	1	LS	\$	5,000,000 \$	5,000,000
9 ADDITIONAL RIGHT-OF-WAY	78985	SF	\$	8 \$	631,880
10 GRADING	5851	CY	\$	7 \$	40,955
11 ENBANKMENT GRADING	6063	CY	\$	20 \$	121,261
11 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	656,467 \$	656,467

INTERSECTION 15 TOTAL \$ 7,221,140

INTERSECTION 15 SR-99 NORTHBOUND RAMPS & AVENUE 17



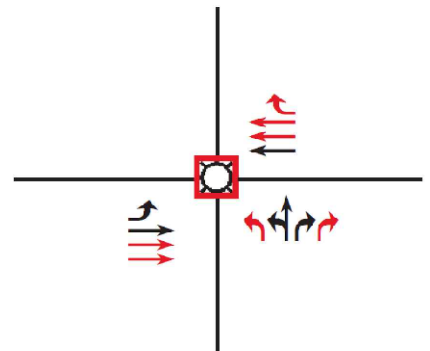
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



15 SR-99 Northbound Ramps/Avenue 17



EXHIBIT

DESCRIPTION:
INTERSECTION 15

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
15



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

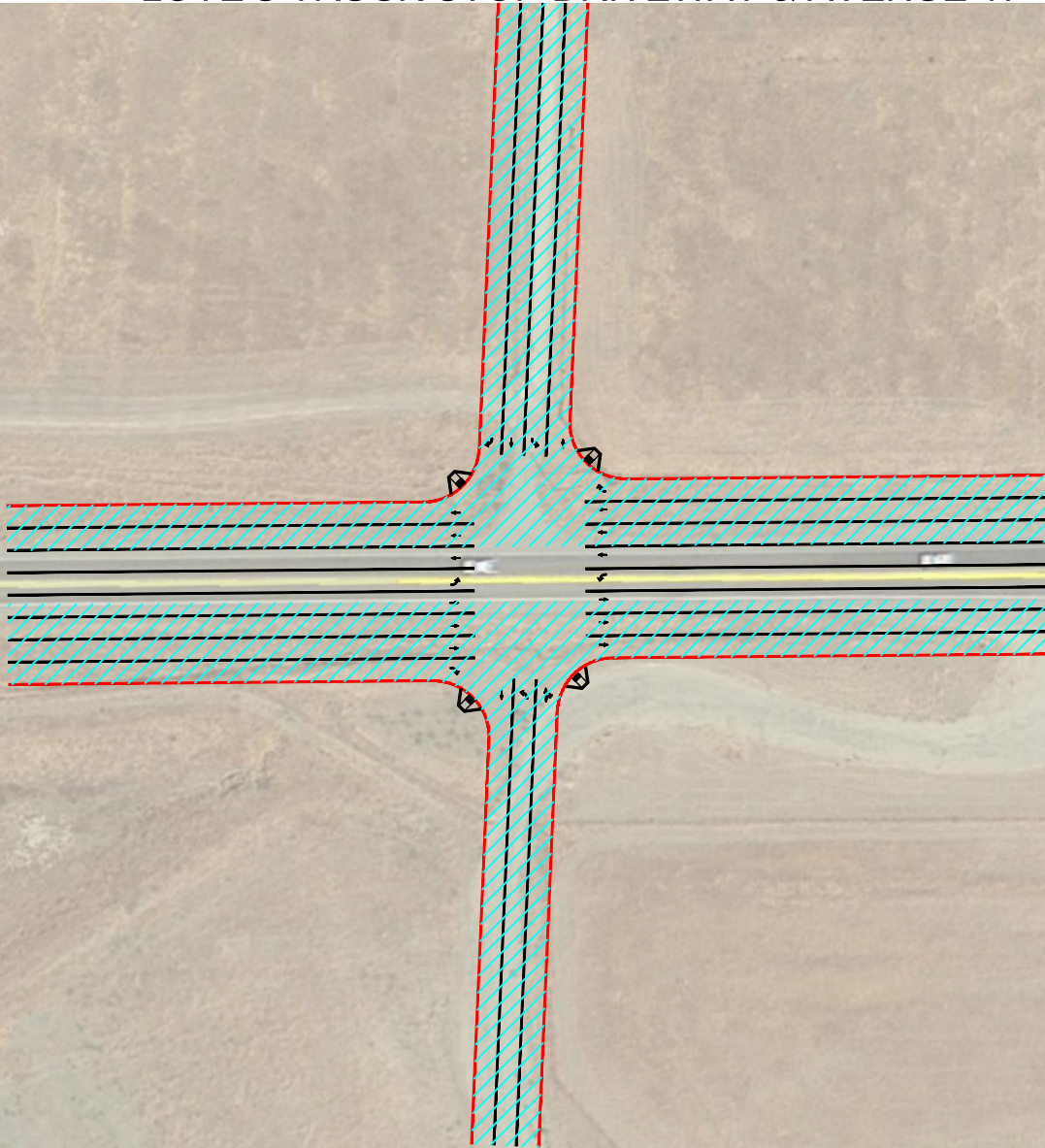
DESCRIPTION

INTERSECTION 16

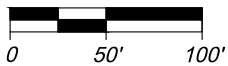
	Estimated		Unit			Extension
	Quantity	Unit				
1 4" ASPHALT PAVEMENT	1500	TON	\$	95	\$	142,495
2 6" CLASS II ASPHALT BASE	2250	TON	\$	45	\$	101,247
3 6" CONCRETE CURB & GUTTER	2032	LF	\$	20	\$	40,640
4 TRANSITION 4" ASPHALT PAVEMENT	2070	TON	\$	95	\$	196,650
5 TRANSITION CLASS II ASPHALT BASE	3105	TON	\$	45	\$	139,725
6 HANDICAP CURB RAMP	4	EA	\$	2,500	\$	10,000
7 STRIPING	1	LS	\$	30,000	\$	30,000
8 SIGNALIZING	1	LS	\$	400,000	\$	400,000
9 POWERPOLE UNDERGROUNDING	6	EA	\$	25,000	\$	150,000
10 ADDITIONAL RIGHT-OF-WAY	142798	SF	\$	8	\$	1,142,384
11 GRADING	10578	CY	\$	7	\$	74,043
12 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	242,718	\$	242,718

INTERSECTION 16 TOTAL \$ 2,669,903

INTERSECTION 16 LOVE'S TRUCK STOP DRIVEWAY & AVENUE 17



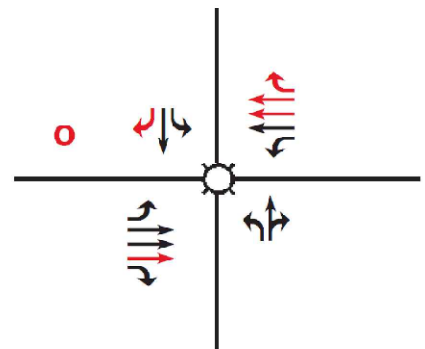
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



16 Love's Truck Stop Driveway/Avenue 17



EXHIBIT

DESCRIPTION:
INTERSECTION 16

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
16



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending
- 3 Grading factored into unit rates

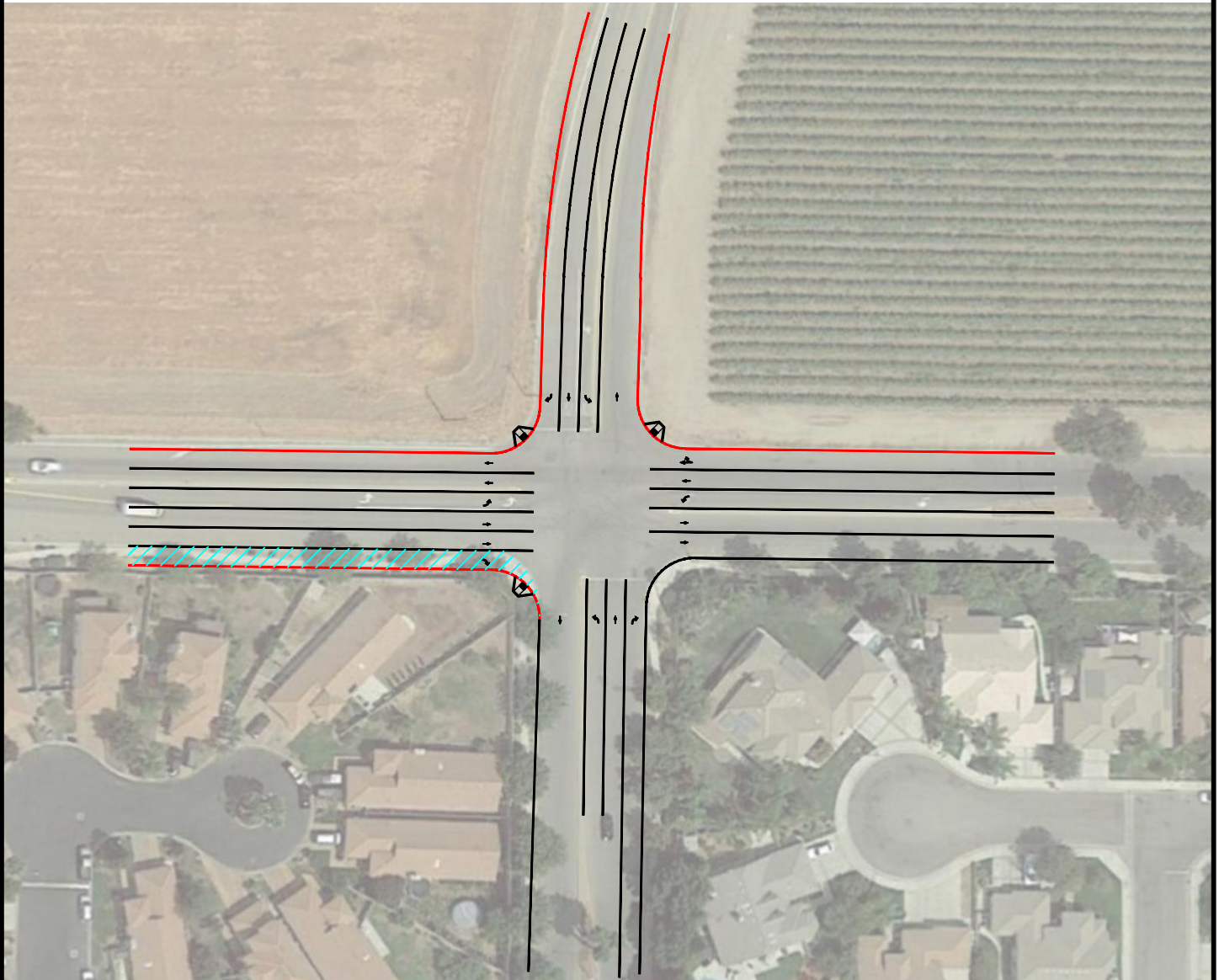
DESCRIPTION

INTERSECTION 17

Estimated		Unit		Price	Extension
Quantity	Unit				
74	TON	\$	95	\$	7,066
112	TON	\$	45	\$	5,020
1318	LF	\$	20	\$	26,360
30	TON	\$	95	\$	2,850
45	TON	\$	45	\$	2,025
3	EA	\$	2,500	\$	7,500
1	LS	\$	15,000	\$	15,000
1	LS	\$	350,000	\$	350,000
6	EA	\$	25,000	\$	150,000
4175	SF	\$	8	\$	33,400
1	LS	\$	50,000	\$	50,000
1	ls	\$	64,922	\$	64,922

