

PALO ALTO - Storm Drain Master Plan CIP Summary

Matadero Area - Pipe Improvements	ID	Priority	Pipe Length	Connections	Outfalls	Cost	Total Const. Cost	Estimated CIP
Bayshore and Fabian	3	High	1,392	6	1	\$890,000	\$1,160,000	\$1,390,000
Hamilton and Rhodes	9	High	3,650	15	0	\$2,210,000	\$2,870,000	\$3,440,000
Lincoln and Channing	10	High	4,629	14	0	\$2,430,000	\$3,160,000	\$3,790,000
Loma Verde and Maddux	11	High	1,747	16	0	\$1,410,000	\$1,830,000	\$2,200,000
Louis	12	High	4,186	27	0	\$4,430,000	\$5,760,000	\$6,910,000
Louis to Matadero Creek	13	High	1,468	7	1	\$1,000,000	\$1,300,000	\$1,560,000
Cambridge and Park	14	Moderate	2,515	14	0	\$1,190,000	\$1,550,000	\$1,860,000
Center	15	Moderate	2,033	10	0	\$1,040,000	\$1,350,000	\$1,620,000
Embarcadero	18	Moderate	837	6	0	\$1,290,000	\$1,680,000	\$2,020,000
Loma Verde and Ross	19	Moderate	1,145	6	0	\$860,000	\$1,120,000	\$1,340,000
Page Mill and Alma	22	Moderate	1,957	14	0	\$1,150,000	\$1,500,000	\$1,800,000
Page Mill and El Camino Real	23	Moderate	2,521	10	0	\$1,620,000	\$2,110,000	\$2,530,000
Seale	24	Moderate	5,585	23	0	\$3,190,000	\$4,150,000	\$4,980,000
Alma	25	Low	1,380	4	0	\$590,000	\$770,000	\$920,000
Bryant	29	Low	1,665	8	0	\$720,000	\$940,000	\$1,130,000
Cambridge	30	Low	2,224	12	1	\$1,190,000	\$1,550,000	\$1,860,000
Colonial and Amarillo	31	Low	730	5	0	\$310,000	\$400,000	\$480,000
El Camino Real	36	Low	612	3	0	\$250,000	\$330,000	\$400,000
El Centro	37	Low	639	4	1	\$310,000	\$400,000	\$480,000
Forest and Hamilton	39	Low	3,332	12	0	\$1,470,000	\$1,910,000	\$2,290,000
Hamilton and Channing	40	Low	3,960	14	0	\$1,820,000	\$2,370,000	\$2,840,000
Hanover	41	Low	732	7	0	\$420,000	\$550,000	\$660,000
Hoover Park	43	Low	217	5	1	\$200,000	\$260,000	\$310,000
Loma Verde and Cowper	45	Low	2,264	12	0	\$1,530,000	\$1,990,000	\$2,390,000
Louis and Loma Verde	46	Low	1,249	10	0	\$860,000	\$1,120,000	\$1,340,000
Louis and Piers	47	Low	1,468	7	0	\$510,000	\$660,000	\$790,000
Moreno	48	Low	773	3	0	\$290,000	\$380,000	\$460,000
Oregon	51	Low	792	6	0	\$390,000	\$510,000	\$610,000
Oregon and Louis	52	Low	2,234	13	0	\$2,120,000	\$2,760,000	\$3,310,000
Parkinson and Newell	55	Low	3,258	11	0	\$1,500,000	\$1,950,000	\$2,340,000
Portage	56	Low	562	5	0	\$270,000	\$350,000	\$420,000
Ross and Ames	57	Low	843	3	0	\$420,000	\$550,000	\$660,000
Ross Road to Matadero Creek	58	Low	784	5	1	\$440,000	\$570,000	\$680,000
Walter Hays	64	Low	773	7	0	\$520,000	\$680,000	\$820,000
Waverley	65	Low	907	4	0	\$290,000	\$380,000	\$460,000

Priority	Length	Cost
High	17,073	\$19,290,000
Moderate	16,592	\$16,150,000
Low	31,396	\$25,650,000
	<b>65,061</b>	<b>\$61,090,000</b>

Adobe/Barron Area - Pipe Improvements	ID	Priority	Pipe Length	Connections	Outfalls	Cost	Total Const. Cost	Estimated CIP
Charleston and Abode Creek	5	High	946	5	1	\$830,000	\$1,080,000	\$1,300,000
E Meadow Cir	6	High	770	2	0	\$230,000	\$300,000	\$360,000
E Meadow Dr	7	High	401	2	0	\$250,000	\$330,000	\$400,000
Fabian	8	High	1,000	5	0	\$370,000	\$480,000	\$580,000
Charleston and Fabian	16	Moderate	964	2	0	\$660,000	\$860,000	\$1,030,000
El Camino Real and Los Robles	17	Moderate	2,450	11	0	\$1,620,000	\$2,110,000	\$2,530,000
Alma and Greenmeadow	26	Low	1,137	4	1	\$540,000	\$700,000	\$840,000
Arastradero	28	Low	3,362	15	0	\$1,530,000	\$1,990,000	\$2,390,000
E Bayshore Rd and Embarcadero	33	Low	525	4	0	\$220,000	\$290,000	\$350,000
E Charleston and Middlefield Rd	34	Low	2,288	14	0	\$1,090,000	\$1,420,000	\$1,700,000
E Meadow Dr and Middlefield Rd	35	Low	4,249	19	0	\$2,290,000	\$2,980,000	\$3,580,000
Foothill and Miranda	38	Low	1,194	8	1	\$780,000	\$1,010,000	\$1,210,000
Hillview	42	Low	477	5	1	\$350,000	\$460,000	\$550,000
Laura Ln and Geng Rd	44	Low	940	4	0	\$350,000	\$460,000	\$550,000
Nelson	49	Low	961	5	1	\$430,000	\$560,000	\$670,000
Park and Whitclem	53	Low	220	3	1	\$180,000	\$230,000	\$280,000
San Antonio	59	Low	4,252	21	0	\$2,100,000	\$2,730,000	\$3,280,000
Scripps	60	Low	955	10	1	\$550,000	\$720,000	\$860,000
South Ct to Adobe Creek	62	Low	2,502	10	1	\$1,270,000	\$1,650,000	\$1,980,000
Ventura and Park	63	Low	482	6	1	\$320,000	\$420,000	\$500,000
Wilkie and Park	66	Low	2,906	19	0	\$1,420,000	\$1,850,000	\$2,220,000

Priority	Length	Cost
High	3,117	\$2,640,000
Moderate	3,414	\$3,560,000
Low	26,448	\$20,960,000
	<b>32,979</b>	<b>\$27,160,000</b>

Pump Station Improvements	ID	Priority	Pipe Length	Connections	Outfalls	Cost	Total Const. Cost	Estimated CIP
Corporation and E Bayshore	1	Highest	702	8	1	\$1,550,000	\$2,020,000	\$2,420,000
Matadero Pump Station	2	Highest	0	0	1	\$7,390,000	\$9,610,000	\$11,530,000
Bayshore and Fabian Pump Station	4	High	0	0	1	\$670,000	\$870,000	\$1,040,000
Municipal Service Yard	20	Moderate	415	2	1	\$1,340,000	\$1,740,000	\$2,090,000
Oregon Expy Pump Station	21	Moderate	0	0	0	\$210,000	\$270,000	\$320,000
Alma and Greenmeadow Pump Station	27	Low	0	0	1	\$1,640,000	\$2,130,000	\$2,560,000
Colorado PS removal	32	Low	425	6	0	\$280,000	\$360,000	\$430,000
Nelson Ct Pump Station	50	Low	0	0	1	\$760,000	\$990,000	\$1,190,000
Park and Whitclem Pump Station	54	Low	0	0	1	\$840,000	\$1,090,000	\$1,310,000
Scripps Pump Station	61	Low	0	0	1	\$1,090,000	\$1,420,000	\$1,700,000

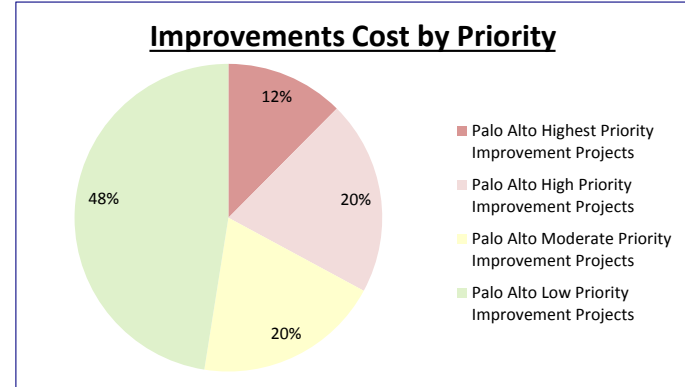
Priority	Length	Cost
Highest	702	\$13,950,000
High	0	\$1,040,000
Moderate	415	\$2,410,000
Low	425	\$7,190,000
	<b>1,542</b>	<b>\$24,590,000</b>

Condition Improvements	Priority	Length	Cost	Total Const. Cost	Estimated CIP
A-1	Highest	28	\$7,500	\$9,800	\$11,800
A-7	Highest	31	\$2,500	\$3,300	\$4,000
A-23	Highest	34	\$7,700	\$10,000	\$12,000
A-25	Highest	25	\$6,900	\$9,000	\$10,800
A-26	Highest	34	\$6,800	\$8,800	\$10,600
A-31	Highest	34	\$1,800	\$2,300	\$2,800
A-34 d/s	Highest	81	\$18,300	\$23,800	\$28,600
A-34 u/s	Highest	88	\$19,800	\$25,700	\$30,800
A-35	Highest	55	\$12,500	\$16,300	\$19,600
A-39	Highest	37	\$9,200	\$12,000	\$14,400
A-42	Highest	23	\$4,100	\$5,300	\$6,400
A-2	High	46	\$4,100	\$5,300	\$6,400
A-6	High	46	\$4,500	\$5,900	\$7,100
A-12	High	56	\$11,700	\$15,200	\$18,200
A-14	High	30	\$6,800	\$8,800	\$10,600
A-15	High	21	\$7,300	\$9,500	\$11,400
A-16	High	22	\$3,700	\$4,800	\$5,800
A-20	High	34	\$7,700	\$10,000	\$12,000
A-21	High	27	\$5,200	\$6,800	\$8,200
A-24	High	32	\$5,900	\$7,700	\$9,200
A-33 d/s	High	21	\$6,900	\$9,000	\$10,800
A-33 u/s	High	40	\$5,200	\$6,800	\$8,200
A-36	High	27	\$6,100	\$7,900	\$9,500
A-37	High	38	\$7,500	\$9,800	\$11,800
A-38	High	41	\$4,800	\$6,200	\$7,400
A-40	High	42	\$10,400	\$13,500	\$16,200
A-41	High	36	\$7,200	\$9,400	\$11,300
A-43	High	23	\$3,200	\$4,200	\$5,000
A-3	Moderate	22	\$1,900	\$2,500	\$3,000
A-4	Moderate	39	\$5,300	\$6,900	\$8,300
A-5	Moderate	41	\$7,000	\$9,100	\$10,900
A-8	Moderate	28	\$4,100	\$5,300	\$6,400
A-9	Moderate	26	\$2,100	\$2,700	\$3,200
A-10	Moderate	28	\$2,500	\$3,300	\$4,000
A-11	Moderate	28	\$2,200	\$2,900	\$3,500
A-13	Moderate	31	\$2,800	\$3,600	\$4,300
A-17	Moderate	18	\$2,600	\$3,400	\$4,100
A-19	Moderate	25	\$2,700	\$3,500	\$4,200
A-22	Moderate	34	\$4,900	\$6,400	\$7,700
A-27	Moderate	20	\$1,800	\$2,300	\$2,800
A-28	Moderate	51	\$4,600	\$6,000	\$7,200
A-29	Moderate	43	\$5,100	\$6,600	\$7,900
A-30	Moderate	52	\$6,400	\$8,300	\$10,000
A-32 24-in.	Moderate	48	\$7,400	\$9,600	\$11,500
A-32 18-in.	Moderate	48	\$8,800	\$11,400	\$13,700

Priority	Length	Cost
Highest	470	\$152,000
High	581	\$169,000
Moderate	580	\$113,000
	<b>1,631</b>	<b>\$434,000</b>

Priority Improvements	Length	Cost
Palo Alto Highest Priority Improvement Projects	1,173	\$14,102,000
Palo Alto High Priority Improvement Projects	20,771	\$23,139,000
Palo Alto Moderate Priority Improvement Projects	21,001	\$22,233,000
Palo Alto Low Priority Improvement Projects	58,269	\$53,800,000
<b>Palo Alto Improvement Projects Total</b>	<b>101,213</b>	<b>\$113,274,000</b>

Total Construction Cost: 30% construction contingency  
Estimated CIP: 20% increase for engineering, administrative, and inspection costs



**ADOBE/BARRON DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost
Alma and Greenmeadow	IMP44715	318	12	42	\$ 475	\$ 151,034	1	\$ 12,530	\$ 163,564		Low	
Alma and Greenmeadow	IMP44717	603	18	42	\$ 475	\$ 286,279	2	\$ 25,060	\$ 311,339		Low	
Alma and Greenmeadow	IMP44757	216	18	42	\$ 475	\$ 102,790	1	\$ 12,530	\$ 115,320	1	Low	
		<b>1137</b>					<b>4</b>		<b>\$ 474,903</b>	<b>\$40,000</b>		<b>\$ 540,000</b>
Alma and Greenmeadow Pump Station	Pump Station								\$ 1,520,000	1	Low	
									<b>\$ 1,520,000</b>	<b>\$40,000</b>		<b>\$ 1,640,000</b>
Arastradero	IMP44415	361	18	24	\$ 325	\$ 117,467	2	\$ 24,160	\$ 141,627		Low	
Arastradero	IMP44416	215	18	24	\$ 325	\$ 69,714	1	\$ 12,080	\$ 81,794		Low	
Arastradero	IMP44417	294	24	30	\$ 375	\$ 110,170	1	\$ 12,230	\$ 122,400		Low	
Arastradero	IMP44426	170	24	30	\$ 375	\$ 63,602	1	\$ 12,230	\$ 75,832		Low	
Arastradero	IMP44427	78	24	30	\$ 375	\$ 29,105	1	\$ 12,230	\$ 41,335		Low	
Arastradero	IMP44428	330	24	30	\$ 375	\$ 123,690	1	\$ 12,230	\$ 135,920		Low	
Arastradero	IMP44429	237	24	30	\$ 375	\$ 89,006	1	\$ 12,230	\$ 101,236		Low	
Arastradero	IMP44432	108	24	36	\$ 425	\$ 45,923	1	\$ 12,380	\$ 58,303		Low	
Arastradero	IMP44433	258	30	36	\$ 425	\$ 109,592	1	\$ 12,380	\$ 121,972		Low	
Arastradero	IMP44434	39	30	36	\$ 425	\$ 16,781	1	\$ 12,380	\$ 29,161		Low	
Arastradero	IMP44435	163	30	36	\$ 425	\$ 69,266	1	\$ 12,380	\$ 81,646		Low	
Arastradero	IMP44443	441	30	36	\$ 425	\$ 187,334	1	\$ 12,380	\$ 199,714		Low	
Arastradero	IMP44450	203	30	36	\$ 425	\$ 86,163	1	\$ 12,380	\$ 98,543		Low	
Arastradero	IMP44522	466	18	24	\$ 325	\$ 151,440	1	\$ 12,080	\$ 163,520		Low	
		<b>3362</b>					<b>15</b>		<b>\$ 1,453,000</b>	<b>0</b>		<b>\$ 1,530,000</b>
Charleston and Abode Creek	IMP_44203	257	36	72	\$ 725	\$ 186,521	2	\$ 26,540	\$ 213,061		High	
Charleston and Abode Creek	IMP_44206	497	36	72	\$ 725	\$ 360,434	1	\$ 13,270	\$ 373,704		High	
Charleston and Abode Creek	IMP_44207	179	36	72	\$ 725	\$ 129,622	1	\$ 13,270	\$ 142,892		High	
Charleston and Abode Creek	IMP_44663	13	36	72	\$ 725	\$ 9,386	1	\$ 13,270	\$ 22,656	1	High	
		<b>946</b>					<b>5</b>		<b>\$ 752,313</b>	<b>40000</b>		<b>\$ 830,000</b>
Charleston and Fabian	IMP_44202	964	30	60	\$ 625	\$ 602,673	2	\$ 25,940	\$ 628,613		Moderate	
		<b>964</b>					<b>2</b>		<b>\$ 628,613</b>	<b>0</b>		<b>\$ 660,000</b>
Corporation and E Bayshore	IMP44731	88	21	30	\$ 375	\$ 33,038	2	\$ 24,460	\$ 57,498		Highest	
Corporation and E Bayshore	IMP44732	170	21	30	\$ 375	\$ 63,678	1	\$ 12,230	\$ 75,908		Highest	
Corporation and E Bayshore	IMP44734	114	21	30	\$ 375	\$ 42,593	1	\$ 12,230	\$ 54,823		Highest	
Corporation and E Bayshore	IMP44736	60	22	30	\$ 375	\$ 22,447	1	\$ 12,230	\$ 34,677		Highest	
Corporation and E Bayshore	IMP44739	159	21	30	\$ 375	\$ 59,624	1	\$ 12,230	\$ 71,854		Highest	
Corporation and E Bayshore	IMP44747	86	21	30	\$ 375	\$ 32,127	1	\$ 12,230	\$ 44,357		Highest	
Corporation and E Bayshore	IMP44836	26	21	30	\$ 375	\$ 9,877	1	\$ 12,230	\$ 22,107		Highest	
Corporation and E Bayshore	Pump Station								\$ 1,000,000	1	Highest	
Corporation and E Bayshore	Utilities relocation	702			\$ 100	\$ 70,236			\$ 70,236		Highest	
		<b>702</b>					<b>8</b>		<b>\$ 1,431,460</b>	<b>40000</b>		<b>\$ 1,550,000</b>
E Bayshore Rd and Embarcadero	IMP44368	202	12	18	\$ 270	\$ 54,562	2	\$ 23,860	\$ 78,422		Low	
E Bayshore Rd and Embarcadero	IMP44383	62	12	24	\$ 325	\$ 20,179	1	\$ 12,080	\$ 32,259		Low	
E Bayshore Rd and Embarcadero	IMP44384	261	12	24	\$ 325	\$ 84,761	1	\$ 12,080	\$ 96,841		Low	
		<b>525</b>					<b>4</b>		<b>\$ 207,522</b>	<b>0</b>		<b>\$ 220,000</b>
E Charleston and Middlefield Rd	IMP44040	62	15	24	\$ 325	\$ 20,204	2	\$ 24,160	\$ 44,364		Low	
E Charleston and Middlefield Rd	IMP44041	55	15	24	\$ 325	\$ 17,958	1	\$ 12,080	\$ 30,038		Low	
E Charleston and Middlefield Rd	IMP44102	288	15	24	\$ 325	\$ 93,469	1	\$ 12,080	\$ 105,549		Low	
E Charleston and Middlefield Rd	IMP44103	88	15	24	\$ 325	\$ 28,485	1	\$ 12,080	\$ 40,565		Low	
E Charleston and Middlefield Rd	IMP44104	71	15	24	\$ 325	\$ 23,092	1	\$ 12,080	\$ 35,172		Low	
E Charleston and Middlefield Rd	IMP44106	113	15	24	\$ 325	\$ 36,680	1	\$ 12,080	\$ 48,760		Low	
E Charleston and Middlefield Rd	IMP44107	208	15	24	\$ 325	\$ 67,595	1	\$ 12,080	\$ 79,675		Low	
E Charleston and Middlefield Rd	IMP44108	143	15	24	\$ 325	\$ 46,420	1	\$ 12,080	\$ 58,500		Low	
E Charleston and Middlefield Rd	IMP44119	428	15	36	\$ 425	\$ 182,074	1	\$ 12,380	\$ 194,454		Low	
E Charleston and Middlefield Rd	IMP44120	26	15	36	\$ 425	\$ 10,999	1	\$ 12,380	\$ 23,379		Low	
E Charleston and Middlefield Rd	IMP44121	121	15	36	\$ 425	\$ 51,505	1	\$ 12,380	\$ 63,885		Low	
E Charleston and Middlefield Rd	IMP44204	270	27	36	\$ 425	\$ 114,709	1	\$ 12,380	\$ 127,089		Low	
E Charleston and Middlefield Rd	IMP44677	415	15	36	\$ 425	\$ 176,304	1	\$ 12,380	\$ 188,684		Low	
		<b>2288</b>					<b>14</b>		<b>\$ 1,040,114</b>	<b>0</b>		<b>\$ 1,090,000</b>
E Meadow Cir	IMP_E_Meadow	770	-	15	\$ 250	\$ 192,463.98	2	\$ 23,700	\$ 216,164		High	
		<b>770</b>					<b>2</b>		<b>\$ 216,164</b>	<b>0</b>		<b>\$ 230,000</b>
E Meadow Dr	IMP44201	401	36	48	\$ 525	\$ 210,655	2	\$ 25,360	\$ 236,015		High	
		<b>401</b>					<b>2</b>		<b>\$ 236,015</b>	<b>0</b>		<b>\$ 250,000</b>

**ADOBE/BARRON DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost
E Meadow Dr and Middlefield Rd	IMP44145	631	21	36	\$ 425	\$ 268,074	2	\$ 24,760	\$ 292,834		Low	
E Meadow Dr and Middlefield Rd	IMP44160	555	24	36	\$ 425	\$ 235,842	2	\$ 24,760	\$ 260,602		Low	
E Meadow Dr and Middlefield Rd	IMP44166	520	36	48	\$ 525	\$ 273,033	2	\$ 25,360	\$ 298,393		Low	
E Meadow Dr and Middlefield Rd	IMP44172	334	36	48	\$ 525	\$ 175,377	1	\$ 12,680	\$ 188,057		Low	
E Meadow Dr and Middlefield Rd	IMP44182	248	36	48	\$ 525	\$ 130,335	1	\$ 12,680	\$ 143,015		Low	
E Meadow Dr and Middlefield Rd	IMP44183	300	12	30	\$ 375	\$ 112,667	1	\$ 12,230	\$ 124,897		Low	
E Meadow Dr and Middlefield Rd	IMP44186	45	36	48	\$ 525	\$ 23,363	1	\$ 12,680	\$ 36,043		Low	
E Meadow Dr and Middlefield Rd	IMP44187	50	36	48	\$ 525	\$ 26,137	1	\$ 12,680	\$ 38,817		Low	
E Meadow Dr and Middlefield Rd	IMP44194	216	36	48	\$ 525	\$ 113,381	1	\$ 12,680	\$ 126,061		Low	
E Meadow Dr and Middlefield Rd	IMP44199	367	36	48	\$ 525	\$ 192,737	1	\$ 12,680	\$ 205,417		Low	
E Meadow Dr and Middlefield Rd	IMP44200	138	36	48	\$ 525	\$ 72,576	1	\$ 12,680	\$ 85,256		Low	
E Meadow Dr and Middlefield Rd	IMP44610	267	12	30	\$ 375	\$ 100,223	1	\$ 12,230	\$ 112,453		Low	
E Meadow Dr and Middlefield Rd	IMP44612	43	18	30	\$ 375	\$ 16,266	1	\$ 12,230	\$ 28,496		Low	
E Meadow Dr and Middlefield Rd	IMP44615	319	18	30	\$ 375	\$ 119,711	1	\$ 12,230	\$ 131,941		Low	
E Meadow Dr and Middlefield Rd	IMP44616	61	18	30	\$ 375	\$ 22,983	1	\$ 12,230	\$ 35,213		Low	
E Meadow Dr and Middlefield Rd	IMP44617	154	12	30	\$ 375	\$ 57,717	1	\$ 12,230	\$ 69,947		Low	
		<b>4249</b>					<b>19</b>		<b>\$ 2,177,442</b>	<b>0</b>		<b>\$ 2,290,000</b>
El Camino Real and Los Robles	IMP44263	117	30	42	\$ 475	\$ 55,530	1	\$ 12,530	\$ 68,060		Moderate	
El Camino Real and Los Robles	IMP44264	94	30	42	\$ 475	\$ 44,877	1	\$ 12,530	\$ 57,407		Moderate	
El Camino Real and Los Robles	IMP44273	369	30	42	\$ 475	\$ 175,069	1	\$ 12,530	\$ 187,599		Moderate	
El Camino Real and Los Robles	IMP44444	34	30	42	\$ 475	\$ 15,934	1	\$ 12,530	\$ 28,464		Moderate	
El Camino Real and Los Robles	IMP44447	535	30	42	\$ 475	\$ 254,279	2	\$ 25,060	\$ 279,339		Moderate	
El Camino Real and Los Robles	IMP44448	481	30	42	\$ 475	\$ 228,581	1	\$ 12,530	\$ 241,111		Moderate	
El Camino Real and Los Robles	IMP44449	101	30	42	\$ 475	\$ 47,978	1	\$ 12,530	\$ 60,508		Moderate	
El Camino Real and Los Robles	IMP44452	64	30	42	\$ 475	\$ 30,507	1	\$ 12,530	\$ 43,037		Moderate	
El Camino Real and Los Robles	IMP44637	308	30	42	\$ 475	\$ 146,347	1	\$ 12,530	\$ 158,877		Moderate	
El Camino Real and Los Robles	IMP44681	346	30	42	\$ 475	\$ 164,489	1	\$ 12,530	\$ 177,019		Moderate	
El Camino Real and Los Robles	Utilities relocation	2450			\$ 100	\$ 244,966			\$ 244,966		High	
		<b>2450</b>					<b>11</b>		<b>\$ 1,546,387</b>	<b>0</b>		<b>\$ 1,620,000</b>
Fabian	IMP44214	191	15	21	\$ 290	\$ 55,246	1	\$ 12,010	\$ 67,256		High	
Fabian	IMP44215	124	15	21	\$ 290	\$ 35,848	1	\$ 12,010	\$ 47,858		High	
Fabian	IMP44216	500	18	21	\$ 290	\$ 145,099	2	\$ 24,020	\$ 169,119		High	
Fabian	IMP44666	185	15	21	\$ 290	\$ 53,669	1	\$ 12,010	\$ 65,679		High	
		<b>1000</b>					<b>5</b>		<b>\$ 349,912</b>	<b>0</b>		<b>\$ 370,000</b>
Foothill and Miranda	IMP44556	127	30	42	\$ 475	\$ 60,374	2	\$ 25,060	\$ 85,434		Low	
Foothill and Miranda	IMP44557	402	36	42	\$ 475	\$ 190,977	1	\$ 12,530	\$ 203,507		Low	
Foothill and Miranda	IMP44560	398	42	48	\$ 525	\$ 209,042	1	\$ 12,680	\$ 221,722		Low	
Foothill and Miranda	IMP44562	44	42	48	\$ 525	\$ 23,005	1	\$ 12,680	\$ 35,685		Low	
Foothill and Miranda	IMP44563	17	12	48	\$ 525	\$ 8,793	1	\$ 12,680	\$ 21,473		Low	
Foothill and Miranda	IMP44564	111	42	48	\$ 525	\$ 58,418	1	\$ 12,680	\$ 71,098		Low	
Foothill and Miranda	IMP44689	94	42	48	\$ 525	\$ 49,542	1	\$ 12,680	\$ 62,222	1	Low	
		<b>1194</b>					<b>8</b>		<b>\$ 701,141</b>	<b>40000</b>		<b>\$ 780,000</b>
Hillview	IMP44469	49	27	42	\$ 475	\$ 23,307	2	\$ 25,060	\$ 48,367		Low	
Hillview	IMP44470	208	27	42	\$ 475	\$ 98,639	1	\$ 12,530	\$ 111,169		Low	
Hillview	IMP44474	183	27	42	\$ 475	\$ 86,990	1	\$ 12,530	\$ 99,520	1	Low	
Hillview	IMP44480	37	27	42	\$ 475	\$ 17,737	1	\$ 12,530	\$ 30,267		Low	
		<b>477</b>					<b>5</b>		<b>\$ 289,323</b>	<b>40000</b>		<b>\$ 350,000</b>
Laura Ln and Geng Rd	IMP44398	319	15	24	\$ 325	\$ 103,833	2	\$ 24,160	\$ 127,993		Low	
Laura Ln and Geng Rd	IMP44401	302	12	18	\$ 270	\$ 81,441	1	\$ 11,930	\$ 93,371		Low	
Laura Ln and Geng Rd	IMP44402	319	12	24	\$ 325	\$ 103,671	1	\$ 12,080	\$ 115,751		Low	
		<b>940</b>					<b>4</b>		<b>\$ 337,115</b>	<b>0</b>		<b>\$ 350,000</b>
Municipal Service Yard	IMP44798	62	30	30	\$ 375	\$ 23,213	1	\$ 12,230	\$ 35,443	1	Moderate	
Municipal Service Yard	IMP44804	251	24	30	\$ 375	\$ 94,018	2	\$ 24,460	\$ 118,478		Moderate	
Municipal Service Yard	IMP44807	164	24	30	\$ 375	\$ 61,564	1	\$ 12,230	\$ 73,794		Moderate	
Municipal Service Yard	Pump Station					Pump Station			\$ 1,040,000		Moderate	
		<b>415</b>					<b>2</b>		<b>\$ 1,232,272</b>	<b>40000</b>		<b>\$ 1,340,000</b>
Nelson	IMP44058	593	18	24	\$ 325	\$ 192,582	2	\$ 24,160	\$ 216,742		Low	
Nelson	IMP44059	129	18	24	\$ 325	\$ 41,909	1	\$ 12,080	\$ 53,989		Low	
Nelson	IMP44060	67	18	24	\$ 325	\$ 21,676	1	\$ 12,080	\$ 33,756		Low	
Nelson	IMP44061	172	18	24	\$ 325	\$ 55,998	1	\$ 12,080	\$ 68,078	1	Low	

**ADOBE/BARRON DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost
		<b>961</b>					<b>5</b>		<b>\$ 372,564</b>	<b>40000</b>		<b>\$ 430,000</b>
Nelson Ct Pump Station	Pump Station								\$ 680,000	1	Low	
									<b>\$ 680,000</b>	<b>40000</b>		<b>\$ 760,000</b>
Park and Whitclem	IMP44758	132	18	36	\$ 425	\$ 56,058	2	\$ 24,760	\$ 80,818		Low	
Park and Whitclem	IMP44769	88	18	36	\$ 425	\$ 37,257	1	\$ 12,380	\$ 49,637	1	Low	
		<b>220</b>					<b>3</b>		<b>\$ 130,455</b>	<b>40000</b>		<b>\$ 180,000</b>
Park and Whitclem Pump Station	Pump Station								\$ 760,000	1	Low	
									<b>\$ 760,000</b>	<b>40000</b>		<b>\$ 840,000</b>
San Antonio	IMP44043	63	12	18	\$ 270	\$ 16,972	1	\$ 11,930	\$ 28,902		Low	
San Antonio	IMP44044	338	18	24	\$ 325	\$ 109,940	1	\$ 12,080	\$ 122,020		Low	
San Antonio	IMP44049	210	18	24	\$ 325	\$ 68,138	1	\$ 12,080	\$ 80,218		Low	
San Antonio	IMP44050	137	18	24	\$ 325	\$ 44,663	1	\$ 12,080	\$ 56,743		Low	
San Antonio	IMP44051	77	18	24	\$ 325	\$ 24,968	1	\$ 12,080	\$ 37,048		Low	
San Antonio	IMP44052	194	18	24	\$ 325	\$ 62,998	1	\$ 12,080	\$ 75,078		Low	
San Antonio	IMP44053	138	18	24	\$ 325	\$ 45,000	1	\$ 12,080	\$ 57,080		Low	
San Antonio	IMP44054	27	18	24	\$ 325	\$ 8,913	1	\$ 12,080	\$ 20,993		Low	
San Antonio	IMP44094	627	12	24	\$ 325	\$ 203,646	2	\$ 24,160	\$ 227,806		Low	
San Antonio	IMP44098	30	18	24	\$ 325	\$ 9,715	1	\$ 12,080	\$ 21,795		Low	
San Antonio	IMP44130	289	18	42	\$ 475	\$ 137,413	1	\$ 12,530	\$ 149,943		Low	
San Antonio	IMP44131	741	27	42	\$ 475	\$ 352,160	2	\$ 25,060	\$ 377,220		Low	
San Antonio	IMP44132	19	27	42	\$ 475	\$ 9,172	1	\$ 12,530	\$ 21,702		Low	
San Antonio	IMP44133	321	27	42	\$ 475	\$ 152,621	1	\$ 12,530	\$ 165,151		Low	
San Antonio	IMP44134	112	27	42	\$ 475	\$ 53,247	1	\$ 12,530	\$ 65,777		Low	
San Antonio	IMP44135	20	27	42	\$ 475	\$ 9,595	1	\$ 12,530	\$ 22,125		Low	
San Antonio	IMP44136	407	27	42	\$ 475	\$ 193,319	1	\$ 12,530	\$ 205,849		Low	
San Antonio	IMP44137	462	27	42	\$ 475	\$ 219,459	1	\$ 12,530	\$ 231,989		Low	
San Antonio	IMP44209	38	27	42	\$ 475	\$ 18,130	1	\$ 12,530	\$ 30,660		Low	
		<b>4252</b>					<b>21</b>		<b>\$ 1,998,099</b>	<b>0</b>		<b>\$ 2,100,000</b>
Scripps	IMP44035	108	18	24	\$ 325	\$ 35,156	2	\$ 24,160	\$ 59,316		Low	
Scripps	IMP44056	37	18	36	\$ 425	\$ 15,518	1	\$ 12,380	\$ 27,898		Low	
Scripps	IMP44064	120	18	36	\$ 425	\$ 51,085	1	\$ 12,380	\$ 63,465	1	Low	
Scripps	IMP44069	55	18	36	\$ 425	\$ 23,436	1	\$ 12,380	\$ 35,816		Low	
Scripps	IMP44070	71	18	36	\$ 425	\$ 30,372	1	\$ 12,380	\$ 42,752		Low	
Scripps	IMP44071	104	18	36	\$ 425	\$ 44,209	1	\$ 12,380	\$ 56,589		Low	
Scripps	IMP44072	133	18	36	\$ 425	\$ 56,347	1	\$ 12,380	\$ 68,727		Low	
Scripps	IMP44073	251	15	24	\$ 325	\$ 81,666	1	\$ 12,080	\$ 93,746		Low	
Scripps	IMP44074	75	18	24	\$ 325	\$ 24,425	1	\$ 12,080	\$ 36,505		Low	
		<b>955</b>					<b>10</b>		<b>\$ 484,813</b>	<b>40000</b>		<b>\$ 550,000</b>
Scripps Pump Station	Pump Station								\$ 1,000,000	1	Low	
									<b>\$ 1,000,000</b>	<b>40000</b>		<b>\$ 1,090,000</b>
South Ct to Adobe Creek	IMP44036	421	30	42	\$ 475	\$ 200,133	2	\$ 25,060	\$ 225,193		Low	
South Ct to Adobe Creek	IMP44037	186	30	42	\$ 475	\$ 88,463	1	\$ 12,530	\$ 100,993	1	Low	
South Ct to Adobe Creek	IMP44312	255	30	42	\$ 475	\$ 121,020	1	\$ 12,530	\$ 133,550		Low	
South Ct to Adobe Creek	IMP44313	424	27	36	\$ 425	\$ 180,178	1	\$ 12,380	\$ 192,558		Low	
South Ct to Adobe Creek	IMP44314	455	21	30	\$ 375	\$ 170,607	1	\$ 12,230	\$ 182,837		Low	
South Ct to Adobe Creek	IMP44315	584	24	30	\$ 375	\$ 218,978	2	\$ 24,460	\$ 243,438		Low	
South Ct to Adobe Creek	IMP44316	133	21	30	\$ 375	\$ 49,772	1	\$ 12,230	\$ 62,002		Low	
South Ct to Adobe Creek	IMP44317	44	21	30	\$ 375	\$ 16,422	1	\$ 12,230	\$ 28,652		Low	
		<b>2502</b>					<b>10</b>		<b>\$ 1,169,224</b>	<b>40000</b>		<b>\$ 1,270,000</b>
Ventura and Park	IMP44716	31	18	24	\$ 325	\$ 10,134	2	\$ 24,160	\$ 34,294		Low	
Ventura and Park	IMP44762	148	21	36	\$ 425	\$ 63,058	1	\$ 12,380	\$ 75,438		Low	
Ventura and Park	IMP44763	237	21	36	\$ 425	\$ 100,561	1	\$ 12,380	\$ 112,941		Low	
Ventura and Park	IMP44764	57	15	24	\$ 325	\$ 18,489	1	\$ 12,080	\$ 30,569	1	Low	
Ventura and Park	IMPC2	9	12	36	\$ 425	\$ 3,769	1	\$ 12,380	\$ 16,149		Low	
		<b>482</b>					<b>6</b>		<b>\$ 269,391</b>	<b>40000</b>		<b>\$ 320,000</b>
Wilkie and Park	IMP44276	269	27	36	\$ 425	\$ 114,338	2	\$ 24,760	\$ 139,098		Low	
Wilkie and Park	IMP44284	548	21	36	\$ 425	\$ 233,060	2	\$ 24,760	\$ 257,820		Low	
Wilkie and Park	IMP44286	38	21	36	\$ 425	\$ 16,320	1	\$ 12,380	\$ 28,700		Low	
Wilkie and Park	IMP44287	163	21	36	\$ 425	\$ 69,373	1	\$ 12,380	\$ 81,753		Low	
Wilkie and Park	IMP44289	135	21	24	\$ 325	\$ 43,848	1	\$ 12,080	\$ 55,928		Low	

**ADOBE/BARRON DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost
Wilkie and Park	IMP44290	57	18	24	\$ 325	\$ 18,562	1	\$ 12,080	\$ 30,642		Low	
Wilkie and Park	IMP44291	293	18	24	\$ 325	\$ 95,313	1	\$ 12,080	\$ 107,393		Low	
Wilkie and Park	IMP44292	218	18	24	\$ 325	\$ 70,971	1	\$ 12,080	\$ 83,051		Low	
Wilkie and Park	IMP44294	314	27	36	\$ 425	\$ 133,642	1	\$ 12,380	\$ 146,022		Low	
Wilkie and Park	IMP44302	13	21	36	\$ 425	\$ 5,640	1	\$ 12,380	\$ 18,020		Low	
Wilkie and Park	IMP44303	369	27	36	\$ 425	\$ 156,754	1	\$ 12,380	\$ 169,134		Low	
Wilkie and Park	IMP44456	44	18	24	\$ 325	\$ 14,306	1	\$ 12,080	\$ 26,386		Low	
Wilkie and Park	IMP44459	80	12	24	\$ 325	\$ 25,904	1	\$ 12,080	\$ 37,984		Low	
Wilkie and Park	IMP44460	6	12	24	\$ 325	\$ 1,976	1	\$ 12,080	\$ 14,056		Low	
Wilkie and Park	IMP44461	102	12	24	\$ 325	\$ 33,251	1	\$ 12,080	\$ 45,331		Low	
Wilkie and Park	IMP44462	95	12	24	\$ 325	\$ 30,722	1	\$ 12,080	\$ 42,802		Low	
Wilkie and Park	IMP44463	160	12	24	\$ 325	\$ 52,072	1	\$ 12,080	\$ 64,152		Low	
		<b>2906</b>					<b>19</b>		<b>\$ 1,348,272</b>	<b>0</b>		<b>\$ 1,420,000</b>
<b>TOTAL ADOBE/BARRON DRAINAGE AREA CONSTRUCTION ESTIMATE</b>											<b>\$ 24,600,000</b>	



**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Alma	IMP22331	460	15	30	\$ 375	\$ 172,555	1	\$ 12,230	\$ 184,785		Low	
Alma	IMP22336	667	15	30	\$ 375	\$ 249,993	2	\$ 24,460	\$ 274,453		Low	
Alma	IMP22339	253	21	30	\$ 375	\$ 94,917	1	\$ 12,230	\$ 107,147		Low	
		<b>1380</b>					<b>4</b>		<b>\$566,385</b>	<b>\$0</b>		<b>\$590,000</b>
Bayshore and Fabian	IMP23384	504	15	36	\$ 425	\$ 214,295	2	\$ 24,760	\$ 239,055		High	
Bayshore and Fabian	IMP23412	102	15	36	\$ 425	\$ 43,447	1	\$ 12,380	\$ 55,827		High	
Bayshore and Fabian	IMP23413	93	15	36	\$ 425	\$ 39,524	1	\$ 12,380	\$ 51,905	1	High	
Bayshore and Fabian	IMP23414	369	15	36	\$ 425	\$ 156,807	1	\$ 12,380	\$ 169,187		High	
Bayshore and Fabian	IMP23415	324	15	36	\$ 425	\$ 137,740	1	\$ 12,380	\$ 150,120		High	
Bayshore and Fabian utilities	Utilities relocation	1392			\$ 100	\$ 139,250			\$ 139,250		High	
		<b>1392</b>					<b>6</b>		<b>\$805,343</b>	<b>\$40,000</b>		<b>\$890,000</b>
Bayshore and Fabian Pump Station	Pump Station								\$600,000	1	High	
									<b>\$600,000</b>	<b>\$40,000</b>		<b>\$670,000</b>
Bryant	IMP22618	319	15	24	\$ 325	\$ 103,836	2	\$ 24,160	\$ 127,996		Low	
Bryant	IMP22619	259	12	24	\$ 325	\$ 84,250	1	\$ 12,080	\$ 96,330		Low	
Bryant	IMP22631	23	15	30	\$ 375	\$ 8,687	1	\$ 12,230	\$ 20,917		Low	
Bryant	IMP22634	458	15	30	\$ 375	\$ 171,709	1	\$ 12,230	\$ 183,939		Low	
Bryant	IMP22636	438	15	30	\$ 375	\$ 164,302	1	\$ 12,230	\$ 176,532		Low	
Bryant	IMP22638	140	15	24	\$ 325	\$ 45,589	1	\$ 12,080	\$ 57,669		Low	
Bryant	IMP23164	26	12	24	\$ 325	\$ 8,581	1	\$ 12,080	\$ 20,661		Low	
		<b>1665</b>					<b>8</b>		<b>\$684,044</b>	<b>\$0</b>		<b>\$720,000</b>
Cambridge	IMP22996	309	15	36	\$ 425	\$ 131,150	2	\$ 24,760	\$ 155,910		Low	
Cambridge	IMP22997	313	18	36	\$ 425	\$ 133,124	1	\$ 12,380	\$ 145,504		Low	
Cambridge	IMP22998	291	18	36	\$ 425	\$ 123,463	1	\$ 12,380	\$ 135,843		Low	
Cambridge	IMP23000	156	21	36	\$ 425	\$ 66,247	1	\$ 12,380	\$ 78,627		Low	
Cambridge	IMP23001	136	21	36	\$ 425	\$ 57,727	1	\$ 12,380	\$ 70,107		Low	
Cambridge	IMP23004	316	21	36	\$ 425	\$ 134,182	1	\$ 12,380	\$ 146,562		Low	
Cambridge	IMP23006	302	21	36	\$ 425	\$ 128,535	1	\$ 12,380	\$ 140,916	1	Low	
Cambridge	IMP23012	319	18	36	\$ 425	\$ 135,693	1	\$ 12,380	\$ 148,073		Low	
Cambridge	IMP23262	25	21	36	\$ 425	\$ 10,478	1	\$ 12,380	\$ 22,858		Low	
Cambridge	IMP23302	56	21	36	\$ 425	\$ 23,836	1	\$ 12,380	\$ 36,216		Low	
Cambridge	IMP23303	1	21	36	\$ 425	\$ 570	1	\$ 12,380	\$ 12,950		Low	
		<b>2224</b>					<b>12</b>		<b>\$1,093,568</b>	<b>\$40,000</b>		<b>\$1,190,000</b>
Cambridge and Park	IMP22351	182	18	36	\$ 425	\$ 77,354	2	\$ 24,760	\$ 102,114		Moderate	
Cambridge and Park	IMP22352	470	12	18	\$ 270	\$ 126,832	1	\$ 11,930	\$ 138,762		Moderate	
Cambridge and Park	IMP22353	81	12	36	\$ 425	\$ 34,530	1	\$ 12,380	\$ 46,910		Moderate	
Cambridge and Park	IMP22357	45	24	36	\$ 425	\$ 18,935	1	\$ 12,380	\$ 31,315		Moderate	
Cambridge and Park	IMP22358	184	24	36	\$ 425	\$ 78,259	1	\$ 12,380	\$ 90,639		Moderate	
Cambridge and Park	IMP22359	116	24	36	\$ 425	\$ 49,127	1	\$ 12,380	\$ 61,507		Moderate	
Cambridge and Park	IMP22361	188	18	36	\$ 425	\$ 80,044	1	\$ 12,380	\$ 92,424		Moderate	
Cambridge and Park	IMP22889	83	24	36	\$ 425	\$ 35,108	1	\$ 12,380	\$ 47,488		Moderate	
Cambridge and Park	IMP22892	138	24	36	\$ 425	\$ 58,787	1	\$ 12,380	\$ 71,167		Moderate	
Cambridge and Park	IMP22902	317	12	24	\$ 325	\$ 103,075	1	\$ 12,080	\$ 115,155		Moderate	
Cambridge and Park	IMP23228	371	15	36	\$ 425	\$ 157,784	1	\$ 12,380	\$ 170,164		Moderate	
Cambridge and Park	IMP23264	134	24	36	\$ 425	\$ 56,945	1	\$ 12,380	\$ 69,325		Moderate	
Cambridge and Park	IMP23266	206	24	36	\$ 425	\$ 87,640	1	\$ 12,380	\$ 100,020		Moderate	
		<b>2515</b>					<b>14</b>		<b>\$1,136,991</b>	<b>\$0</b>		<b>\$1,190,000</b>
Center	IMP_New1	328	-	36	\$ 425	\$ 139,510	2	\$ 24,760	\$ 164,270		Moderate	
Center	IMP22174	233	12	36	\$ 425	\$ 98,874	1	\$ 12,380	\$ 111,254		Moderate	
Center	IMP22210	93	15	36	\$ 425	\$ 39,631	1	\$ 12,380	\$ 52,011		Moderate	
Center	IMP22211	153	15	36	\$ 425	\$ 65,058	1	\$ 12,380	\$ 77,438		Moderate	
Center	IMP22212	180	15	36	\$ 425	\$ 76,570	1	\$ 12,380	\$ 88,950		Moderate	
Center	IMP22213	283	15	36	\$ 425	\$ 120,111	1	\$ 12,380	\$ 132,491		Moderate	
Center	IMP22214	292	15	36	\$ 425	\$ 124,111	1	\$ 12,380	\$ 136,491		Moderate	
Center	IMP22215	195	15	36	\$ 425	\$ 83,055	1	\$ 12,380	\$ 95,435		Moderate	
Center	IMP22218	275	15	36	\$ 425	\$ 117,004	1	\$ 12,380	\$ 129,384		Moderate	
		<b>2033</b>					<b>10</b>		<b>\$987,725</b>	<b>\$0</b>		<b>\$1,040,000</b>
Colonial and Amarillo	IMP22450	181	12	24	\$ 325	\$ 58,823	2	\$ 24,160	\$ 82,983		Low	
Colonial and Amarillo	IMP22451	27	12	24	\$ 325	\$ 8,673	1	\$ 12,080	\$ 20,753		Low	
Colonial and Amarillo	IMP22452	238	12	24	\$ 325	\$ 77,443	1	\$ 12,080	\$ 89,523		Low	

**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Colonial and Amarillo	IMP22836	284	12	24	\$ 325	\$ 92,353	1	\$ 12,080	\$ 104,433		Low	
		<b>730</b>					<b>5</b>		<b>\$297,691</b>	<b>\$0</b>		<b>\$310,000</b>
Colorado PS removal	IMP_C_1	344	27	27	\$ 350	\$ 120,298	2	\$ 24,310	\$ 144,608		Low	
Colorado PS removal	IMP_C_2	51	27	27	\$ 350	\$ 17,778	1	\$ 12,155	\$ 29,933		Low	
Colorado PS removal	IMP4_1	9	42	48	\$ 525	\$ 4,982	1	\$ 12,680	\$ 17,662		Low	
Colorado PS removal	IMP4_2	7	42	48	\$ 525	\$ 3,687	1	\$ 12,680	\$ 16,367		Low	
Colorado PS removal	IMPump_Col	14	-	27	\$ 350	\$ 4,737	1	\$ 12,155	\$ 16,892		Low	
Colorado PS removal utilities	Utilities relocation	425			\$ 100	\$ 42,455			\$ 42,455		Low	
		<b>425</b>					<b>6</b>		<b>\$267,917</b>	<b>\$0</b>		<b>\$280,000</b>
El Camino Real	IMP23119	175	15	24	\$ 325	\$ 56,822	2	\$ 24,160	\$ 80,982		Low	
El Camino Real	IMP23344	437	15	24	\$ 325	\$ 141,959	1	\$ 12,080	\$ 154,039		Low	
		<b>612</b>					<b>3</b>		<b>\$235,021</b>	<b>\$0</b>		<b>\$250,000</b>
El Centro	IMP23390	376	12	24	\$ 325	\$ 122,328	2	\$ 24,160	\$ 146,488		Low	
El Centro	IMP23391	226	12	24	\$ 325	\$ 73,289	1	\$ 12,080	\$ 85,369		Low	
El Centro	IMP23392	37	12	24	\$ 325	\$ 11,902	1	\$ 12,080	\$ 23,983	1	Low	
		<b>639</b>					<b>4</b>		<b>\$255,839</b>	<b>\$40,000</b>		<b>\$310,000</b>
Embarcadero	IMP22675	21	24	36	\$ 425	\$ 8,792	2	\$ 24,760	\$ 33,552		Moderate	
Embarcadero	IMP22676	302	12	24	\$ 325	\$ 98,009	1	\$ 12,080	\$ 110,089		Moderate	
Embarcadero	IMP22677	159	24	36	\$ 425	\$ 67,380	1	\$ 12,380	\$ 79,760		Moderate	
Embarcadero	IMP22681	16	12	24	\$ 325	\$ 5,199	1	\$ 12,080	\$ 17,279		Moderate	
Embarcadero	IMP23169	340	24	36	\$ 425	\$ 144,400	1	\$ 12,380	\$ 156,780		Moderate	
Embarcadero utilities	Utilities relocation	837			\$ 991	\$ 829,026			\$ 829,026		Moderate	
		<b>837</b>					<b>6</b>		<b>\$1,226,486</b>	<b>\$0</b>		<b>\$1,290,000</b>
Forest and Hamilton	IMP22171	638	12	36	\$ 425	\$ 270,991	2	\$ 24,760	\$ 295,751		Low	
Forest and Hamilton	IMP22172	435	15	36	\$ 425	\$ 184,883	1	\$ 12,380	\$ 197,263		Low	
Forest and Hamilton	IMP22189	601	15	24	\$ 325	\$ 195,307	2	\$ 24,160	\$ 219,467		Low	
Forest and Hamilton	IMP22190	566	14	24	\$ 325	\$ 183,922	2	\$ 24,160	\$ 208,082		Low	
Forest and Hamilton	IMP22196	104	15	24	\$ 325	\$ 33,836	1	\$ 12,080	\$ 45,916		Low	
Forest and Hamilton	IMP23155	39	15	36	\$ 425	\$ 16,495	1	\$ 12,380	\$ 28,875		Low	
Forest and Hamilton	IMP23156	401	15	24	\$ 325	\$ 130,414	1	\$ 12,080	\$ 142,494		Low	
Forest and Hamilton	IMPC2	548	-	36	\$ 425	\$ 232,953	2	\$ 24,760	\$ 257,713		Low	
		<b>3332</b>					<b>12</b>		<b>\$1,395,561</b>	<b>\$0</b>		<b>\$1,470,000</b>
Hamilton and Channing	IMP	462	21	36	\$ 425	\$ 196,424	1	\$ 12,380	\$ 208,804		Low	
Hamilton and Channing	IMP_22195	525	21	36	\$ 425	\$ 222,933	2	\$ 24,760	\$ 247,693		Low	
Hamilton and Channing	IMP_22197	548	21	36	\$ 425	\$ 232,688	2	\$ 24,760	\$ 257,448		Low	
Hamilton and Channing	IMP22179	147	12	30	\$ 375	\$ 55,238	1	\$ 12,230	\$ 67,468		Low	
Hamilton and Channing	IMP22183	232	12	30	\$ 375	\$ 87,073	1	\$ 12,230	\$ 99,303		Low	
Hamilton and Channing	IMP22184	326	12	30	\$ 375	\$ 122,173	1	\$ 12,230	\$ 134,403		Low	
Hamilton and Channing	IMP22187	459	15	30	\$ 375	\$ 172,276	1	\$ 12,230	\$ 184,506		Low	
Hamilton and Channing	IMP22188	135	12	30	\$ 375	\$ 50,668	1	\$ 12,230	\$ 62,898		Low	
Hamilton and Channing	IMP22194	566	21	30	\$ 375	\$ 212,105	2	\$ 24,460	\$ 236,565		Low	
Hamilton and Channing	IMP22627	560	18	30	\$ 375	\$ 209,952	2	\$ 24,460	\$ 234,412		Low	
		<b>3960</b>					<b>14</b>		<b>\$1,733,501</b>	<b>\$0</b>		<b>\$1,820,000</b>
Hamilton and Rhodes	IMP_Hamilton	772	-	48	\$ 525	\$ 405,258	2	\$ 25,360	\$ 430,618		High	
Hamilton and Rhodes	IMP22173	506	18	48	\$ 525	\$ 265,870	2	\$ 25,360	\$ 291,230		High	
Hamilton and Rhodes	IMP22175	133	18	48	\$ 525	\$ 70,000	1	\$ 12,680	\$ 82,680		High	
Hamilton and Rhodes	IMP22176	542	18	48	\$ 525	\$ 284,401	2	\$ 25,360	\$ 309,761		High	
Hamilton and Rhodes	IMP22177	503	21	48	\$ 525	\$ 264,075	2	\$ 25,360	\$ 289,435		High	
Hamilton and Rhodes	IMP22585	300	15	48	\$ 525	\$ 157,689	1	\$ 12,680	\$ 170,369		High	
Hamilton and Rhodes	IMP22586	138	15	48	\$ 525	\$ 72,267	1	\$ 12,680	\$ 84,947		High	
Hamilton and Rhodes	IMP22587	116	15	48	\$ 525	\$ 60,962	1	\$ 12,680	\$ 73,642		High	
Hamilton and Rhodes	IMP22588	290	18	48	\$ 525	\$ 152,296	1	\$ 12,680	\$ 164,976		High	
Hamilton and Rhodes	IMP22599	338	21	48	\$ 525	\$ 177,468	1	\$ 12,680	\$ 190,148		High	
Hamilton and Rhodes	IMP22601	12	12	36	\$ 425	\$ 4,981	1	\$ 12,380	\$ 17,361		High	
		<b>3650</b>					<b>15</b>		<b>\$2,105,168</b>	<b>\$0</b>		<b>\$2,210,000</b>
Hanover	IMP22548	404	15	36	\$ 425	\$ 171,893	2	\$ 24,760	\$ 196,653		Low	
Hanover	IMP22549	41	18	36	\$ 425	\$ 17,495	1	\$ 12,380	\$ 29,875		Low	
Hanover	IMP22550	173	18	36	\$ 425	\$ 73,448	1	\$ 12,380	\$ 85,828		Low	
Hanover	IMP23085	6	18	36	\$ 425	\$ 2,673	1	\$ 12,380	\$ 15,053		Low	
Hanover	IMP23086	63	18	36	\$ 425	\$ 26,741	1	\$ 12,380	\$ 39,121		Low	

**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Hanover	IMP23324	45	18	36	\$ 425	\$ 19,046	1	\$ 12,380	\$ 31,426		Low	
		<b>732</b>					<b>7</b>		<b>\$397,957</b>	<b>\$0</b>		<b>\$420,000</b>
Hoover Park	IMP_22113	70	12	36	\$ 425	\$ 29,697	2	\$ 24,760	\$ 54,457		Low	
Hoover Park	IMP_22114	42	12	36	\$ 425	\$ 17,836	1	\$ 12,380	\$ 30,216		Low	
Hoover Park	IMP_22116	45	12	36	\$ 425	\$ 19,302	1	\$ 12,380	\$ 31,683	1	Low	
Hoover Park	IMP_23285	60	12	36	\$ 425	\$ 25,557	1	\$ 12,380	\$ 37,937		Low	
		<b>217</b>					<b>5</b>		<b>\$154,292</b>	<b>\$40,000</b>		<b>\$200,000</b>
Lincoln and Channing	IMP_22428	299	12	30	\$ 375	\$ 112,311	1	\$ 12,230	\$ 124,541		High	
Lincoln and Channing	IMP_22644	708	12	42	\$ 475	\$ 336,103	2	\$ 25,060	\$ 361,163		High	
Lincoln and Channing	IMP_22645	273	12	42	\$ 475	\$ 129,793	1	\$ 12,530	\$ 142,323		High	
Lincoln and Channing	IMP_22646	252	12	42	\$ 475	\$ 119,509	1	\$ 12,530	\$ 132,039		High	
Lincoln and Channing	IMP_22766	279	24	30	\$ 375	\$ 104,697	1	\$ 12,230	\$ 116,927		High	
Lincoln and Channing	IMP_Lincoln1	562	-	42	\$ 475	\$ 267,103	2	\$ 25,060	\$ 292,163		High	
Lincoln and Channing	IMP_Lincoln2	560	-	42	\$ 475	\$ 265,818	2	\$ 25,060	\$ 290,878		High	
Lincoln and Channing	IMP_Lincoln3	560	-	42	\$ 475	\$ 266,172	2	\$ 25,060	\$ 291,232		High	
Lincoln and Channing	IMP_Lincoln4	1136	-	42	\$ 475	\$ 539,371	2	\$ 25,060	\$ 564,431		High	
		<b>4629</b>					<b>14</b>		<b>\$2,315,697</b>	<b>\$0</b>		<b>\$2,430,000</b>
Loma Verde and Cowper	IMP22961	176	27	48	\$ 525	\$ 92,625	2	\$ 25,360	\$ 117,985		Low	
Loma Verde and Cowper	IMP22962	441	24	36	\$ 425	\$ 187,337	1	\$ 12,380	\$ 199,717		Low	
Loma Verde and Cowper	IMP22963	84	24	36	\$ 425	\$ 35,856	1	\$ 12,380	\$ 48,236		Low	
Loma Verde and Cowper	IMP22964	322	24	36	\$ 425	\$ 136,709	1	\$ 12,380	\$ 149,089		Low	
Loma Verde and Cowper	IMP22966	259	24	36	\$ 425	\$ 110,134	1	\$ 12,380	\$ 122,514		Low	
Loma Verde and Cowper	IMP22968	195	27	48	\$ 525	\$ 102,515	1	\$ 12,680	\$ 115,195		Low	
Loma Verde and Cowper	IMP22969	54	27	48	\$ 525	\$ 28,253	1	\$ 12,680	\$ 40,933		Low	
Loma Verde and Cowper	IMP22970	70	27	48	\$ 525	\$ 36,875	1	\$ 12,680	\$ 49,555		Low	
Loma Verde and Cowper	IMP22971	169	27	48	\$ 525	\$ 88,606	1	\$ 12,680	\$ 101,286		Low	
Loma Verde and Cowper	IMP22973	177	27	48	\$ 525	\$ 92,844	1	\$ 12,680	\$ 105,524		Low	
Loma Verde and Cowper	IMP23286	317	27	48	\$ 525	\$ 166,375	1	\$ 12,680	\$ 179,055		Low	
Loma Verde and Cowper utilities	Utilities relocation	2264			\$ 100	\$ 226,424			\$ 226,424		Low	
		<b>2264</b>					<b>12</b>		<b>\$1,455,512</b>	<b>\$0</b>		<b>\$1,530,000</b>
Loma Verde and Maddux	IMP22250	306	36	51	\$ 550	\$ 168,383	2	\$ 25,510	\$ 193,893		High	
Loma Verde and Maddux	IMP22254	50	36	51	\$ 550	\$ 27,481	1	\$ 12,755	\$ 40,236		High	
Loma Verde and Maddux	IMP22257	231	36	51	\$ 550	\$ 127,233	1	\$ 12,755	\$ 139,988		High	
Loma Verde and Maddux	IMP23240	63	36	51	\$ 550	\$ 34,808	1	\$ 12,755	\$ 47,563		High	
Loma Verde and Maddux	IMP23241	26	36	51	\$ 550	\$ 14,193	1	\$ 12,755	\$ 26,948		High	
Loma Verde and Maddux	IMP23242	271	36	51	\$ 550	\$ 149,050	1	\$ 12,755	\$ 161,805		High	
Loma Verde and Maddux	IMP23243	21	36	51	\$ 550	\$ 11,603	1	\$ 12,755	\$ 24,358		High	
Loma Verde and Maddux	IMP23244	15	36	51	\$ 550	\$ 8,201	1	\$ 12,755	\$ 20,956		High	
Loma Verde and Maddux	IMP23245	30	36	51	\$ 550	\$ 16,644	1	\$ 12,755	\$ 29,399		High	
Loma Verde and Maddux	IMP23246	307	36	51	\$ 550	\$ 169,036	1	\$ 12,755	\$ 181,791		High	
Loma Verde and Maddux	IMP23247	42	36	51	\$ 550	\$ 23,171	1	\$ 12,755	\$ 35,926		High	
Loma Verde and Maddux	IMP23249	77	36	51	\$ 550	\$ 42,511	1	\$ 12,755	\$ 55,266		High	
Loma Verde and Maddux	IMP23250	138	36	51	\$ 550	\$ 76,076	1	\$ 12,755	\$ 88,831		High	
Loma Verde and Maddux	IMP23251	41	36	51	\$ 550	\$ 22,373	1	\$ 12,755	\$ 35,128		High	
Loma Verde and Maddux	IMP22256	127	36	51	\$ 550	\$ 70,089	1	\$ 12,755	\$ 82,844		High	
Loma Verde and Maddux utilities	Utilities relocation	1747			\$ 100	\$ 174,701			\$ 174,701		High	
		<b>1747</b>					<b>16</b>		<b>\$1,339,634</b>	<b>\$0</b>		<b>\$1,410,000</b>
Loma Verde and Ross	IMP22248	151	30	51	\$ 550	\$ 83,277	2	\$ 25,510	\$ 108,787		Moderate	
Loma Verde and Ross	IMP22249	256	30	51	\$ 550	\$ 140,819	1	\$ 12,755	\$ 153,574		Moderate	
Loma Verde and Ross	IMP22972	246	30	48	\$ 525	\$ 129,327	1	\$ 12,680	\$ 142,007		Moderate	
Loma Verde and Ross	IMP22978	285	30	51	\$ 550	\$ 156,783	1	\$ 12,755	\$ 169,538		Moderate	
Loma Verde and Ross	IMP23239	206	30	51	\$ 550	\$ 113,353	1	\$ 12,755	\$ 126,108		Moderate	
Loma Verde and Ross utilities	Utilities relocation	1145			\$ 100	\$ 114,494			\$ 114,494		Moderate	
		<b>1145</b>					<b>6</b>		<b>\$814,509</b>	<b>\$0</b>		<b>\$860,000</b>
Louis	IMP22379	493	3x4 culvert	4 X 5 Culvert	\$ 724	\$ 357,078	1	\$ 13,820	\$ 370,898		High	
Louis	IMP22385	551	3x4 culvert	4 X 5 Culvert	\$ 724	\$ 398,653	2	\$ 27,640	\$ 426,293		High	
Louis	IMP22386	43	3x4 culvert	4 X 5 Culvert	\$ 724	\$ 31,244	1	\$ 13,820	\$ 45,064		High	
Louis	IMP22438	286	3x4.5 culvert	4 X 5 Culvert	\$ 724	\$ 206,722	1	\$ 13,820	\$ 220,542		High	
Louis	IMP22440	242	3x4.5 culvert	4 X 5 Culvert	\$ 724	\$ 175,421	1	\$ 13,820	\$ 189,241		High	
Louis	IMP22441	33	3x4.5 culvert	4 X 5 Culvert	\$ 724	\$ 23,576	1	\$ 13,820	\$ 37,396		High	

**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Louis	IMP22442	89	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 83,051	1	\$ 14,150	\$ 97,201		High	
Louis	IMP22443	53	3x5 culvert	4 X 5 Culvert	\$ 724	\$ 38,468	1	\$ 13,820	\$ 52,288		High	
Louis	IMP22444	39	3x4.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 36,574	1	\$ 14,150	\$ 50,724		High	
Louis	IMP22445	29	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 27,431	1	\$ 14,150	\$ 41,581		High	
Louis	IMP22453	46	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 43,150	1	\$ 14,150	\$ 57,300		High	
Louis	IMP22454	39	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 36,629	1	\$ 14,150	\$ 50,779		High	
Louis	IMP22455	35	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 32,938	1	\$ 14,150	\$ 47,088		High	
Louis	IMP22456	247	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 230,576	1	\$ 14,150	\$ 244,726		High	
Louis	IMP22686	24	WeirH=1xL=4	4 X 5 Culvert	\$ 724	\$ 17,686	1	\$ 13,820	\$ 31,506		High	
Louis	IMP23176	15	2.5x3.25 culvert	3 x 4 Culvert	\$ 724	\$ 11,070	1	\$ 13,820	\$ 24,890		High	
Louis	IMP23177	584	3x4.5 culvert	4 X 5 Culvert	\$ 724	\$ 423,087	2	\$ 27,640	\$ 450,727		High	
Louis	IMP23206	286	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 266,803	1	\$ 14,150	\$ 280,953		High	
Louis	IMP23207	14	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 12,835	1	\$ 14,150	\$ 26,985		High	
Louis	IMP23208	139	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 129,652	1	\$ 14,150	\$ 143,802		High	
Louis	IMP23210	210	3x5 culvert	4 X 5.5 Culvert	\$ 934	\$ 195,982	1	\$ 14,150	\$ 210,132		High	
Louis	IMP23212	258	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 240,601	1	\$ 14,150	\$ 254,751		High	
Louis	IMP23213	45	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 42,177	1	\$ 14,150	\$ 56,327		High	
Louis	IMP23214	348	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 324,958	1	\$ 14,150	\$ 339,108		High	
Louis	IMP23216	38	3x5.5 culvert	4 X 5.5 Culvert	\$ 934	\$ 35,525	1	\$ 14,150	\$ 49,675		High	
Louis utilities	Utilities relocation	4186			\$ 100	\$ 418,635			\$ 418,635		High	
		<b>4186</b>					<b>27</b>		<b>\$4,218,612</b>	<b>\$0</b>		<b>\$4,430,000</b>
Louis to Matadero Creek	IMPC5	146	-	72	\$ 725	\$ 105,627	1	\$ 13,270	\$ 118,898	1	High	
Louis to Matadero Creek	IMPC6	907	-	72	\$ 725	\$ 657,631	2	\$ 26,540	\$ 684,171		High	
Louis to Matadero Creek Utilities	Utilities relocation	1053			\$ 100	\$ 105,277			\$ 105,277		High	
		<b>1053</b>					<b>3</b>		<b>\$908,346</b>	<b>\$40,000</b>		<b>\$1,000,000</b>
Louis and Loma Verde	IMP22069	296	18	51	\$ 550	\$ 163,009	2	\$ 25,510	\$ 188,519		Low	
Louis and Loma Verde	IMP22076	252	18	51	\$ 550	\$ 138,841	1	\$ 12,755	\$ 151,596		Low	
Louis and Loma Verde	IMP22078	56	18	51	\$ 550	\$ 30,777	1	\$ 12,755	\$ 43,532		Low	
Louis and Loma Verde	IMP22079	188	18	51	\$ 550	\$ 103,351	1	\$ 12,755	\$ 116,106		Low	
Louis and Loma Verde	IMP22142	236	18	51	\$ 550	\$ 129,595	1	\$ 12,755	\$ 142,350		Low	
Louis and Loma Verde	IMP22143	33	18	51	\$ 550	\$ 18,159	1	\$ 12,755	\$ 30,914		Low	
Louis and Loma Verde	IMP22144	116	18	51	\$ 550	\$ 63,887	1	\$ 12,755	\$ 76,642		Low	
Louis and Loma Verde	IMP22258	3	18	51	\$ 550	\$ 1,878	1	\$ 12,755	\$ 14,633		Low	
Louis and Loma Verde	IMP23248	68	18	51	\$ 550	\$ 37,293	1	\$ 12,755	\$ 50,048		Low	
		<b>1249</b>					<b>10</b>		<b>\$814,339</b>	<b>\$0</b>		<b>\$860,000</b>
Louis and Piers	IMP22066	144	15	24	\$ 325	\$ 46,924	2	\$ 24,160	\$ 71,084		Low	
Louis and Piers	IMP22067	360	12	15	\$ 250	\$ 89,975	1	\$ 11,850	\$ 101,825		Low	
Louis and Piers	IMP22068	316	12	24	\$ 325	\$ 102,642	1	\$ 12,080	\$ 114,722		Low	
Louis and Piers	IMP22071	62	15	24	\$ 325	\$ 20,302	1	\$ 12,080	\$ 32,382		Low	
Louis and Piers	IMP22247	242	12	15	\$ 250	\$ 60,462	1	\$ 11,850	\$ 72,312		Low	
Louis and Piers	IMP22517	344	12	15	\$ 250	\$ 85,882	1	\$ 11,850	\$ 97,732		Low	
		<b>1468</b>					<b>7</b>		<b>\$490,057</b>	<b>\$0</b>		<b>\$510,000</b>
Moreno	IMP22833	140	15	24	\$ 325	\$ 45,527	1	\$ 12,080	\$ 57,607		Low	
Moreno	IMP22834	633	15	24	\$ 325	\$ 205,583	2	\$ 24,160	\$ 229,743		Low	
		<b>773</b>					<b>3</b>		<b>\$287,350</b>	<b>\$0</b>		<b>\$300,000</b>
Matadero Pump Station	Pump Station								\$ 7,000,000	1	Highest	
									<b>\$7,000,000</b>	<b>\$40,000</b>		<b>\$7,390,000</b>
Oregon	IMP 22395	81	12	30	\$ 375	\$ 30,501	2	\$ 24,460	\$ 54,961		Low	
Oregon	IMP 22702	257	12	30	\$ 375	\$ 96,251	1	\$ 12,230	\$ 108,481		Low	
Oregon	IMP 22703	100	12	30	\$ 375	\$ 37,332	1	\$ 12,230	\$ 49,562		Low	
Oregon	IMP 22704	181	12	30	\$ 375	\$ 68,053	1	\$ 12,230	\$ 80,283		Low	
Oregon	IMP 22705	173	12	30	\$ 375	\$ 64,785	1	\$ 12,230	\$ 77,015		Low	
		<b>792</b>					<b>6</b>		<b>\$370,301</b>	<b>\$0</b>		<b>\$390,000</b>
Oregon and Louis	22827	197	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 142,474	1	\$ 13,820	\$ 156,294		Low	
Oregon and Louis	IMP22439	18	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 12,907	1	\$ 13,820	\$ 26,727		Low	
Oregon and Louis	IMP22828	82	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 59,486	1	\$ 13,820	\$ 73,306		Low	
Oregon and Louis	IMP22829	519	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 375,590	2	\$ 27,640	\$ 403,230		Low	
Oregon and Louis	IMP22874	36	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 25,869	1	\$ 13,820	\$ 39,689		Low	
Oregon and Louis	IMP22875	5	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 3,476	1	\$ 13,820	\$ 17,296		Low	
Oregon and Louis	IMP23202	316	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 228,697	1	\$ 13,820	\$ 242,517		Low	

**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Oregon and Louis	IMP23204	49	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 35,441	1	\$ 13,820	\$ 49,261		Low	
Oregon and Louis	IMP23205	296	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 214,592	1	\$ 13,820	\$ 228,412		Low	
Oregon and Louis	IMP23209	179	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 129,598	1	\$ 13,820	\$ 143,418		Low	
Oregon and Louis	IMP23232	538	2.8x2.9 culvert	3 x 4 Culvert	\$ 724	\$ 389,169	2	\$ 27,640	\$ 416,809		Low	
Oregon and Louis utilities	Utilities relocation	2234			\$ 100	\$ 223,384			\$ 223,384		Low	
		<b>2234</b>					<b>13</b>		<b>\$2,020,345</b>	<b>\$0</b>		<b>\$2,120,000</b>
Oregon Expy Pump Station	Pump Station					\$ -			\$ 200,000		Low	
		<b>0</b>					<b>0</b>		<b>\$200,000</b>	<b>\$0</b>		<b>\$210,000</b>
Page Mill and Alma	IMP22930	114	24	42	\$ 475	\$ 54,225	1	\$ 12,530	\$ 66,755		Moderate	
Page Mill and Alma	IMP22931	41	30	42	\$ 475	\$ 19,527	1	\$ 12,530	\$ 32,057		Moderate	
Page Mill and Alma	IMP22935	94	24	42	\$ 475	\$ 44,806	1	\$ 12,530	\$ 57,336		Moderate	
Page Mill and Alma	IMP23025	74	12	21	\$ 290	\$ 21,547	1	\$ 12,010	\$ 33,557		Moderate	
Page Mill and Alma	IMP23027	27	30	42	\$ 475	\$ 13,035	1	\$ 12,530	\$ 25,565		Moderate	
Page Mill and Alma	IMP23028	358	30	42	\$ 475	\$ 169,855	1	\$ 12,530	\$ 182,385		Moderate	
Page Mill and Alma	IMP23029	337	30	42	\$ 475	\$ 160,159	1	\$ 12,530	\$ 172,689		Moderate	
Page Mill and Alma	IMP23031	561	30	42	\$ 475	\$ 266,410	2	\$ 25,060	\$ 291,470		Moderate	
Page Mill and Alma	IMP23034	96	36	48	\$ 525	\$ 50,158	1	\$ 12,680	\$ 62,838		Moderate	
Page Mill and Alma	IMP23277	16	30	42	\$ 475	\$ 7,631	1	\$ 12,530	\$ 20,161		Moderate	
Page Mill and Alma	IMP23281	34	30	42	\$ 475	\$ 16,136	1	\$ 12,530	\$ 28,666		Moderate	
Page Mill and Alma	IMP23282	171	24	42	\$ 475	\$ 81,449	1	\$ 12,530	\$ 93,979		Moderate	
Page Mill and Alma	IMP23310	33	30	42	\$ 475	\$ 15,611	1	\$ 12,530	\$ 28,141		Moderate	
		<b>1957</b>					<b>14</b>		<b>\$1,095,597</b>	<b>\$0</b>		<b>\$1,150,000</b>
Page Mill and El Camino Real	IMP23021	379	27	42	\$ 475	\$ 179,939	2	\$ 25,060	\$ 204,999		Moderate	
Page Mill and El Camino Real	IMP23022	329	33	42	\$ 475	\$ 156,464	1	\$ 12,530	\$ 168,994		Moderate	
Page Mill and El Camino Real	IMP23023	282	33	42	\$ 475	\$ 133,804	1	\$ 12,530	\$ 146,334		Moderate	
Page Mill and El Camino Real	IMP23036	13	36	42	\$ 475	\$ 6,225	1	\$ 12,530	\$ 18,755		Moderate	
Page Mill and El Camino Real	IMP23040	285	36	42	\$ 475	\$ 135,460	1	\$ 12,530	\$ 147,990		Moderate	
Page Mill and El Camino Real	IMP23089	361	24	36	\$ 425	\$ 153,624	1	\$ 12,380	\$ 166,004		Moderate	
Page Mill and El Camino Real	IMP23097	422	27	42	\$ 475	\$ 200,398	1	\$ 12,530	\$ 212,928		Moderate	
Page Mill and El Camino Real	IMP23098	330	24	36	\$ 425	\$ 140,410	1	\$ 12,380	\$ 152,790		Moderate	
Page Mill and El Camino Real	IMP23099	119	27	42	\$ 475	\$ 56,393	1	\$ 12,530	\$ 68,923		Moderate	
Page Mill and El Camino Real	Utilities relocation	2521			\$ 100	\$ 252,065			\$ 252,065		Moderate	
		<b>2521</b>					<b>10</b>		<b>\$1,539,781</b>	<b>\$0</b>		<b>\$1,620,000</b>
Parkinson and Newell	IMP22578	344	24	36	\$ 425	\$ 146,196	2	\$ 24,760	\$ 170,956		Low	
Parkinson and Newell	IMP22579	285	24	36	\$ 425	\$ 121,025	1	\$ 12,380	\$ 133,405		Low	
Parkinson and Newell	IMP22655	24	12	24	\$ 325	\$ 7,674	1	\$ 12,080	\$ 19,754		Low	
Parkinson and Newell	IMP22657	398	12	24	\$ 325	\$ 129,432	1	\$ 12,080	\$ 141,512		Low	
Parkinson and Newell	IMP22667	364	15	24	\$ 325	\$ 118,380	1	\$ 12,080	\$ 130,460		Low	
Parkinson and Newell	IMP22668	360	18	24	\$ 325	\$ 117,026	1	\$ 12,080	\$ 129,106		Low	
Parkinson and Newell	IMP22670	349	18	24	\$ 325	\$ 113,297	1	\$ 12,080	\$ 125,377		Low	
Parkinson and Newell	IMP22678	764	18	42	\$ 475	\$ 362,793	2	\$ 25,060	\$ 387,853		Low	
Parkinson and Newell	IMP22679	370	18	42	\$ 475	\$ 175,970	1	\$ 12,530	\$ 188,500		Low	
		<b>3258</b>					<b>11</b>		<b>\$1,426,924</b>	<b>\$0</b>		<b>\$1,500,000</b>
Portage	IMP23052	89	15	27	\$ 350	\$ 31,232	2	\$ 24,310	\$ 55,542		Low	
Portage	IMP23056	316	15	27	\$ 350	\$ 110,577	1	\$ 12,155	\$ 122,732		Low	
Portage	IMP23057	151	15	27	\$ 350	\$ 52,826	1	\$ 12,155	\$ 64,981		Low	
Portage	IMP23058	6	12	27	\$ 350	\$ 2,023	1	\$ 12,155	\$ 14,178		Low	
		<b>562</b>					<b>5</b>		<b>\$257,434</b>	<b>\$0</b>		<b>\$270,000</b>
Ross and Ames	IMP22133	523	18	36	\$ 425	\$ 222,093	2	\$ 24,760	\$ 246,853		Low	
Ross and Ames	IMP22977	321	15	36	\$ 425	\$ 136,277	1	\$ 12,380	\$ 148,657		Low	
		<b>843</b>					<b>3</b>		<b>\$395,510</b>	<b>\$0</b>		<b>\$420,000</b>
Ross Road to Matadero Creek	IMP22243	43	12	18	\$ 270	\$ 11,673	2	\$ 23,860	\$ 35,533		Low	
Ross Road to Matadero Creek	IMP22516	266	12	18	\$ 270	\$ 71,788	1	\$ 11,930	\$ 83,718		Low	
Ross Road to Matadero Creek	IMP22900	44	12	18	\$ 270	\$ 11,792	1	\$ 11,930	\$ 23,722		Low	
Ross Road to Matadero Creek	IMPNew4	431	-	48	\$ 525	\$ 226,431	1	\$ 12,680	\$ 239,112	1	Low	
		<b>784</b>					<b>5</b>		<b>\$382,085</b>	<b>\$40,000</b>		<b>\$440,000</b>
Seale	IMP22344	561	24	36	\$ 425	\$ 238,417	2	\$ 24,760	\$ 263,177		Moderate	
Seale	IMP22345	559	21	36	\$ 425	\$ 237,643	2	\$ 24,760	\$ 262,403		Moderate	
Seale	IMP22380	481	2x3 culvert	3 x 4 Culvert	\$ 724	\$ 348,267	1	\$ 13,820	\$ 362,087		Moderate	
Seale	IMP22381	300	2x3 culvert	3 x 4 Culvert	\$ 724	\$ 217,227	1	\$ 13,820	\$ 231,047		Moderate	