INTERSECTION 17 TOTAL \$ 714,143

INTERSECTION 17 WESTBERRY BOULEVARD & CLEVELAND AVENUE



COST ESTIMATE LEGEND

ADDITIONAL PAVEMENT REQUIRED

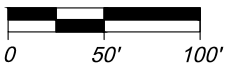
ADA COMPLIANT RAMP

LANE MARKINGS

CURB & GUTTER



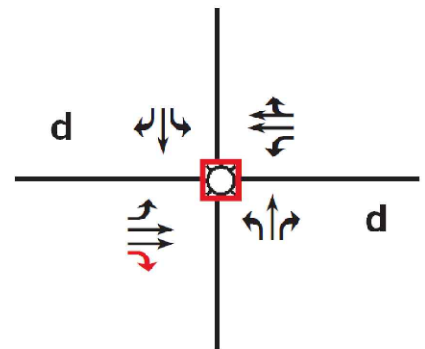
SCALE 1" = 100'



TIA LEGEND

SIGNAL
 STOP SIGN
 DEFAC TO RIGHT TURN
 FREE RIGHT TURN
 RIGHT-TURN OVERLAP
 RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



17 Westberry Boulevard/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 17

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

17



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 18

Estimated		Unit		Price		Extension
Quantity	Unit					
1	LS	\$	15,000	\$		15,000
1	LS	\$	300,000	\$		300,000
1	ls	\$	31,500	\$		31,500

- 1 STRIPING
- 2 SIGNALIZING
- 3 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)

INTERSECTION 18 TOTAL \$ 346,500

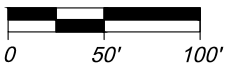
INTERSECTION 18 WESTBERRY BOULEVARD & SUNSET AVENUE



COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

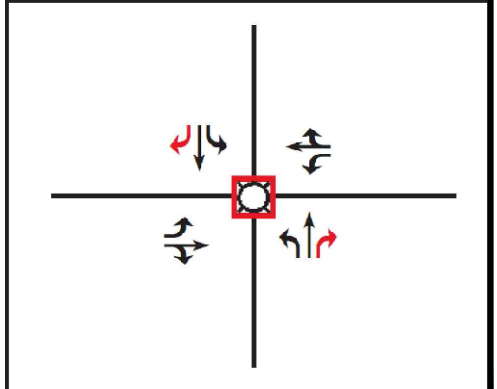
SCALE 1" = 100'



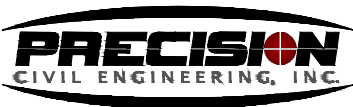
TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFACTO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



18 Westberry Boulevard/Sunset Avenue



EXHIBIT

DESCRIPTION:
INTERSECTION 18

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

18



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

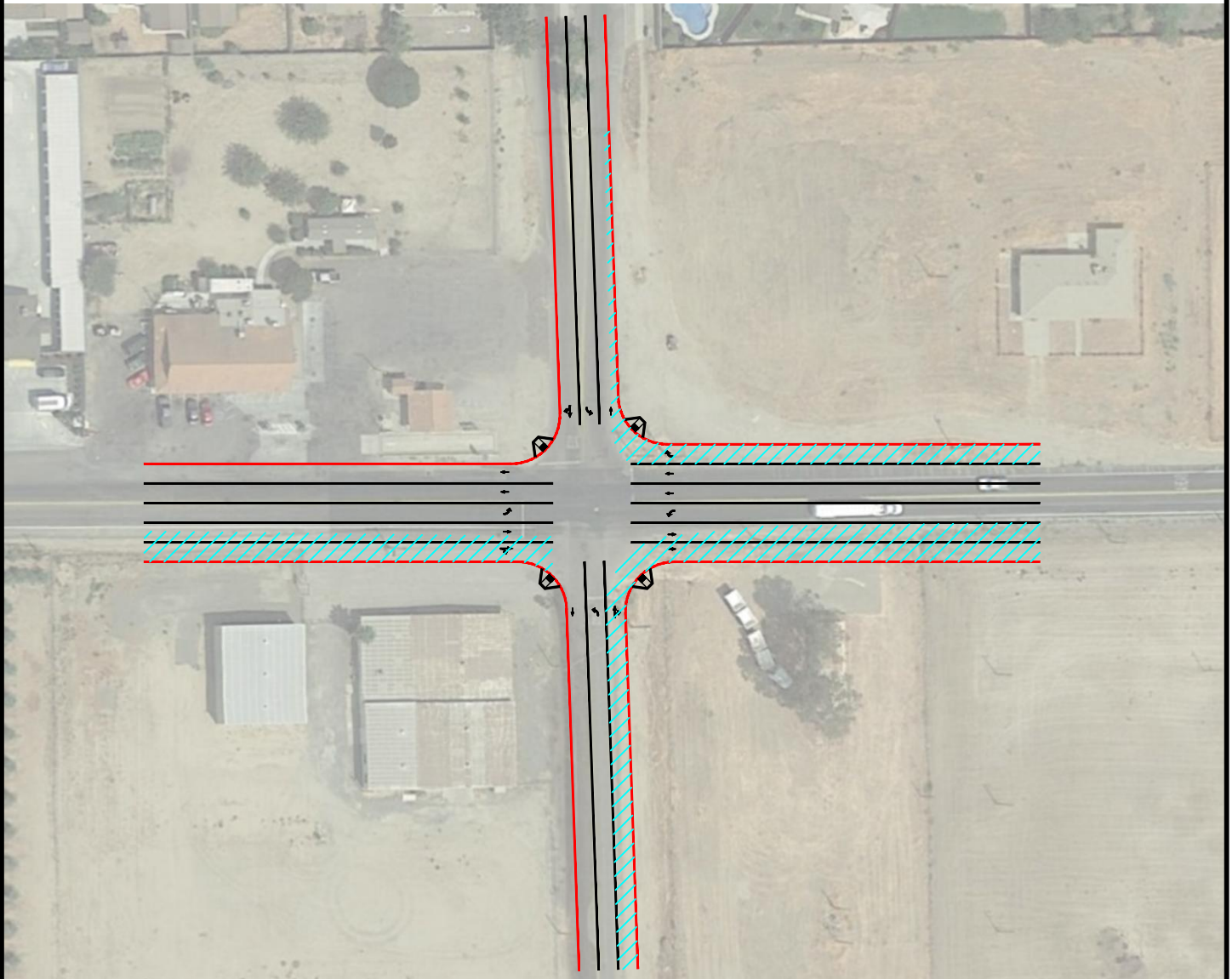
DESCRIPTION

INTERSECTION 19

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	415	TON	\$	95 \$	39,411
2 6" CLASS II ASPHALT BASE	622	TON	\$	45 \$	28,002
3 6" CONCRETE CURB & GUTTER	2009	LF	\$	20 \$	40,180
4 TRANSITION 4" ASPHALT PAVEMENT	630	TON	\$	95 \$	59,850
5 TRANSITION CLASS II ASPHALT BASE	945	TON	\$	45 \$	42,525
6 HANDICAP CURB RAMP	4	EA	\$	2,500 \$	10,000
7 STRIPING	1	LS	\$	20,000 \$	20,000
8 SIGNALIZING	1	LS	\$	350,000 \$	350,000
9 POWERPOLE UNDERGROUNDING	17	EA	\$	25,000 \$	425,000
10 ADDITIONAL RIGHT-OF-WAY	41794	SF	\$	8 \$	334,352
11 GRADING	3096	CY	\$	7 \$	21,671
12 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	137,099 \$	137,099

INTERSECTION 19 TOTAL \$ 1,508,090

INTERSECTION 19 WESTBERRY BOULEVARD & AVENUE 14



COST ESTIMATE LEGEND

ADDITIONAL PAVEMENT REQUIRED

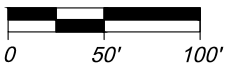
ADA COMPLIANT RAMP

LANE MARKINGS

CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN



DEFACTO RIGHT TURN



FREE RIGHT TURN

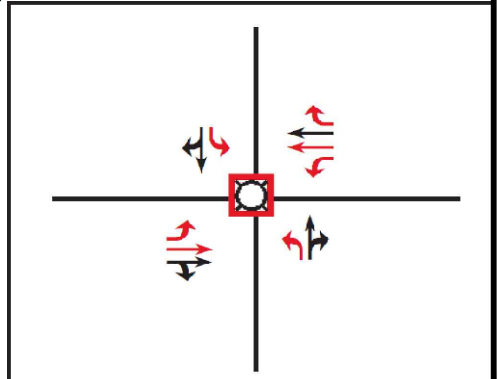


RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



19 Westberry Boulevard/Avenue 14



EXHIBIT

DESCRIPTION:

INTERSECTION 19

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

19



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

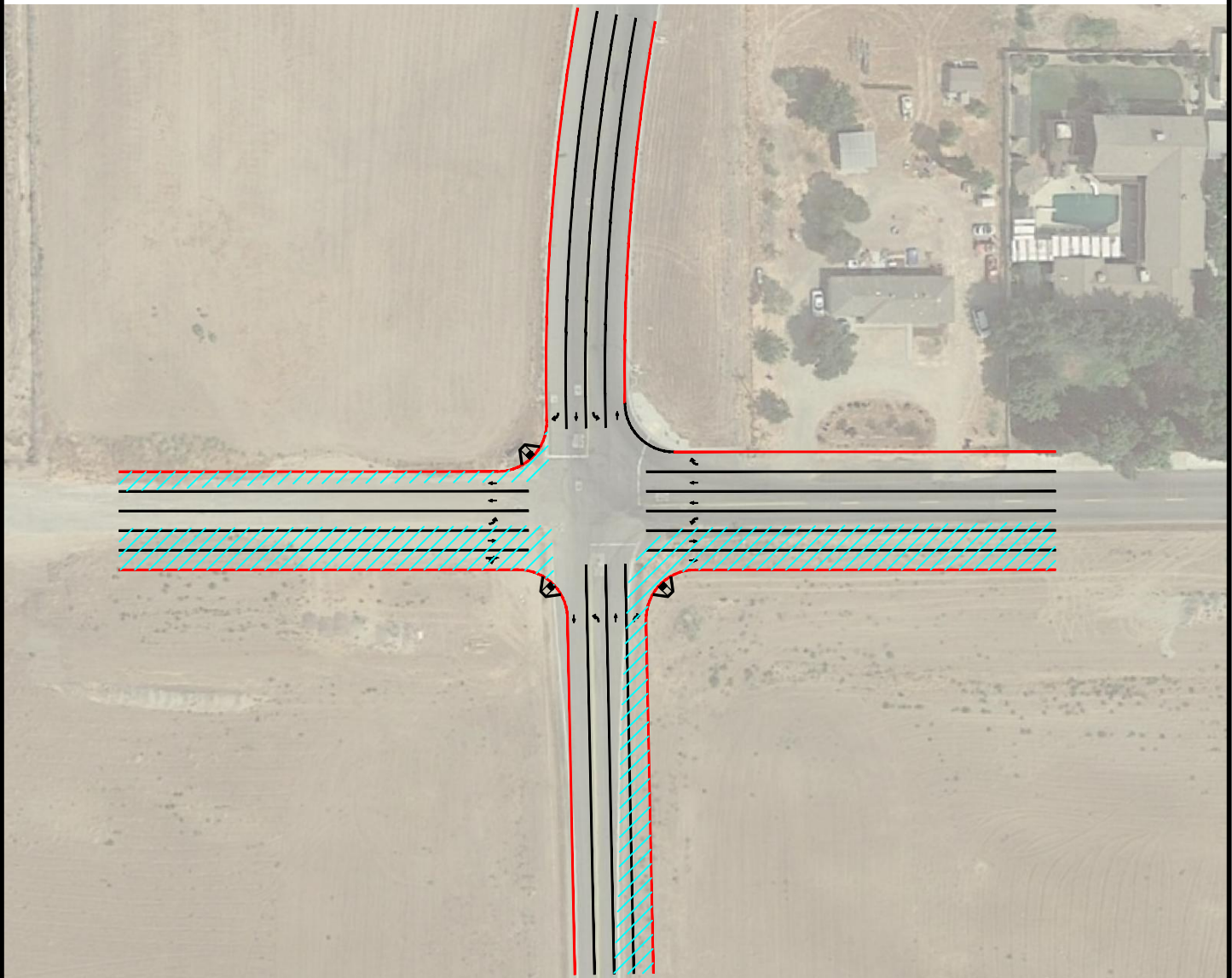
DESCRIPTION

INTERSECTION 20

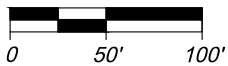
	Estimated		Unit			Extension
	Quantity	Unit			Price	
1 4" ASPHALT PAVEMENT	508	TON	\$	95	\$	48,241
2 6" CLASS II ASPHALT BASE	762	TON	\$	45	\$	34,277
3 6" CONCRETE CURB & GUTTER	1990	LF	\$	20	\$	39,800
4 TRANSITION 4" ASPHALT PAVEMENT	660	TON	\$	95	\$	62,700
5 TRANSITION CLASS II ASPHALT BASE	990	TON	\$	45	\$	44,550
6 HANDICAP CURB RAMP	3	EA	\$	2,500	\$	7,500
7 STRIPING	1	LS	\$	20,000	\$	20,000
8 SIGNALIZING	1	LS	\$	350,000	\$	350,000
9 POWERPOLE UNDERGROUNDING	3	EA	\$	25,000	\$	75,000
10 ADDITIONAL RIGHT-OF-WAY	46712	SF	\$	8	\$	373,696
11 GRADING	3460	CY	\$	7	\$	24,221
12 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	107,998	\$	107,998

INTERSECTION 20 TOTAL \$ 1,187,983

INTERSECTION 20 WESTBERRY BOULEVARD & AVENUE 16



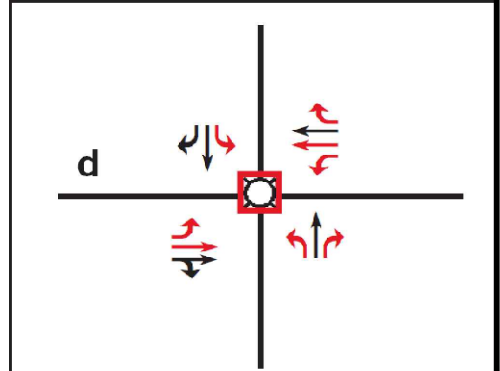
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



20 Westberry Boulevard/Avenue 16



EXHIBIT

DESCRIPTION:
INTERSECTION 20

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
20



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending
- 3 Grading factored into unit rates

DESCRIPTION

INTERSECTION 21

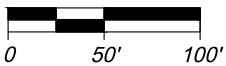
<u>Estimated</u>	<u>Unit</u>		<u>Unit</u>	<u>Price</u>		<u>Extension</u>
<u>Quantity</u>	<u>Unit</u>					
45	TON	\$	95	\$		4,296
68	TON	\$	45	\$		3,053
168	LF	\$	20	\$		3,360
2	EA	\$	2,500	\$		5,000
770	SF	\$	8	\$		6,160
770	SF	\$	5	\$		3,850
1	LS	\$	5,000	\$		5,000
1	LS	\$	300,000	\$		300,000
1809	SF	\$	8	\$		14,472
1	LS	\$	50,000	\$		50,000
1	LS	\$	39,519	\$		39,519

INTERSECTION 21 TOTAL \$ 434,710

INTERSECTION 21 GRANADA DRIVE & CLEVELAND AVENUE



SCALE 1" = 100'



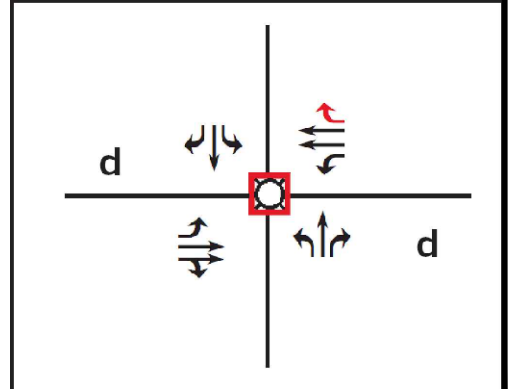
COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

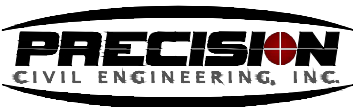
TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  *d* DEFACTO RIGHT TURN
-  *f* FREE RIGHT TURN
-  *o* RIGHT-TURN OVERLAP
-   RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



21 Granada Drive/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 21

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

21



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 22

Estimated		Unit		Price		Extension
Quantity	Unit					
1	LS	\$	300,000	\$		300,000
1	LS	\$	30,000	\$		30,000
INTERSECTION 22 TOTAL \$						<u>330,000</u>

1 SIGNALIZING

2 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)

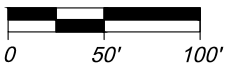
INTERSECTION 22 GRANADA DRIVE & SUNSET AVENUE



COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

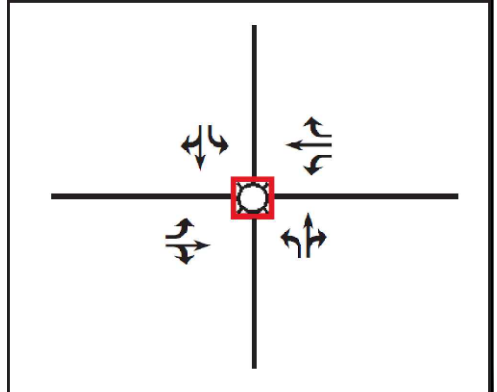
SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFACTO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



22 Granada Drive/Sunset Avenue



EXHIBIT

DESCRIPTION:
INTERSECTION 22

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

22



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 24

Estimated		Unit		Price		Extension
Quantity	Unit					
1	LS	\$	15,000	\$		15,000
357	LF	\$	20	\$		7,140
1	LS	\$	150,000	\$		150,000
1	LS	\$	20,000	\$		20,000

INTERSECTION 24 TOTAL \$ 192,140

INTERSECTION 24 SCHNOOR AVENUE & KENNEDY STREET



COST ESTIMATE LEGEND

 ADDITIONAL PAVEMENT REQUIRED

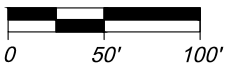
 ADA COMPLIANT RAMP

 LANE MARKINGS

 CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN

d

DEFACTO RIGHT TURN

f

FREE RIGHT TURN

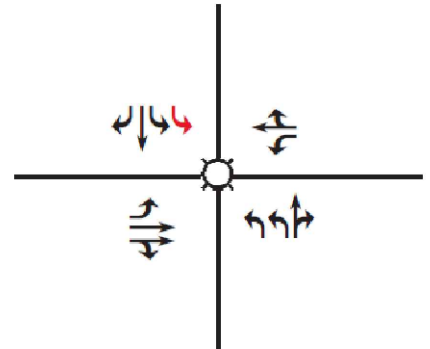
o

RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



24 Schnoor Avenue/Kennedy Street



EXHIBIT

DESCRIPTION:

INTERSECTION 24

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

24



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

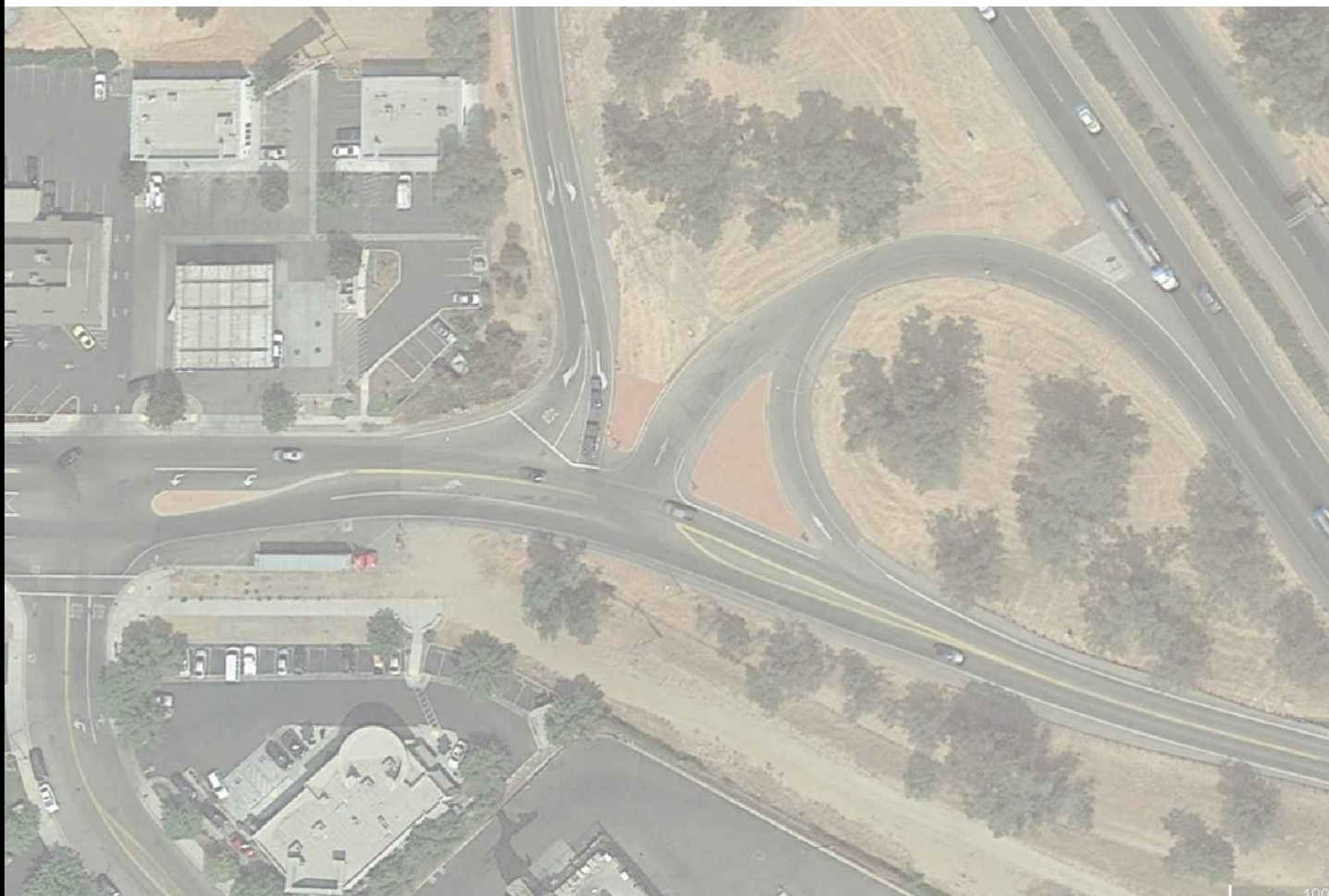
- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 25