**MATADERO DRAINAGE AREA  
DETAILED CONSTRUCTION ESTIMATE**

Project	Name	Length (ft)	Ex Diam (in)	Imp Diam (in)	Pipe Unit Cost	Pipe Cost	MHs	MH Cost	Total	Outfalls	Priority	Project Cost (w/ 5% mob/demob)
Seale	IMP22430	195	2x3 culvert	3 x 4 Culvert	\$ 724	\$ 141,252	1	\$ 13,820	\$ 155,072		Moderate	
Seale	IMP22685	18	2x3 culvert	3 x 4 Culvert	\$ 724	\$ 13,045	1	\$ 13,820	\$ 26,865		Moderate	
Seale	IMP22801	528	27	36	\$ 425	\$ 224,468	2	\$ 24,760	\$ 249,228		Moderate	
Seale	IMP22802	563	27	36	\$ 425	\$ 239,357	2	\$ 24,760	\$ 264,117		Moderate	
Seale	IMP22803	81	30	36	\$ 425	\$ 34,340	1	\$ 12,380	\$ 46,720		Moderate	
Seale	IMP22804	283	30	36	\$ 425	\$ 120,392	1	\$ 12,380	\$ 132,772		Moderate	
Seale	IMP22805	294	30	36	\$ 425	\$ 124,912	1	\$ 12,380	\$ 137,292		Moderate	
Seale	IMP22806	258	30	36	\$ 425	\$ 109,556	1	\$ 12,380	\$ 121,936		Moderate	
Seale	IMP22807	20	27	36	\$ 425	\$ 8,378	1	\$ 12,380	\$ 20,758		Moderate	
Seale	IMP22852	569	21	36	\$ 425	\$ 241,911	2	\$ 24,760	\$ 266,671		Moderate	
Seale	IMP22855	281	24	36	\$ 425	\$ 119,629	1	\$ 12,380	\$ 132,009		Moderate	
Seale	IMP22856	279	24	36	\$ 425	\$ 118,427	1	\$ 12,380	\$ 130,807		Moderate	
Seale	IMP23199	267	2x3 culvert	3 x 4 Culvert	\$ 724	\$ 193,580	1	\$ 13,820	\$ 207,400		Moderate	
Seale	IMP23200	47	2.25 culvert	36	\$ 425	\$ 19,952	1	\$ 12,380	\$ 32,332		Moderate	
		<b>5585</b>					<b>23</b>		<b>\$3,042,692</b>	<b>\$0</b>		<b>\$3,190,000</b>
Walter Hays	IMP22032	256	18	48	\$ 525	\$ 134,362	2	\$ 25,360	\$ 159,722		Low	
Walter Hays	IMP22033	90	18	48	\$ 525	\$ 47,162	1	\$ 12,680	\$ 59,842		Low	
Walter Hays	IMP22371	63	18	48	\$ 525	\$ 32,818	1	\$ 12,680	\$ 45,498		Low	
Walter Hays	IMP22372	154	15	48	\$ 525	\$ 80,965	1	\$ 12,680	\$ 93,645		Low	
Walter Hays	IMP22592	42	21	48	\$ 525	\$ 21,794	1	\$ 12,680	\$ 34,474		Low	
Walter Hays	IMP22684	169	15	48	\$ 525	\$ 88,842	1	\$ 12,680	\$ 101,522		Low	
		<b>773</b>					<b>7</b>		<b>\$494,703</b>	<b>\$0</b>		<b>\$520,000</b>
Waverley	IMP22632	13	12	15	\$ 250	\$ 3,192	2	\$ 23,700	\$ 26,892		Low	
Waverley	IMP22633	461	12	15	\$ 250	\$ 115,251	1	\$ 11,850	\$ 127,101		Low	
Waverley	IMP22637	434	12	15	\$ 250	\$ 108,411	1	\$ 11,850	\$ 120,261		Low	
		<b>907</b>					<b>4</b>		<b>\$274,255</b>	<b>\$0</b>		<b>\$290,000</b>
<b>TOTAL MATADERO DRAINAGE AREA CONSTRUCTION ESTIMATE</b>											<b>\$ 47,690,000</b>	

**CONDITION ASSESSMENT  
DETAILED CONSTRUCTION ESTIMATE**

Project	Rank	Priority	Length	Action Summary	Project Cost (w/ 5% Mob/Demob)
A-1	5	Highest	28	Replace	\$7,500
A-2	4	High	46	Line	\$4,100
A-3	3	Moderate	22	Line	\$1,900
A-4	3	Moderate	39	Spot repair, line	\$5,300
A-6	4	High	46	Line	\$4,500
A-8	3	Moderate	28	Line	\$4,100
A-5	3	Moderate	41	Line	\$7,000
A-7	5	Highest	31	Replace	\$2,500
A-9	3	Moderate	26	Line	\$2,100
A-10	3	Moderate	28	Line	\$2,500
A-11	3	Moderate	28	Line	\$2,200
A-12	4	High	56	Replace,remove cable	\$11,700
A-13	3	Moderate	31	Line	\$2,800
A-14	4	High	30	Replace	\$6,800
A-15	4	High	21	3 spot repair, line	\$7,300
A-16	4	High	22	spot repair, line	\$3,700
A-17	3	Moderate	18	Inlet repair, line	\$2,600
A-19	3	Moderate	25	Line	\$2,700
A-20	4	High	34	Replace	\$7,700
A-21	4	High	27	Grade inlet, spot repair, line	\$5,200
A-22	3	Moderate	34	Spot repair, line	\$4,900
A-23	5	Highest	34	Replace	\$7,700
A-24	4	High	32	Replace inlet, line	\$5,900
A-25	5	Highest	25	Replace inlet, clear sediment, line	\$6,900
A-26	5	Highest	34	Replace	\$6,800
A-27	3	Moderate	20	Line	\$1,800
A-28	3	Moderate	51	Line	\$4,600
A-29	3	Moderate	43	Line	\$5,100
A-30	3	Moderate	52	Spot repair, line	\$6,400
A-31	5	Highest	34	Repair	\$1,800
A-32 24-in.	3	Moderate	48	Spot repair, line	\$7,400
A-32 18-in.	3	Moderate	48	Spot repair, line	\$8,800
A-33 d/s	4	High	21	Replace	\$6,900
A-33 u/s	4	High	40	Line	\$5,200
A-34 d/s	5	Highest	81	Replace	\$18,300
A-34 u/s	5	Highest	88	Replace	\$19,800
A-35	5	Highest	55	Replace	\$12,500
A-36	4	High	27	Replace	\$6,100
A-37	4	High	38	Replace inlet, clear sediment, line	\$7,500
A-38	4	High	41	Clear sediment, line	\$4,800
A-39	5	Highest	37	Replace	\$9,200
A-40	4	High	42	Replace	\$10,400
A-41	4	High	36	Spot repair, line	\$7,200
A-42	5	Highest	23	Inlet structure, clear sediment	\$4,100
A-43	4	High	23	Clear sediment, line	\$3,200
<b>TOTAL CONSTRUCTION ESTIMATE</b>					<b>\$277,500</b>

**A. Project ID: 1**

**B. Project Name: Corporation & E. Bayshore**

**C. Project Location: E. Bayshore Rd. between Corporation Way and Adobe Creek**

**D. Priority: Highest**

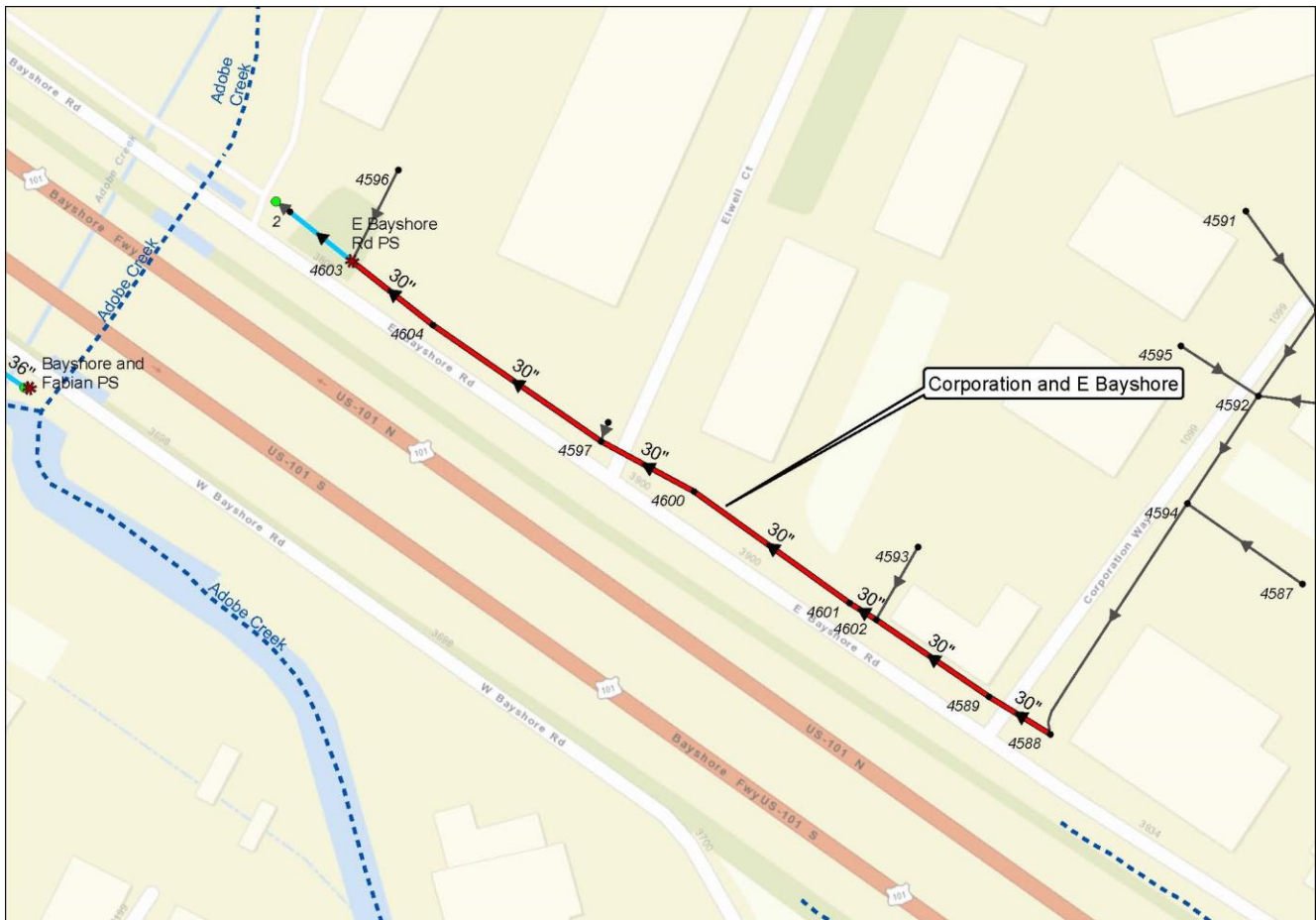
**E. Type: Capacity**

**F. Project Description:** The existing pipes on E. Bayshore Rd. west of Corporation Way lack the capacity required to convey 10-year storm runoff and water cannot gravity flow when the water level in Adobe Creek is high. Existing pipes should be upsized and a pump station should be installed to achieve a 10 year level of service.

Ex. Pump Capacity (cfs)	Imp. Pump Capacity (cfs)
N/A	25

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
21	30	642
22	30	60

**G. Construction Subtotal.....\$1,550,000**  
**H. Total Construction Cost.....\$2,020,000**  
**I. Estimated CIP.....\$2,420,000**



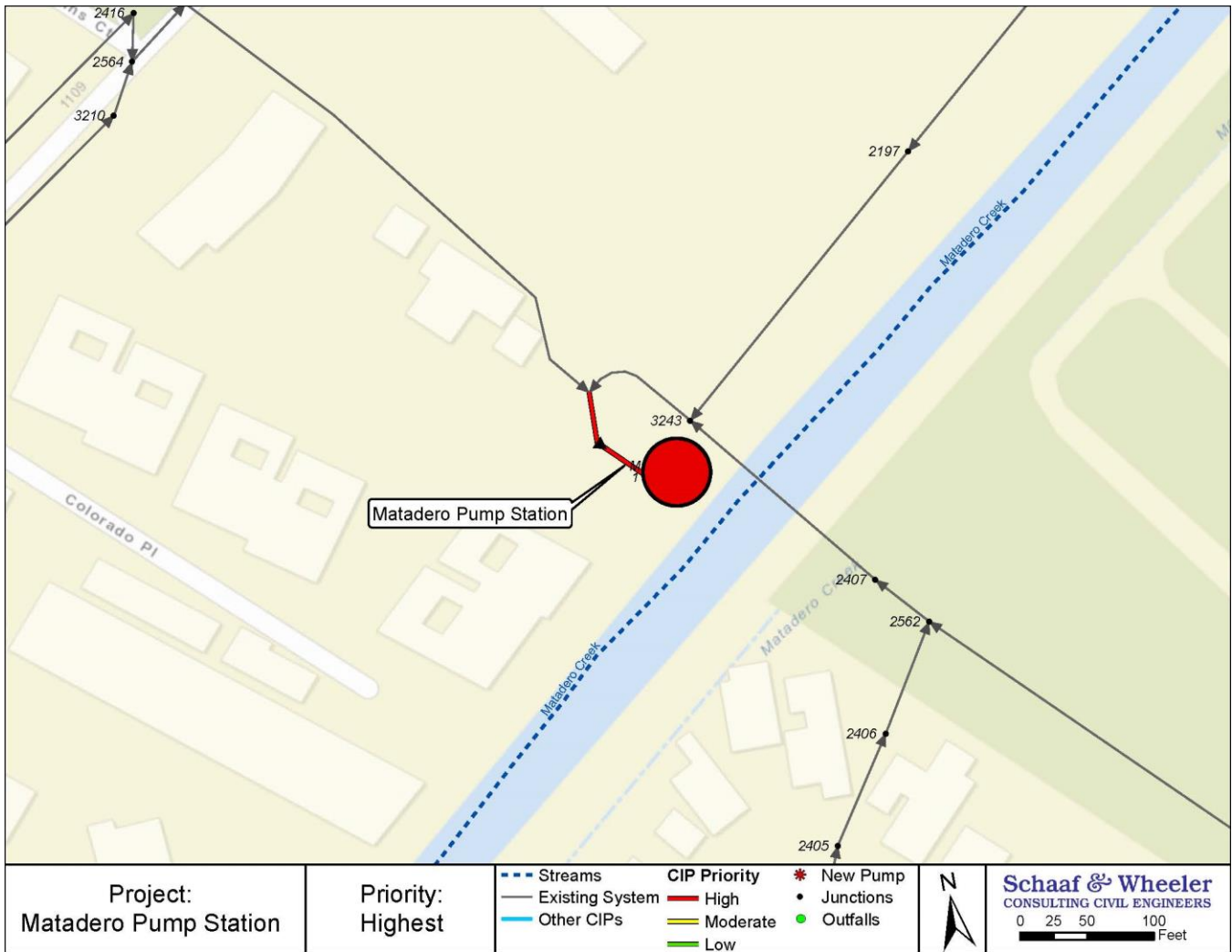
Project: Corporation and E Bayshore	Priority: Highest	--- Streams	CIP Priority	* New Pump
		— Existing System	High	• Junctions
		— Other CIPs	Moderate	• Outfalls
			Low	

**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS

0 50 100 200 Feet



<b>A. Project ID: 2</b>	<b>B. Project Name: Matadero Pump Station</b>				
<b>C. Project Location: Existing Matadero Pump Station at Matadero Creek</b>					
<b>D. Priority: Highest</b>					
<b>E. Type: Capacity</b>					
<b>F. Project Description:</b> The existing Matadero pump station lacks the capacity required to convey 10-year storm runoff. Upsizing the Matadero Pump Station is necessary before other improvements in the Matadero system are constructed. Demolishing the existing pump station and building a new pump station in its place is recommended.					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Pump Capacity (cfs)</th> <th>Imp. Pump Capacity (cfs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">285</td> <td style="text-align: center;">380</td> </tr> </tbody> </table>		Ex. Pump Capacity (cfs)	Imp. Pump Capacity (cfs)	285	380
Ex. Pump Capacity (cfs)	Imp. Pump Capacity (cfs)				
285	380				
<b>G. Construction Subtotal ..... \$7,390,000</b>					
<b>H. Total Construction Cost ..... \$9,610,000</b>					
<b>I. Estimated CIP ..... \$11,530,000</b>					



**A. Project ID: 3**

**B. Project Name: Bayshore & Fabian**

**C. Project Location: West Bayshore Rd. near Hwy 101 to Adobe Creek outfall**

**D. Priority: High**

**E. Type: Capacity**

**F. Project Description:** The existing pipes on West Bayshore Rd. near Fabian Way lack the capacity required to convey 10-year storm runoff to the outlet. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
15	36	1,392

**G. Construction Subtotal ..... \$890,000**

**H. Total Construction Cost ..... \$1,160,000**

**I. Estimated CIP ..... \$1,390,000**



<p><b>Project:</b> Bayshore and Fabian</p>	<p><b>Priority:</b> High</p>	<p>--- Streams --- Existing System --- Other CIPs</p>	<p><b>CIP Priority</b>  <span style="color: red;">—</span> High  <span style="color: orange;">—</span> Moderate  <span style="color: green;">—</span> Low</p>	<p>* New Pump • Junctions • Outfalls</p>	<p><b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 75 150 300 Feet</p>
------------------------------------------------	----------------------------------	---------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------	-----------------------------------------------------------------------------------------

A. Project ID: 4

B. Project Name: Bayshore & Fabian Pump Station

C. Project Location: West Bayshore Rd. near Hwy 101 to Adobe Creek outfall

D. Priority: High

E. Type: Capacity

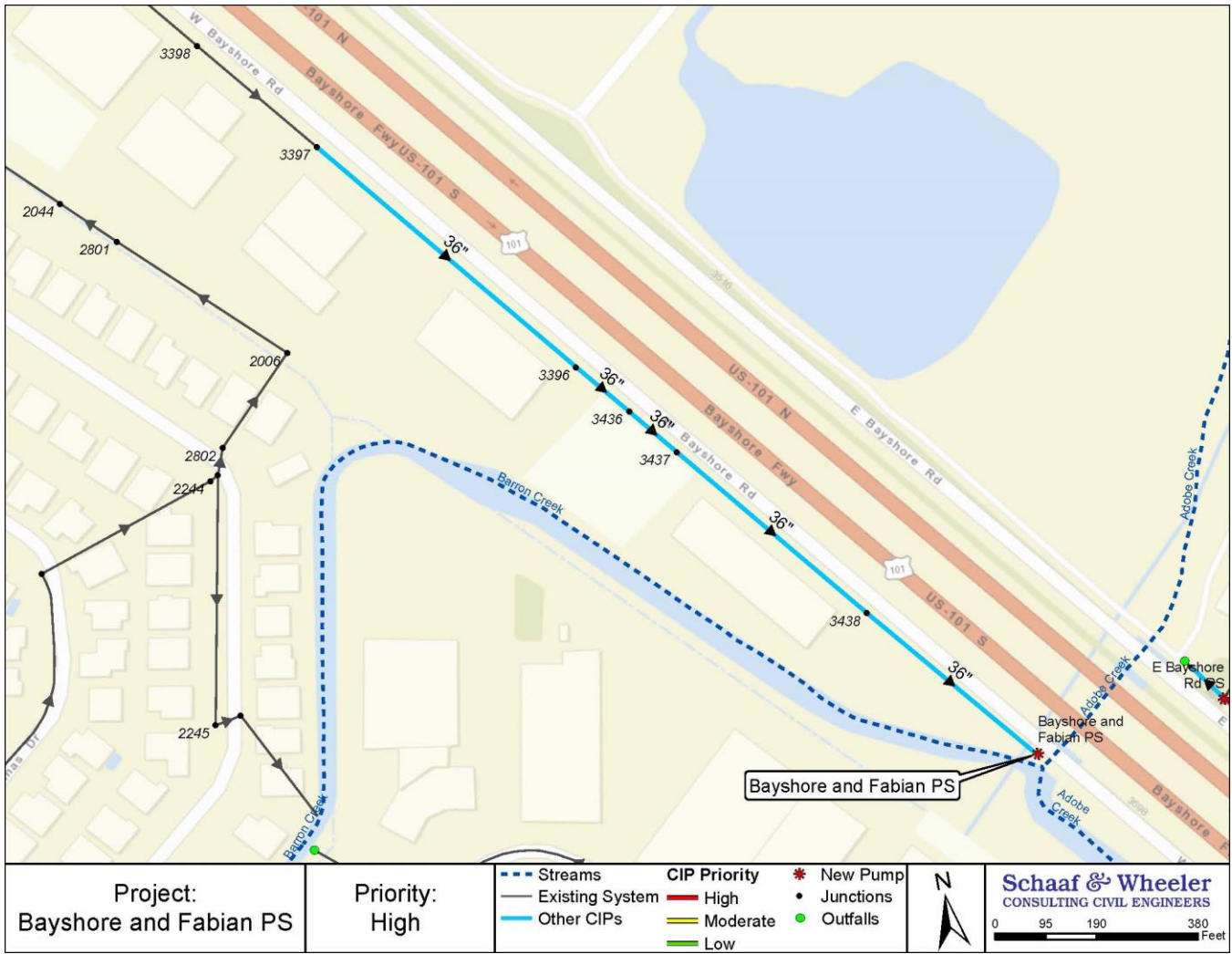
F. Project Description: The pipes on W. Bayshore Rd. near Fabian Way cannot flow by gravity to Adobe Creek when the water level in the creek is high. Installing a pump station to achieve a 10 year level of service is recommended. This project should be constructed after Project ID 3 is in place.

Ex. Pump Capacity (cfs)	Imp. Pump Capacity (cfs)
N/A	15

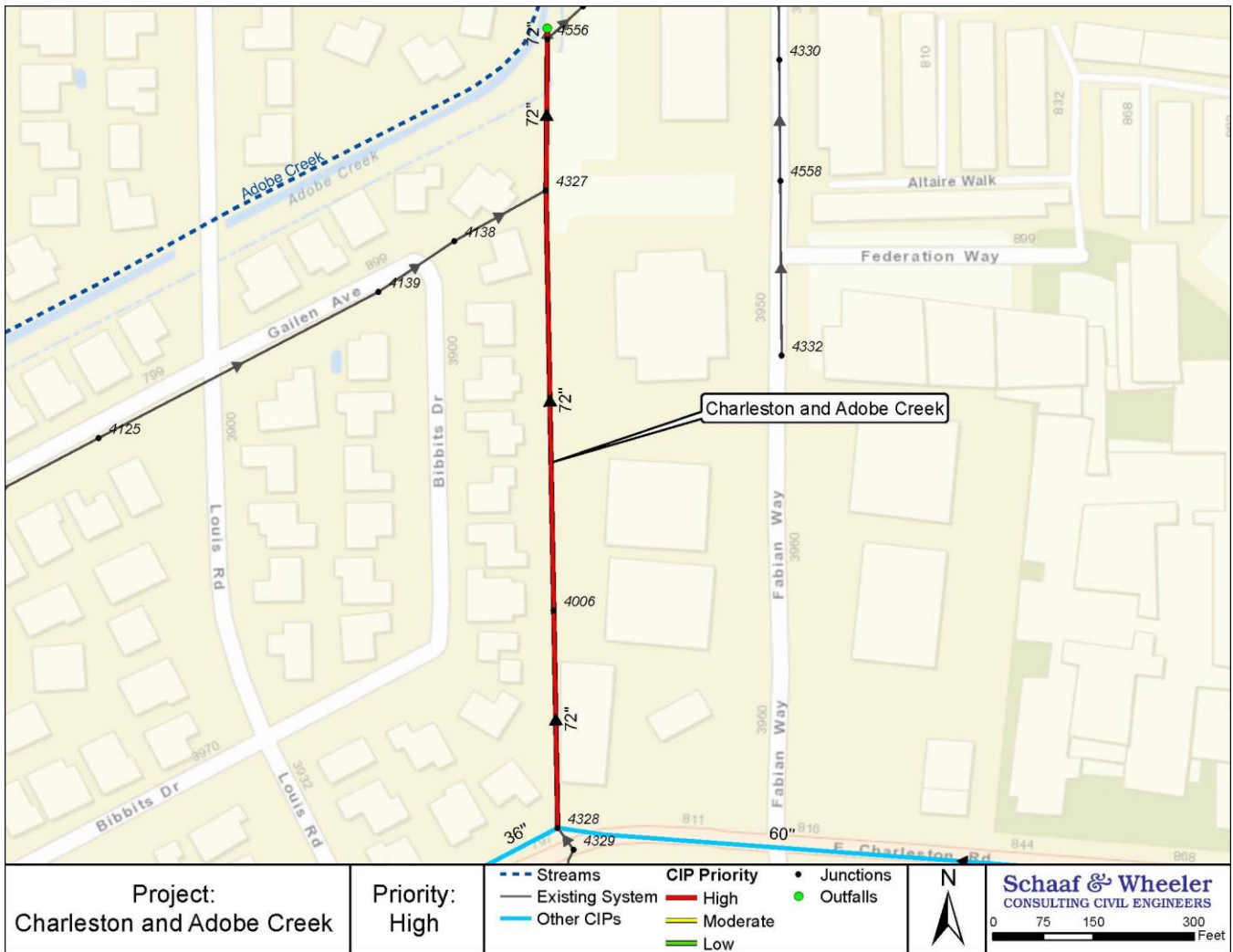
G. Construction Subtotal.....\$670,000

H. Total Construction Cost.....\$870,000

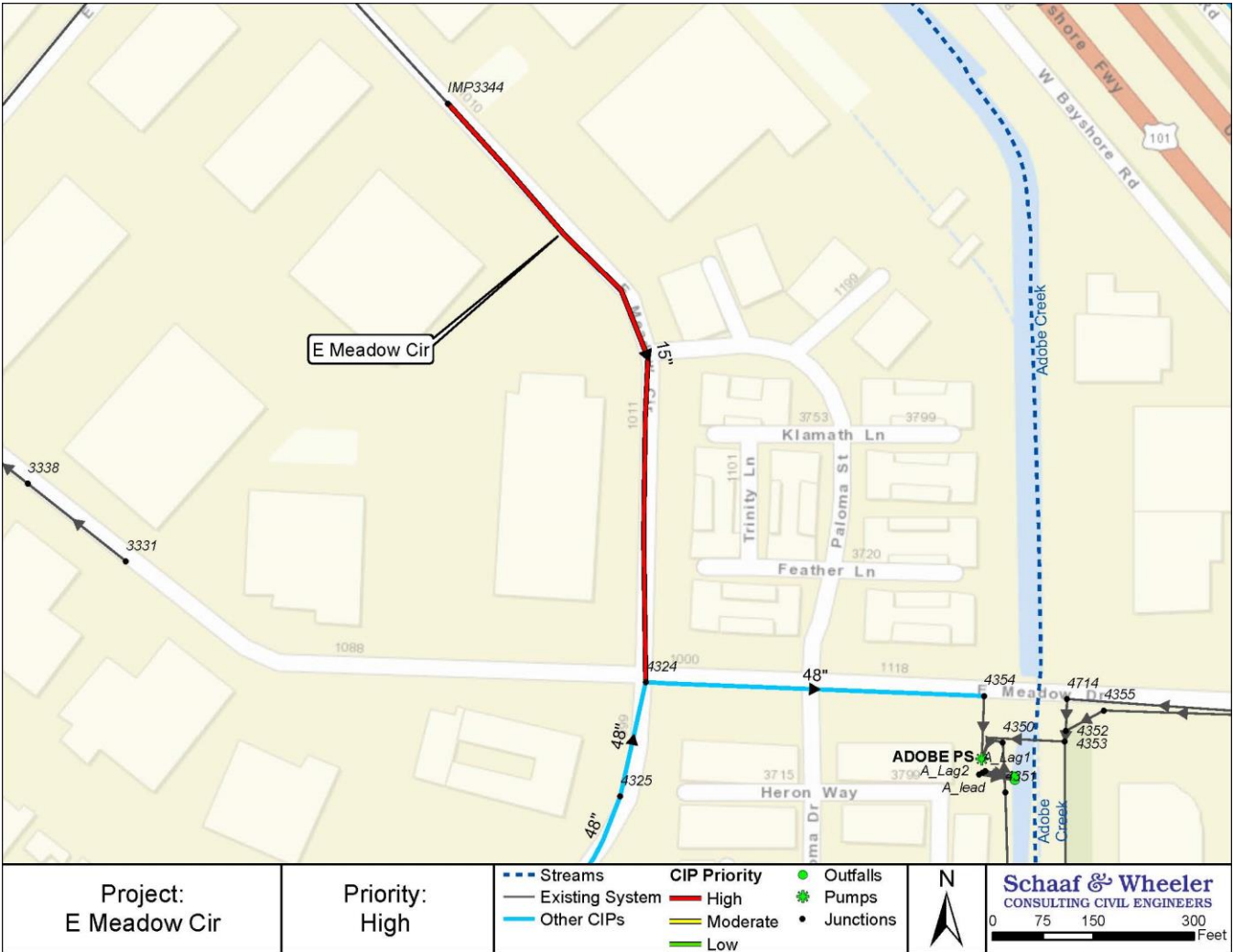
I. Estimated CIP.....\$1,040,000



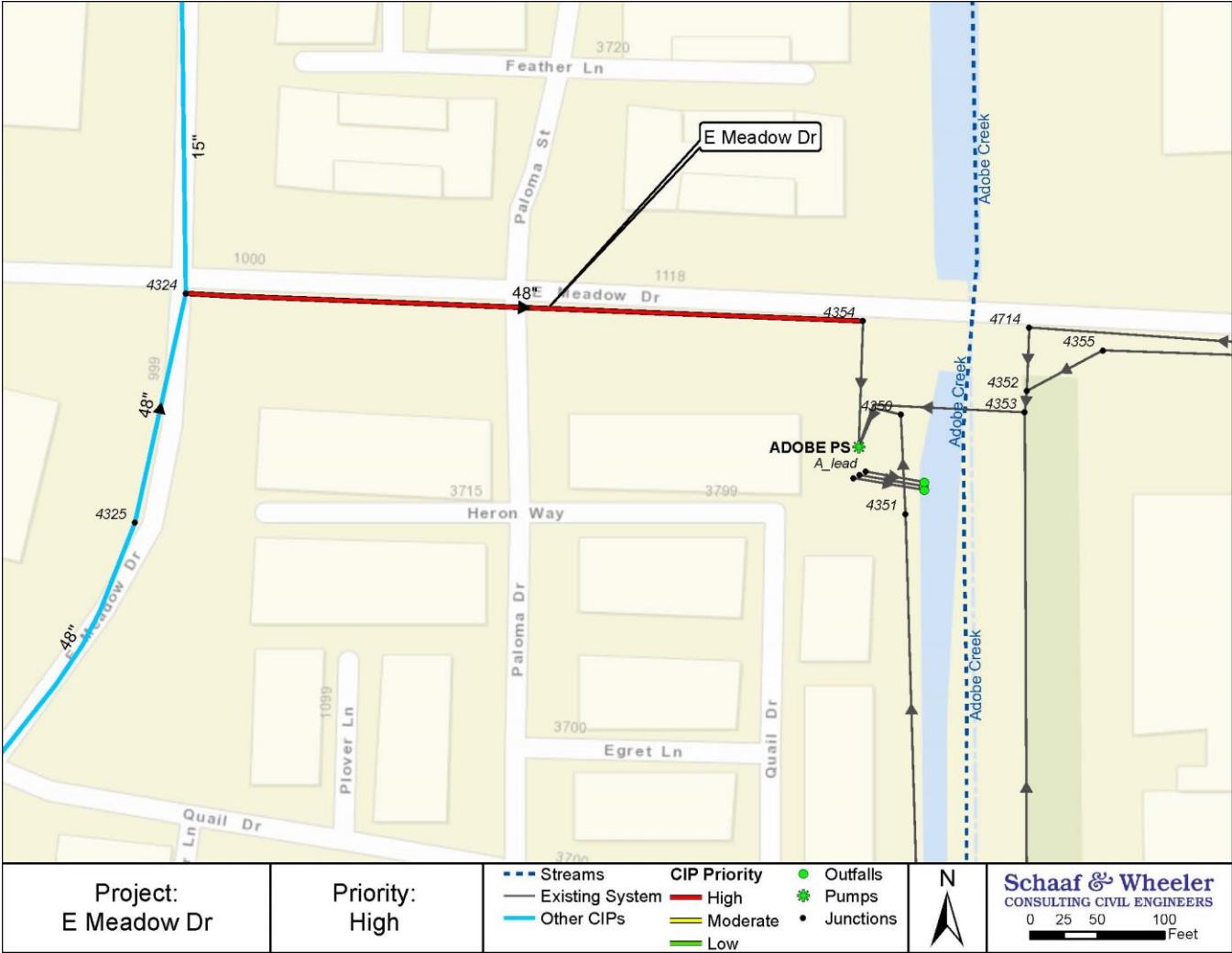
<b>A. Project ID:</b> 5	<b>B. Project Name:</b> Charleston & Adobe Cr						
<b>C. Project Location:</b> North of E. Charleston Rd. to Adobe Creek Outfall							
<b>D. Priority:</b> High							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes between E. Charleston Rd. and the Adobe Creek gravity outfall near Gailen Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. The large pipe will route water toward the gravity outfall and toward the Adobe Pump Station. The larger pipe will also provide storage during the storm peak.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>36</td> <td>72</td> <td>946</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	36	72	946
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
36	72	946					
<b>G. Construction Subtotal</b> ..... \$830,000							
<b>H. Total Construction Cost</b> ..... \$1,080,000							
<b>I. Estimated CIP</b> ..... \$1,300,000							



<b>A. Project ID: 6</b>	<b>B. Project Name: E Meadow Cir</b>						
<b>C. Project Location: E. Meadow Circle north of E. Meadow Dr.</b>							
<b>D. Priority: High</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing storm drain pipeline north of node IMP3344, which gravity outfalls to Barron Creek, lacks the capacity required to convey 10-year storm runoff, especially when creek levels are high. A new pipe connecting node IMP3344 to the E. Meadow Dr. system via a new pipe in E Meadow Cir will allow the system that flows to Barron Creek to overflow to the Adobe Pump Station during high flows and high creek levels.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>15</td> <td>770</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	N/A	15	770
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
N/A	15	770					
<b>G. Construction Subtotal ..... \$230,000</b>							
<b>H. Total Construction Cost ..... \$300,000</b>							
<b>I. Estimated CIP ..... \$360,000</b>							



<b>A. Project ID:</b> 7	<b>B. Project Name:</b> E. Meadow Dr						
<b>C. Project Location:</b> E. Meadow Dr. east of E. Meadow Cir. to Adobe PS							
<b>D. Priority:</b> High							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipe on E. Meadow Dr. near the Adobe Pump Station lacks the capacity required to convey 10-year storm runoff to the pump station. Upsizing this pipe to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>36</td> <td>48</td> <td>401</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	36	48	401
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
36	48	401					
<b>G. Construction Subtotal</b> ..... \$250,000							
<b>H. Total Construction Cost</b> ..... \$330,000							
<b>I. Estimated CIP</b> ..... \$400,000							



Project:  
E Meadow Dr

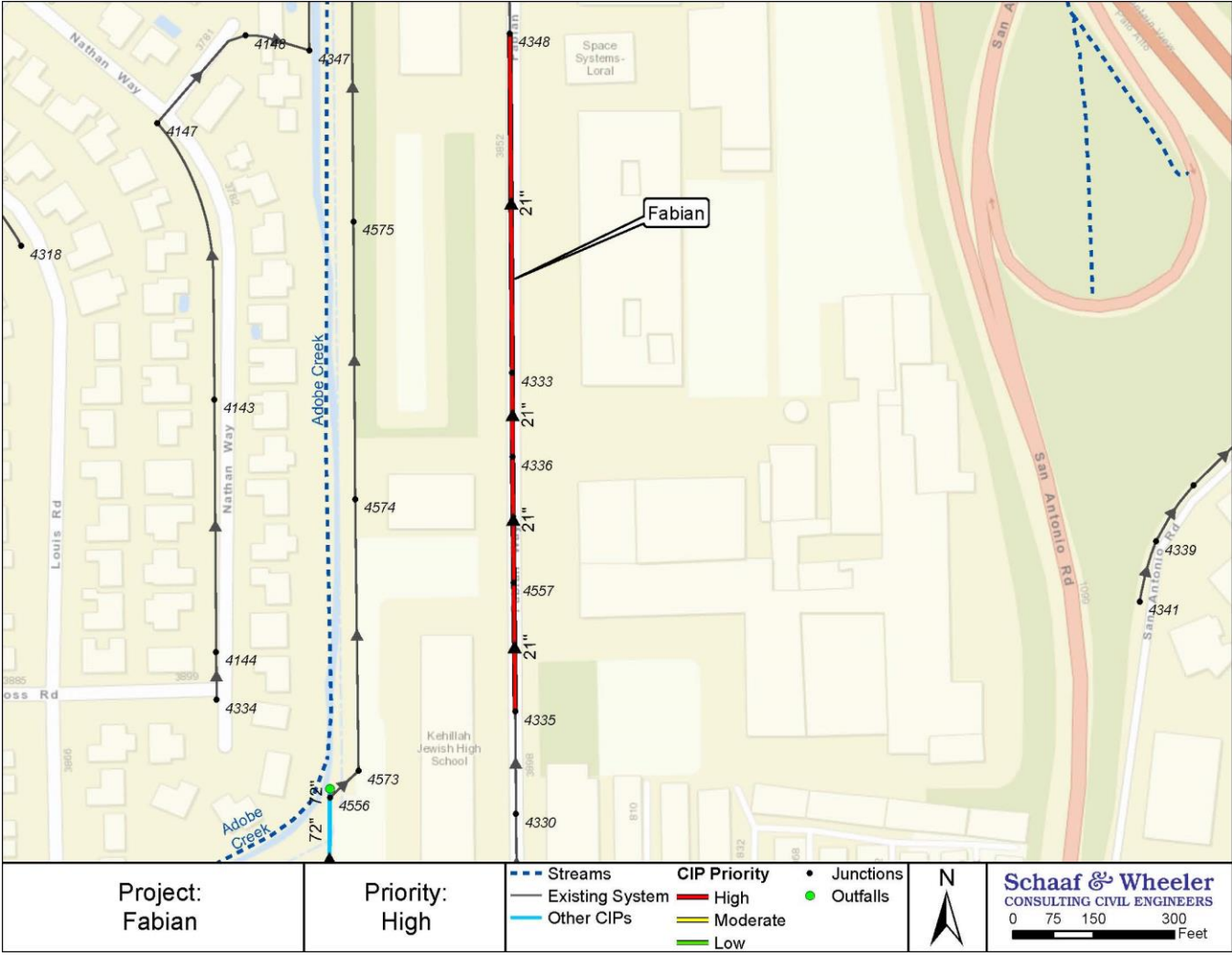
Priority:  
High

- Streams
- Existing System
- Other CIPs
- CIP Priority
  - High
  - Moderate
  - Low
- ★ Outfalls
- ★ Pumps
- Junctions



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 25 50 100  
Feet

<b>A. Project ID: 8</b>	<b>B. Project Name: Fabian</b>									
<b>C. Project Location: Fabian Way between 3898 and 3850 Fabian Way</b>										
<b>D. Priority: High</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Fabian Way lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>21</td> <td>500</td> </tr> <tr> <td>18</td> <td>21</td> <td>500</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	21	500	18	21	500
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
15	21	500								
18	21	500								
<b>G. Construction Subtotal ..... \$370,000</b>										
<b>H. Total Construction Cost..... \$480,000</b>										
<b>I. Estimated CIP ..... \$580,000</b>										



Project:  
Fabian

Priority:  
High

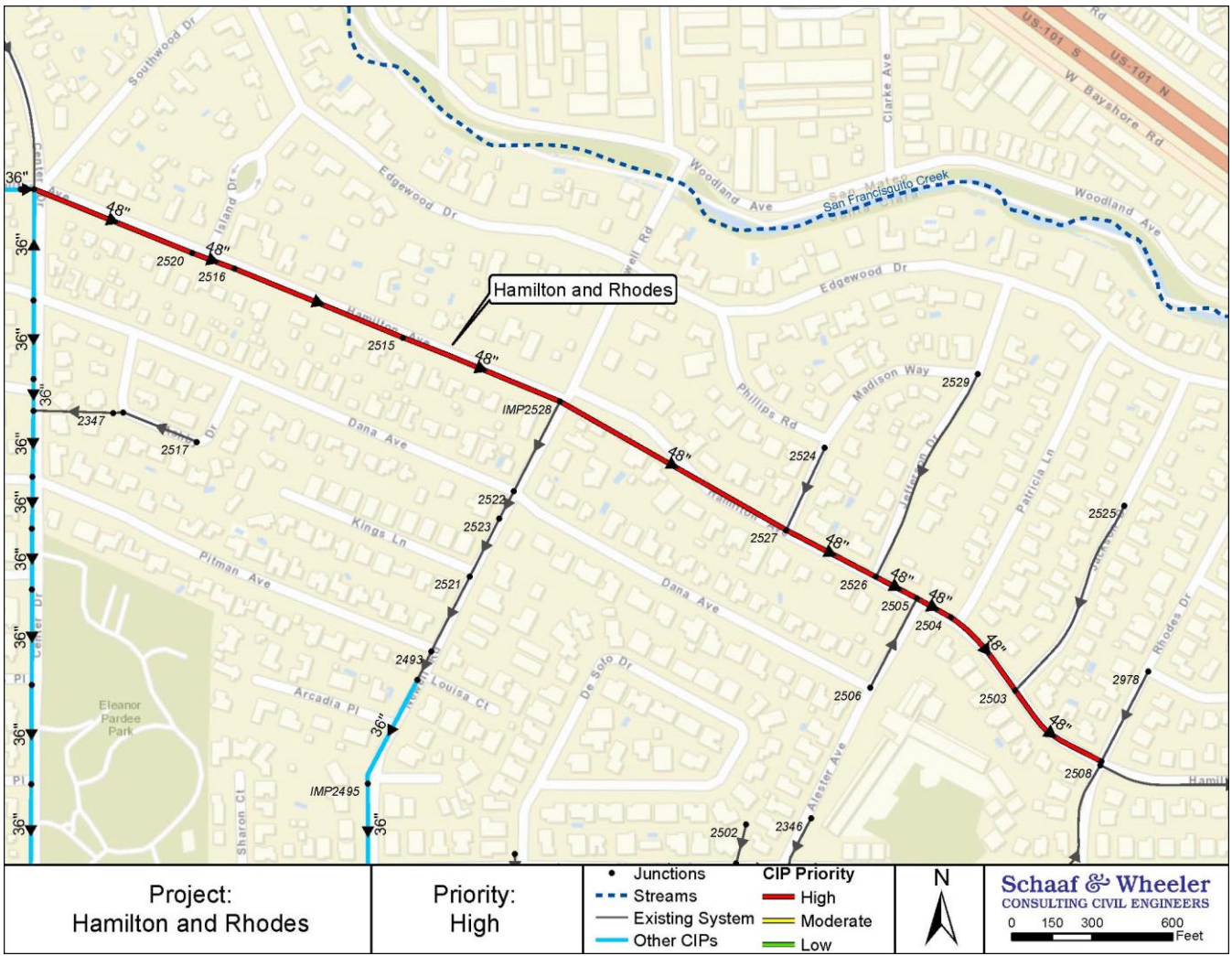
Streams	<b>CIP Priority</b>	Junctions
Existing System	High	Outfalls
Other CIPs	Moderate	
	Low	



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS

0 75 150 300 Feet

<b>A. Project ID: 9</b>	<b>B. Project Name: Hamilton &amp; Rhodes</b>																		
<b>C. Project Location: Hamilton Ave. from Center Dr. to Rhodes Dr.</b>																			
<b>D. Priority: High</b>																			
<b>E. Type: Capacity</b>																			
<b>F. Project Description:</b> The existing pipes on Hamilton Ave. and Rhodes Dr. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.																			
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>36</td> <td>12</td> </tr> <tr> <td>15</td> <td>48</td> <td>554</td> </tr> <tr> <td>18</td> <td>48</td> <td>1,471</td> </tr> <tr> <td>21</td> <td>48</td> <td>841</td> </tr> <tr> <td>--</td> <td>48</td> <td>772</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	36	12	15	48	554	18	48	1,471	21	48	841	--	48	772
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)																	
12	36	12																	
15	48	554																	
18	48	1,471																	
21	48	841																	
--	48	772																	
<b>G. Construction Subtotal .....</b>	<b>\$2,210,000</b>																		
<b>H. Total Construction Cost .....</b>	<b>\$2,870,000</b>																		
<b>I. Estimated CIP .....</b>	<b>\$3,440,000</b>																		





**A. Project ID: 10**

**B. Project Name: Lincoln & Channing**

**C. Project Location: Lincoln Ave. from Alma St. to Channing Ave.**

**D. Priority: High**

**E. Type: Capacity**

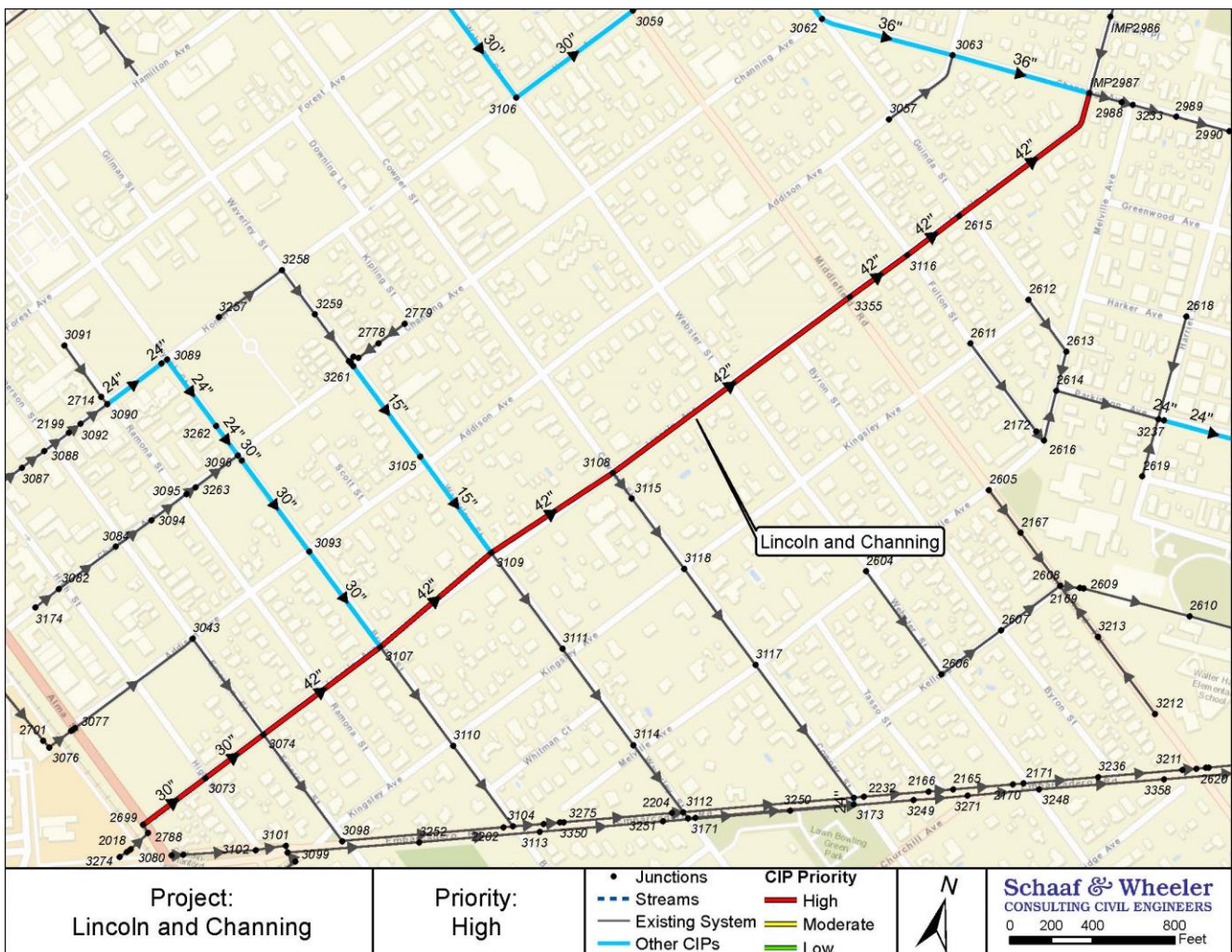
**F. Project Description:** Flooding that occurs along Embarcadero Road will be mitigated by diverting flows coming from the north by upsizing existing pipe and installing new pipe in Lincoln Ave from Alma St. to the newly upsized pipe in Channing Ave.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	30	299
12	42	1,232
24	30	279
--	42	2,818

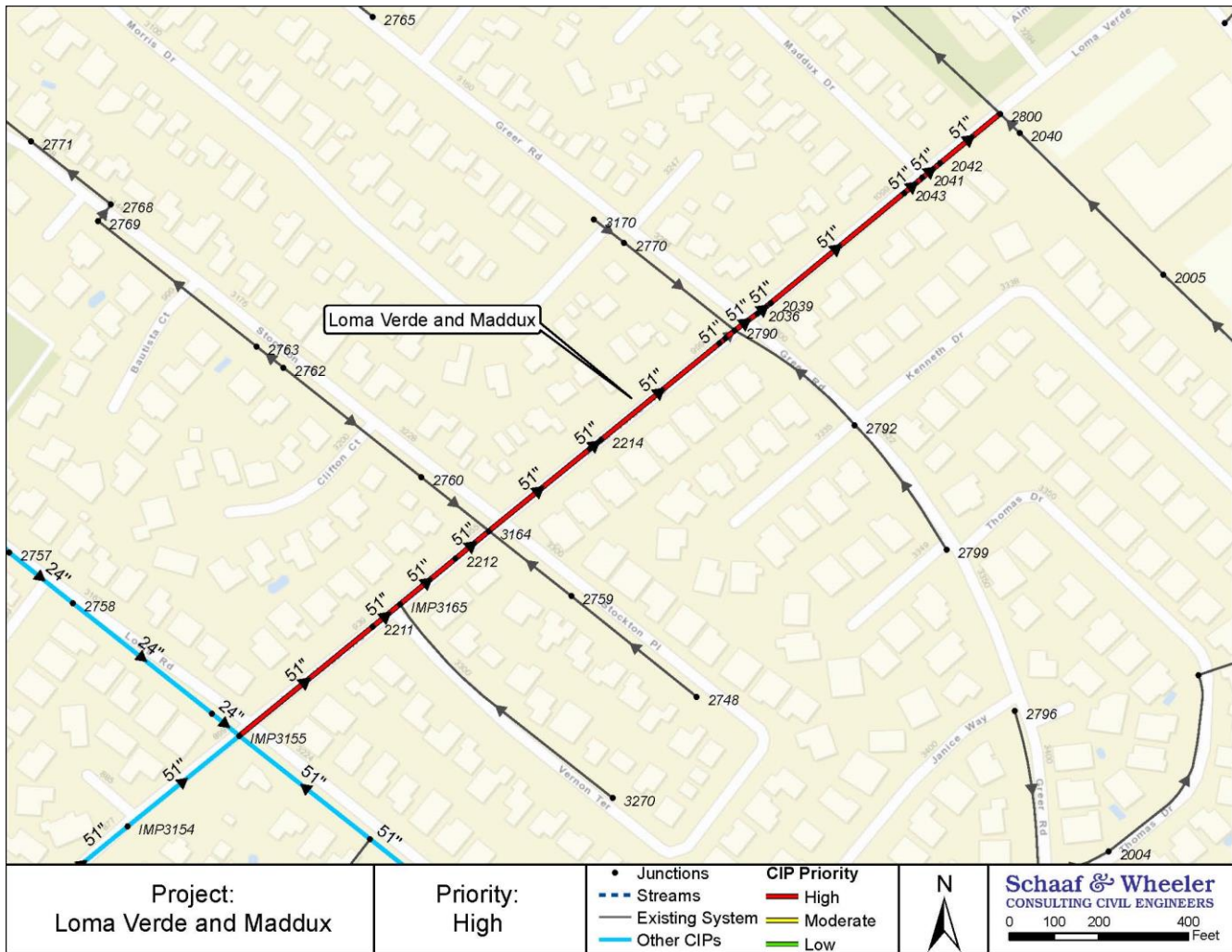
**G. Construction Subtotal ..... \$2,430,000**

**H. Total Construction Cost ..... \$3,160,000**

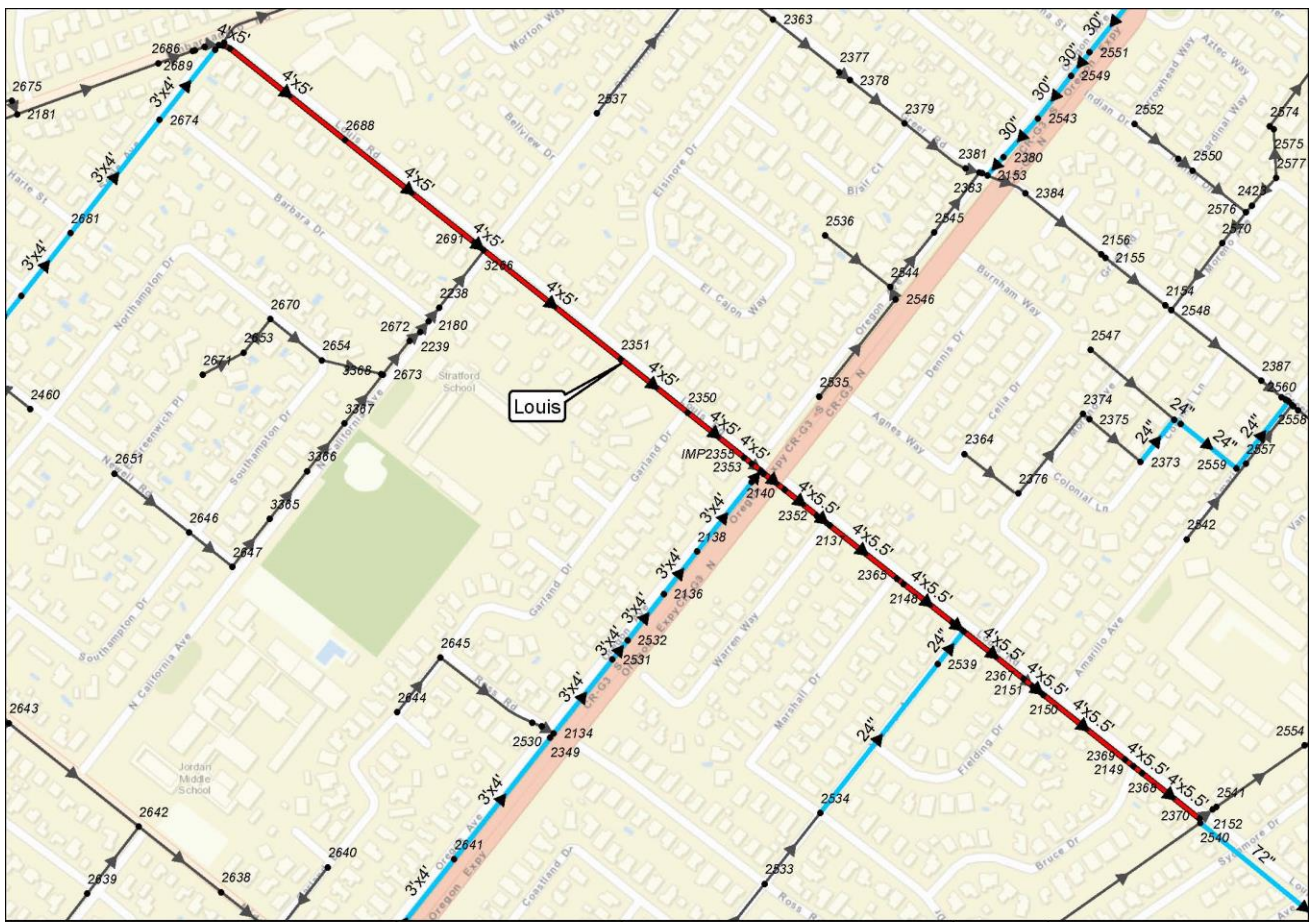
**I. Estimated CIP ..... \$3,790,000**



<b>A. Project ID:</b> 11	<b>B. Project Name:</b> Loma Verde & Maddux						
<b>C. Project Location:</b> Loma Verde Ave. between Louis Rd. and former Sterling Canal Easement just past Maddux Drive							
<b>D. Priority:</b> High							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes on Loma Verde Ave. between Louis Rd. and the former Sterling Canal easement just past Maddux Dr. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">36</td> <td style="text-align: center;">51</td> <td style="text-align: center;">1,747</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	36	51	1,747
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
36	51	1,747					
<b>G. Construction Subtotal</b> .....\$1,410,000							
<b>H. Total Construction Cost</b> .....\$1,830,000							
<b>I. Estimated CIP</b> .....\$2,200,000							



<b>A. Project ID:</b> 12	<b>B. Project Name:</b> Louis																					
<b>C. Project Location:</b> Louis Rd. between Embarcadero Rd. and former Seale-Wooster Canal Easement just before Sycamore Drive																						
<b>D. Priority:</b> High																						
<b>E. Type:</b> Capacity																						
<b>F. Project Description:</b> The existing pipes on Louis Rd. between Embarcadero Rd. and the former Seale-Wooster Canal easement just before Sycamore Dr. lack the capacity required to convey 10-year storm runoff. This improvement will route the additional flow from upstream improvements to the Matadero Pump Station. Upsizing these pipes to achieve a 10 year level of service is recommended.																						
<table border="1"> <thead> <tr> <th>Ex. Size</th> <th>Imp. Size</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>3'x4'</td> <td>4'x5'</td> <td>1,087</td> </tr> <tr> <td>3'x4.5'</td> <td>4'x5'</td> <td>1,145</td> </tr> <tr> <td>3'x4.5'</td> <td>4'x5.5'</td> <td>39</td> </tr> <tr> <td>3'x5'</td> <td>4'x5'</td> <td>53</td> </tr> <tr> <td>3'x5'</td> <td>4'x5.5'</td> <td>813</td> </tr> <tr> <td>3'x5.5'</td> <td>4'x5.5'</td> <td>1,010</td> </tr> </tbody> </table>		Ex. Size	Imp. Size	Length (ft)	3'x4'	4'x5'	1,087	3'x4.5'	4'x5'	1,145	3'x4.5'	4'x5.5'	39	3'x5'	4'x5'	53	3'x5'	4'x5.5'	813	3'x5.5'	4'x5.5'	1,010
Ex. Size	Imp. Size	Length (ft)																				
3'x4'	4'x5'	1,087																				
3'x4.5'	4'x5'	1,145																				
3'x4.5'	4'x5.5'	39																				
3'x5'	4'x5'	53																				
3'x5'	4'x5.5'	813																				
3'x5.5'	4'x5.5'	1,010																				
<b>G. Construction Subtotal</b> ..... \$4,430,000																						
<b>H. Total Construction Cost</b> ..... \$5,760,000																						
<b>I. Estimated CIP</b> ..... \$6,910,000																						



Project:  
Louis

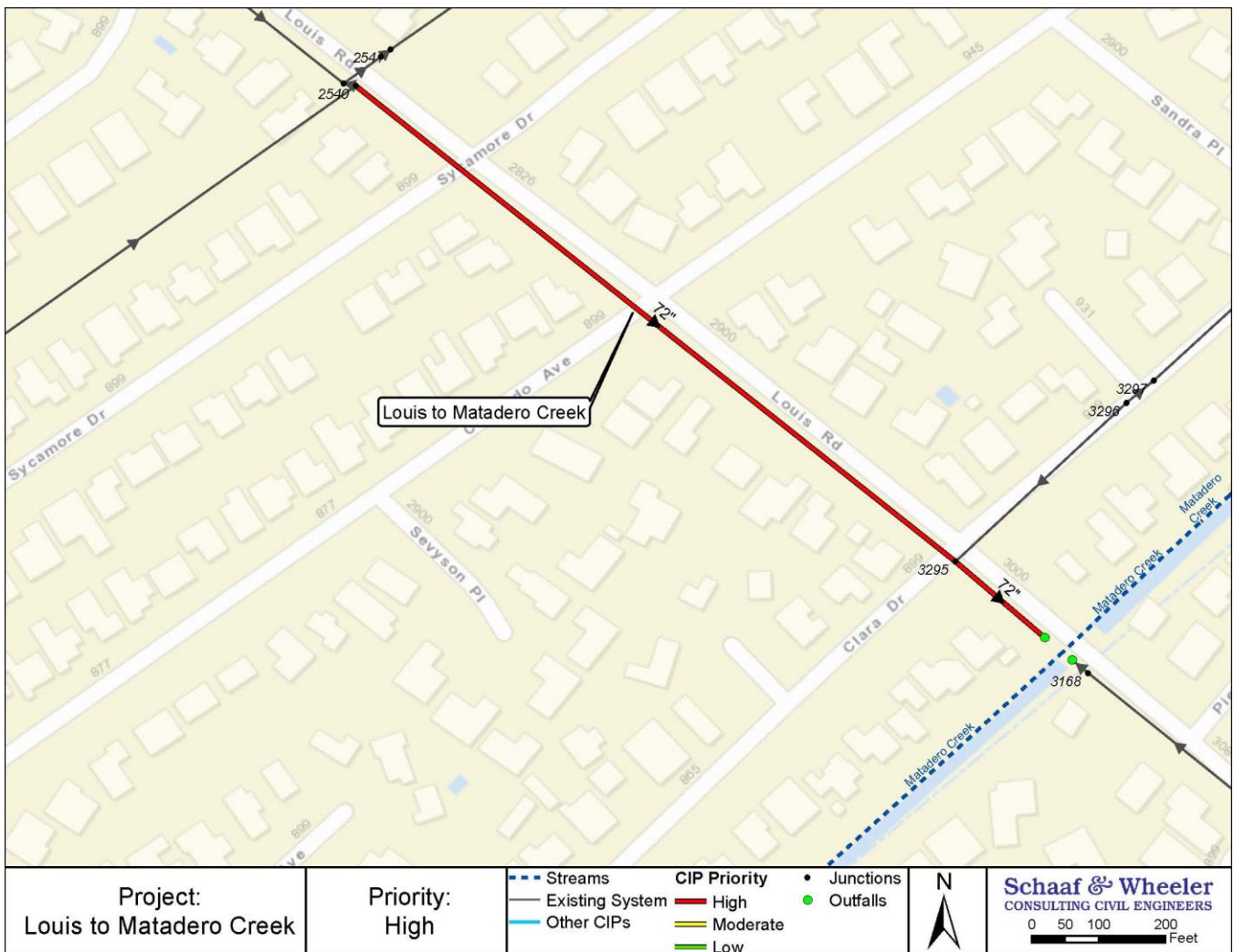
Priority:  
High

- Junctions
  - Streams
  - Existing System
  - Other CIPs
- CIP Priority**
- High
  - Moderate
  - Low



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 200 400 800 Feet

<b>A. Project ID:</b> 13	<b>B. Project Name:</b> Louis to Matadero Creek						
<b>C. Project Location:</b> Louis Rd. from the former Seale-Wooster Canal easement near west of Sycamore Dr. to Matadero Creek							
<b>D. Priority:</b> High							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> A new overflow pipe on Louis Rd. from near Sycamore Dr. to a new outfall at Matadero Creek is recommended to alleviate flooding in the pipes northwest of Sycamore Drive and achieve a 10 year level of service. The new pipe will provide storage during the storm peak and allow flow to leave the system when the creek water surface elevation is low.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>--</td> <td>72</td> <td>1,053</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	--	72	1,053
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
--	72	1,053					
<b>G. Construction Subtotal</b> ..... \$1,000,000							
<b>H. Total Construction Cost</b> .....\$1,300,000							
<b>I. Estimated CIP</b> .....\$1,560,000							



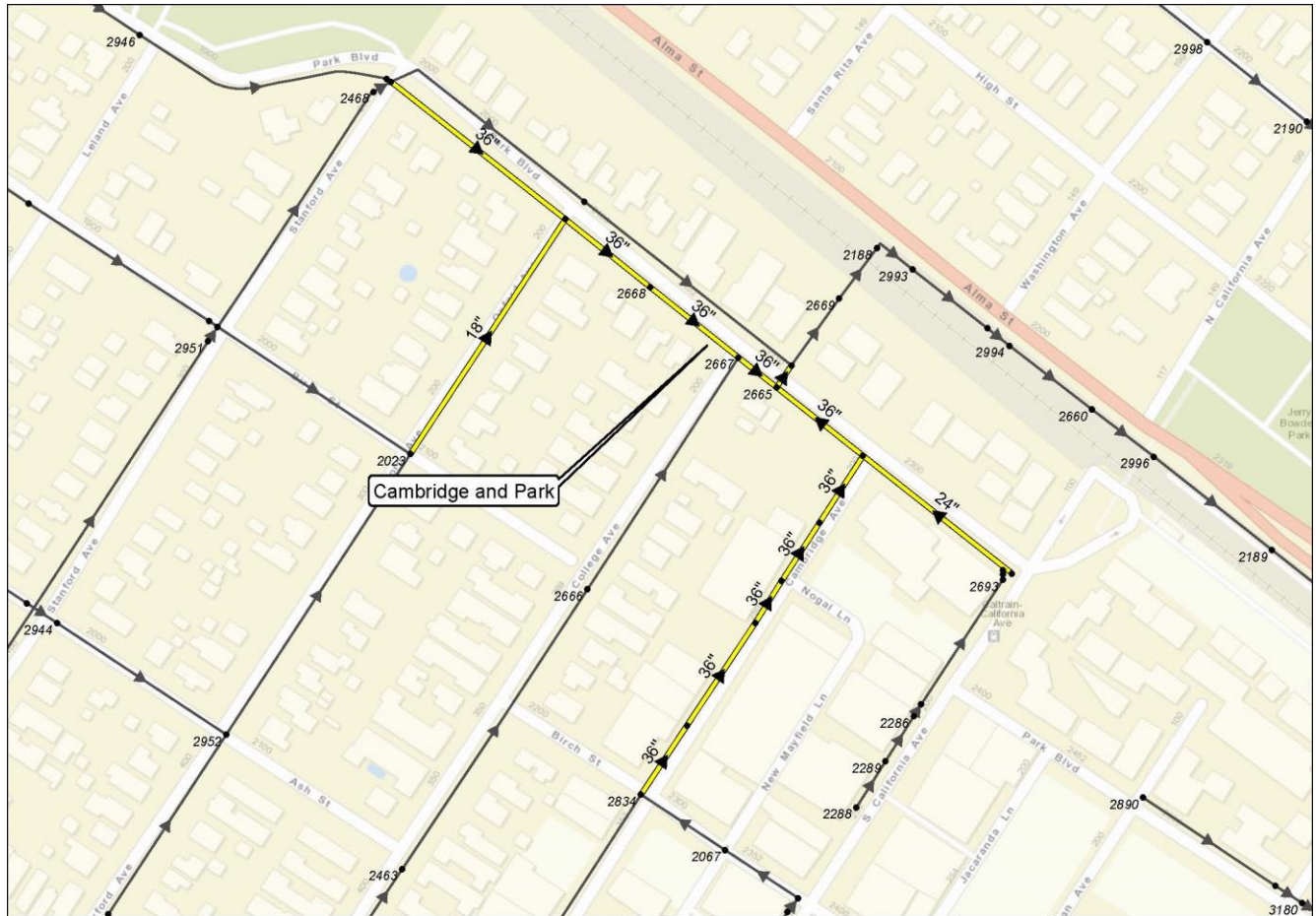
**A. Project ID: 14** **B. Project Name: Cambridge & Park**  
**C. Project Location: Park Blvd. between Stanford Ave. and California Ave., Cambridge Ave. and Oxford Ave. between Birch St. and Park Blvd.**

**D. Priority: Moderate**

**E. Type: Capacity**  
**F. Project Description:** The existing pipes on Cambridge Ave., Park Blvd., and Oxford Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

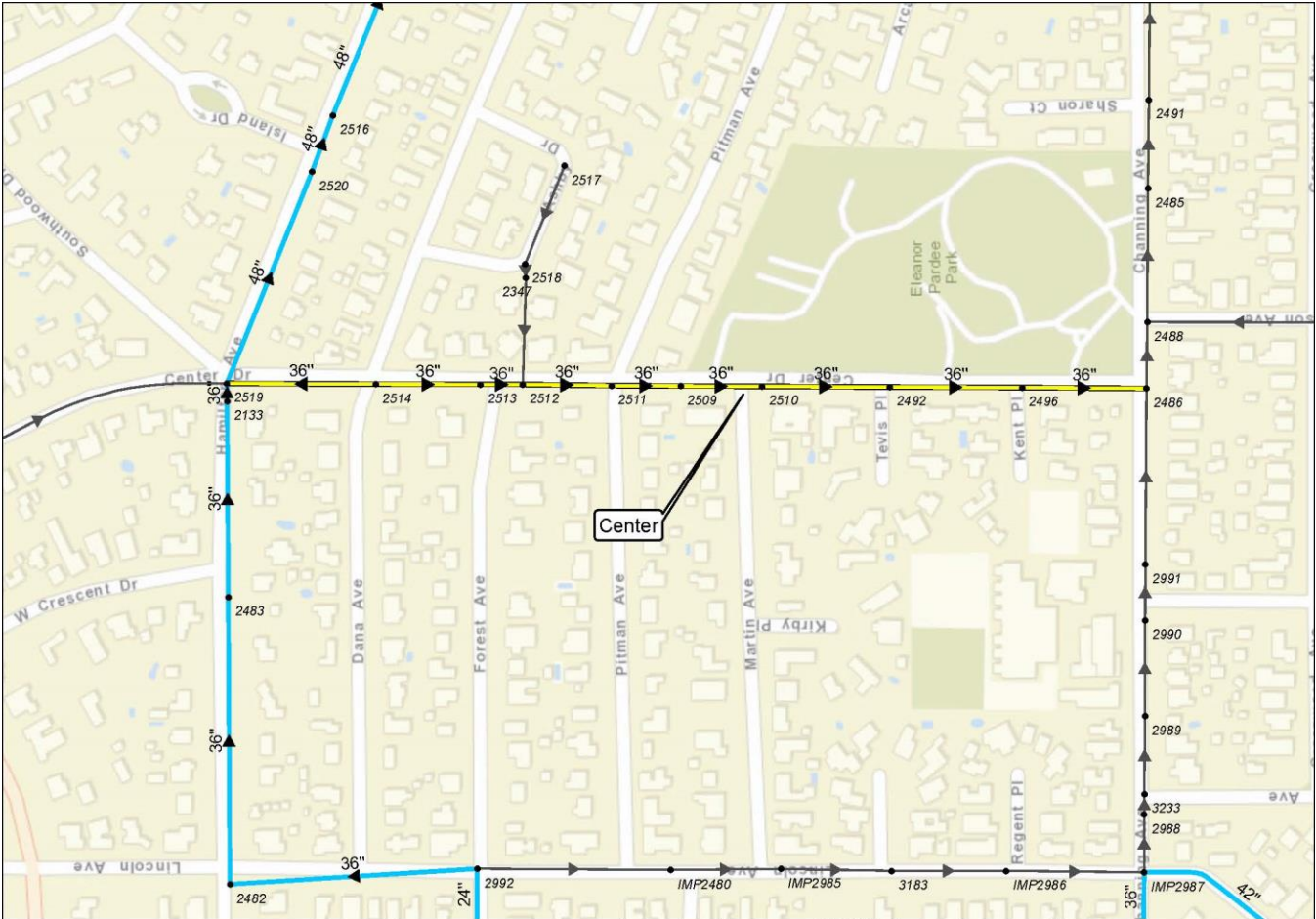
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	18	470
12	24	317
12	36	81
15	36	371
18	36	370
24	36	905

**G. Construction Subtotal ..... \$1,190,000**  
**H. Total Construction Cost ..... \$1,550,000**  
**I. Estimated CIP ..... \$1,860,000**



Project: Cambridge and Park	Priority: Moderate	• Junctions	CIP Priority	N ↑	Schaaf & Wheeler CONSULTING CIVIL ENGINEERS 0 100 200 400 Feet
		--- Streams	High		
		— Existing System	Moderate		
		— Other CIPs	Low		

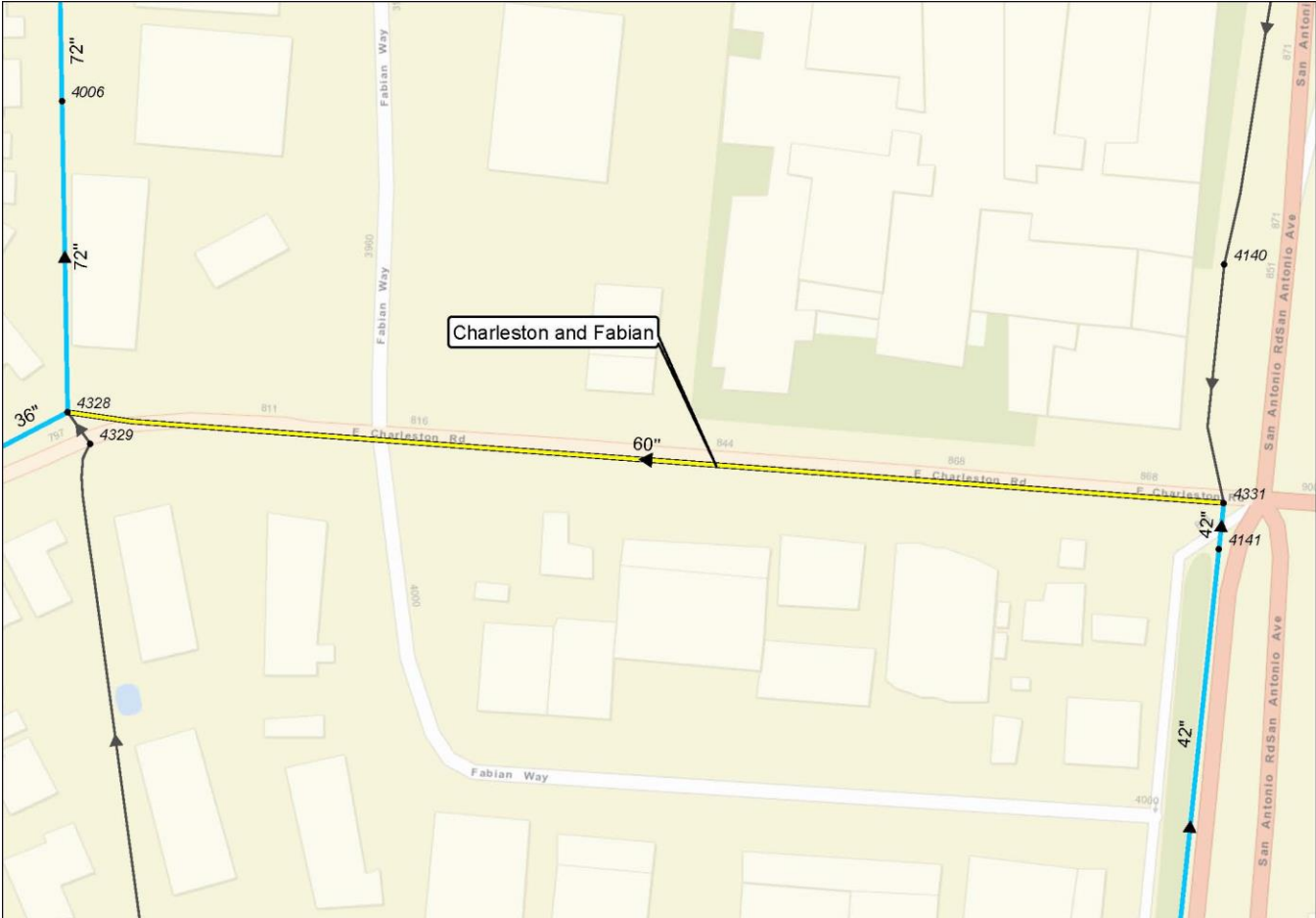
<b>A. Project ID:</b> 15	<b>B. Project Name:</b> Center												
<b>C. Project Location:</b> Center Dr. from Channing Ave to Hamilton Ave.													
<b>D. Priority:</b> Moderate													
<b>E. Type:</b> Capacity													
<b>F. Project Description:</b> The existing pipes on Center Dr. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes and adding a new pipe to connect to the Hamilton Ave. pipe network is recommended to achieve a 10 year level of service. Pipes will generally continue draining to Channing, with overflow to Hamilton during high flows.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>36</td> <td>233</td> </tr> <tr> <td>15</td> <td>36</td> <td>1,472</td> </tr> <tr> <td>--</td> <td>36</td> <td>328</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	36	233	15	36	1,472	--	36	328
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
12	36	233											
15	36	1,472											
--	36	328											
<b>G. Construction Subtotal</b> ..... \$1,040,000													
<b>H. Total Construction Cost</b> ..... \$1,350,000													
<b>I. Estimated CIP</b> ..... \$1,620,000													



Project: Center	Priority: Moderate	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<table border="0"> <tr> <td><b>CIP Priority</b></td> <td>High</td> </tr> <tr> <td></td> <td>Moderate</td> </tr> <tr> <td></td> <td>Low</td> </tr> </table>	<b>CIP Priority</b>	High		Moderate		Low
<b>CIP Priority</b>	High								
	Moderate								
	Low								

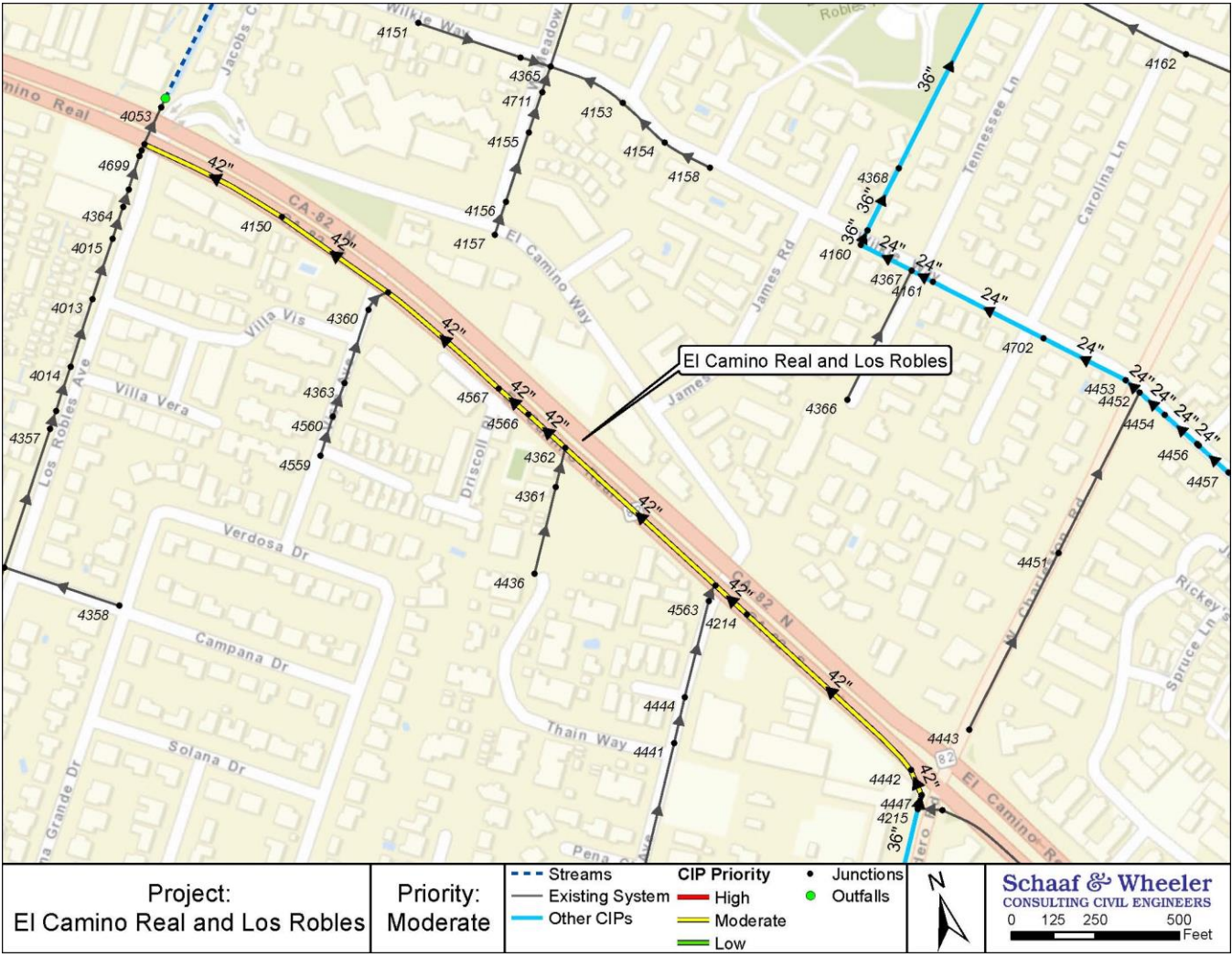
**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS

<b>A. Project ID:</b> 16	<b>B. Project Name:</b> Charleston & Fabian						
<b>C. Project Location:</b> E. Charleston Rd. between San Antonio Rd. and Fabian Way							
<b>D. Priority:</b> Moderate							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes on Charleston Rd. west of San Antonio Rd., near Fabian Way lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>60</td> <td>964</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	30	60	964
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
30	60	964					
<b>G. Construction Subtotal</b> ..... \$660,000							
<b>H. Total Construction Cost</b> ..... \$860,000							
<b>I. Estimated CIP</b> ..... \$1,030,000							



Project: Charleston and Fabian	Priority: Moderate	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<ul style="list-style-type: none"> <li>CIP Priority</li> <li>High</li> <li>Moderate</li> <li>Low</li> </ul>	<p>N</p>	<p><b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS</p>
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<b>A. Project ID:</b> 17	<b>B. Project Name:</b> El Camino Real & Los Robles						
<b>C. Project Location:</b> El Camino Real between Arastradero Rd. and Los Robles Ave.							
<b>D. Priority:</b> Moderate							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes on El Camino Real between Arastradero Rd. and the Barron Creek outfall near Los Robles Ave lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. This project will require coordination with Caltrans.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>42</td> <td>2,450</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	30	42	2,450
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
30	42	2,450					
<b>G. Construction Subtotal</b> ..... \$1,620,000							
<b>H. Total Construction Cost</b> .....\$2,110,000							
<b>I. Estimated CIP</b> .....\$2,530,000							



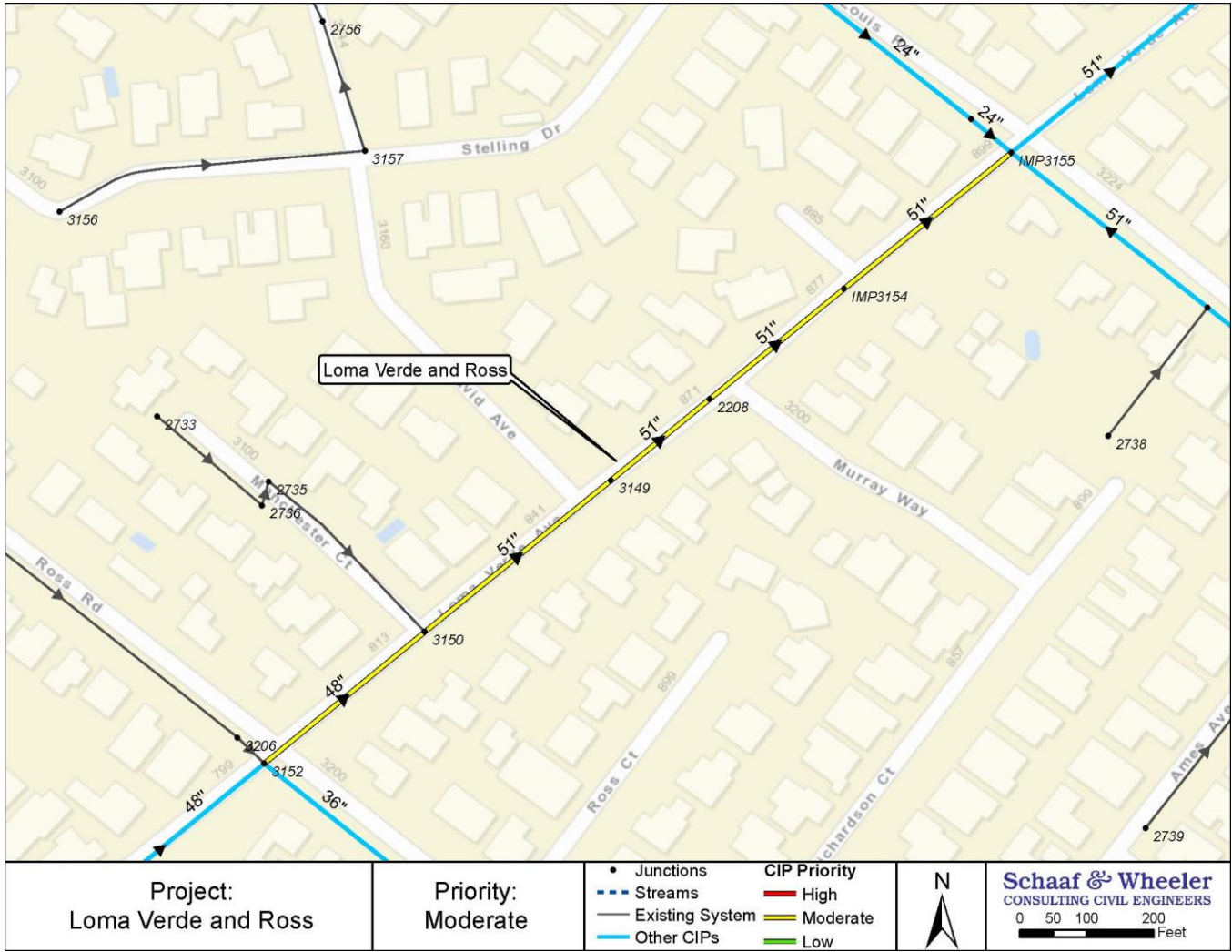


<b>A. Project ID: 18</b>	<b>B. Project Name: Embarcadero</b>									
<b>C. Project Location: Embarcadero near Fulton St. to Newell Rd.</b>										
<b>D. Priority: Moderate</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Embarcadero Rd. near Rinconada Park lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>36</td> <td>519</td> </tr> <tr> <td>12</td> <td>24</td> <td>302</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	24	36	519	12	24	302
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
24	36	519								
12	24	302								
<b>G. Construction Subtotal ..... \$1,290,000</b>										
<b>H. Total Construction Cost ..... \$1,680,000</b>										
<b>I. Estimated CIP ..... \$2,020,000</b>										



Project: Embarcadero	Priority: Moderate	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: yellow;">—</span> Moderate <span style="color: green;">—</span> Low		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 75 150 300 Feet
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<b>A. Project ID:</b> 19	<b>B. Project Name:</b> Loma Verde & Ross									
<b>C. Project Location:</b> Loma Verde Ave. between Ross Rd. and Louis Rd.										
<b>D. Priority:</b> Moderate										
<b>E. Type:</b> Capacity										
<b>F. Project Description:</b> The existing pipes on Loma Verde Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>48</td> <td>246</td> </tr> <tr> <td>30</td> <td>51</td> <td>899</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	30	48	246	30	51	899
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
30	48	246								
30	51	899								
<b>G. Construction Subtotal</b> .....\$860,000										
<b>H. Total Construction Cost</b> .....\$1,120,000										
<b>I. Estimated CIP</b> .....\$1,340,000										



Project:  
Loma Verde and Ross

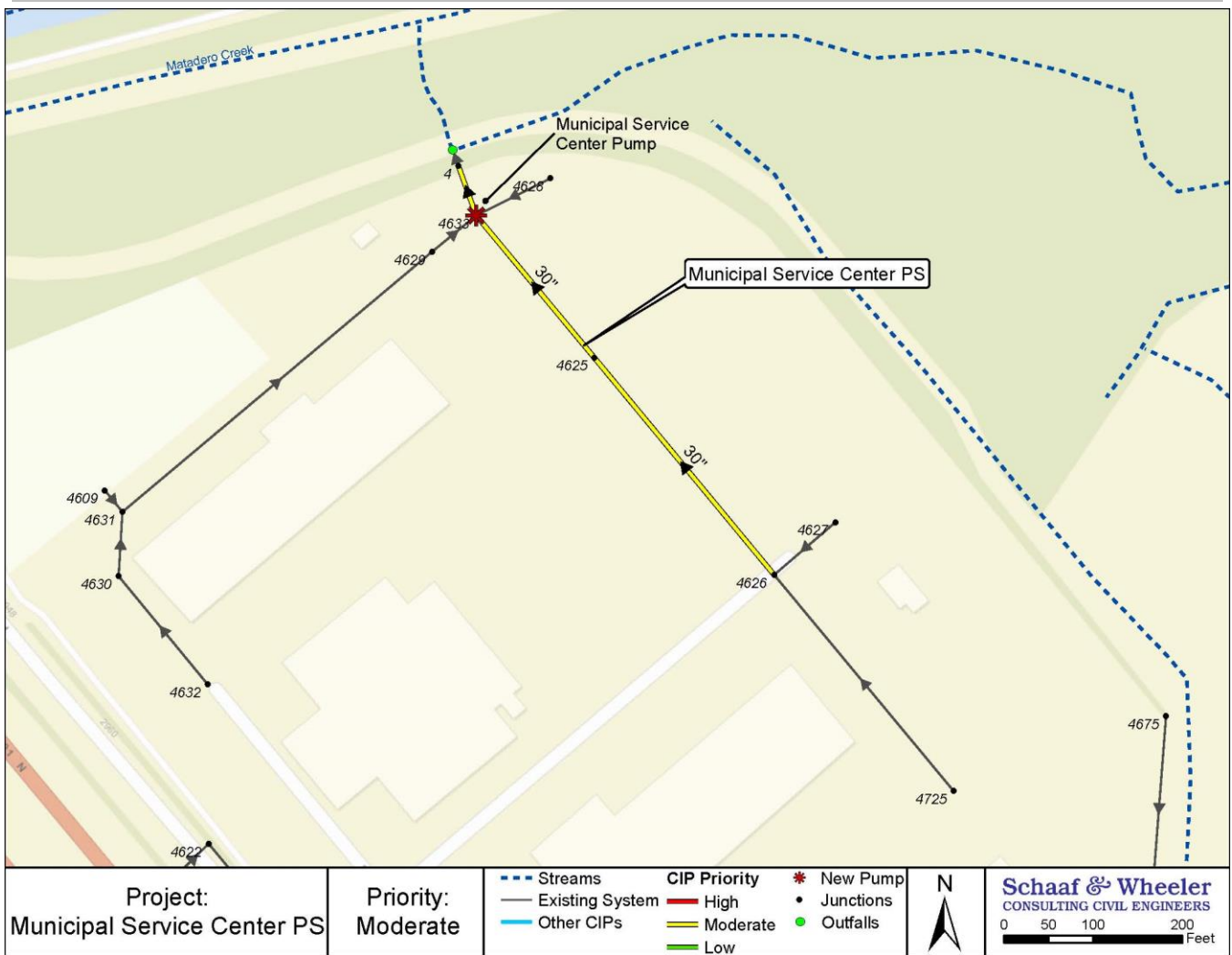
Priority:  
Moderate

- Junctions
  - Streams
  - Existing System
  - Other CIPs
- CIP Priority**
- High
  - Moderate
  - Low



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 50 100 200  
Feet

<b>A. Project ID:</b> 20	<b>B. Project Name:</b> Municipal Service Center	
<b>C. Project Location:</b> Municipal Service Center (MSC) on East Bayshore Rd.		
<b>D. Priority:</b> Moderate		
<b>E. Type:</b> Capacity		
<b>F. Project Description:</b> The existing system near the MSC lacks the capacity required to convey the 10-year storm runoff. Upsizing existing pipe and constructing a new pump station with an outfall to Matadero Creek is recommended at this location.		
<b>Ex. Capacity (cfs)</b>	<b>Imp. Capacity (cfs)</b>	
N/A	26	
<b>Ex. Diameter (in)</b>	<b>Imp. Diameter (in)</b>	<b>Length (ft)</b>
24	30	415
<b>G. Construction Subtotal</b> .....		<b>\$1,340,000</b>
<b>H. Total Construction Cost</b> .....		<b>\$1,740,000</b>
<b>I. Estimated CIP</b> .....		<b>\$2,090,000</b>



**A. Project ID:** 21

**B. Project Name:** Oregon Expwy Pump

**C. Project Location:** Alma Street underpass on Oregon Expressway

**D. Priority:** Moderate

**E. Type:** Capacity

**F. Project Description:** The existing pump station at the Alma Street underpass has experienced maintenance issues and nuisance flooding. Improvement to maintenance and/or capacity of this pump station to achieve a 10-year level of service is recommended.

Ex. Capacity (cfs)	Imp. Capacity (cfs)
Unknown	5

**G. Construction Subtotal** .....\$210,000

**H. Total Construction Cost** .....\$270,000

**I. Estimated CIP** .....\$320,000



Project:  
Oregon Expwy Pump Station

Priority:  
Moderate

- Streams
- Existing System
- Other CIPs
- CIP Priority
  - High
  - Moderate
  - Low
- Junctions
- ★ CIP Pump



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 75 150 300 Feet

**A. Project ID: 22**

**B. Project Name: Page Mill & Alma**

**C. Project Location: Page Mill Rd. between El Camino Real and Alma St.**

**D. Priority: Moderate**

**E. Type: Capacity**

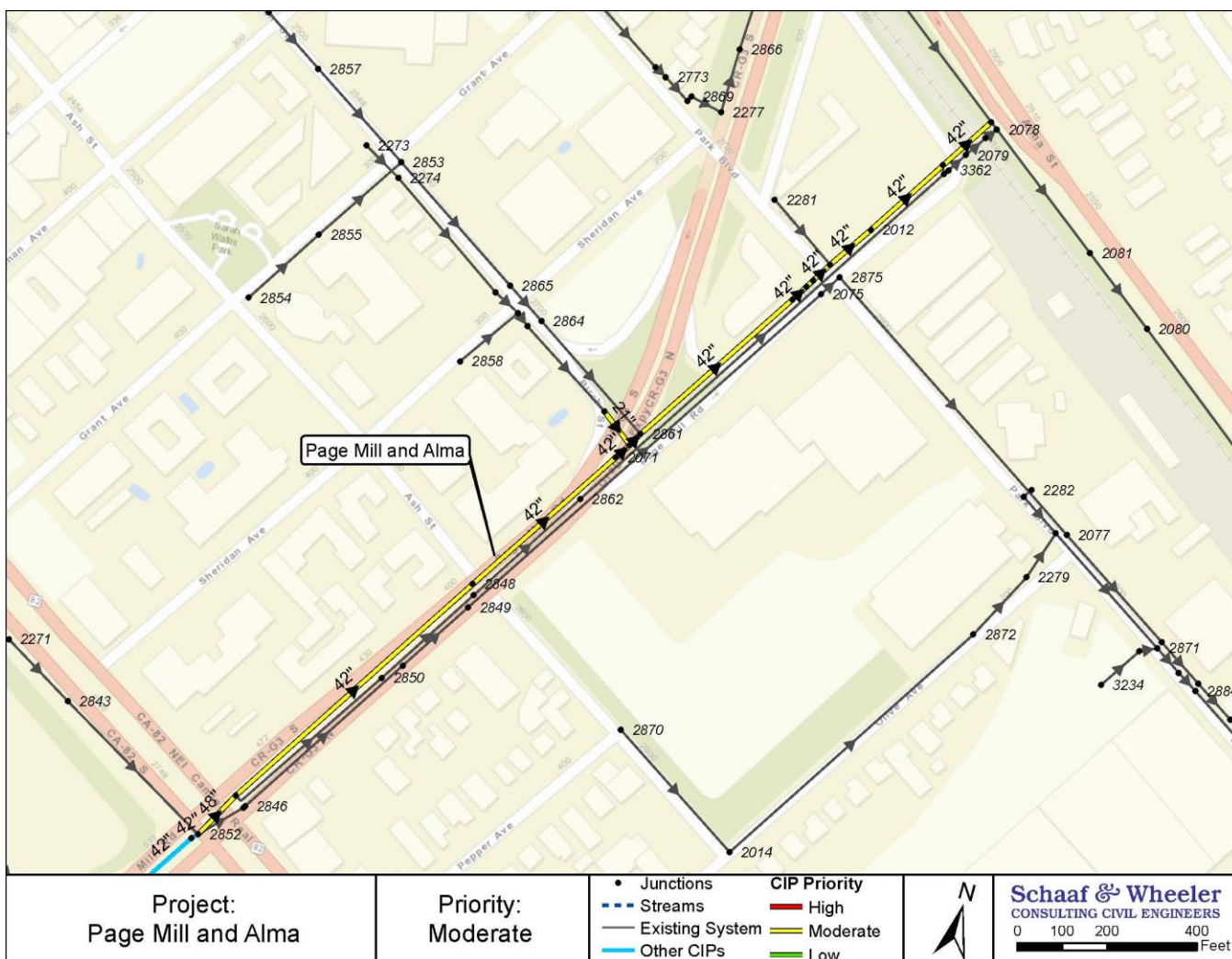
**F. Project Description:** The existing pipes on Page Mill Rd. between El Camino and Alma St. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	21	74
24	42	380
30	42	1,407
36	48	96

**G. Construction Subtotal ..... \$1,150,000**

**H. Total Construction Cost ..... \$1,500,000**

**I. Estimated CIP ..... \$1,800,000**



**A. Project ID: 23** **B. Project Name: Page Mill & El Camino**

**C. Project Location: Page Mill Rd. between Hanover St. and El Camino Real**

**D. Priority: Moderate**

**E. Type: Capacity**

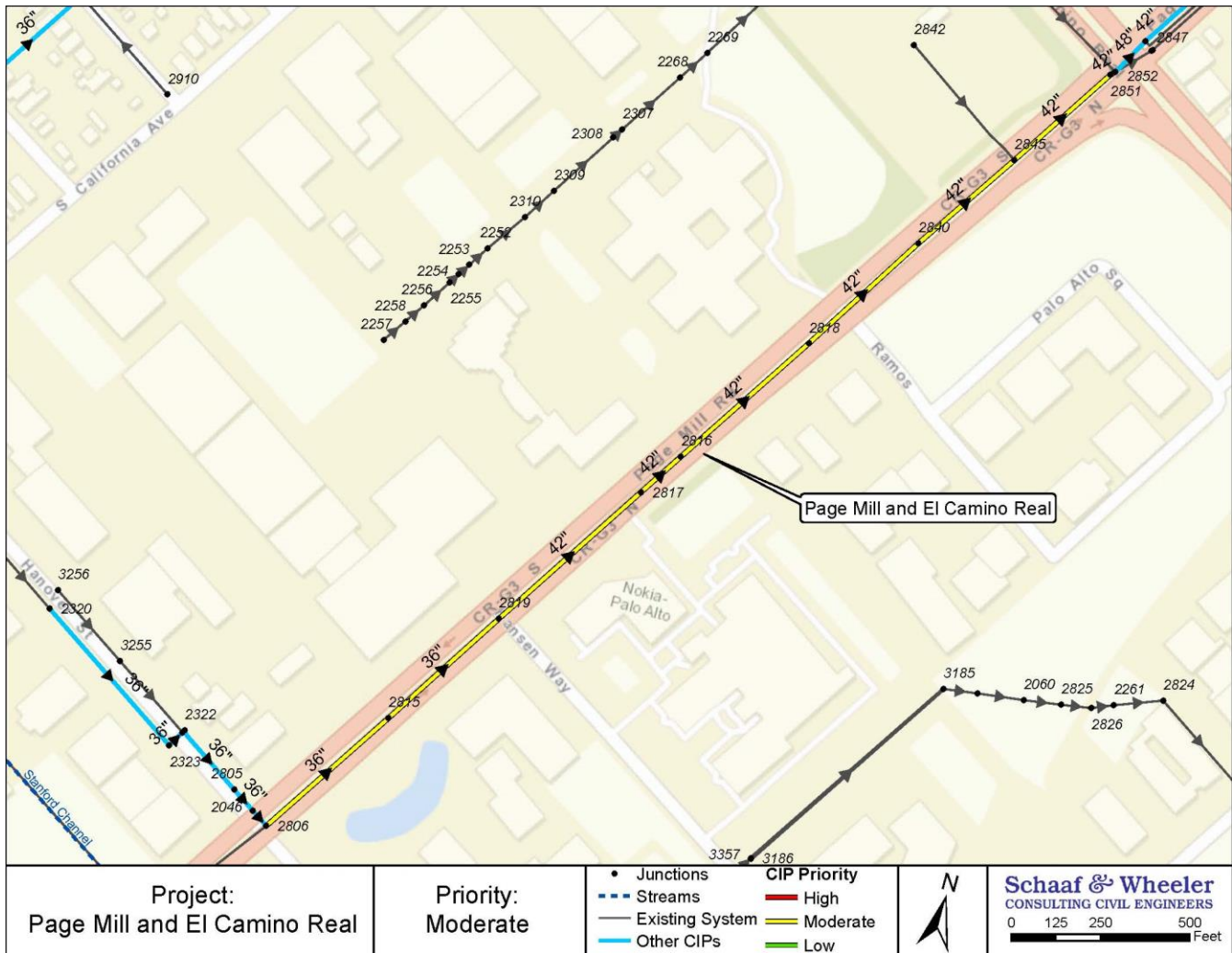
**F. Project Description:** The existing pipes on Page Mill Rd. southwest of El Camino Real lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
24	36	692
27	42	919
33	42	611
36	42	285

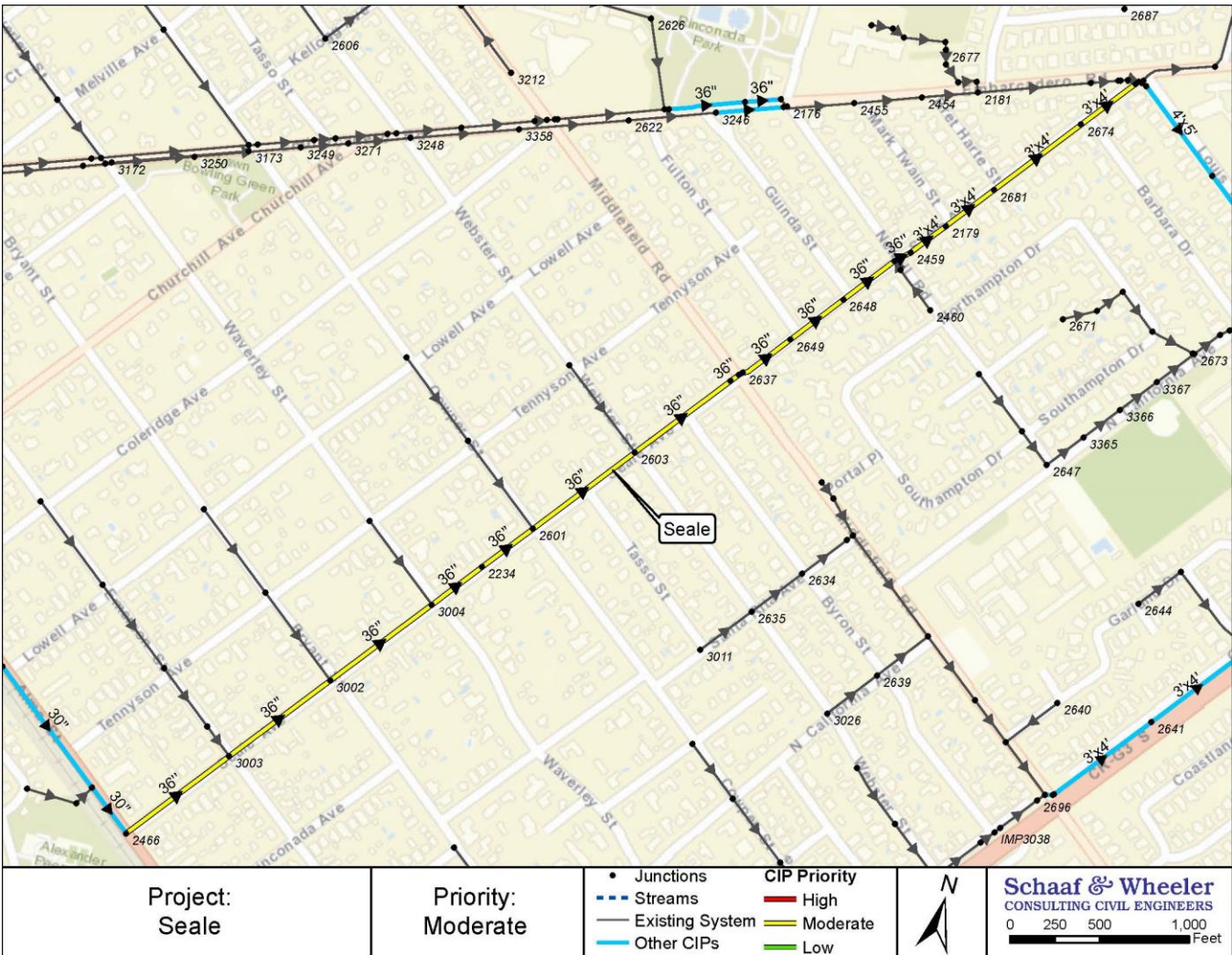
**G. Construction Subtotal ..... \$1,620,000**

**H. Total Construction Cost ..... \$2,110,000**

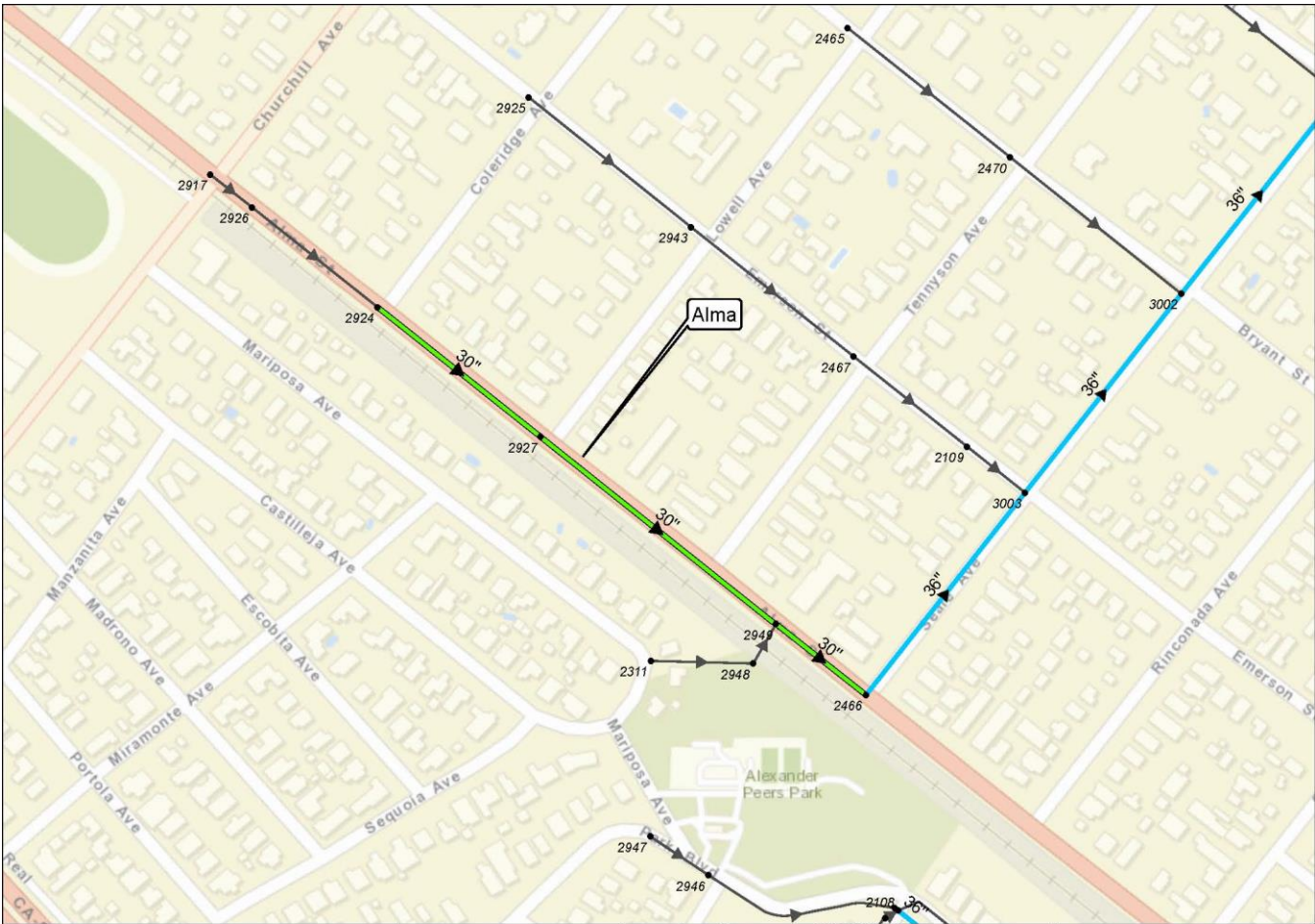
**I. Estimated CIP ..... \$2,530,000**



<b>A. Project ID: 24</b>	<b>B. Project Name: Seale</b>																					
<b>C. Project Location: Seale Ave. between Alma St. and Louis Rd.</b>																						
<b>D. Priority: Moderate</b>																						
<b>E. Type: Capacity</b>																						
<b>F. Project Description:</b> The existing pipes on Seale Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.																						
<table border="1"> <thead> <tr> <th>Ex. Size</th> <th>Imp. Size</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>36</td> <td>1,128</td> </tr> <tr> <td>24</td> <td>36</td> <td>1,121</td> </tr> <tr> <td>27</td> <td>36</td> <td>1,111</td> </tr> <tr> <td>30</td> <td>36</td> <td>916</td> </tr> <tr> <td>2'x3'</td> <td>3'x4'</td> <td>1,262</td> </tr> <tr> <td>2.25'x2.25'</td> <td>36</td> <td>47</td> </tr> </tbody> </table>		Ex. Size	Imp. Size	Length (ft)	21	36	1,128	24	36	1,121	27	36	1,111	30	36	916	2'x3'	3'x4'	1,262	2.25'x2.25'	36	47
Ex. Size	Imp. Size	Length (ft)																				
21	36	1,128																				
24	36	1,121																				
27	36	1,111																				
30	36	916																				
2'x3'	3'x4'	1,262																				
2.25'x2.25'	36	47																				
<b>G. Construction Subtotal ..... \$3,190,000</b>																						
<b>H. Total Construction Cost ..... \$4,150,000</b>																						
<b>I. Estimated CIP ..... \$4,980,000</b>																						



<b>A. Project ID: 25</b>	<b>B. Project Name: Alma</b>									
<b>C. Project Location: Alma St. between Coleridge Ave. and Seale Ave.</b>										
<b>D. Priority: Low</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Alma St. between Coleridge Ave. and Seale Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>30</td> <td>1,127</td> </tr> <tr> <td>21</td> <td>30</td> <td>253</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	30	1,127	21	30	253
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
15	30	1,127								
21	30	253								
<b>G. Construction Subtotal ..... \$590,000</b>										
<b>H. Total Construction Cost ..... \$770,000</b>										
<b>I. Estimated CIP ..... \$920,000</b>										



Project: Alma	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<ul style="list-style-type: none"> <li>CIP Priority</li> <li>High</li> <li>Moderate</li> <li>Low</li> </ul>		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 125 250 500 Feet
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A. Project ID: 26

B. Project Name: Alma & Greenmeadow

C. Project Location: Alma Street east of Greenmeadow Way

D. Priority: Low

E. Type: Capacity

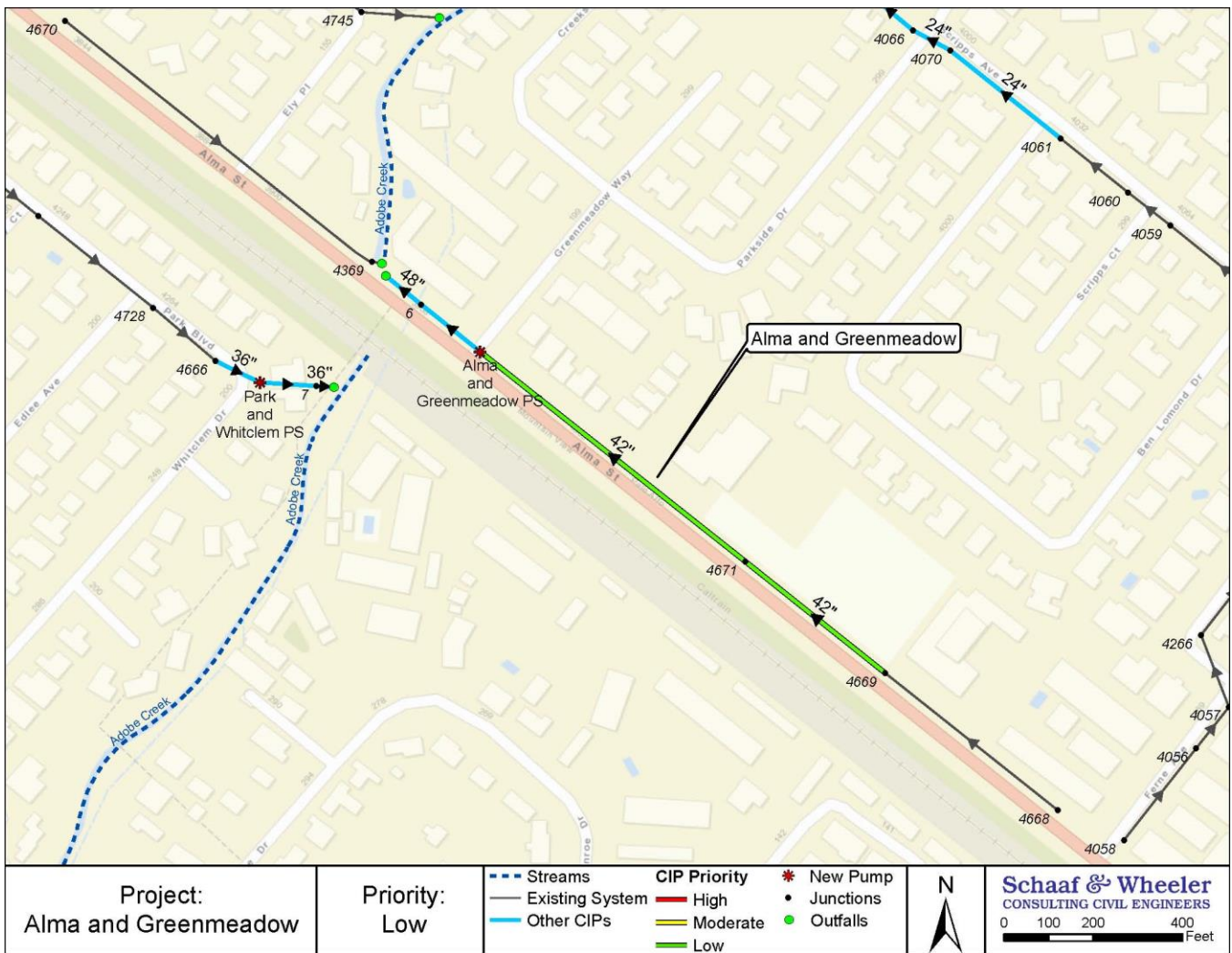
F. Project Description: The existing pipes on Alma St. east of Greenmeadow Way lack the capacity to convey the 10-year storm runoff. Upsizing these pipes to provide a 10-year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	42	318
18	42	603

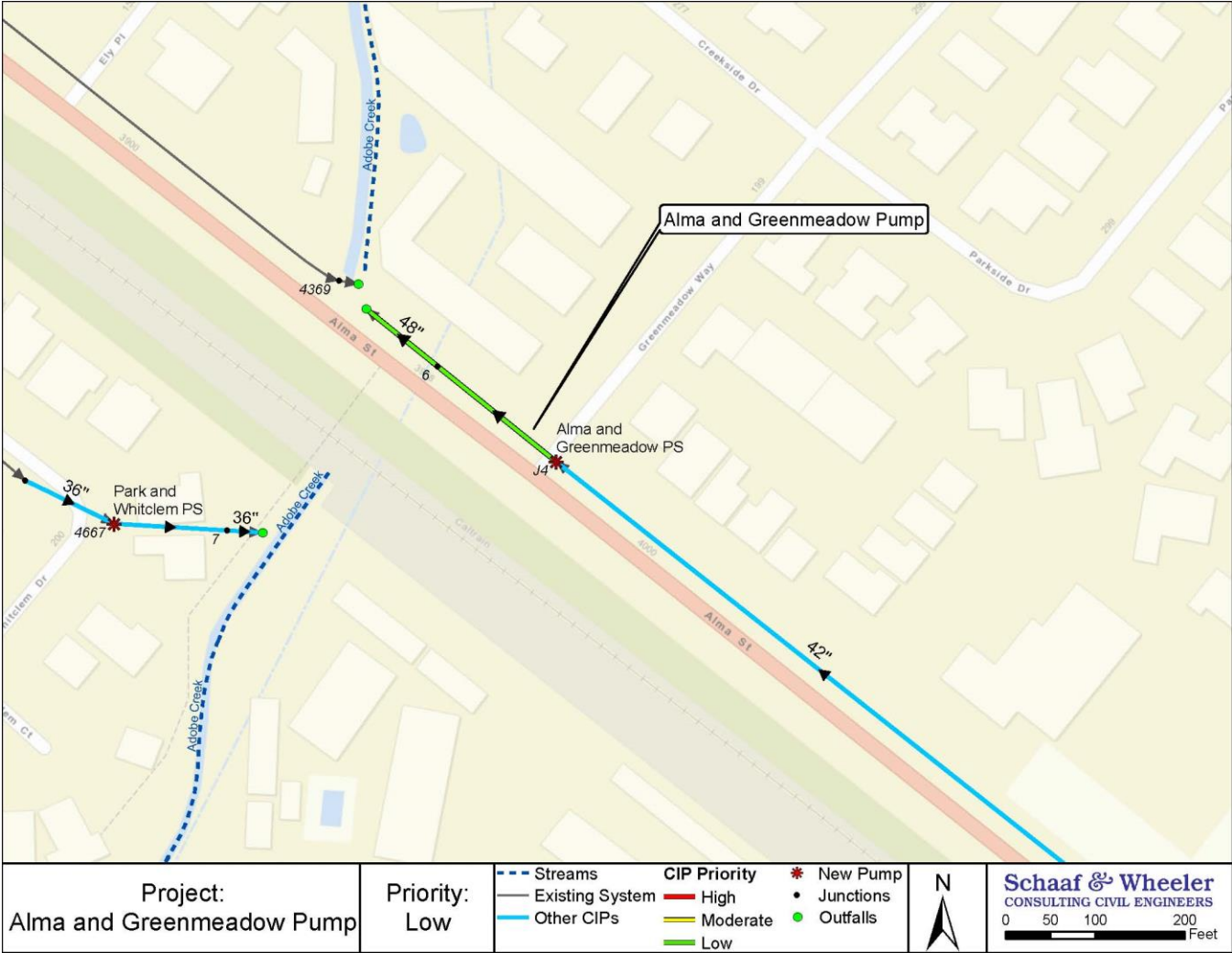
G. Construction Subtotal ..... \$540,000

H. Total Construction Cost ..... \$700,000

I. Estimated CIP ..... \$840,000



<b>A. Project ID:</b> 27	<b>B. Project Name:</b> Alma & Greenmeadow PS				
<b>C. Project Location:</b> Alma Street west of Greenmeadow Way					
<b>D. Priority:</b> Low					
<b>E. Type:</b> Capacity					
<b>F. Project Description:</b> A new pump station near Alma St. and Greenmeadow Way is recommended to provide a 10 year level of service when the water level in Adobe Creek is high.					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Capacity (cfs)</th> <th>Imp. Capacity (cfs)</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>38</td> </tr> </tbody> </table>		Ex. Capacity (cfs)	Imp. Capacity (cfs)	N/A	38
Ex. Capacity (cfs)	Imp. Capacity (cfs)				
N/A	38				
<b>G. Construction Subtotal</b> .....\$1,640,000					
<b>H. Total Construction Cost</b> .....\$2,130,000					
<b>I. Estimated CIP</b> .....\$2,560,000					



**Project:**  
Alma and Greenmeadow Pump

**Priority:**  
Low


Streams	CIP Priority High	New Pump
Existing System	Moderate	Junctions
Other CIPs	Low	Outfalls