Estimated		Unit		Price	Extension
Quantity	Unit				
1	LS	\$	350,000	\$	350,000
2	ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	LS	\$	35,000
INTERSECTION 25 TOTAL					\$ 385,000

INTERSECTION 25 **SR-99 SOUTHBOUND RAMPS @** **KENNEDY STREET/GATEWAY DRIVE**

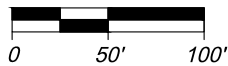


COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFACTO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION

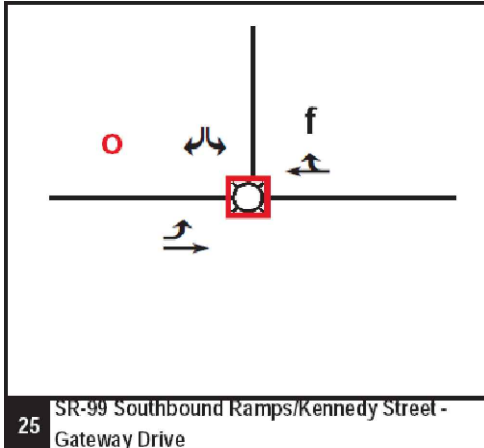


EXHIBIT
DESCRIPTION: INTERSECTION 25

PROJECT NAME: MADERA 1200 - TIA ESTIMATE	
1/6/2021	20-113

FIGURE 25



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending
- 3 Grading factored into unit rates

DESCRIPTION

INTERSECTION 30

<u>Estimated</u>	<u>Unit</u>	<u>Unit</u>	<u>Extension</u>
<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	
225	TON	\$ 95	\$ 21,380
338	TON	\$ 45	\$ 15,191
576	LF	\$ 20	\$ 11,520
150	TON	\$ 95	\$ 14,250
225	TON	\$ 45	\$ 10,125
2	EA	\$ 2,500	\$ 5,000
1	LS	\$ 15,000	\$ 15,000
1	LS	\$ 150,000	\$ 150,000
15002	SF	\$ 8	\$ 120,016
1	LS	\$ 50,000	\$ 50,000
1	ls	\$ 41,248	\$ 41,248

1 4" ASPHALT PAVEMENT

2 6" CLASS II ASPHALT BASE

3 6" CONCRETE CURB & GUTTER

4 TRANSITION 4" ASPHALT PAVEMENT

5 TRANSITION CLASS II ASPHALT BASE

6 HANDICAP CURB RAMP

7 STRIPING

8 RELOCATING SIGNALS

9 ADDITIONAL RIGHT-OF-WAY

10 DEMO

11 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)

INTERSECTION 30 TOTAL \$ 453,730

INTERSECTION 30 FAIRGROUND @ CLEVELAND AVENUE



COST ESTIMATE LEGEND

ADDITIONAL PAVEMENT REQUIRED

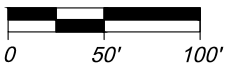
ADA COMPLIANT RAMP

LANE MARKINGS

CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN

d

DEFACTO RIGHT TURN

f

FREE RIGHT TURN

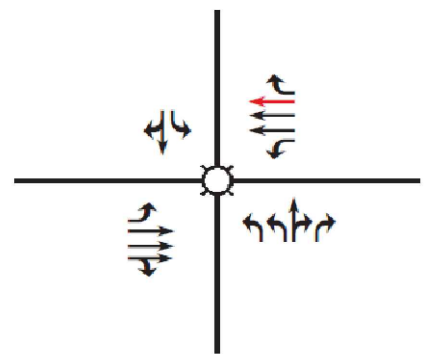
o

RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



30 Fairgrounds/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 30

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

30



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 31

Estimated

Quantity Unit

Unit

Price

Extension

INTERSECTION 31 TOTAL \$ -

TO BE CHECKED
WITH CAL TRANS

INTERSECTION 31

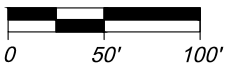
SR-99 SOUTHBOUND RAMPS @ CLEVELAND AVENUE



COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

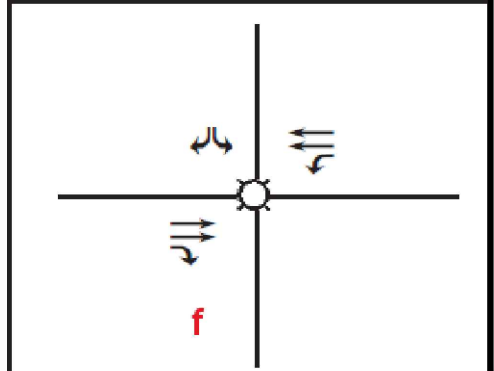
SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
- d* DEFACTO RIGHT TURN
- f* FREE RIGHT TURN
- o* RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



31 SR-99 Southbound Ramps/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 31

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

31



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 32

Estimated

Quantity Unit

Unit

Price

Extension

INTERSECTION 32 TOTAL \$ -

TO BE CHECKED
WITH CAL TRANS

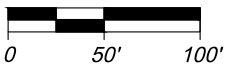
INTERSECTION 32 SR-99 NORTHBOUND RAMPS @ CLEVELAND AVENUE



COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

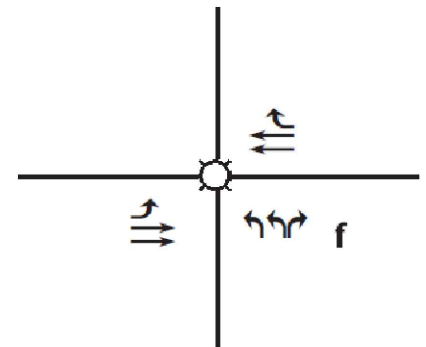
SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFACTO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



32 SR-99 Northbound Ramps/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 32

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

32



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 36

Estimated		Unit		Price		Extension
Quantity	Unit					
1	LS	\$	20,000	\$		20,000
1	LS	\$	150,000	\$		150,000
1	ls	\$	20,000	\$		20,000

1 STRIPING

2 SIGNAL MODIFICATION

3 ENGINEERING & TESTING

INTERSECTION 36 TOTAL \$ 190,000

INTERSECTION 36 PINE STREET AND HOWARD ROAD



COST ESTIMATE LEGEND

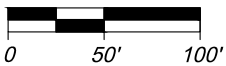
 ADDITIONAL PAVEMENT REQUIRED

 ADA COMPLIANT RAMP

 LANE MARKINGS

 CURB & GUTTER

SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN

d

DEFACTO RIGHT TURN

f

FREE RIGHT TURN

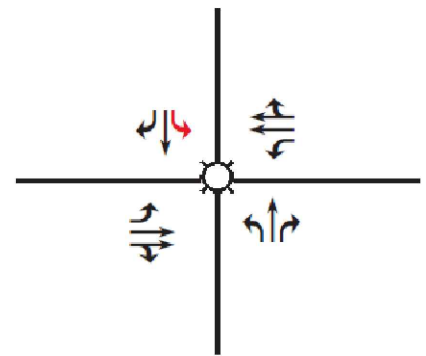
o

RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



36 Pine Street/Howard Road



EXHIBIT

DESCRIPTION:

INTERSECTION 36

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

36



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 38

Estimated

Quantity Unit

Unit

Price

Extension

INTERSECTION 38 TOTAL \$ -

TO BE CHECKED
WITH CAL TRANS

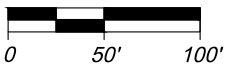
INTERSECTION 38 I STREET/SR-99 SOUTHBOUND OFF-RAMP AND 2ND STREET



COST ESTIMATE LEGEND

- ADDITIONAL PAVEMENT REQUIRED
- ADA COMPLIANT RAMP
- LANE MARKINGS
- CURB & GUTTER

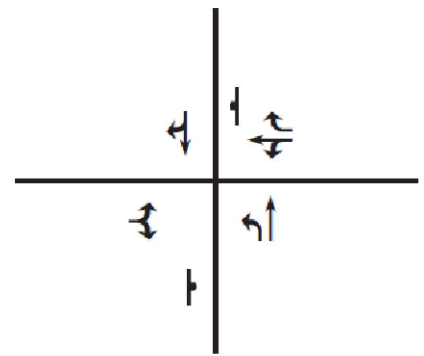
SCALE 1" = 100'



TIA LEGEND

- SIGNAL
- STOP SIGN
- DEFACTO RIGHT TURN
- FREE RIGHT TURN
- RIGHT-TURN OVERLAP
- RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



38 I Street/SR-99 Southbound Off-Ramp - 2nd Street



EXHIBIT

DESCRIPTION:

INTERSECTION 38

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

38



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 43

Estimated

Quantity Unit

Unit

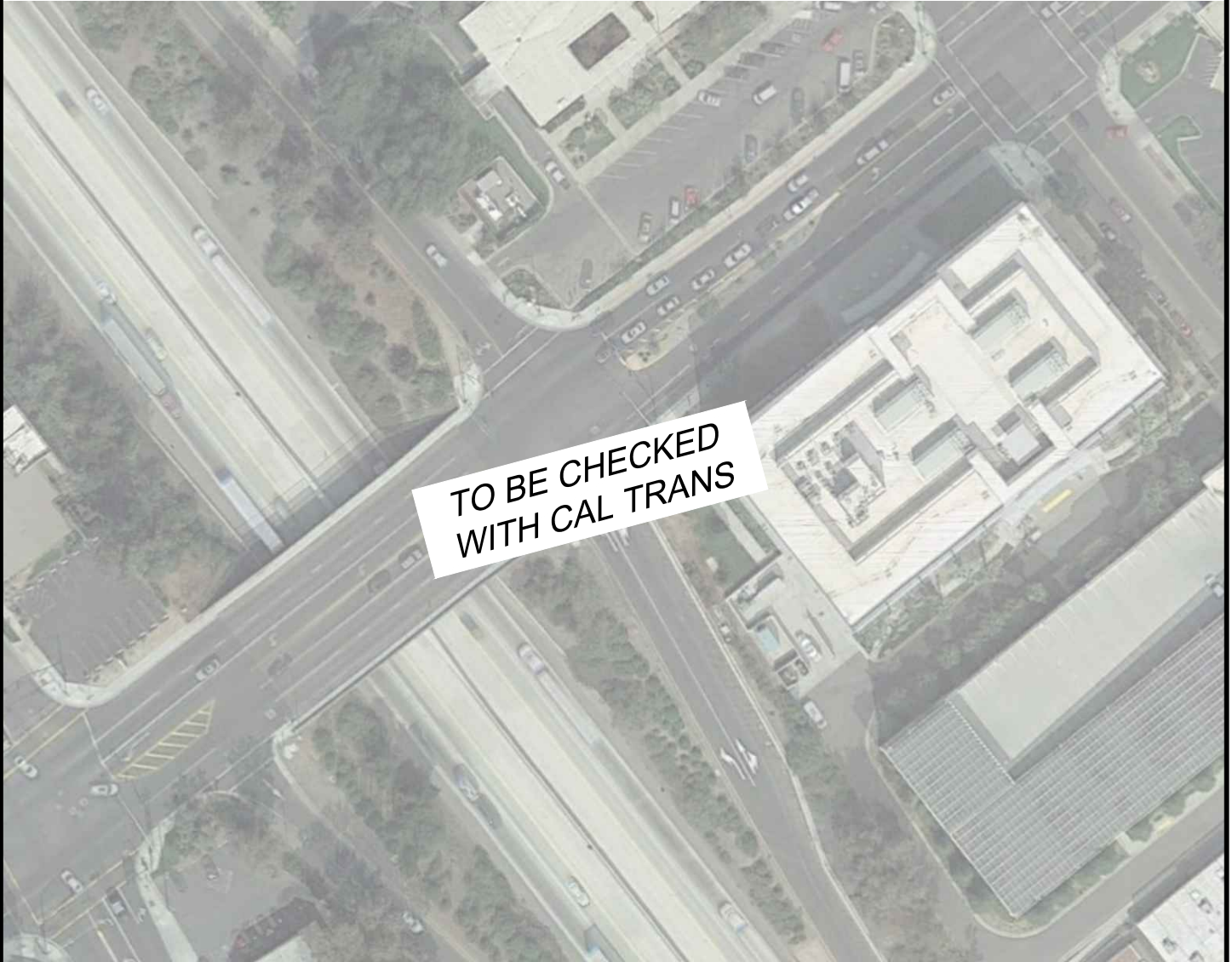
Price

Extension

INTERSECTION 43 TOTAL \$ -

TO BE CHECKED
WITH CAL TRANS

INTERSECTION 43 H STREET/SR-99 NORTHBOUND OFF-RAMP AND 4TH STREET



TO BE CHECKED
WITH CAL TRANS

COST ESTIMATE LEGEND

ADDITIONAL PAVEMENT REQUIRED

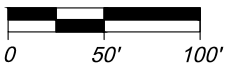
ADA COMPLIANT RAMP

LANE MARKINGS

CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN

d

DEFACTO RIGHT TURN

f

FREE RIGHT TURN

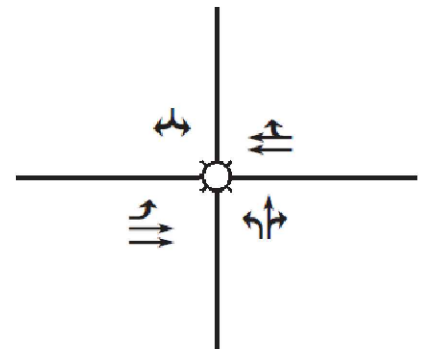
o

RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



43 H Street - SR-99 Northbound Off-Ramp/4th Street



EXHIBIT

DESCRIPTION:

INTERSECTION 43

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

43



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 44

Estimated

Quantity Unit

Unit

Price

Extension

INTERSECTION 44 TOTAL \$ -

TO BE CHECKED WITH
CAL TRANS/CITY

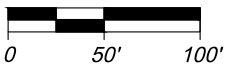
INTERSECTION 44 I STREET AND OLIVE AVENUE



COST ESTIMATE LEGEND

-  ADDITIONAL PAVEMENT REQUIRED
-  ADA COMPLIANT RAMP
-  LANE MARKINGS
-  CURB & GUTTER

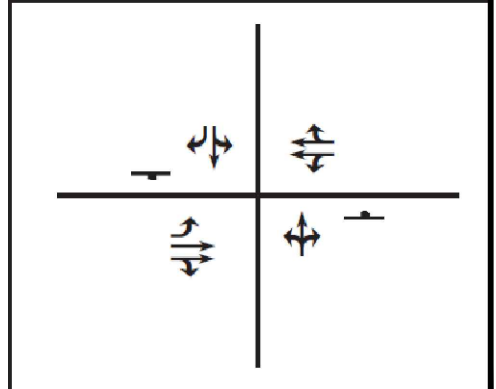
SCALE 1" = 100'



TIA LEGEND

-  SIGNAL
-  STOP SIGN
-  DEFACTO RIGHT TURN
-  FREE RIGHT TURN
-  RIGHT-TURN OVERLAP
-  RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



44 I Street/Olive Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 44

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

44



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 49

Estimated		Unit		Price		Extension
Quantity	Unit					
1	LS	\$	15,000	\$		15,000
1	ls	\$	150,000	\$		150,000
1	ls	\$	20,000	\$		20,000

INTERSECTION 49 TOTAL \$ 185,000

INTERSECTION 49 YOSEMITE AVENUE/CLEVELAND AVENUE AND TOZER STREET



COST ESTIMATE LEGEND

 ADDITIONAL PAVEMENT REQUIRED

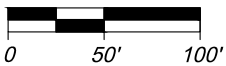
 ADA COMPLIANT RAMP

 LANE MARKINGS

 CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN

d

DEFACTO RIGHT TURN

f

FREE RIGHT TURN

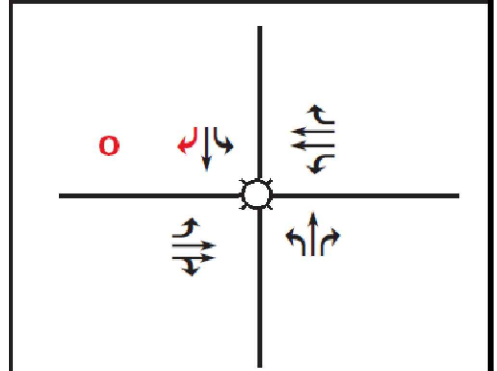
o

RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



49 Yosemite Avenue/Cleveland Avenue - Tozer Street



EXHIBIT

DESCRIPTION:

INTERSECTION 49

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

49



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

INTERSECTION 51

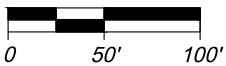
	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	522	TON	\$	95	\$ 49,578
2 6" CLASS II ASPHALT BASE	783	TON	\$	45	\$ 35,227
3 6" CONCRETE CURB & GUTTER	1510	LF	\$	20	\$ 30,200
4 TRANSITION 4" ASPHALT PAVEMENT	510	TON	\$	95	\$ 48,450
5 TRANSITION CLASS II ASPHALT BASE	765	TON	\$	45	\$ 34,425
6 HANDICAP CURB RAMP	2	EA	\$	2,500	\$ 5,000
7 STRIPING	1	LS	\$	20,000	\$ 20,000
8 SIGNALIZING	1	LS	\$	350,000	\$ 350,000
9 POWERPOLE UNDERGROUNDING	4	EA	\$	25,000	\$ 100,000
10 WATER WELL RELOCATION	1	LS	\$	150,000	\$ 150,000
11 TREE REMOVAL	0.41	AC	\$	12,000	\$ 4,900
12 ADDITIONAL RIGHT-OF-WAY	41275	SF	\$	8	\$ 330,200
13 GRADING	3057	CY	\$	7	\$ 21,402
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	117,938	\$ 117,938

INTERSECTION 51 TOTAL \$ 1,297,319

INTERSECTION 51 PROJECT DRIVE WAY 1 AND AVENUE 17



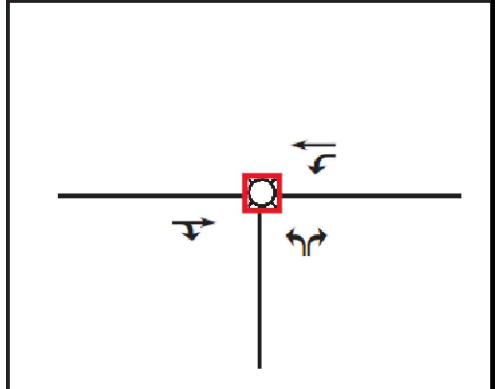
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - d* DEFACTO RIGHT TURN
 - f* FREE RIGHT TURN
 - o* RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