**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS

0 50 100 200 Feet

<b>A. Project ID: 28</b>	<b>B. Project Name: Arastradero</b>															
<b>C. Project Location: Arastradero Road between Hubbart Drive and El Camino Real</b>																
<b>D. Priority: Low</b>																
<b>E. Type: Capacity</b>																
<b>F. Project Description:</b> The existing pipes on Arastradero southwest of El Camino Real lack the capacity required to convey 10-year storm runoff. Upsizing pipes at this location to achieve a 10-year level of service is recommended.																
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>24</td> <td>1,042</td> </tr> <tr> <td>24</td> <td>30</td> <td>1,108</td> </tr> <tr> <td>24</td> <td>36</td> <td>108</td> </tr> <tr> <td>30</td> <td>36</td> <td>1,104</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	18	24	1,042	24	30	1,108	24	36	108	30	36	1,104
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)														
18	24	1,042														
24	30	1,108														
24	36	108														
30	36	1,104														
<b>G. Construction Subtotal ..... \$1,530,000</b>																
<b>H. Total Construction Cost ..... \$1,990,000</b>																
<b>I. Estimated CIP ..... \$2,390,000</b>																



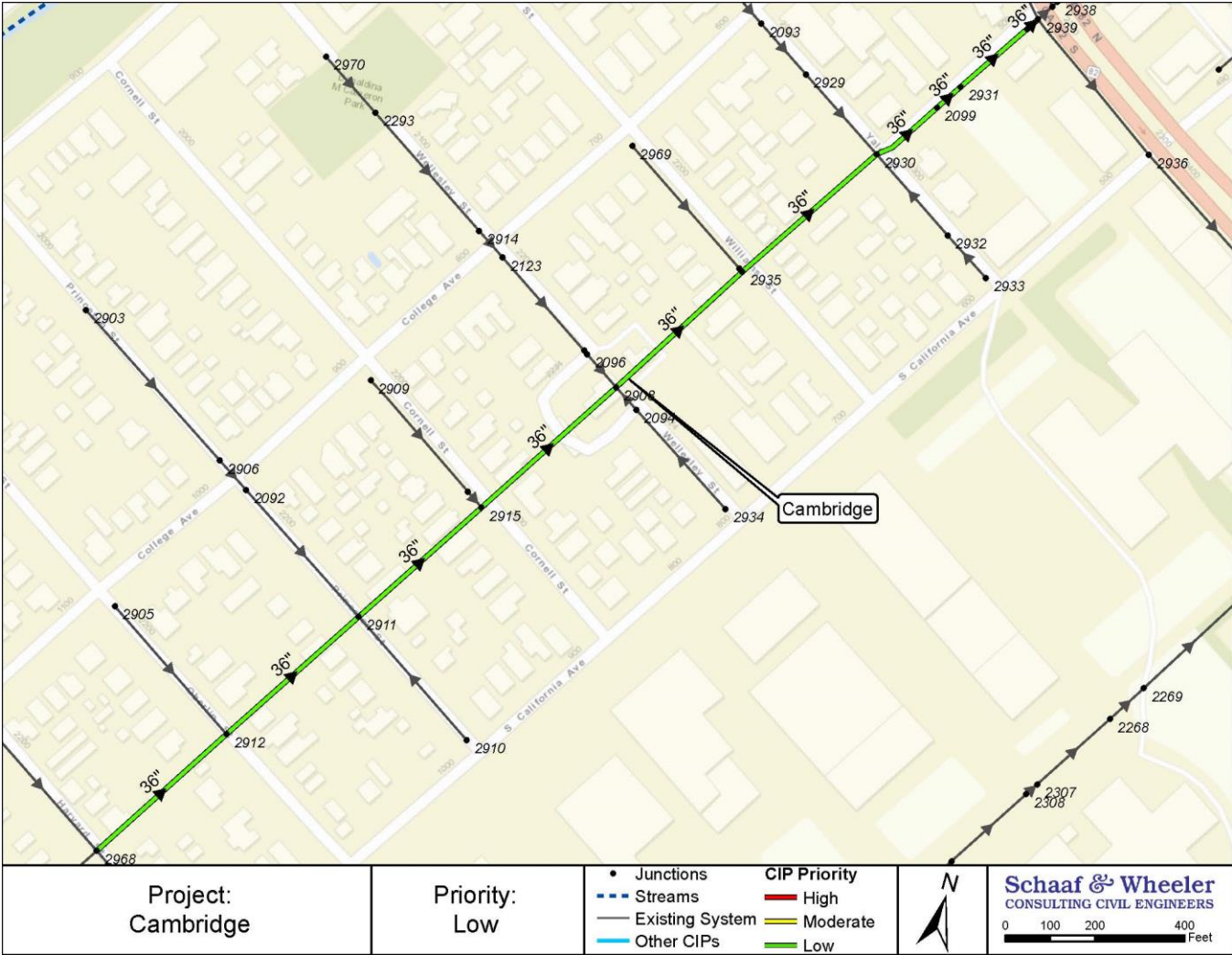
<b>Project:</b> Moreno	<b>Priority:</b> Low	<ul style="list-style-type: none"> <li><span style="color: blue;">---</span> Streams</li> <li><span style="color: grey;">---</span> Existing System</li> <li><span style="color: blue;">---</span> Other CIPs</li> </ul>	<b>CIP Priority</b> <ul style="list-style-type: none"> <li><span style="color: red;">---</span> High</li> <li><span style="color: yellow;">---</span> Moderate</li> <li><span style="color: green;">---</span> Low</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: black;">●</span> Junctions</li> <li><span style="color: green;">●</span> Outfalls</li> </ul>		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 125 250 500 Feet
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<b>A. Project ID: 29</b>	<b>B. Project Name: Bryant</b>												
<b>C. Project Location: Homer Ave from Ramona St to Bryant, along Bryant St to Lincoln Ave</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes on Bryant Street west of Lincoln Ave lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>24</td> <td>286</td> </tr> <tr> <td>15</td> <td>24</td> <td>460</td> </tr> <tr> <td>15</td> <td>30</td> <td>919</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	24	286	15	24	460	15	30	919
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
12	24	286											
15	24	460											
15	30	919											
<b>G. Construction Subtotal ..... \$720,000</b>													
<b>H. Total Construction Cost ..... \$940,000</b>													
<b>I. Estimated CIP ..... \$1,130,000</b>													

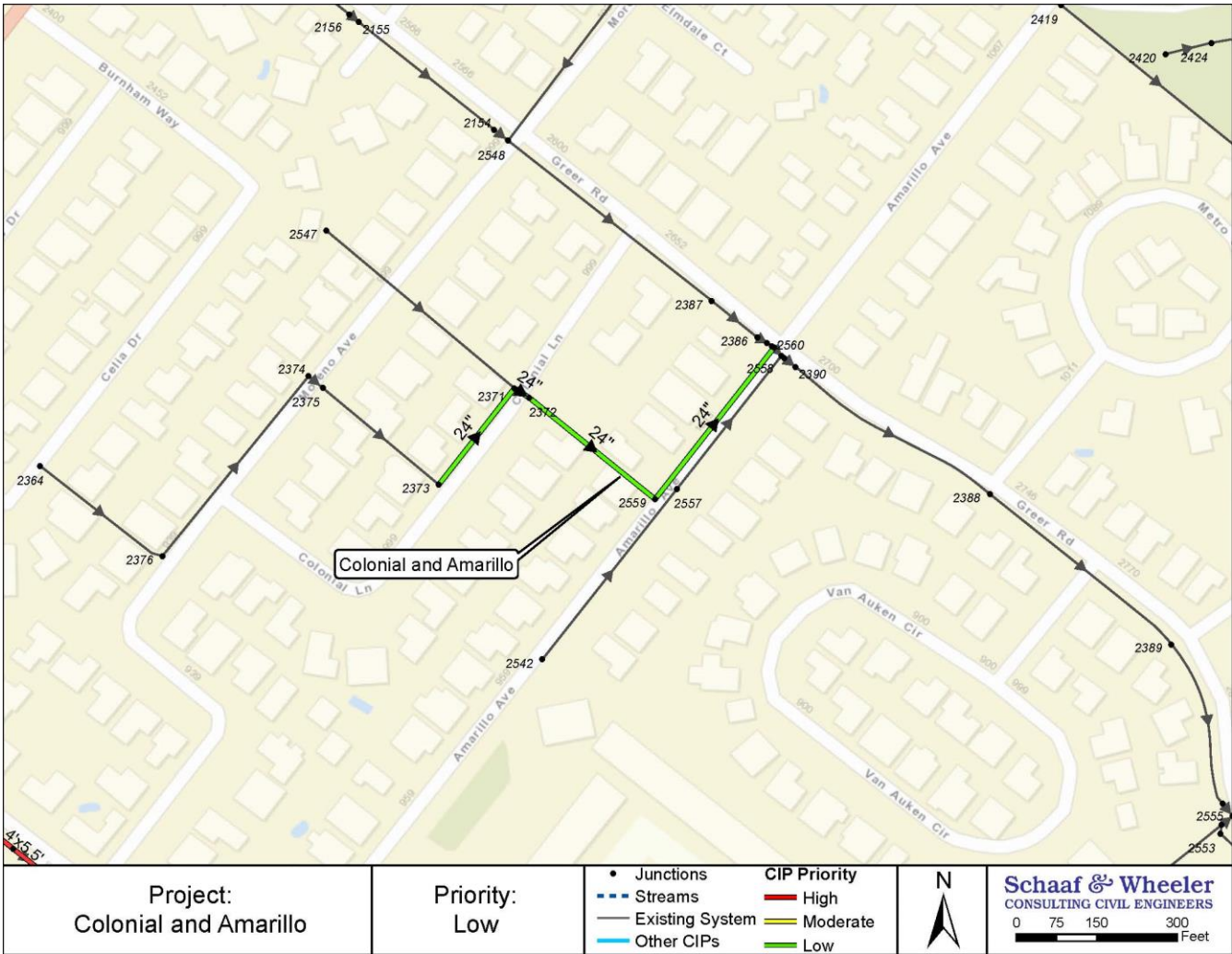


<b>Project:</b> Bryant	<b>Priority:</b> Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: yellow;">—</span> Moderate <span style="color: green;">—</span> Low		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 100 200 400 Feet
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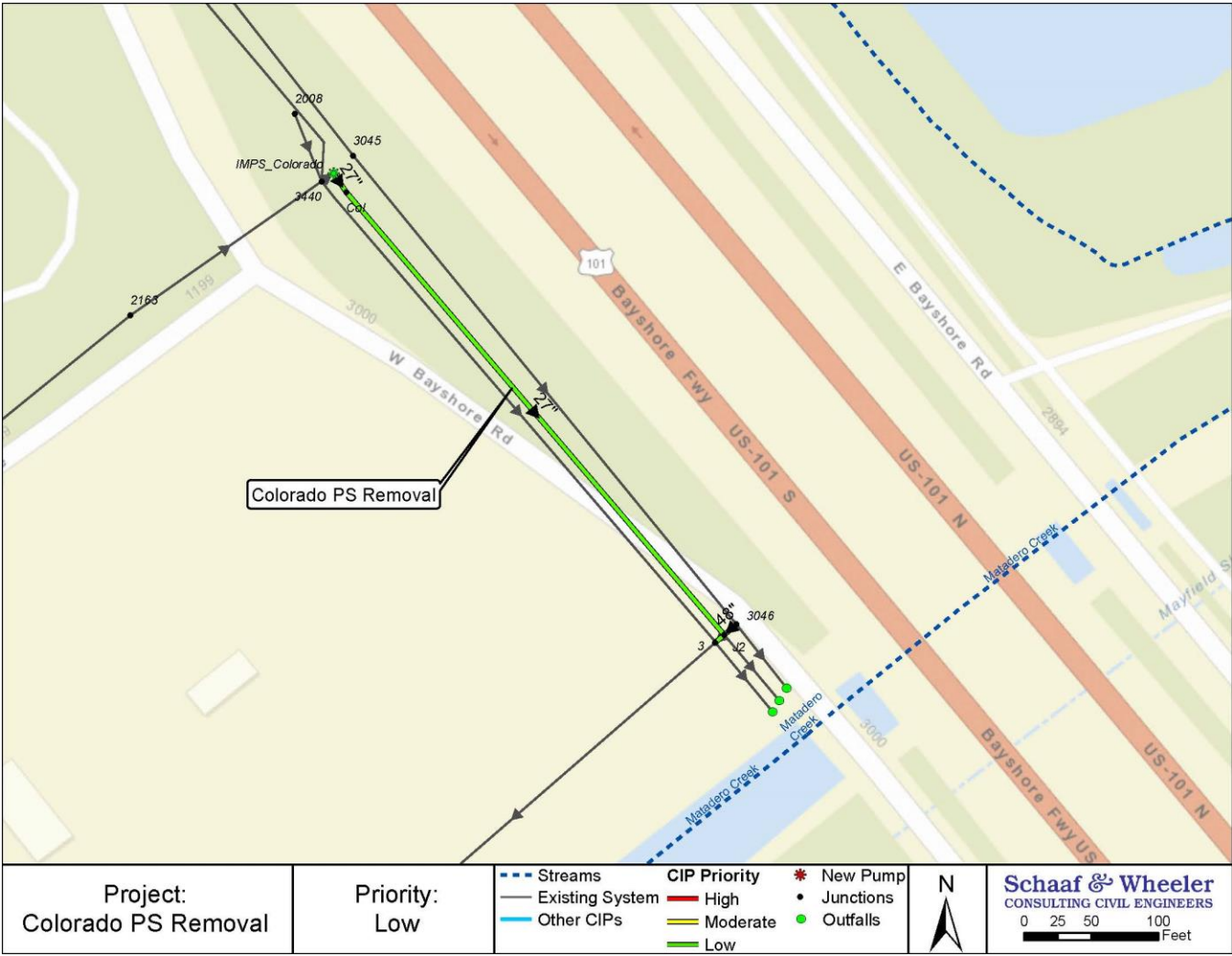
<b>A. Project ID: 30</b>	<b>B. Project Name: Cambridge</b>												
<b>C. Project Location: Aligned with Cambridge Ave. between Harvard St. and El Camino Real</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes in an easement between California Ave. and College Ave south of El Camino Real lack the capacity the required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>36</td> <td>309</td> </tr> <tr> <td>18</td> <td>36</td> <td>923</td> </tr> <tr> <td>21</td> <td>36</td> <td>992</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	36	309	18	36	923	21	36	992
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
15	36	309											
18	36	923											
21	36	992											
<b>G. Construction Subtotal ..... \$1,190,000</b>													
<b>H. Total Construction Cost ..... \$1,550,000</b>													
<b>I. Estimated CIP ..... \$1,860,000</b>													



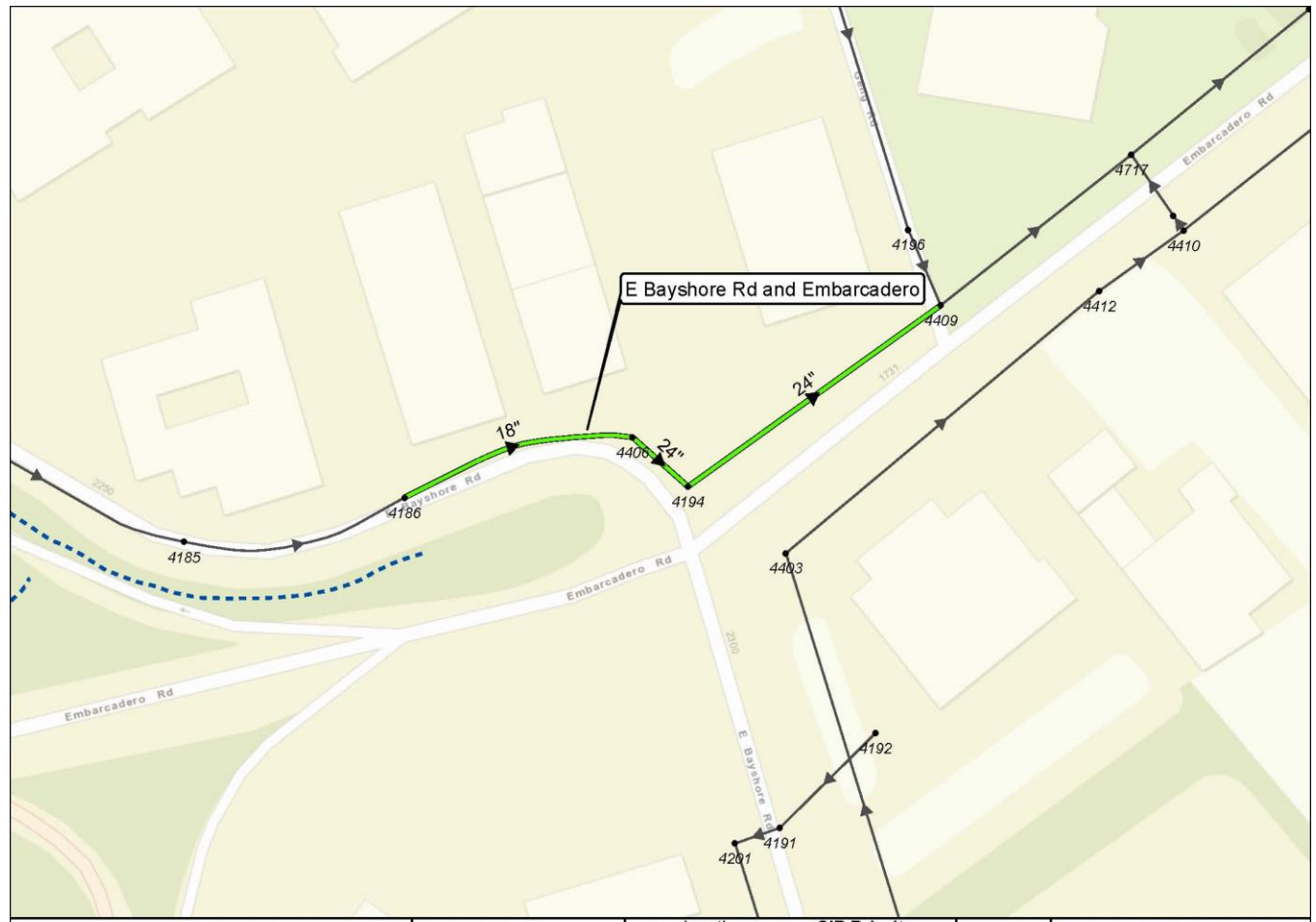
<b>A. Project ID: 31</b>	<b>B. Project Name: Colonial &amp; Amarillo</b>						
<b>C. Project Location: Colonial Ln to Amarillo Ave &amp; Greer Rd</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes on Colonial Lane, Amarillo Ave, and between the two streets lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">12</td> <td style="text-align: center;">24</td> <td style="text-align: center;">730</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	24	730
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
12	24	730					
<b>G. Construction Subtotal</b> ..... <b>\$310,000</b>							
<b>H. Total Construction Cost</b> ..... <b>\$400,000</b>							
<b>I. Estimated CIP</b> ..... <b>\$480,000</b>							



<b>A. Project ID:</b> 32	<b>B. Project Name:</b> Colorado PS Removal												
<b>C. Project Location:</b> Near Bayshore Rd and Colorado Ave to Matadero Creek													
<b>D. Priority:</b> Low													
<b>E. Type:</b> Maintenance													
<b>F. Project Description:</b> The pump station at Colorado Ave is not required to convey the 10-year storm runoff once the Matadero Pump Station is upsized. Removal of this pump station is recommended due to maintenance and safety concerns. Removal requires pipe improvements downstream of the pump station in order to route flow to the Matadero Pump Station.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>27</td> <td>27</td> <td>395</td> </tr> <tr> <td>42</td> <td>48</td> <td>16</td> </tr> <tr> <td>--</td> <td>27</td> <td>14</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	27	27	395	42	48	16	--	27	14
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
27	27	395											
42	48	16											
--	27	14											
<b>G. Construction Subtotal</b> ..... \$280,000													
<b>H. Total Construction Cost</b> ..... \$360,000													
<b>I. Estimated CIP</b> ..... \$430,000													



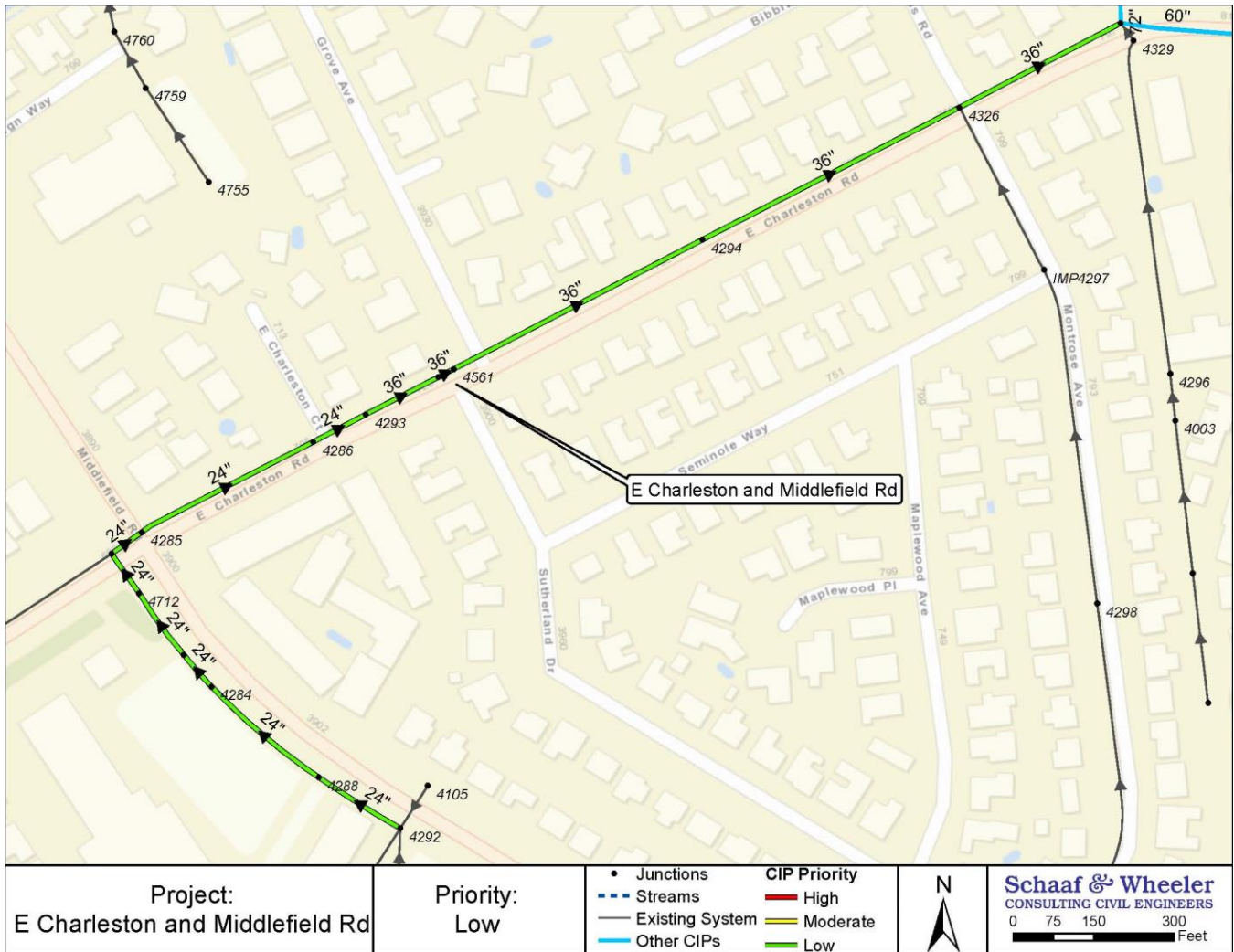
<b>A. Project ID: 33</b>	<b>B. Project Name: E. Bayshore Rd. and Embarcadero</b>									
<b>C. Project Location: E. Bayshore Rd. to Geng Rd. and Embarcadero</b>										
<b>D. Priority: Low</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on E. Bayshore Rd. and Embarcadero near Geng Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>18</td> <td>202</td> </tr> <tr> <td>12</td> <td>24</td> <td>323</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	18	202	12	24	323
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
12	18	202								
12	24	323								
<b>G. Construction Subtotal.....\$220,000</b>										
<b>H. Total Construction Cost.....\$290,000</b>										
<b>I. Estimated CIP.....\$350,000</b>										



Project: E Bayshore Rd and Embarcadero	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<ul style="list-style-type: none"> <li>CIP Priority</li> <li>High</li> <li>Moderate</li> <li>Low</li> </ul>	N 	<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 50 100 200 Feet 
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<b>A. Project ID:</b> 34	<b>B. Project Name:</b> E Charleston & Middlefield Rd												
<b>C. Project Location:</b> Middlefield Rd. SW of Charleston, Charleston Rd. between Middlefield Rd. and near Fabian Way													
<b>D. Priority:</b> Low													
<b>E. Type:</b> Capacity													
<b>F. Project Description:</b> The existing pipes on Middlefield Rd. and Charleston Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>24</td> <td>1,027</td> </tr> <tr> <td>15</td> <td>36</td> <td>990</td> </tr> <tr> <td>27</td> <td>36</td> <td>270</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	24	1,027	15	36	990	27	36	270
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
15	24	1,027											
15	36	990											
27	36	270											
<b>G. Construction Subtotal</b> .....\$1,090,000													
<b>H. Total Construction Cost</b> .....\$1,420,000													
<b>I. Estimated CIP</b> .....\$1,700,000													



A. Project ID: 35

B. Project Name: E. Meadow Dr. & Middlefield Rd.

C. Project Location: E. Meadow Dr. from Fairmeadow Elementary School to E. Meadow Cir.

D. Priority: Low

E. Type: Capacity

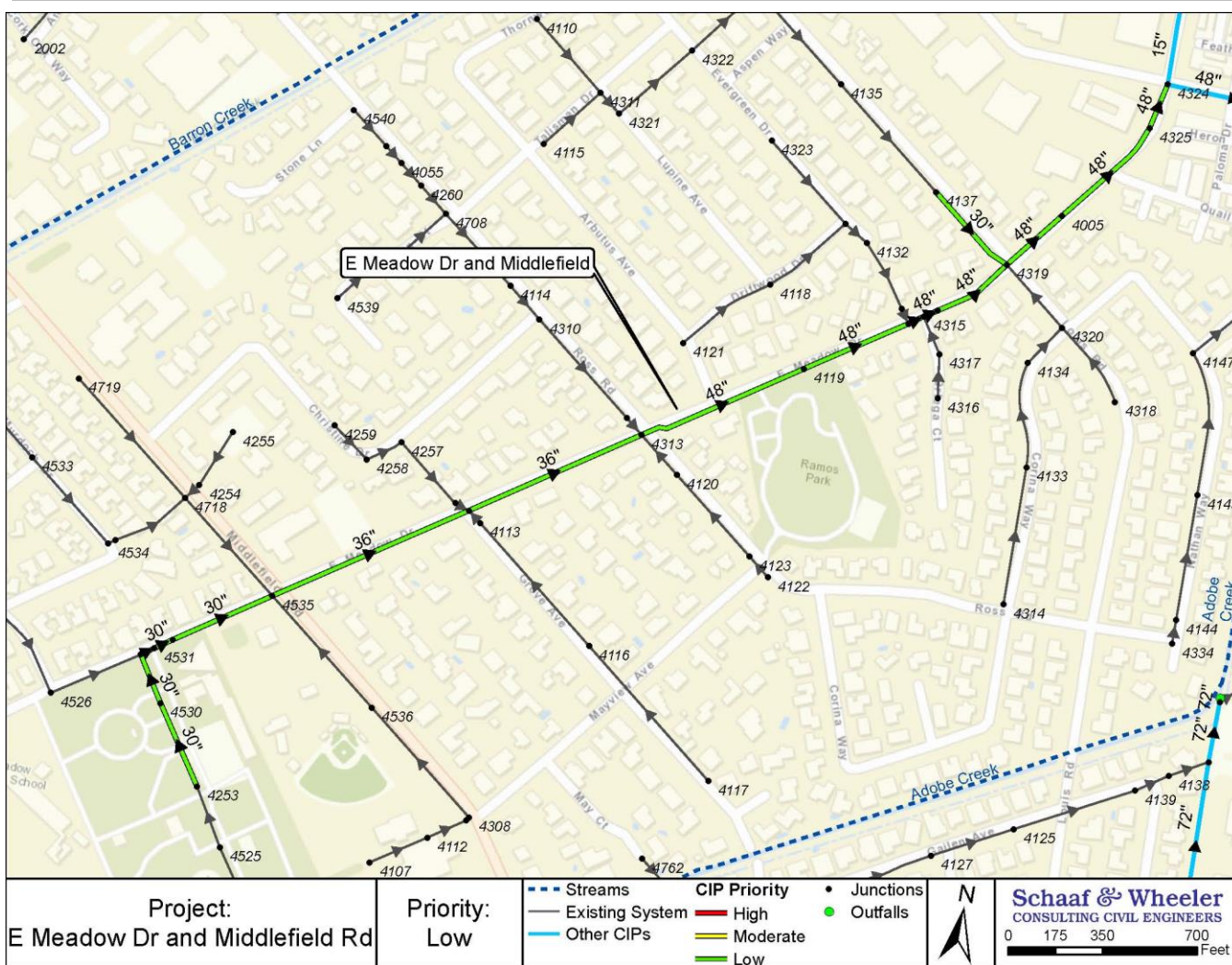
F. Project Description: The existing pipes on E. Meadow Dr. from Fairmeadow Elementary, to E. Meadow Cir. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	30	721
18	30	424
21	36	631
24	36	555
36	48	1,918

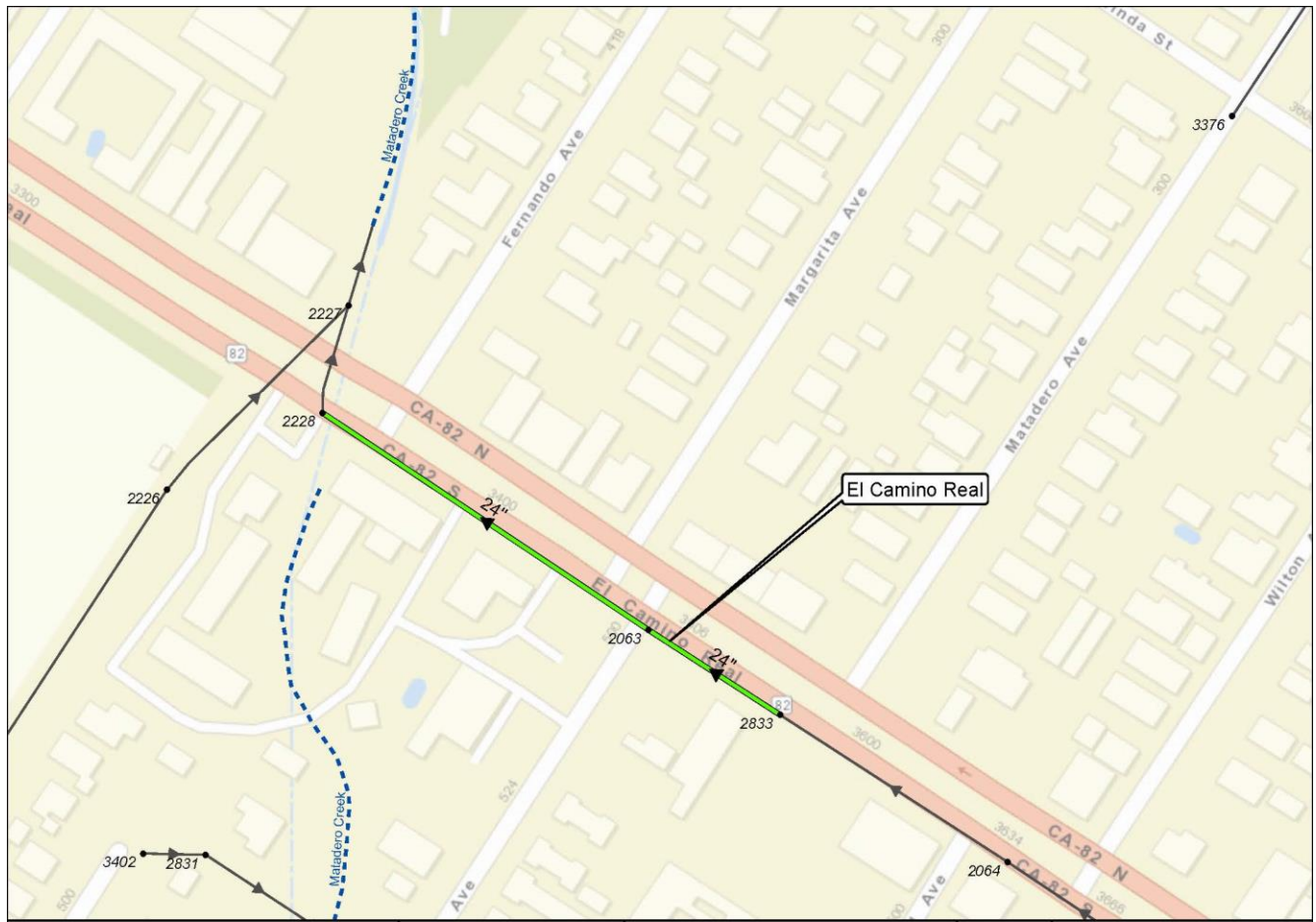
G. Construction Subtotal .....\$2,290,000

H. Total Construction Cost .....\$2,980,000

I. Estimated CIP .....\$3,580,000



<b>A. Project ID: 36</b>	<b>B. Project Name: El Camino Real</b>						
<b>C. Project Location: El Camino Real between Matadero Creek and Matadero Ave.</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes on El Camino Real between Matadero Ave. and Matadero Creek lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. This project will require coordination with Caltrans							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>24</td> <td>612</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	24	612
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
15	24	612					
<b>G. Construction Subtotal ..... \$250,000</b>							
<b>H. Total Construction Cost ..... \$330,000</b>							
<b>I. Estimated CIP ..... \$400,000</b>							

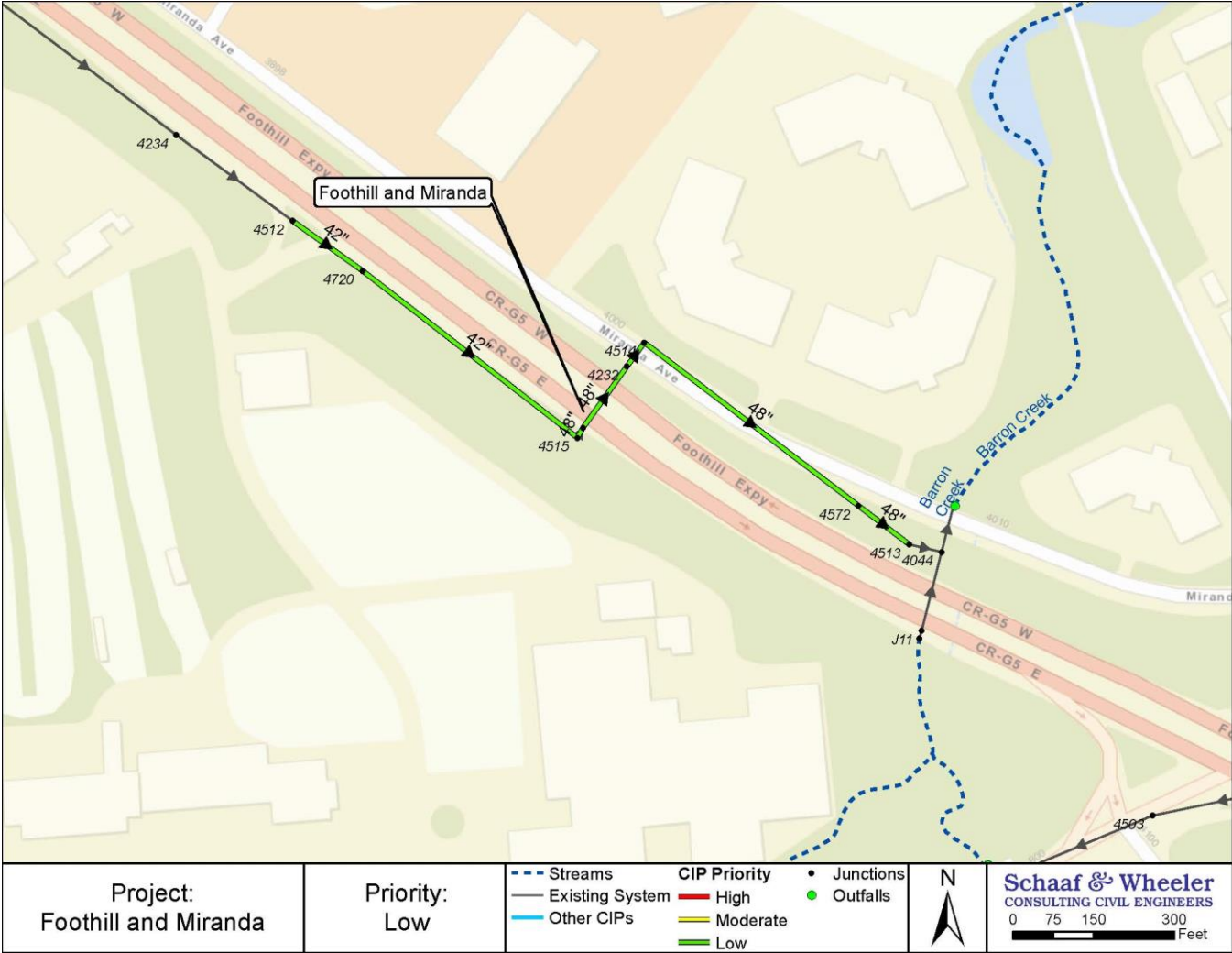


Project: El Camino Real	Priority: Low	<ul style="list-style-type: none"> <li>Junctions</li> <li>Streams</li> <li>Existing System</li> <li>Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: yellow;">—</span> Moderate <span style="color: green;">—</span> Low		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 75 150 300 Feet
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<b>A. Project ID:</b> 37	<b>B. Project Name:</b> El Centro						
<b>C. Project Location:</b> From El Centro St. and Barron Ave. to Matadero Creek Outfall							
<b>D. Priority:</b> Low							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes running from El Centro St. to Matadero Creek lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>24</td> <td>639</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	24	639
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
12	24	639					
<b>G. Construction Subtotal</b> ..... \$310,000							
<b>H. Total Construction Cost</b> ..... \$400,000							
<b>I. Estimated CIP</b> ..... \$480,000							



<b>A. Project ID: 38</b>	<b>B. Project Name: Foothill and Miranda</b>												
<b>C. Project Location: Foothill Expwy near VA Palo Alto to Barron Creek Outfall</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes on Foothill Expwy and Miranda Ave. near the VA Palo Alto Medical Center lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. This project will require coordination with the Santa Clara County Roads Department.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>42</td> <td>127</td> </tr> <tr> <td>36</td> <td>42</td> <td>402</td> </tr> <tr> <td>42</td> <td>48</td> <td>664</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	30	42	127	36	42	402	42	48	664
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
30	42	127											
36	42	402											
42	48	664											
<b>G. Construction Subtotal</b> ..... <b>\$780,000</b>													
<b>H. Total Construction Cost</b> ..... <b>\$1,010,000</b>													
<b>I. Estimated CIP</b> ..... <b>\$1,210,000</b>													



**A. Project ID: 39** **B. Project Name: Forest & Hamilton**

**C. Project Location: Forest Ave at Seneca St. to Hamilton Ave. at Center Dr.**

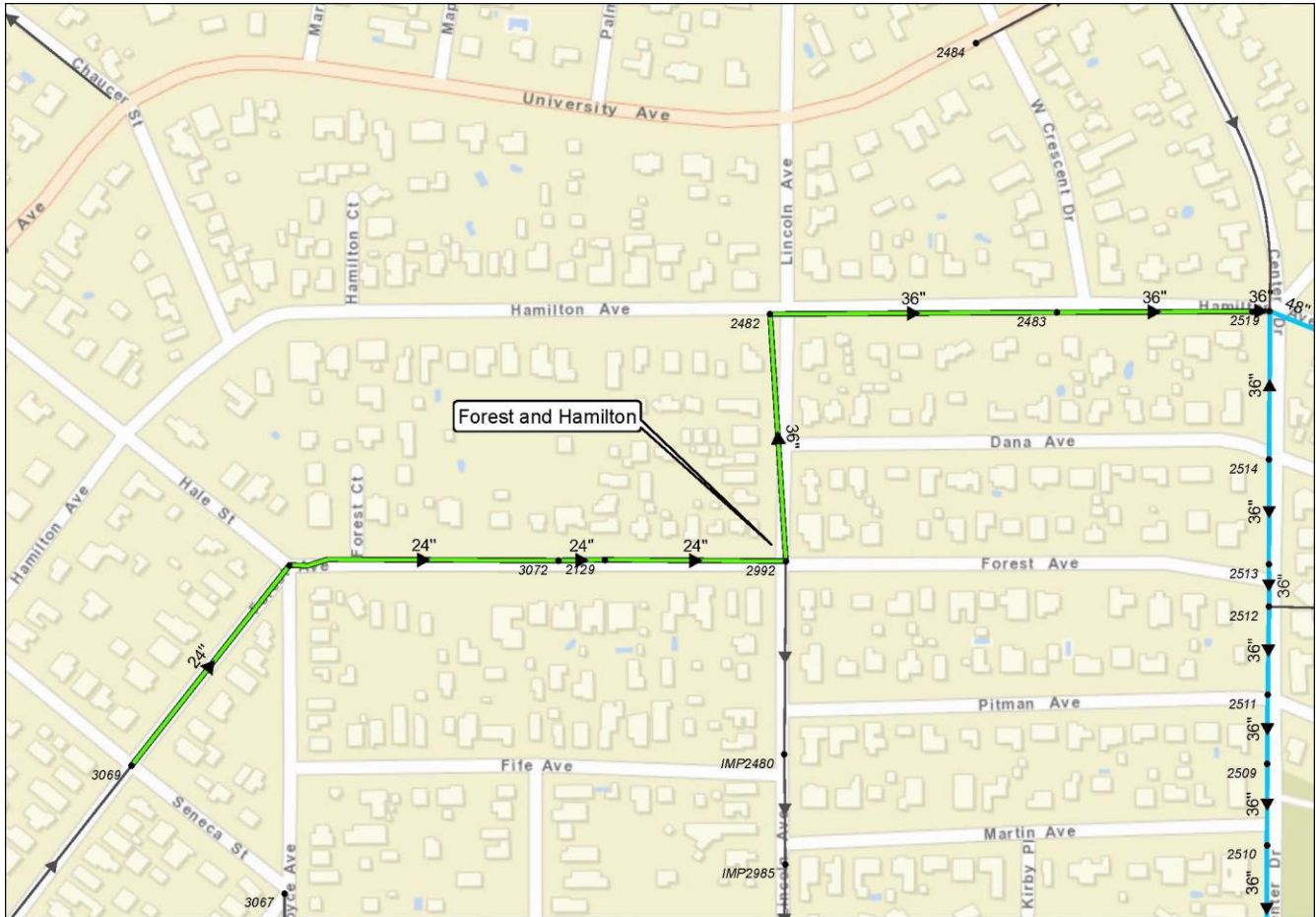
**D. Priority: Low**

**E. Type: Capacity**

**F. Project Description:** The existing pipes on Forest Ave. and Hamilton Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

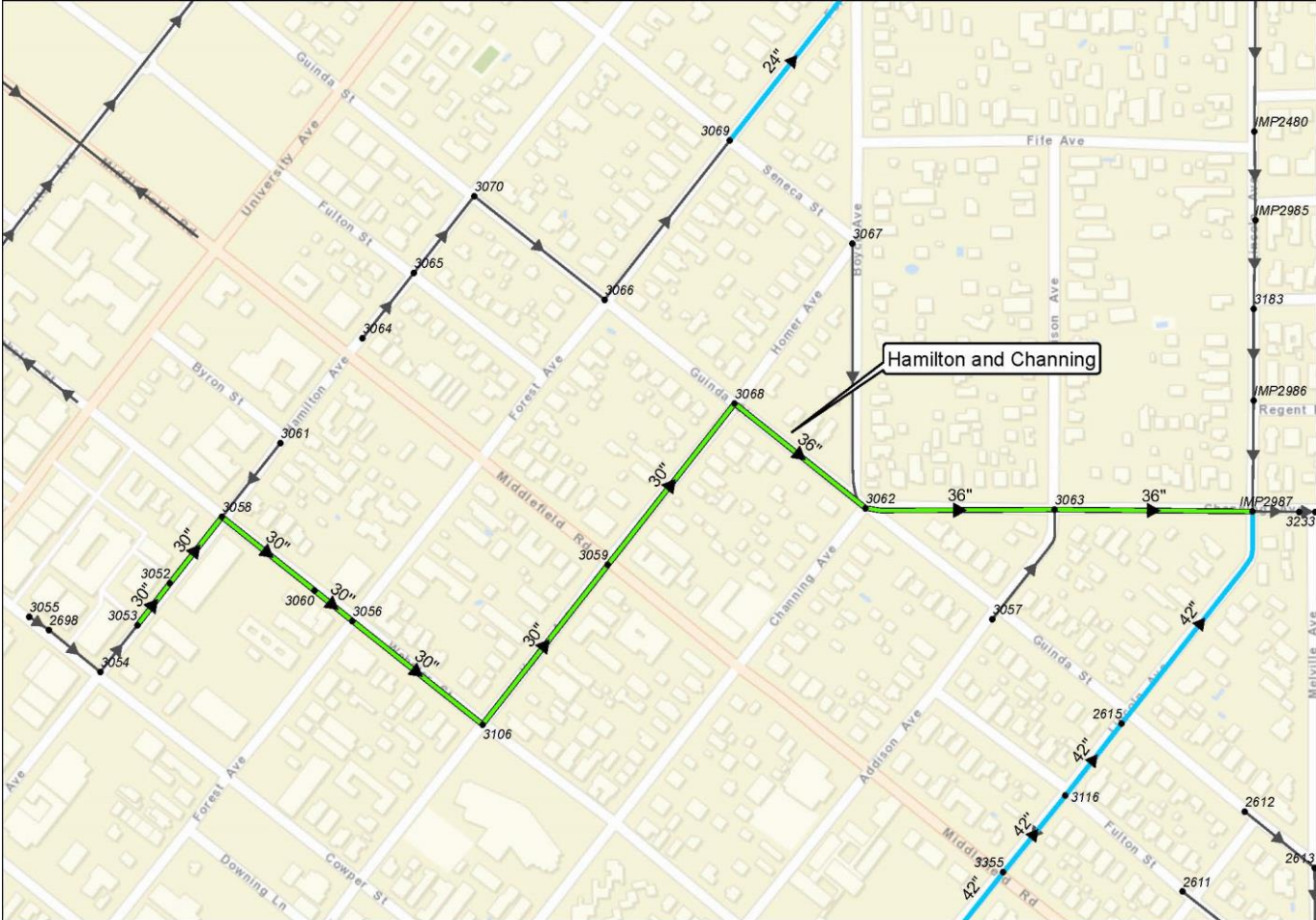
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
14	24	566
15	24	1,106
12	36	1,186
15	36	435

**G. Construction Subtotal** ..... **\$1,470,000**  
**H. Total Construction Cost** ..... **\$1,910,000**  
**I. Estimated CIP** ..... **\$2,290,000**



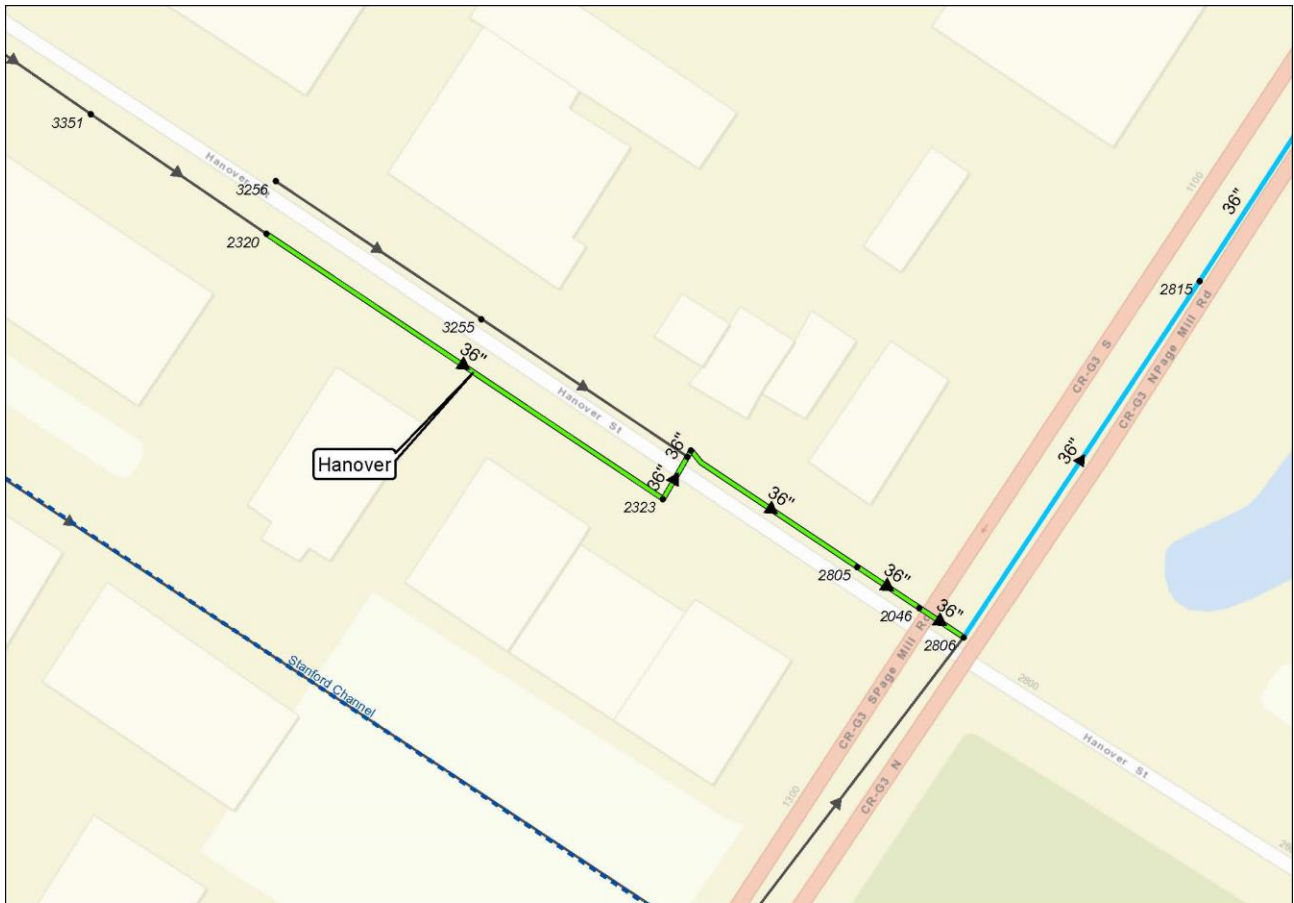
<b>Project:</b> Forest and Hamilton	<b>Priority:</b> Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: orange;">—</span> Moderate <span style="color: green;">—</span> Low		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 125 250 500 Feet
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<b>A. Project ID: 40</b>	<b>B. Project Name: Hamilton &amp; Channing</b>																		
<b>C. Project Location: Hamilton Ave. near Cowper St. to Channing Ave. &amp; Lincoln Ave.</b>																			
<b>D. Priority: Low</b>																			
<b>E. Type: Capacity</b>																			
<b>F. Project Description:</b> The existing pipes from Hamilton Ave near Cowper St., along Webster St., along Homer Ave., and along Guinda St. to Channing Ave lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.																			
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>30</td> <td>840</td> </tr> <tr> <td>15</td> <td>30</td> <td>459</td> </tr> <tr> <td>18</td> <td>30</td> <td>560</td> </tr> <tr> <td>21</td> <td>30</td> <td>566</td> </tr> <tr> <td>21</td> <td>36</td> <td>1,534</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	30	840	15	30	459	18	30	560	21	30	566	21	36	1,534
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)																	
12	30	840																	
15	30	459																	
18	30	560																	
21	30	566																	
21	36	1,534																	
<b>G. Construction Subtotal ..... \$1,820,000</b>																			
<b>H. Total Construction Cost ..... \$2,370,000</b>																			
<b>I. Estimated CIP ..... \$2,840,000</b>																			



<b>Project:</b> Hamilton and Channing	<b>Priority:</b> Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <ul style="list-style-type: none"> <li>High</li> <li>Moderate</li> <li>Low</li> </ul>	 <b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 150 300 600 Feet
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<b>A. Project ID: 41</b>	<b>B. Project Name: Hanover</b>									
<b>C. Project Location: Hanover St. between 2527/2631 Hanover and Page Mill Rd.</b>										
<b>D. Priority: Low</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Hanover St. northwest of Page Mill Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>36</td> <td>404</td> </tr> <tr> <td>18</td> <td>36</td> <td>328</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	36	404	18	36	328
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
15	36	404								
18	36	328								
<b>G. Planning/Design/Admin/Permitting ..... \$420,000</b>										
<b>H. Total Construction Cost ..... \$550,000</b>										
<b>I. Estimated CIP ..... \$660,000</b>										



Project: Hanover	Priority: Low	<ul style="list-style-type: none"> <li>Junctions</li> <li>Streams</li> <li>Existing System</li> <li>Other CIPs</li> </ul>	<b>CIP Priority</b> <ul style="list-style-type: none"> <li>High</li> <li>Moderate</li> <li>Low</li> </ul>		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 50 100 200 Feet
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A. Project ID: 42

B. Project Name: Hillview

C. Project Location: Hillview Ave. near Matadero Creek

D. Priority: Low

E. Type: Capacity

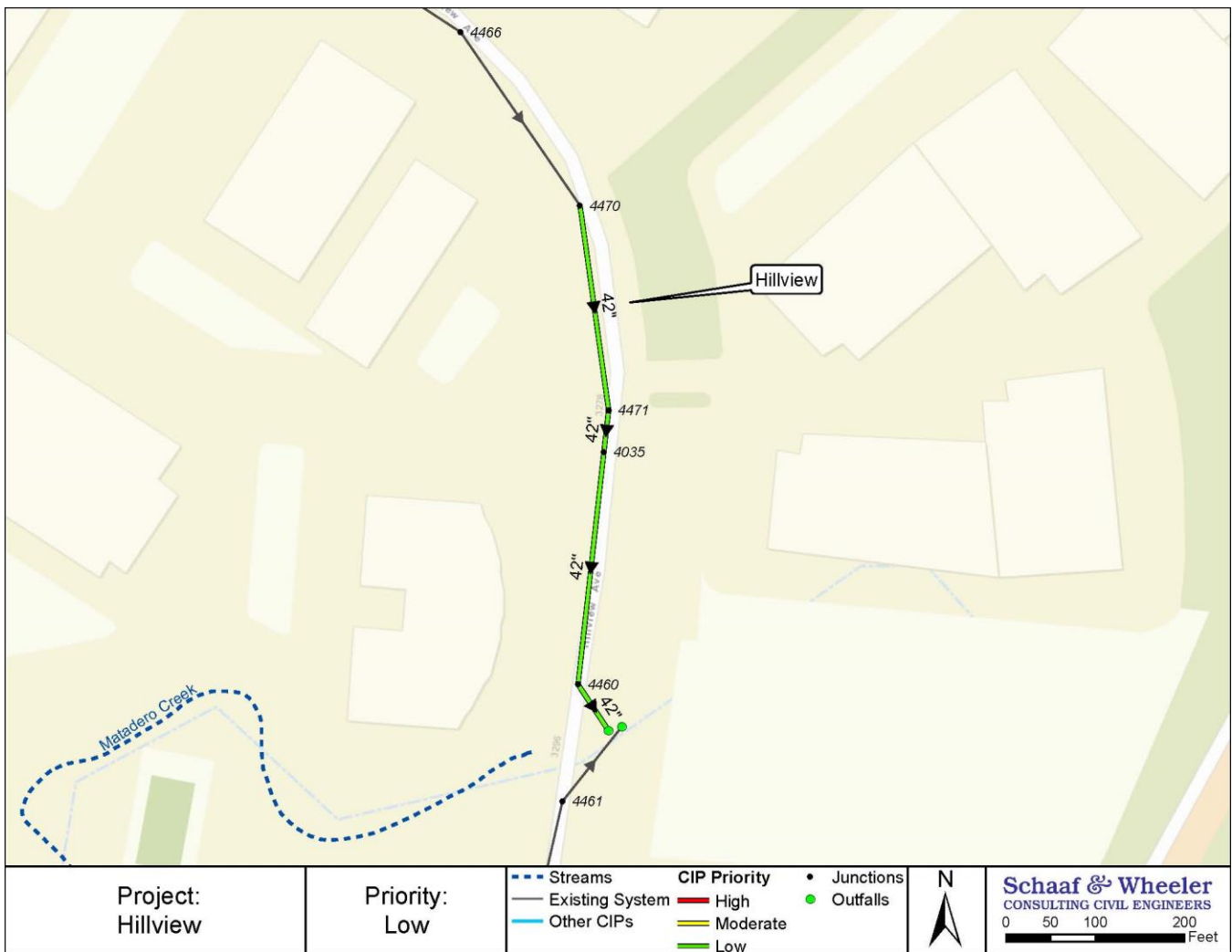
F. Project Description: The existing pipes on Hillview Ave. north of the Matadero Creek outfall lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
27	42	477

G. Construction Subtotal ..... \$350,000

H. Total Construction Cost.....\$460,000

I. Estimated CIP .....\$550,000



Project:  
Hillview

Priority:  
Low

--- Streams  
--- Existing System  
--- Other CIPs  
--- High  
--- Moderate  
--- Low  
• Junctions  
• Outfalls



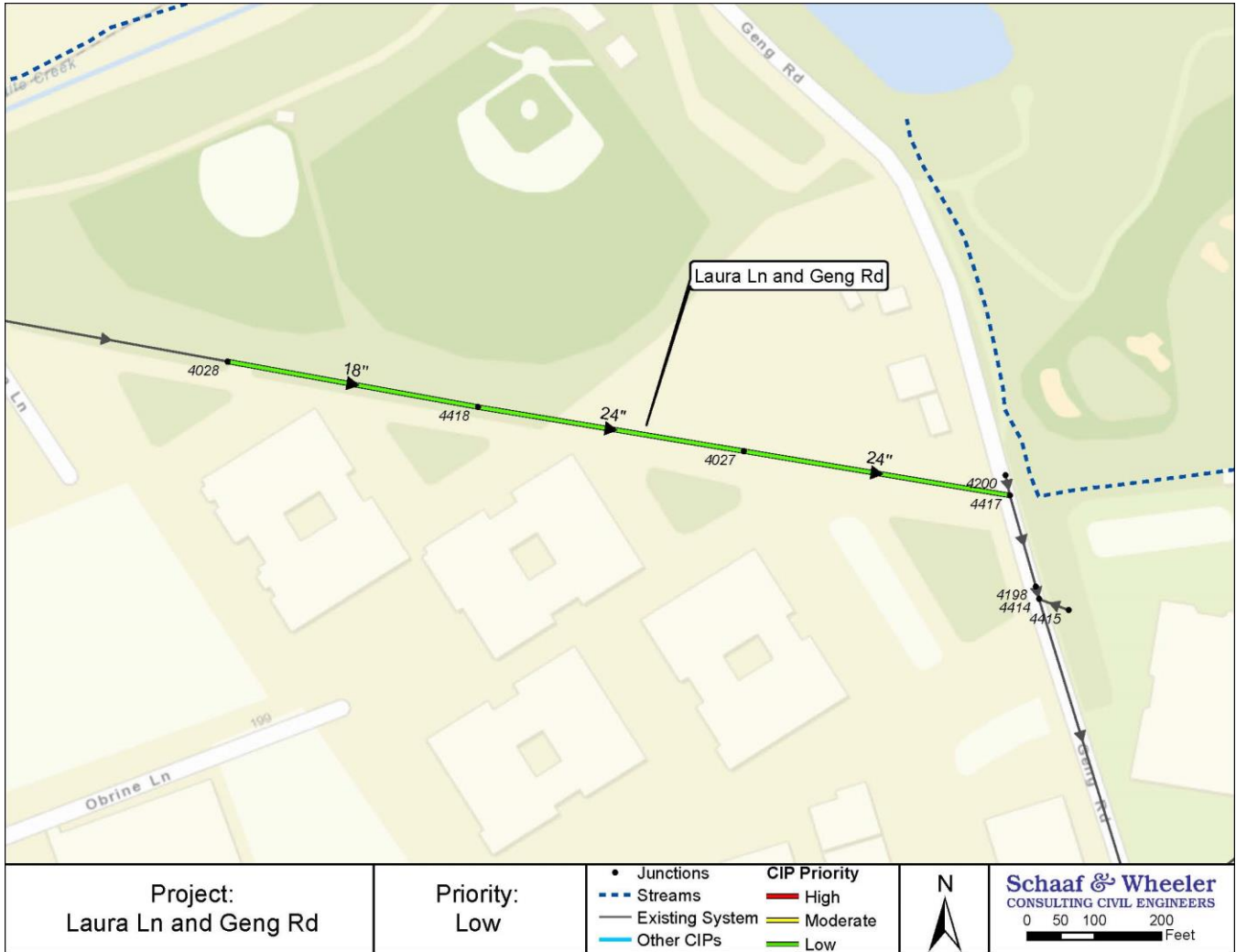
**Schaaf & Wheeler**  
 CONSULTING CIVIL ENGINEERS  
 0 50 100 200 Feet

A. Project ID: 43	B. Project Name: Hoover Park						
C. Project Location: Hoover Park near Cowper St. Entrance							
D. Priority: Low							
<p>E. Type: Capacity</p> <p>F. <b>Project Description:</b> The existing pipes in Hoover Park at the Matadero Creek outfall lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.</p>							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>36</td> <td>217</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	36	217
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
12	36	217					
<p>G. Construction Subtotal ..... \$200,000</p> <p>H. Total Construction Cost ..... \$260,000</p> <p>I. Estimated CIP ..... \$310,000</p>							

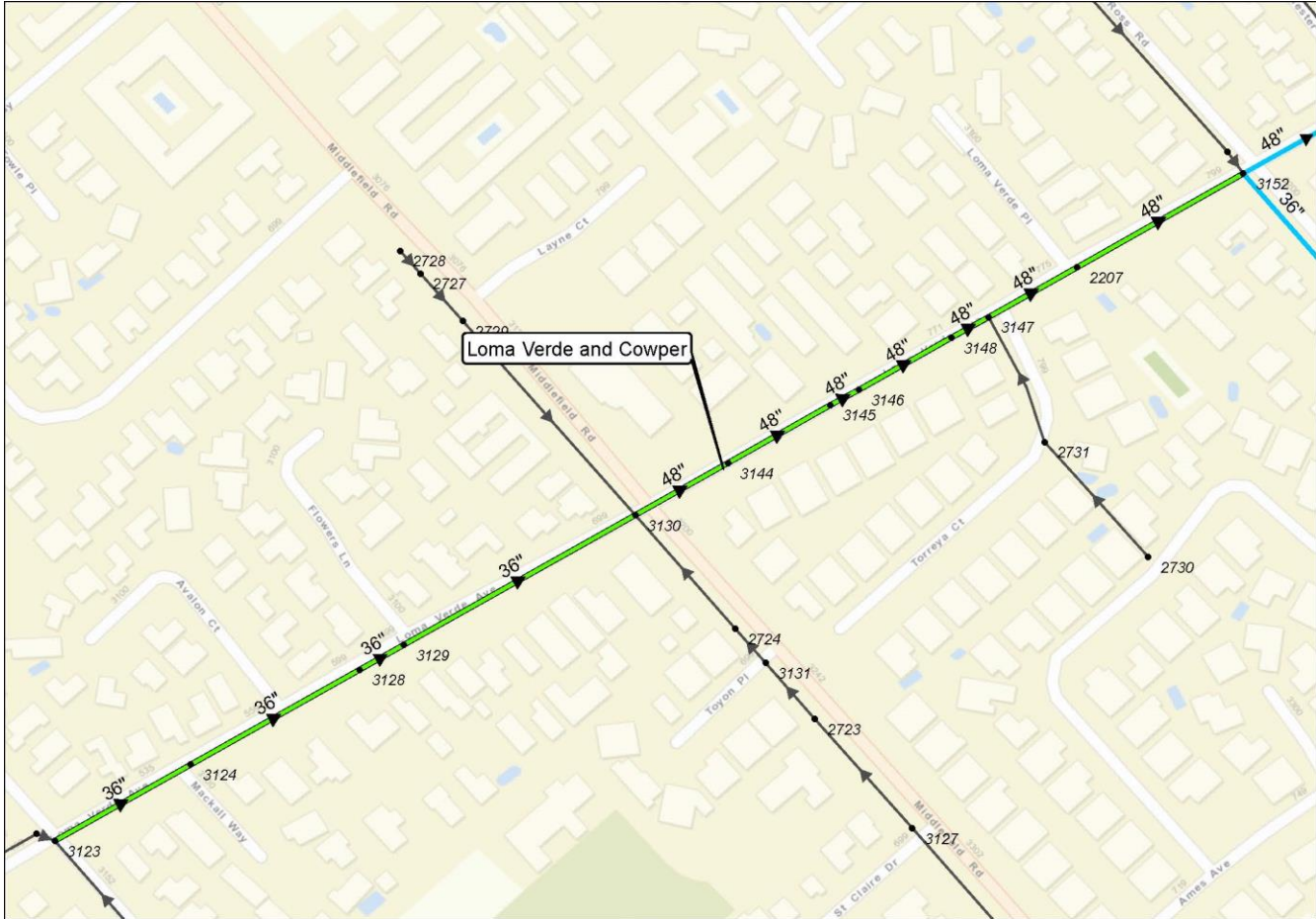


<p>Project: Hoover Park</p>	<p>Priority: Low</p>	<p>--- Streams</p> <p>— Existing System</p> <p>— Other CIPs</p> <p>• Junctions</p> <p>• Outfalls</p> <p><b>CIP Priority</b></p> <p>High</p> <p>Moderate</p> <p>Low</p>	<p>N</p>	<p><b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS</p> <p>0 25 50 100 Feet</p>
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<b>A. Project ID: 44</b>	<b>B. Project Name: Laura Ln &amp; Geng Rd</b>												
<b>C. Project Location: Laura Ln. west of Geng Rd.</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes west of Geng Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>18</td> <td>302</td> </tr> <tr> <td>12</td> <td>24</td> <td>319</td> </tr> <tr> <td>15</td> <td>24</td> <td>319</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	18	302	12	24	319	15	24	319
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
12	18	302											
12	24	319											
15	24	319											
<b>G. Construction Subtotal ..... \$350,000</b>													
<b>H. Total Construction Cost.....\$460,000</b>													
<b>I. Estimated CIP .....\$550,000</b>													



<b>A. Project ID: 45</b>	<b>B. Project Name: Loma Verde &amp; Cowper</b>									
<b>C. Project Location: Loma Verde Ave. between Cowper St. and Ross Rd.</b>										
<b>D. Priority: Low</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Loma Verde Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>36</td> <td>1,106</td> </tr> <tr> <td>27</td> <td>48</td> <td>1,158</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	24	36	1,106	27	48	1,158
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
24	36	1,106								
27	48	1,158								
<b>G. Planning/Design/Admin/Permitting</b> .....\$1,530,000										
<b>H. Total Construction Cost</b> .....\$1,990,000										
<b>I. Estimated CIP</b> .....\$2,390,000										



Project: Loma Verde and Cowper	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: orange;">—</span> Moderate <span style="color: green;">—</span> Low	 <b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 100 200 400 Feet
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<b>A. Project ID: 46</b>	<b>B. Project Name: Louis and Loma Verde</b>						
<b>C. Project Location: Louis Rd. between Loma Verde Ave. and 90 Degree bend near Palo Verde Elementary School</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b> <b>F. Project Description:</b> The existing pipes on Louis Road near Ames Ave lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>51</td> <td>1,249</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	18	51	1,249
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
18	51	1,249					
<b>G. Construction Subtotal</b> ..... \$860,000 <b>H. Total Construction Cost</b> ..... \$1,120,000 <b>I. Estimated CIP</b> ..... \$1,340,000							



Project:  
Louis and Loma Verde

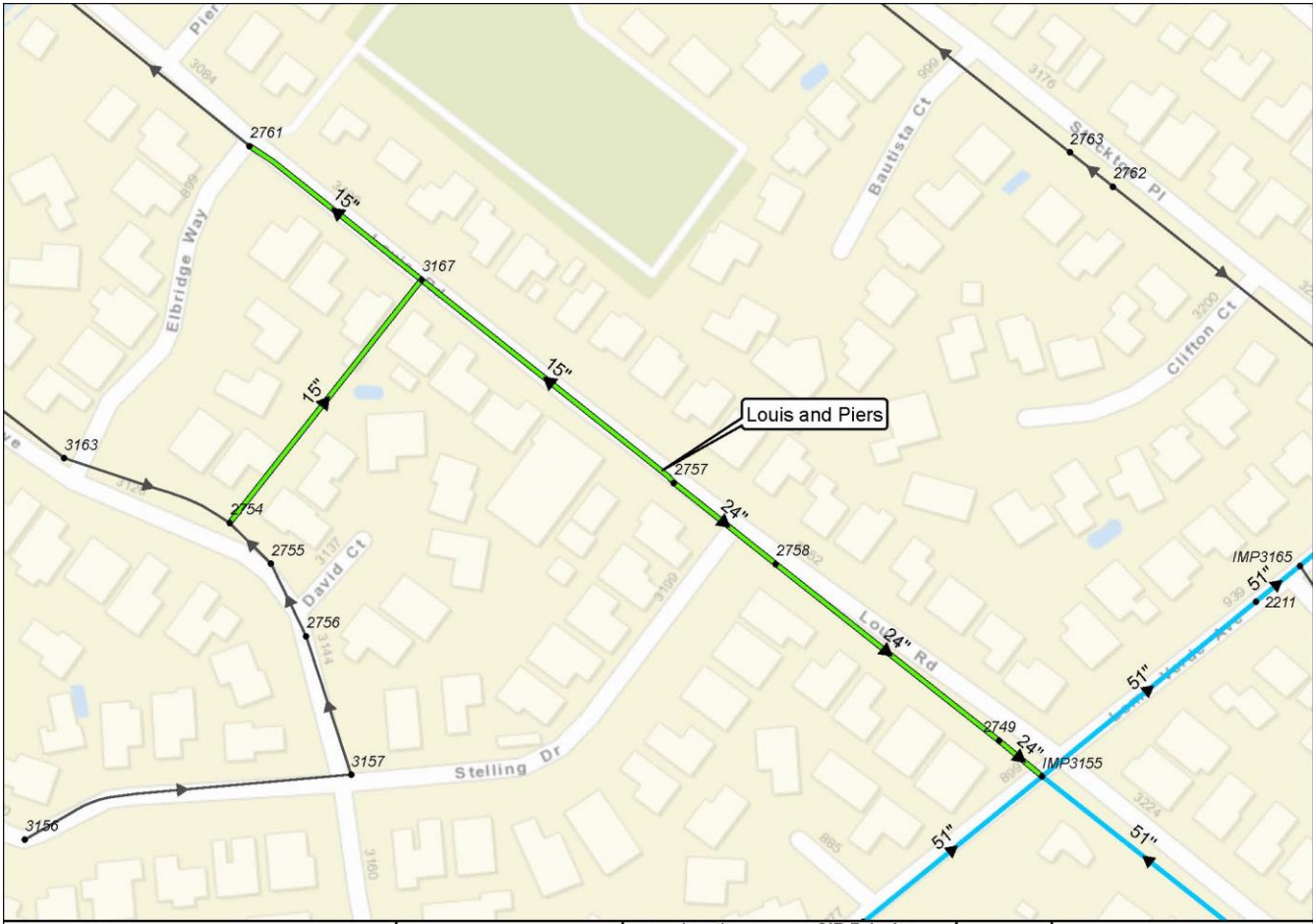
Priority:  
Low

- Junctions
- Streams
- Existing System
- Other CIPs
- CIP Priority**
- High
- Moderate
- Low



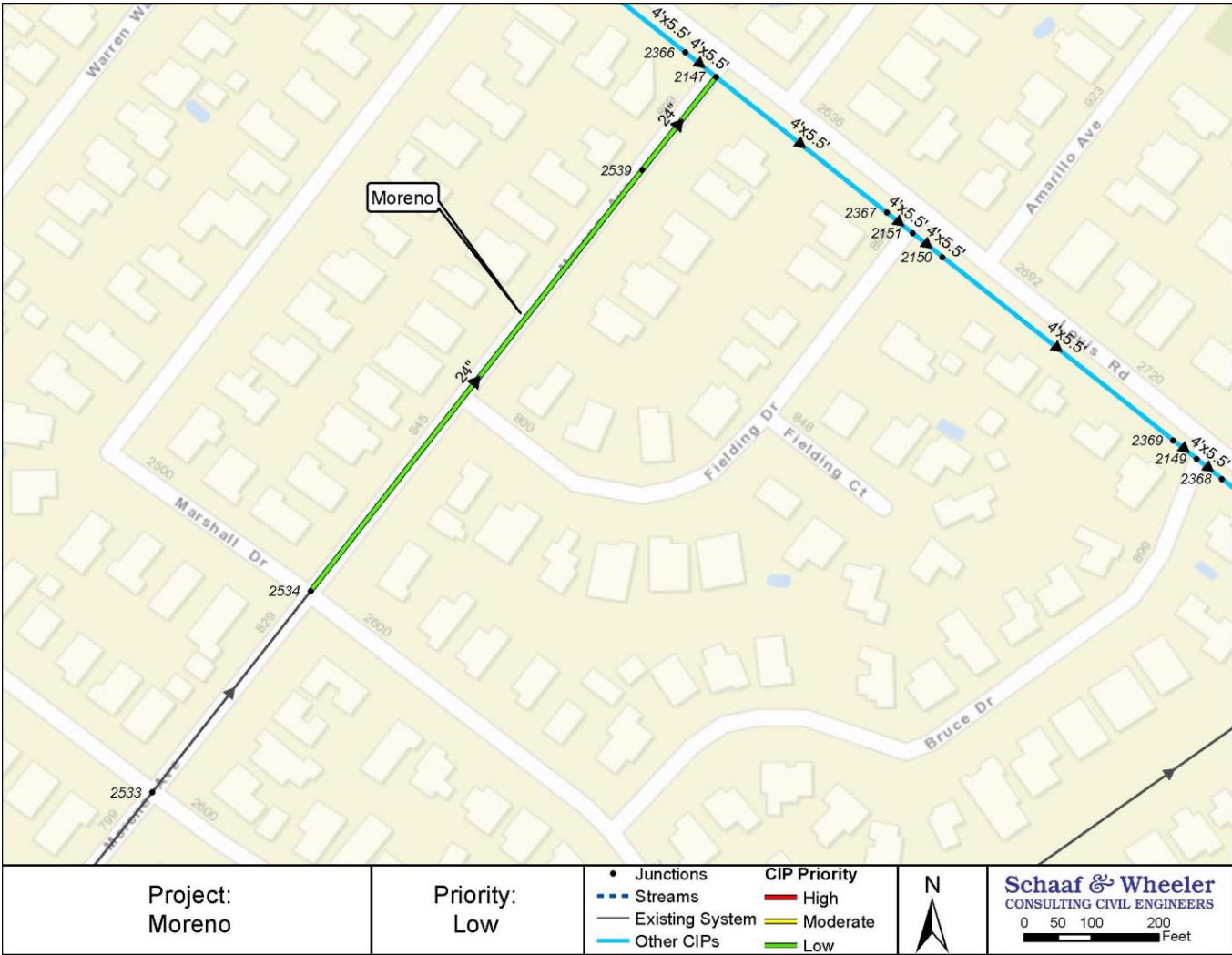
**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 50 100 200  
Feet

<b>A. Project ID: 47</b>	<b>B. Project Name: Louis and Piers</b>												
<b>C. Project Location: Louis Rd. between Elbridge Way and Loma Verde Ave.</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes on Louis Rd. and the connection to David Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>15</td> <td>945</td> </tr> <tr> <td>12</td> <td>24</td> <td>316</td> </tr> <tr> <td>15</td> <td>24</td> <td>206</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	15	945	12	24	316	15	24	206
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
12	15	945											
12	24	316											
15	24	206											
<b>G. Construction Subtotal ..... \$510,000</b>													
<b>H. Total Construction Cost ..... \$660,000</b>													
<b>I. Estimated CIP ..... \$790,000</b>													



Project: Louis and Piers	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: yellow;">—</span> Moderate <span style="color: green;">—</span> Low		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 50 100 200 Feet
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A. Project ID: 48	B. Project Name: Moreno						
C. Project Location: Moreno Rd. between Marshall Dr. and Louis Rd.							
D. Priority: Low							
<p>E. Type: Capacity</p> <p>F. Project Description: The existing pipes on Moreno Ave. near Louis Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.</p>							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>24</td> <td>773</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	24	773
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
15	24	773					
<p>G. Construction Subtotal ..... \$290,000</p> <p>H. Total Construction Cost ..... \$380,000</p> <p>I. Estimated CIP ..... \$460,000</p>							



Project:  
Moreno

Priority:  
Low

- Junctions
- Streams
- Existing System
- Other CIPs

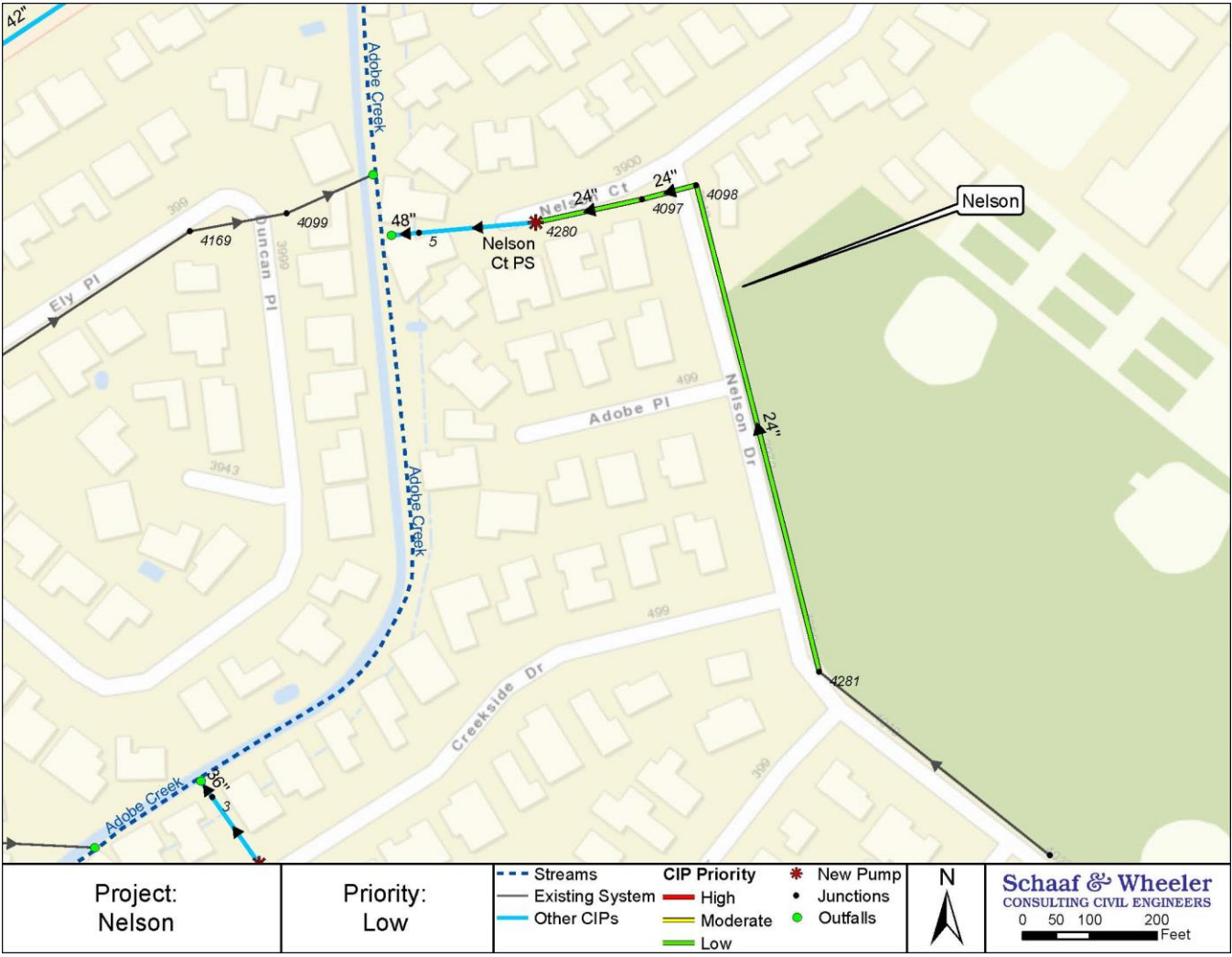
- CIP Priority
- High
  - Moderate
  - Low