51 Project Driveway 1/Avenue 17



EXHIBIT

DESCRIPTION:
INTERSECTION 51

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
51



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

DESCRIPTION

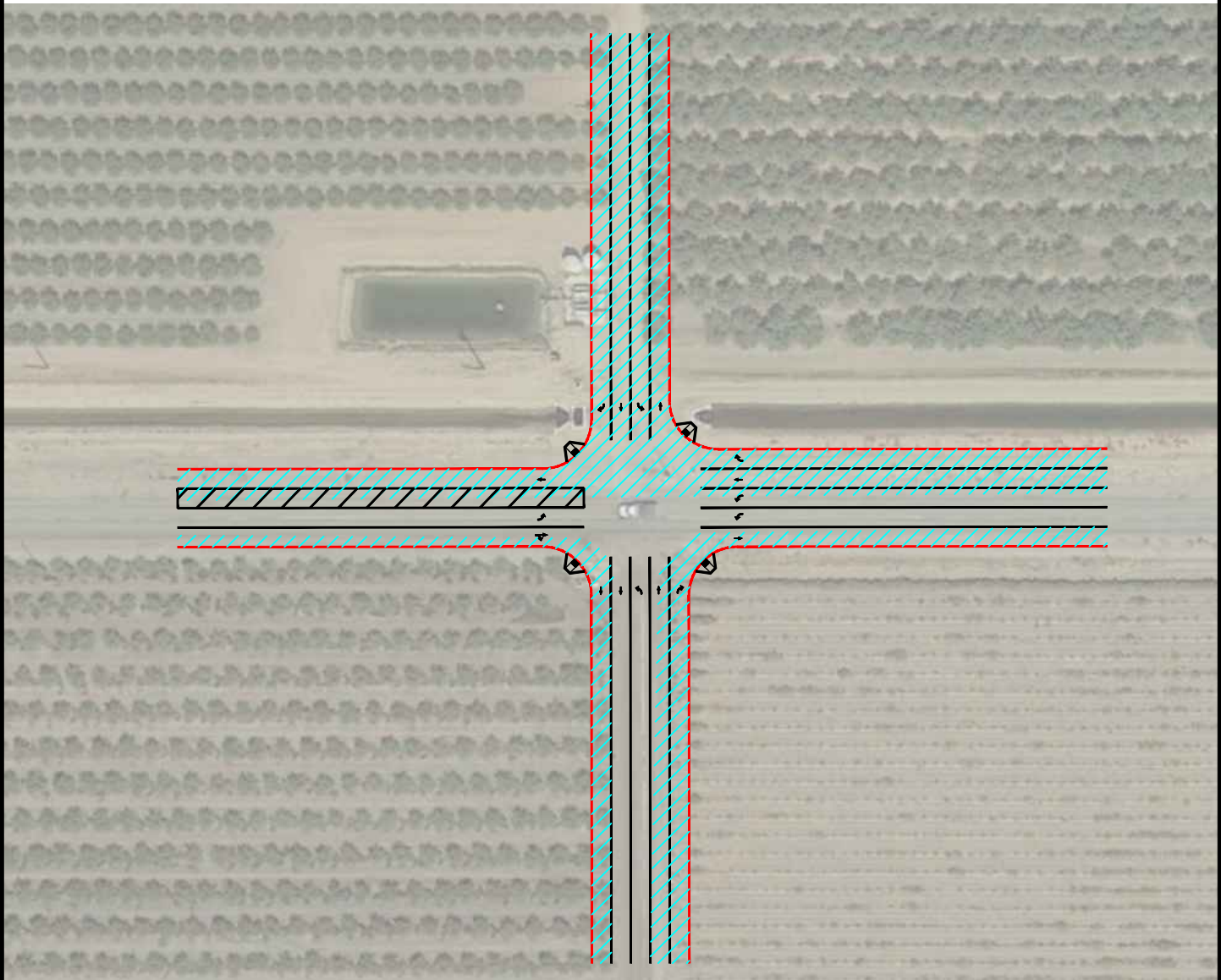
INTERSECTION 52

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	983	TON	\$	95	\$ 93,359
2 6" CLASS II ASPHALT BASE	1474	TON	\$	45	\$ 66,334
3 6" CONCRETE CURB & GUTTER	2031	LF	\$	20	\$ 40,620
4 TRANSITION 4" ASPHALT PAVEMENT	990	TON	\$	95	\$ 94,050
5 TRANSITION CLASS II ASPHALT BASE	1485	TON	\$	45	\$ 66,825
6 HANDICAP CURB RAMP	4	EA	\$	2,500	\$ 10,000
7 STRIPING	1	LS	\$	30,000	\$ 30,000
8 SIGNALIZING	1	LS	\$	400,000	\$ 400,000
9 POWERPOLE UNDERGROUNDING	11	EA	\$	25,000	\$ 275,000
10 WATER WELL RELOCATION/ABANDONMENT	1	LS	\$	150,000	\$ 150,000
11 CANAL UNDERGROUNDING	860	LF	\$	200	\$ 172,000
12 TREE REMOVAL	1.29	AC	\$	12,000	\$ 15,496
13 ADDITIONAL RIGHT-OF-WAY	78909	SF	\$	8	\$ 631,272
14 GRADING	5845	CY	\$	7	\$ 40,916
15 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	208,587	\$ 208,587

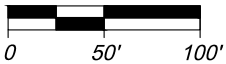
INTERSECTION 52 TOTAL \$ 2,294,459

INTERSECTION 52

ROAD 22 1/2/PROJECT DRIVEWAY 2 AND AVENUE 16



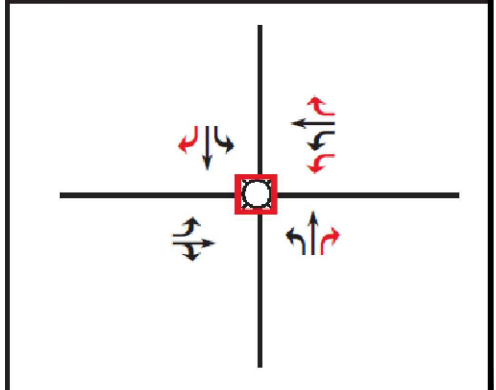
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFAC TO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



52 Road 22 1/2 - Project Driveway 2/Avenue 16



EXHIBIT

DESCRIPTION:

INTERSECTION 52

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

52



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

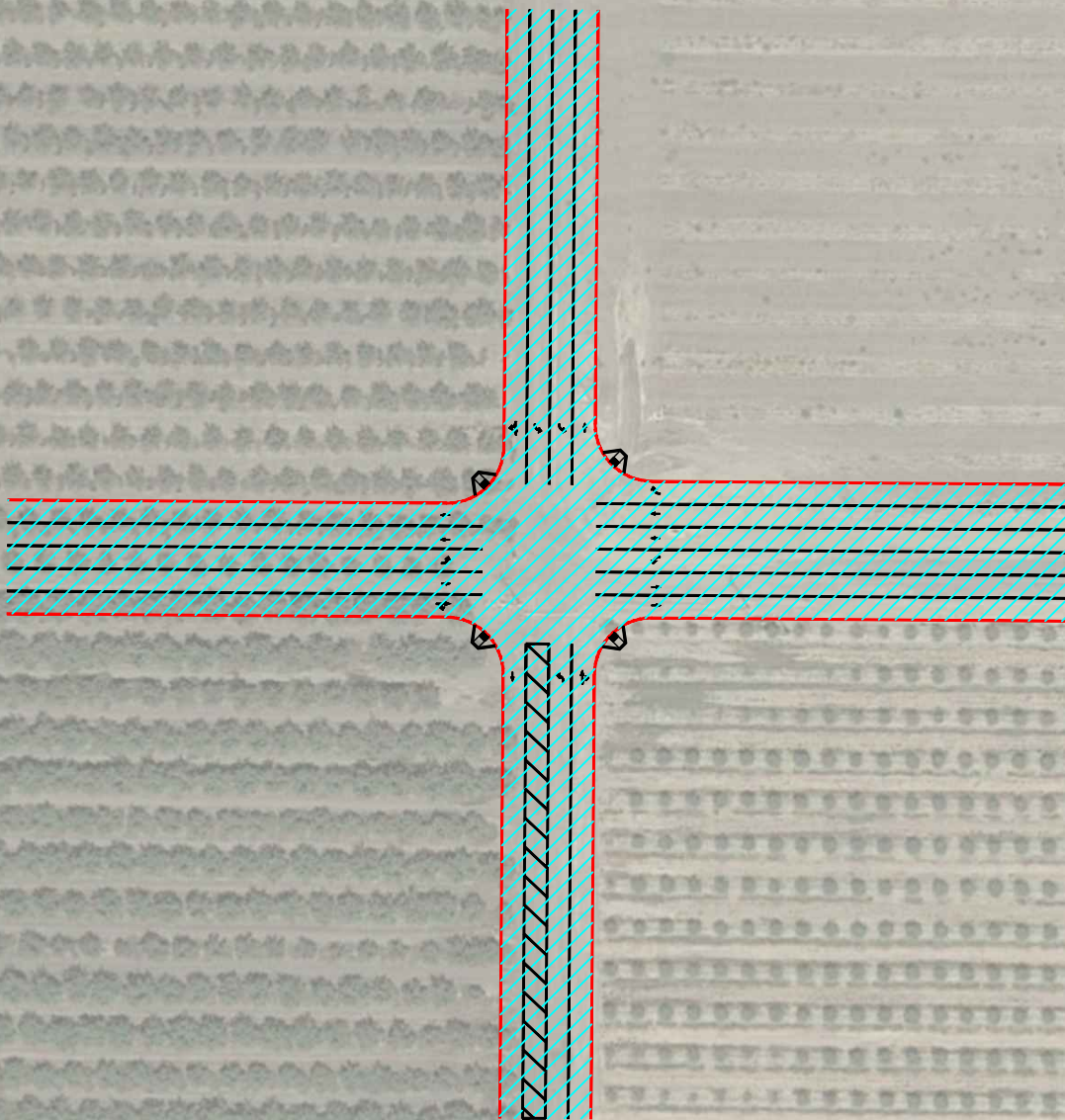
DESCRIPTION

INTERSECTION 53

	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	1564	TON	\$	95	\$ 148,552
2 6" CLASS II ASPHALT BASE	2346	TON	\$	45	\$ 105,550
3 6" CONCRETE CURB & GUTTER	2007	LF	\$	20	\$ 40,140
4 TRANSITION 4" ASPHALT PAVEMENT	752	TON	\$	95	\$ 71,478
5 TRANSITION CLASS II ASPHALT BASE	1129	TON	\$	45	\$ 50,787
6 HANDICAP CURB RAMP	4	EA	\$	2,500	\$ 10,000
7 STRIPING	1	LS	\$	30,000	\$ 30,000
8 SIGNALIZING	1	LS	\$	400,000	\$ 400,000
9 POWERPOLE UNDERGROUNDING	6	EA	\$	25,000	\$ 150,000
10 TREE REMOVAL	2.13	AC	\$	12,000	\$ 25,522
11 ADDITIONAL RIGHT-OF-WAY	92644	SF	\$	8	\$ 741,152
12 GRADING	6863	CY	\$	7	\$ 48,038
13 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	182,122	\$ 182,122

INTERSECTION 53 TOTAL \$ 2,003,339

INTERSECTION 53 ROAD 22 1/2 AND CLEVELAND AVENUE



COST ESTIMATE LEGEND

 ADDITIONAL PAVEMENT REQUIRED

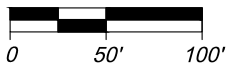


ADA COMPLIANT RAMP

 LANE MARKINGS

 CURB & GUTTER

SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN



DEFACTO RIGHT TURN



FREE RIGHT TURN

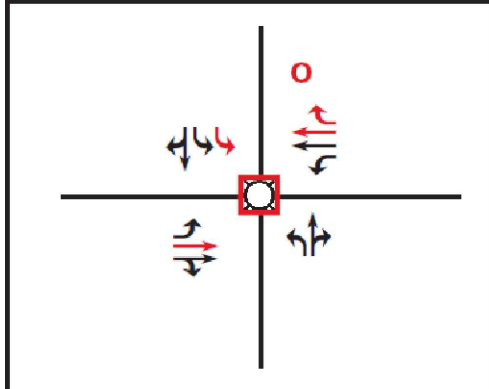


RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



53 Road 22 1/2/Cleveland Avenue



EXHIBIT

DESCRIPTION:

INTERSECTION 53

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

53



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

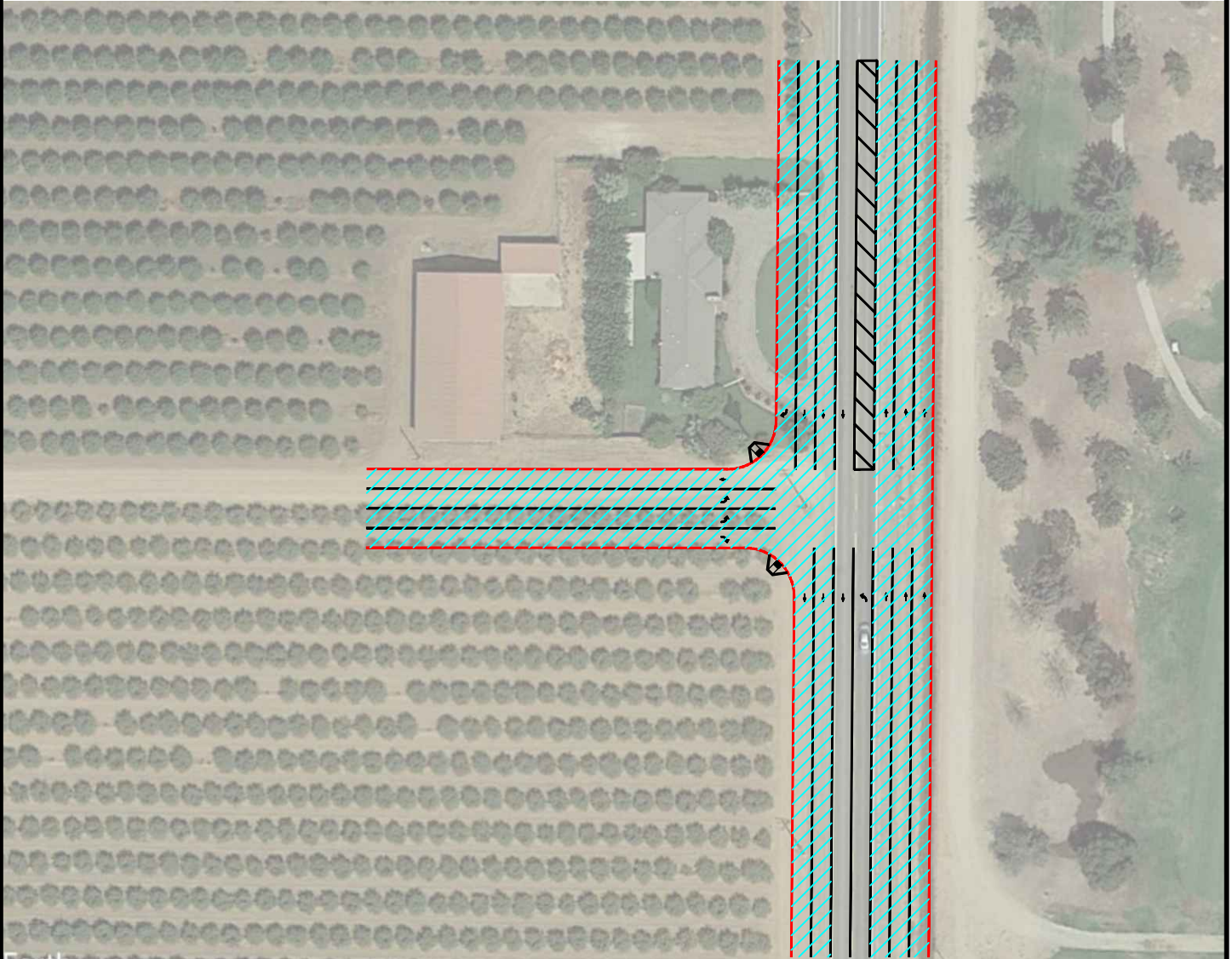
DESCRIPTION

INTERSECTION 55

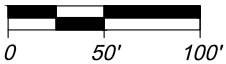
	Estimated			Unit		
	Quantity	Unit		Price		Extension
1 4" ASPHALT PAVEMENT	1296	TON	\$	95	\$	123,127
2 6" CLASS II ASPHALT BASE	1944	TON	\$	45	\$	87,485
3 6" CONCRETE CURB & GUTTER	1521	LF	\$	20	\$	30,420
4 TRANSITION 4" ASPHALT PAVEMENT	1740	TON	\$	95	\$	165,300
5 TRANSITION CLASS II ASPHALT BASE	2610	TON	\$	45	\$	117,450
6 HANDICAP CURB RAMP	2	EA	\$	2,500	\$	5,000
7 STRIPING	1	LS	\$	20,000	\$	20,000
8 SIGNALIZING	1	LS	\$	350,000	\$	350,000
9 POWERPOLE UNDERGROUNDING	14	EA	\$	25,000	\$	350,000
10 CANAL UNDERGROUNDING	2048	LF	\$	200	\$	409,600
11 TREE REMOVAL	0.57	AC	\$	12,000	\$	6,797
12 ADDITIONAL RIGHT-OF-WAY	121443	SF	\$	8	\$	971,544
13 GRADING	8996	CY	\$	7	\$	62,970
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	269,969	\$	269,969

INTERSECTION 55 TOTAL \$ 2,969,663

INTERSECTION 55 ROAD 23 AND PROJECT DRIVEWAY 3



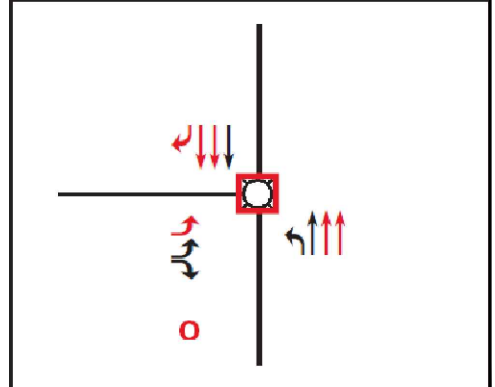
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - d DEFAC TO RIGHT TURN
 - f FREE RIGHT TURN
 - o RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



55 Road 23/Project Driveway 3



EXHIBIT
DESCRIPTION:
INTERSECTION 55

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
55



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

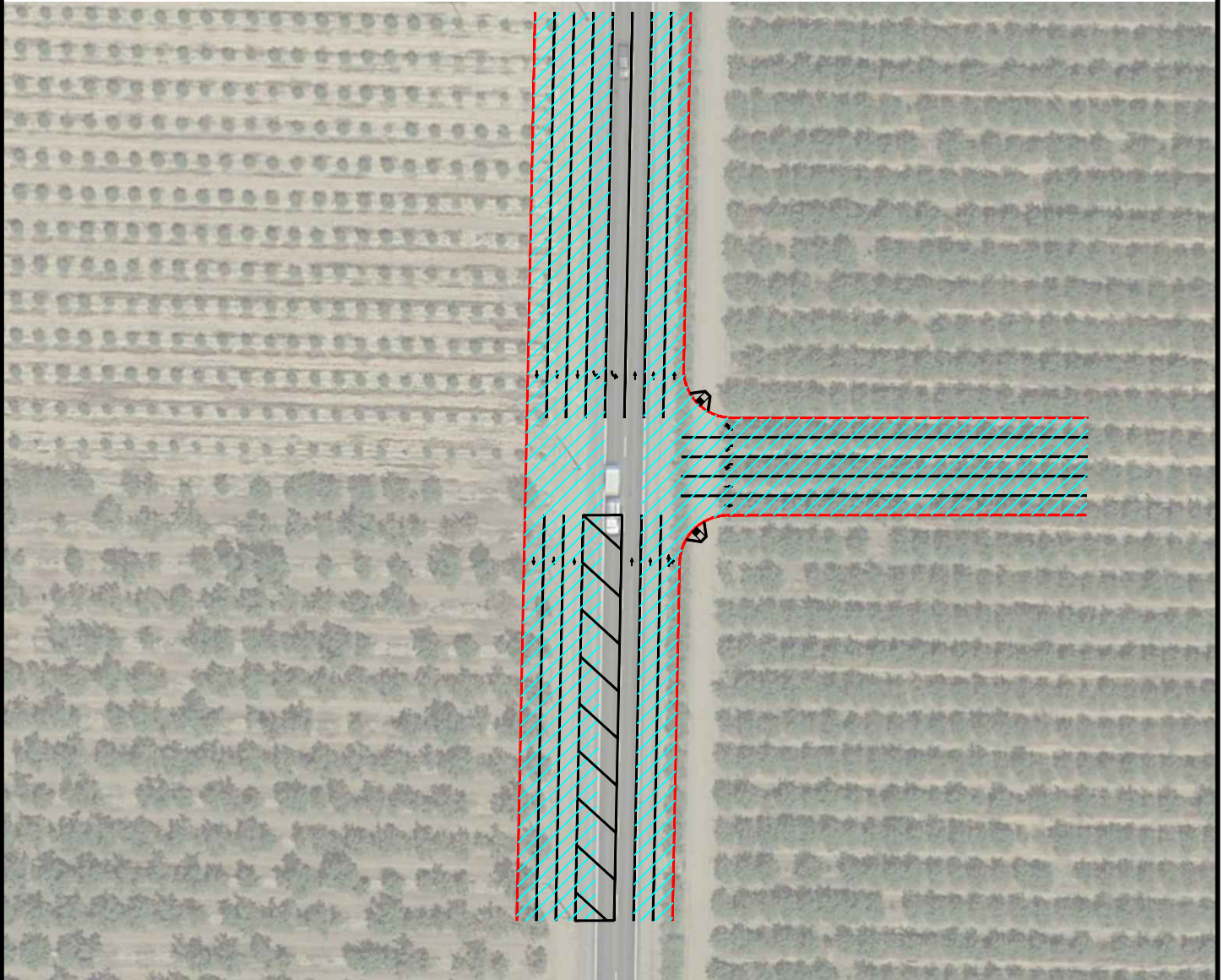
DESCRIPTION

INTERSECTION 56

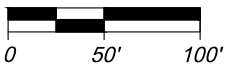
Estimated		Unit		Price		Extension
Quantity	Unit					
1393	TON	\$	95	\$		132,330
2089	TON	\$	45	\$		94,024
1543	LF	\$	20	\$		30,860
2490	TON	\$	95	\$		236,550
3735	TON	\$	45	\$		168,075
2	EA	\$	2,500	\$		5,000
1	LS	\$	30,000	\$		30,000
1	LS	\$	400,000	\$		400,000
6	EA	\$	25,000	\$		150,000
2.21	AC	\$	12,000	\$		26,571
155318	SF	\$	8	\$		1,242,544
11505	CY	\$	7	\$		80,535
1	ls	\$	259,649	\$		259,649

INTERSECTION 56 TOTAL \$ 2,856,138

INTERSECTION 56 ROAD 23 AND PROJECT DRIVEWAY 4



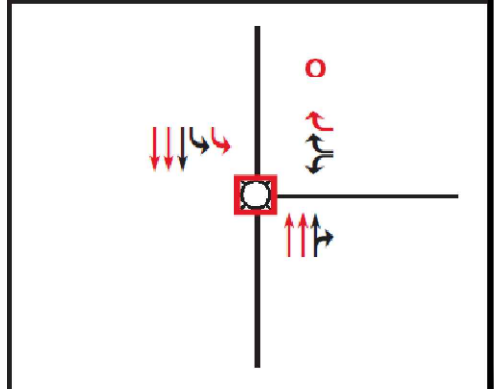
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



56 Road 23/Project Driveway 4



EXHIBIT

DESCRIPTION:
INTERSECTION 56

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE

1/6/2021 20-113

FIGURE
56



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

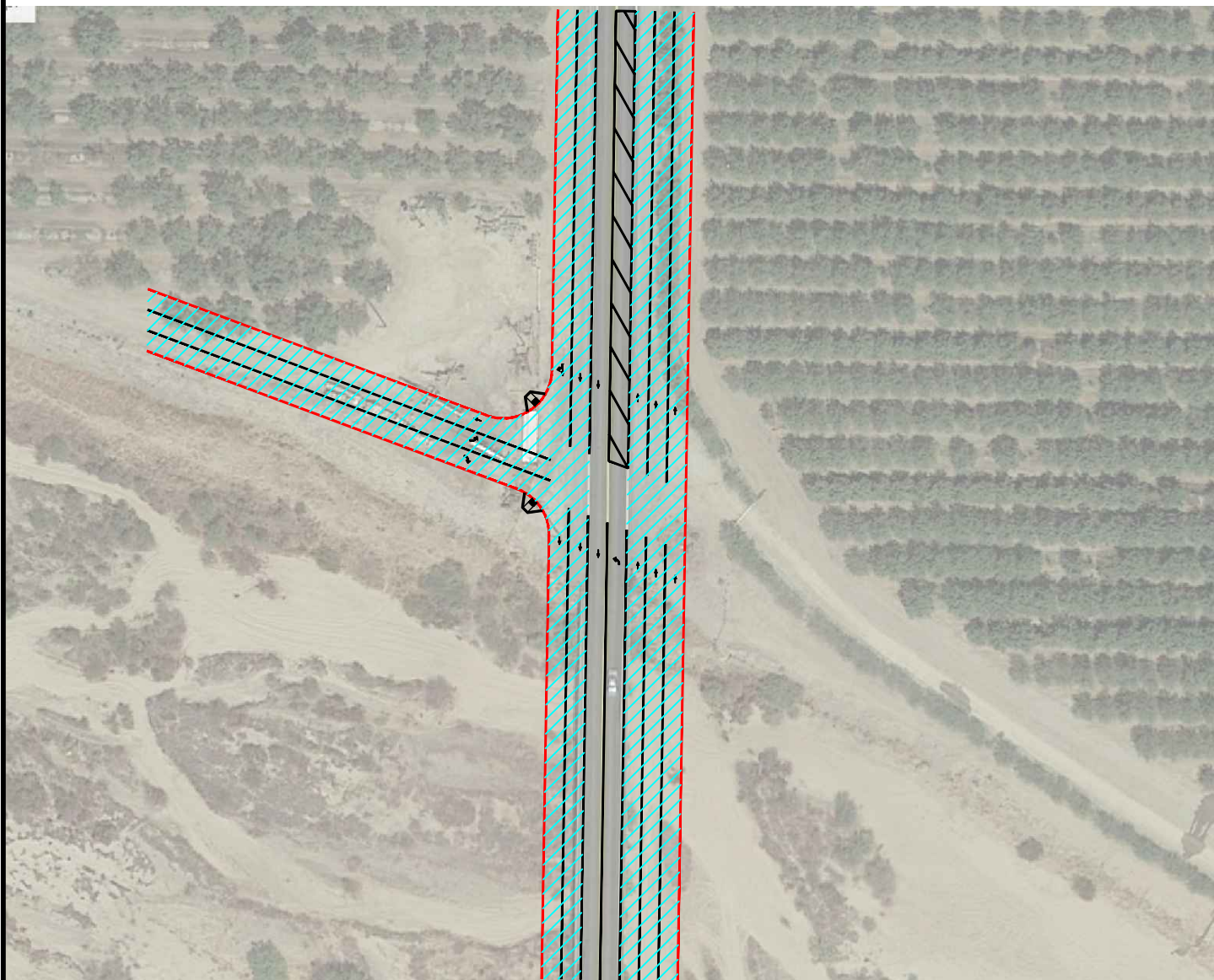
DESCRIPTION

INTERSECTION 57

<u>Estimated</u>	<u>Unit</u>	<u>Unit</u>	<u>Extension</u>
<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	
1 4" ASPHALT PAVEMENT	1149 TON	\$ 95	\$ 109,119
2 6" CLASS II ASPHALT BASE	1723 TON	\$ 45	\$ 77,532
3 6" CONCRETE CURB & GUTTER	1654 LF	\$ 20	\$ 33,080
4 TRANSITION 4" ASPHALT PAVEMENT	1560 TON	\$ 95	\$ 148,200
5 TRANSITION CLASS II ASPHALT BASE	2340 TON	\$ 45	\$ 105,300
6 HANDICAP CURB RAMP	2 EA	\$ 2,500	\$ 5,000
7 STRIPING	1 LS	\$ 30,000	\$ 30,000
8 SIGNALIZING	1 LS	\$ 400,000	\$ 400,000
9 POWERPOLE UNDERGROUNDING	7 EA	\$ 25,000	\$ 175,000
10 BRIDGE WIDENING	1 LS	\$ 1,500,000	\$ 1,500,000
11 TREE REMOVAL	1.46 AC	\$ 12,000	\$ 17,521
12 ADDITIONAL RIGHT-OF-WAY	108345 SF	\$ 8	\$ 866,760
13 GRADING	8026 CY	\$ 7	\$ 56,179
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1 ls	\$ 352,369	\$ 352,369

INTERSECTION 57 TOTAL \$ 3,876,060

INTERSECTION 57 ROAD 23 AND PROJECT DRIVEWAY 5



COST ESTIMATE LEGEND

 ADDITIONAL PAVEMENT REQUIRED



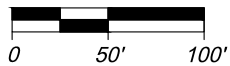
ADA COMPLIANT RAMP

 LANE MARKINGS

 CURB & GUTTER



SCALE 1" = 100'



TIA LEGEND



SIGNAL



STOP SIGN



DEFACTO RIGHT TURN



FREE RIGHT TURN

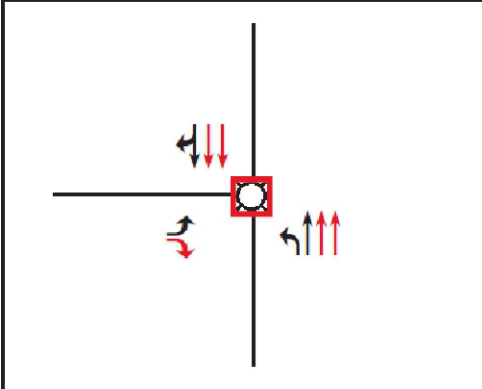


RIGHT-TURN OVERLAP



RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



57 Road 23/Project Driveway 5



EXHIBIT

DESCRIPTION:

INTERSECTION 57

PROJECT NAME:

MADERA 1200 - TIA ESTIMATE

1/6/2021

20-113

FIGURE

57



Engineer's Opinion of Probable Cost

January 6, 2021

Madera 1200

TIA Intersection Analysis

Notes:

- 1 Quantities are approximate based on non-survey data
- 2 Transition lanes are based off 100' length for added lane and 400' length for lane ending

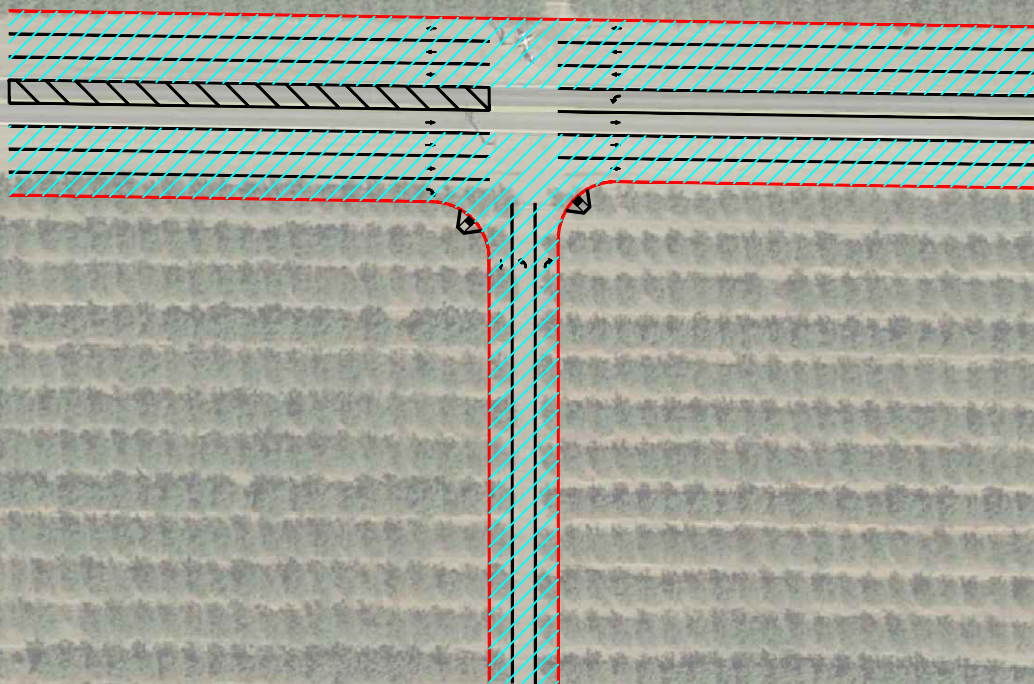
DESCRIPTION

INTERSECTION 58

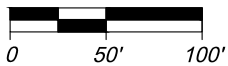
	Estimated		Unit	Price	Extension
	Quantity	Unit			
1 4" ASPHALT PAVEMENT	1200	TON	\$	95	\$ 113,962
2 6" CLASS II ASPHALT BASE	1799	TON	\$	45	\$ 80,973
3 6" CONCRETE CURB & GUTTER	1509	LF	\$	20	\$ 30,180
4 TRANSITION 4" ASPHALT PAVEMENT	2010	TON	\$	95	\$ 190,950
5 TRANSITION CLASS II ASPHALT BASE	3015	TON	\$	45	\$ 135,675
6 HANDICAP CURB RAMP	2	EA	\$	2,500	\$ 5,000
7 STRIPING	1	LS	\$	30,000	\$ 30,000
8 SIGNALIZING	1	LS	\$	400,000	\$ 400,000
9 POWERPOLE UNDERGROUNDING	8	EA	\$	25,000	\$ 200,000
10 WATER WELL TO BE REMOVED/ABANDONDED	1	LS	\$	150,000	\$ 150,000
11 TREE REMOVAL	2.95	AC	\$	12,000	\$ 35,367
12 ADDITIONAL RIGHT-OF-WAY	128384	SF	\$	8	\$ 1,027,072
13 GRADING	9510	CY	\$	7	\$ 66,569
14 ENGINEERING & TESTING (10% OF TOTAL EXCLUDING THIS)	1	ls	\$	246,575	\$ 246,575

INTERSECTION 58 TOTAL \$ 2,712,324

INTERSECTION 58 PROJECT DRIVEWAY 6 & CLEVELAND AVENUE



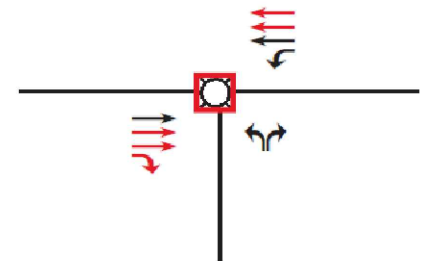
SCALE 1" = 100'



- COST ESTIMATE LEGEND**
- ADDITIONAL PAVEMENT REQUIRED
 - ADA COMPLIANT RAMP
 - LANE MARKINGS
 - CURB & GUTTER

- TIA LEGEND**
- SIGNAL
 - STOP SIGN
 - DEFACTO RIGHT TURN
 - FREE RIGHT TURN
 - RIGHT-TURN OVERLAP
 - RECOMMENDED IMPROVEMENTS

TIA RECOMMENDATION



58 Project Driveway 6/Cleveland Avenue



EXHIBIT
DESCRIPTION:
INTERSECTION 58

PROJECT NAME:
MADERA 1200 - TIA ESTIMATE
1/6/2021 20-113

FIGURE
58