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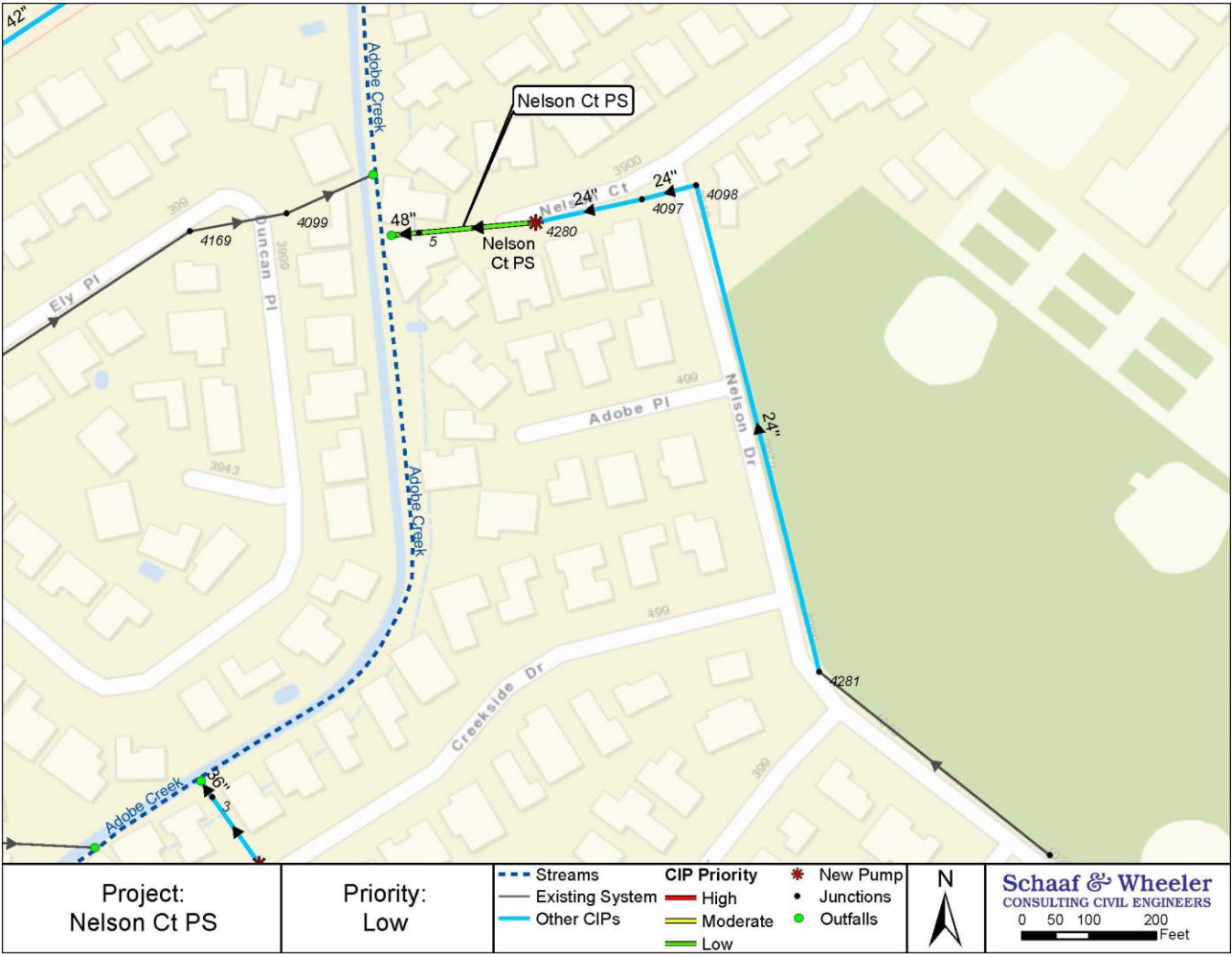
0 50 100 200  
Feet

<b>A. Project ID: 49</b>	<b>B. Project Name: Nelson</b>						
<b>C. Project Location: Nelson Dr. near Creekside Dr. to Adobe Creek</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes to the Adobe Creek outfall on Nelson Dr. and Nelson Ct. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>24</td> <td>788</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	18	24	788
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
18	24	788					
<b>G. Construction Subtotal ..... \$430,000</b>							
<b>H. Total Construction Cost ..... \$560,000</b>							
<b>I. Estimated CIP ..... \$670,000</b>							





<b>A. Project ID:</b> 50	<b>B. Project Name:</b> Nelson Ct. Pump				
<b>C. Project Location:</b> Nelson Ct. at Adobe Creek					
<b>D. Priority:</b> Low					
<b>E. Type:</b> Capacity					
<b>F. Project Description:</b> A new pump station near Nelson Ct. at the Adobe Creek outfall is recommended to provide a 10 year level of service when the water level in Adobe Creek is high.					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Capacity (cfs)</th> <th>Imp. Capacity (cfs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">17</td> </tr> </tbody> </table>		Ex. Capacity (cfs)	Imp. Capacity (cfs)	N/A	17
Ex. Capacity (cfs)	Imp. Capacity (cfs)				
N/A	17				
<b>G. Construction Subtotal</b> ..... \$760,000					
<b>H. Total Construction Cost</b> ..... \$990,000					
<b>I. Estimated CIP</b> ..... \$1,190,000					



Project:  
Nelson Ct PS

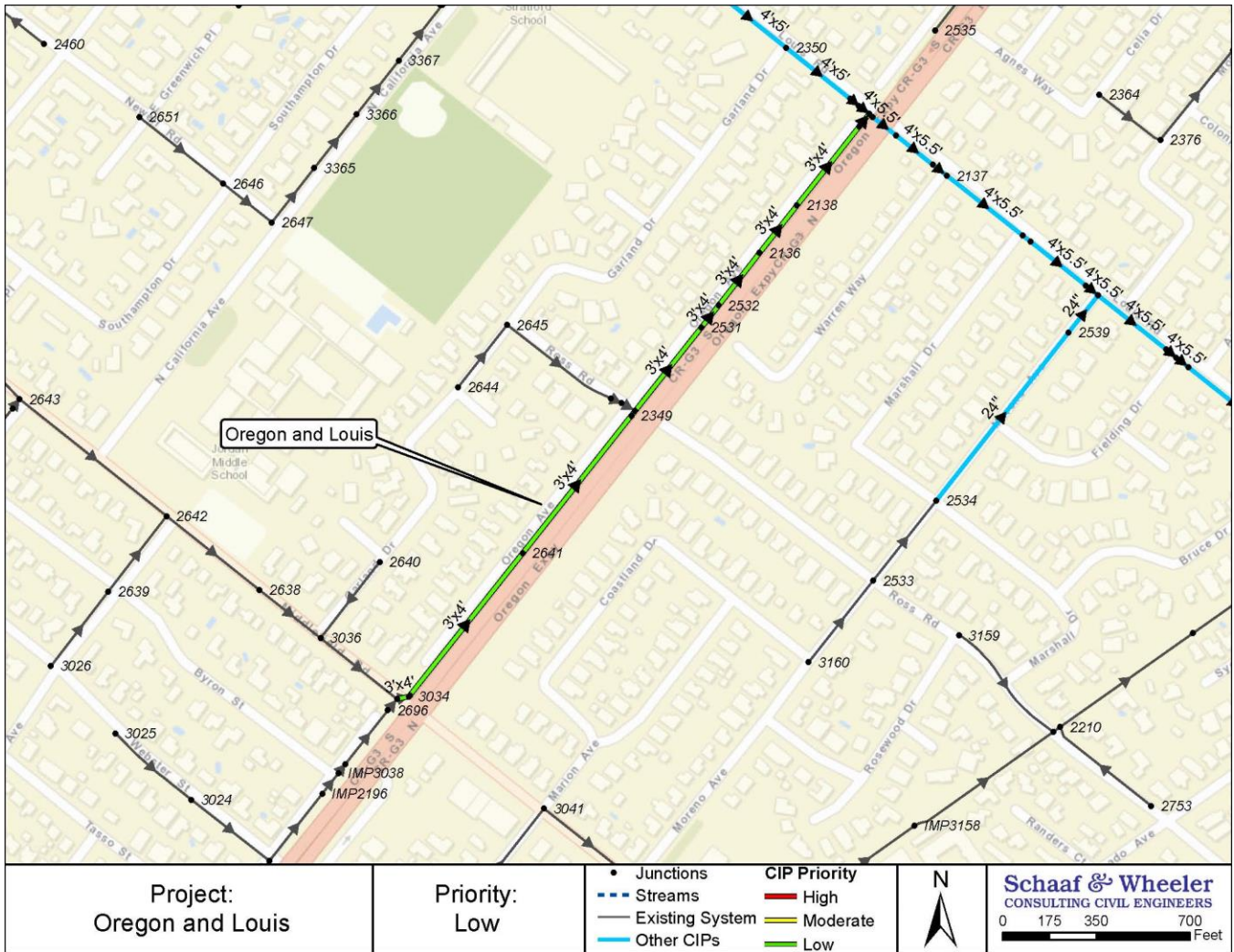
Priority:  
Low

**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 50 100 200 Feet

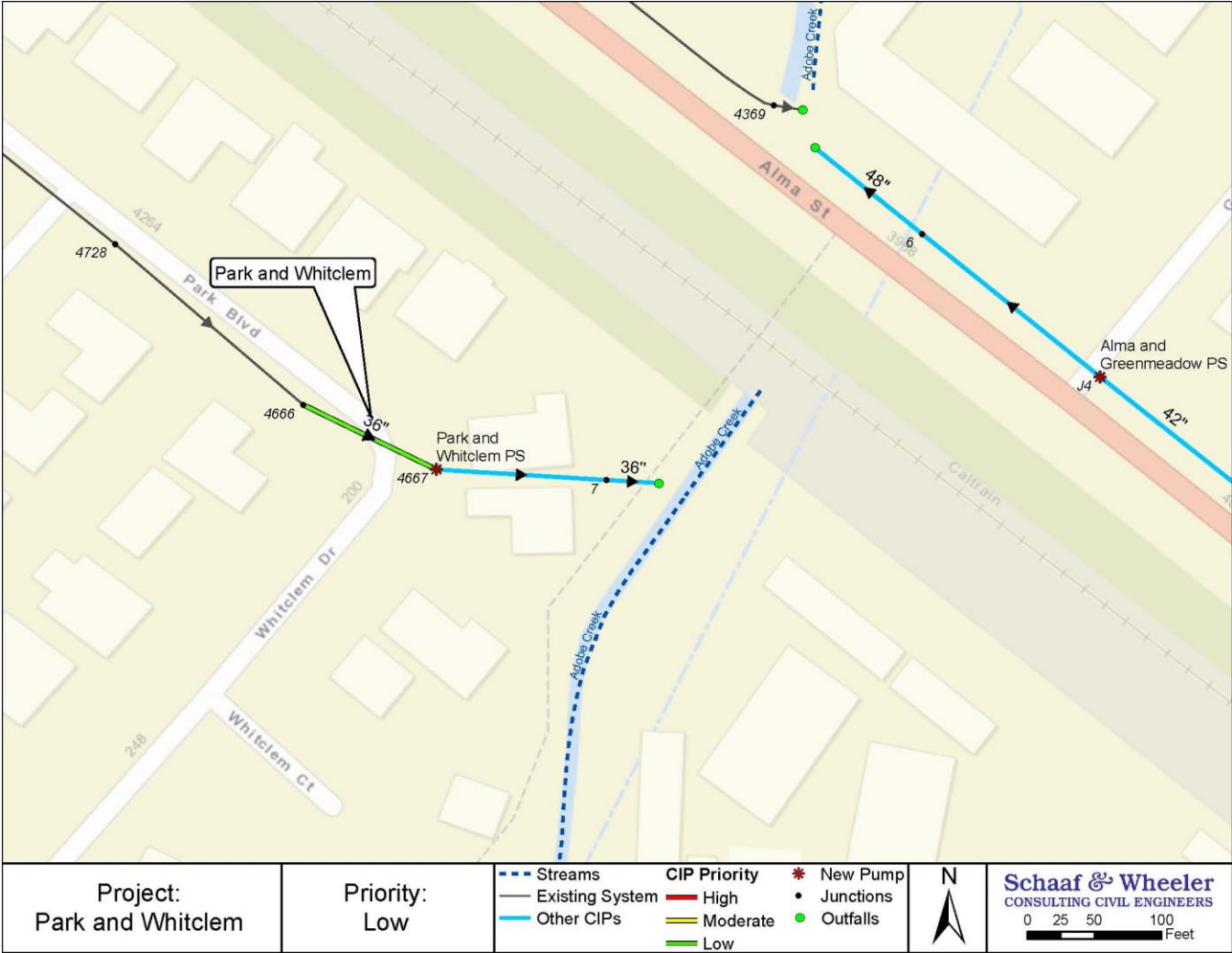
<b>A. Project ID:</b> 51	<b>B. Project Name:</b> Oregon						
<b>C. Project Location:</b> Oregon Ave. between Greer Rd. and W. Bayshore Rd.							
<b>D. Priority:</b> Low							
<b>E. Type:</b> Capacity							
<b>F. Project Description:</b> The existing pipes on Oregon Ave. near Greer Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">12</td> <td style="text-align: center;">30</td> <td style="text-align: center;">792</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	30	792
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
12	30	792					
<b>G. Construction Subtotal</b> ..... \$390,000							
<b>H. Total Construction Cost</b> ..... \$510,000							
<b>I. Estimated CIP</b> ..... \$610,000							



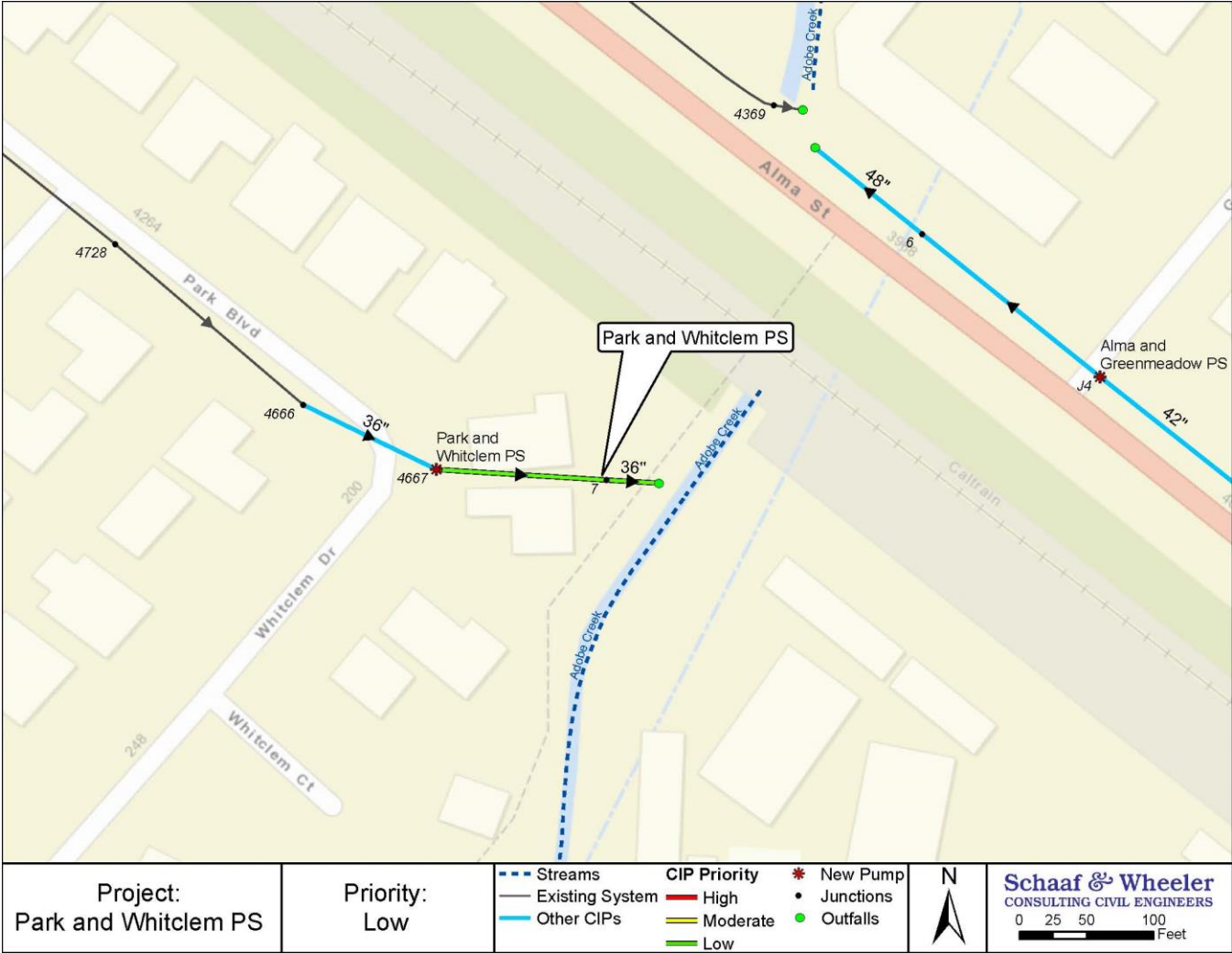
<b>A. Project ID: 52</b>	<b>B. Project Name: Oregon and Louis</b>						
<b>C. Project Location: Oregon Ave. between Middlefield Rd. and Louis Rd.</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes on Oregon Ave. southwest of Louis Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Size</th> <th>Imp. Size</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.8' x 2.9'</td> <td style="text-align: center;">3'x4'</td> <td style="text-align: center;">2,180</td> </tr> </tbody> </table>		Ex. Size	Imp. Size	Length (ft)	2.8' x 2.9'	3'x4'	2,180
Ex. Size	Imp. Size	Length (ft)					
2.8' x 2.9'	3'x4'	2,180					
<b>G. Construction Subtotal</b> ..... \$2,120,000							
<b>H. Total Construction Cost</b> ..... \$2,760,000							
<b>I. Estimated CIP</b> ..... \$3,310,000							



<b>A. Project ID: 53</b>	<b>B. Project Name: Park &amp; Whitclem</b>						
<b>C. Project Location: Park Blvd. &amp; Whitclem Dr. to Adobe Creek</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes from the intersection of Park Blvd. & Whitclem Dr. to the Adobe Creek outfall lack the capacity required to convey 10-year storm runoff. Upsizing these pipes and installing a pump station to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>36</td> <td>88</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	18	36	88
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
18	36	88					
<b>G. Construction Subtotal ..... \$180,000</b>							
<b>H. Total Construction Cost ..... \$230,000</b>							
<b>I. Estimated CIP ..... \$280,000</b>							



<b>A. Project ID: 54</b>	<b>B. Project Name: Park &amp; Whitclem PS</b>				
<b>C. Project Location: Park Blvd &amp; Whitclem Drive</b>					
<b>D. Priority: Low</b>					
<b>E. Type: Capacity</b>					
<b>F. Project Description:</b> A new pump station near the intersection of Park Blvd. and Whitclem Dr. is recommended to provide a 10 year level of service when the water level in Adobe Creek is high.					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Capacity (cfs)</th> <th>Imp. Capacity (cfs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">19</td> </tr> </tbody> </table>		Ex. Capacity (cfs)	Imp. Capacity (cfs)	N/A	19
Ex. Capacity (cfs)	Imp. Capacity (cfs)				
N/A	19				
<b>G. Construction Subtotal ..... \$840,000</b>					
<b>H. Total Construction Cost ..... \$1,090,000</b>					
<b>I. Estimated CIP ..... \$1,310,000</b>					



**A. Project ID: 55** **B. Project Name: Parkinson & Newell**  
**C. Project Location: Parkinson Ave. at Harriet St. to Newell Rd. at Louisa Ct.**  
**D. Priority: Low**

**E. Type: Capacity**  
**F. Project Description:** The existing pipes on Parkinson Ave. and Newell Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

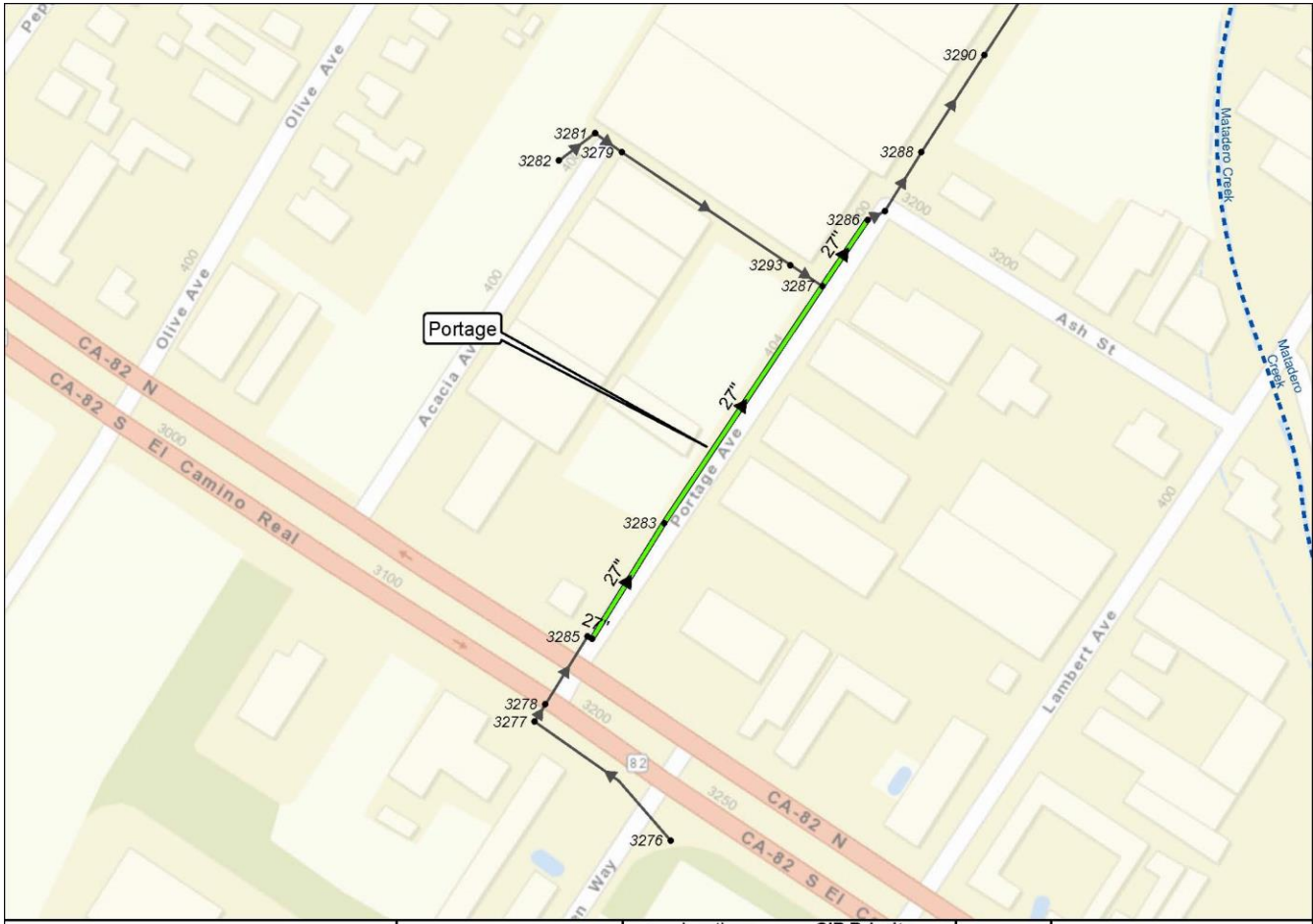
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	24	422
15	24	364
18	24	709
24	36	629
18	42	1,134

**G. Construction Subtotal** ..... **\$1,500,000**  
**H. Total Construction Cost** ..... **\$1,950,000**  
**I. Estimated CIP** ..... **\$2,340,000**



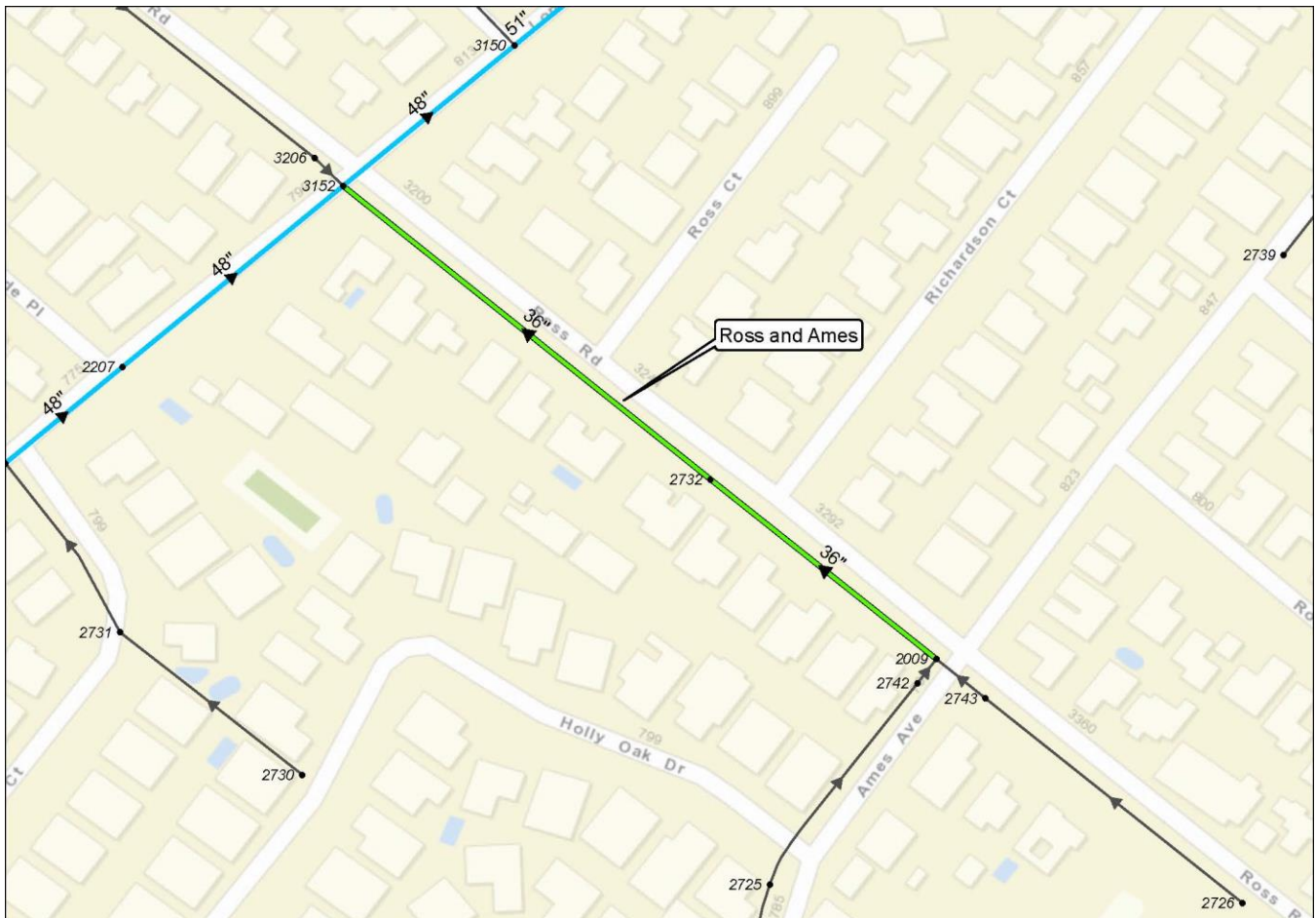
Project: Parkinson and Newell	Priority: Low	• Junctions	CIP Priority	N	Schaaf & Wheeler CONSULTING CIVIL ENGINEERS
		--- Streams	High		
		— Existing System	Moderate		
		— Other CIPs	Low		

<b>A. Project ID: 56</b>	<b>B. Project Name: Portage</b>									
<b>C. Project Location: Portage Ave. between El Camino Real and Ash St.</b>										
<b>D. Priority: Low</b>										
<b>E. Type: Capacity</b>										
<b>F. Project Description:</b> The existing pipes on Portage Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>27</td> <td>6</td> </tr> <tr> <td>15</td> <td>27</td> <td>556</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	27	6	15	27	556
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
12	27	6								
15	27	556								
<b>G. Planning/Design/Admin/Permitting ..... \$270,000</b>										
<b>H. Total Construction Cost ..... \$350,000</b>										
<b>I. Estimated CIP ..... \$420,000</b>										



Project: Portage	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: yellow;">—</span> Moderate <span style="color: green;">—</span> Low	<div style="text-align: center;">N</div>	<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 50 100 200 Feet
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<b>A. Project ID:</b> 57	<b>B. Project Name:</b> Ross & Ames									
<b>C. Project Location:</b> Ross Rd. between Ames Ave. and Loma Verde Ave.										
<b>D. Priority:</b> Low										
<b>E. Type:</b> Capacity										
<b>F. Project Description:</b> The existing pipes on Ross Rd. west of Ames Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>36</td> <td>321</td> </tr> <tr> <td>18</td> <td>36</td> <td>553</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	36	321	18	36	553
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
15	36	321								
18	36	553								
<b>G. Construction Subtotal</b> ..... \$420,000										
<b>H. Total Construction Cost</b> ..... \$550,000										
<b>I. Estimated CIP</b> ..... \$660,000										



Project: Ross and Ames	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">—</span> High</li> <li><span style="color: yellow;">—</span> Moderate</li> <li><span style="color: green;">—</span> Low</li> </ul>		<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 50 100 200 Feet
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<b>A. Project ID:</b> 58	<b>B. Project Name:</b> Ross Road to Matadero Creek									
<b>C. Project Location:</b> Ross Rd. between Allen Ct. and Matadero Creek										
<b>D. Priority:</b> Low										
<b>E. Type:</b> Capacity										
<b>F. Project Description:</b> The existing pipes on Ross Rd. west of Allen Ct. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. The new outfall to Matadero Creek allows overflow to the creek during peak flow.										
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>18</td> <td>353</td> </tr> <tr> <td>--</td> <td>48</td> <td>431</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	18	353	--	48	431
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)								
12	18	353								
--	48	431								
<b>G. Construction Subtotal</b> ..... \$440,000										
<b>H. Total Construction Cost</b> ..... \$570,000										
<b>I. Estimated CIP</b> ..... \$680,000										



A. Project ID: 59

B. Project Name: San Antonio

C. Project Location: San Antonio Rd. near Mackay Dr. to Charleston Rd.

D. Priority: Low

E. Type: Capacity

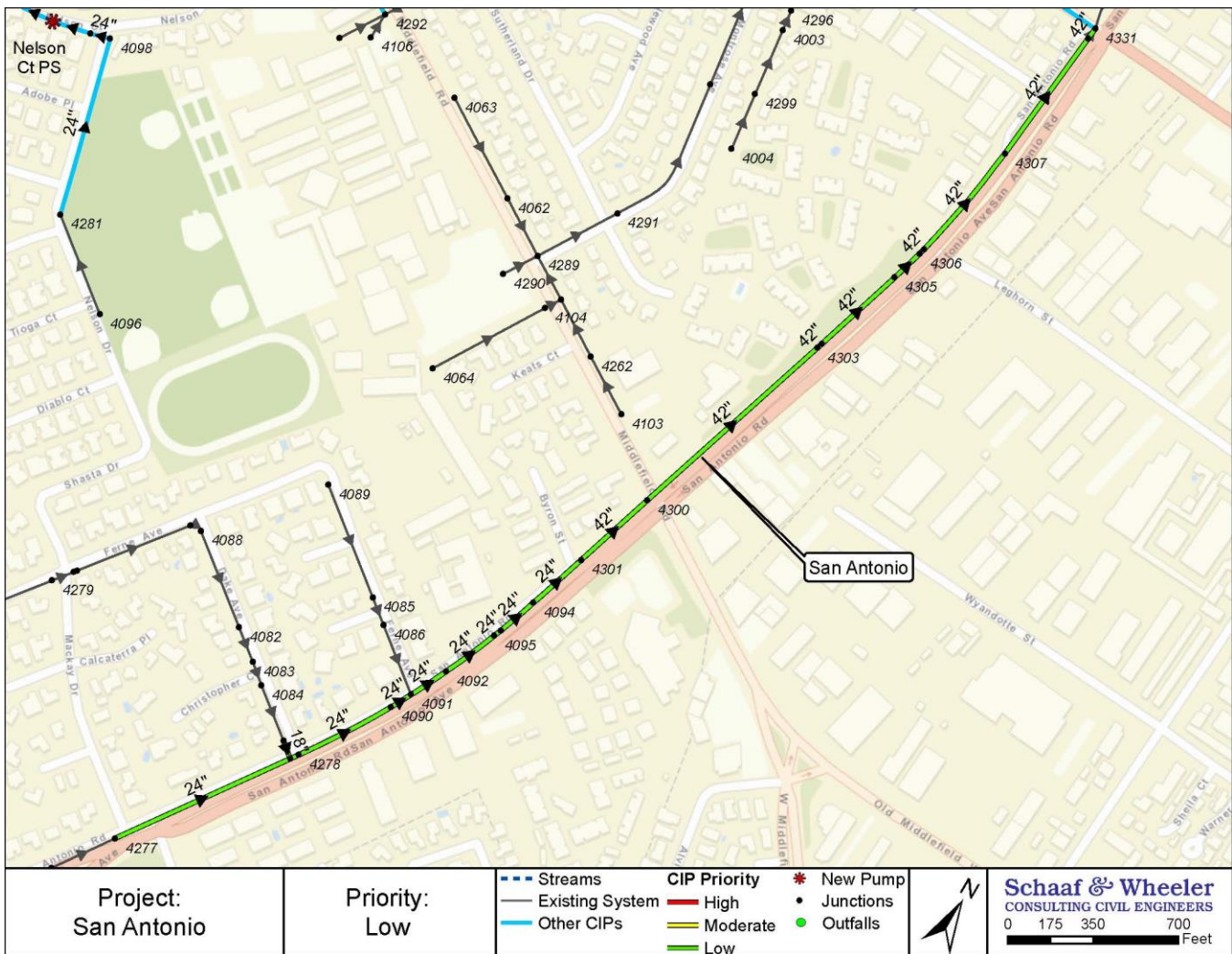
F. Project Description: The existing pipes on San Antonio Rd. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
12	18	63
12	24	627
18	24	1,152
18	42	289
27	42	2,121

G. Construction Subtotal ..... \$2,100,000

H. Total Construction Cost.....\$2,730,000

I. Estimated CIP .....\$3,280,000



A. Project ID: 60

B. Project Name: Scripps

C. Project Location: Scripps Ave. to Adobe Creek outfall

D. Priority: Low

E. Type: Capacity

F. Project Description: The existing pipes from Scripps Ave. to the Adobe Creek outfall near Creekside Dr. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
15	24	251
18	24	183
18	36	400

G. Construction Subtotal ..... \$550,000

H. Total Construction Cost.....\$720,000

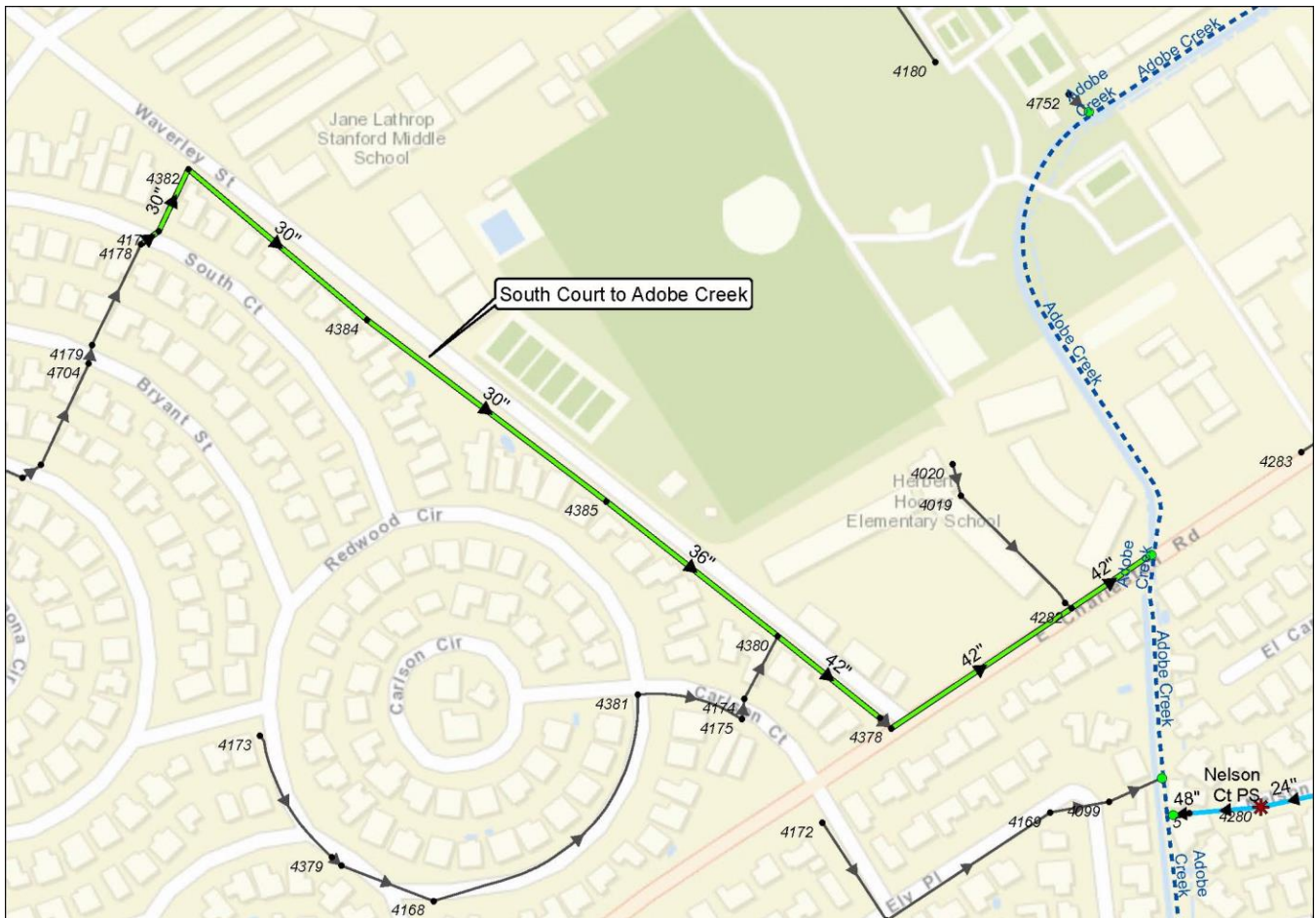
I. Estimated CIP .....\$860,000



<b>A. Project ID:</b> 61	<b>B. Project Name:</b> Scripps Pump Station				
<b>C. Project Location:</b> Creekside Dr. at Adobe Creek Outfall					
<b>D. Priority:</b> Low					
<b>E. Type:</b> Capacity					
<b>F. Project Description:</b> A new pump station near Creekside Dr. is recommended to provide a 10 year level of service when the water level in Adobe Creek is high.					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Ex. Capacity (cfs)</th> <th>Imp. Capacity (cfs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">25</td> </tr> </tbody> </table>		Ex. Capacity (cfs)	Imp. Capacity (cfs)	N/A	25
Ex. Capacity (cfs)	Imp. Capacity (cfs)				
N/A	25				
<b>G. Construction Subtotal</b> ..... \$1,090,000					
<b>H. Total Construction Cost</b> ..... \$1,420,000					
<b>I. Estimated CIP</b> ..... \$1,700,000					



<b>A. Project ID:</b> 62	<b>B. Project Name:</b> South Ct. to Adobe Creek												
<b>C. Project Location:</b> From South Ct., to Jane Lathrop Stanford Middle School, following school driveway and E. Charleston Rd. to the outfall at Adobe Creek													
<b>D. Priority:</b> Low													
<b>E. Type:</b> Capacity													
<b>F. Project Description:</b> The existing pipes running through the easement alongside the Jane Lathrop Stanford Middle School driveway and E. Charleston Rd. to the E. Charleston outfall at Adobe Creek lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>30</td> <td>1,215</td> </tr> <tr> <td>27</td> <td>36</td> <td>424</td> </tr> <tr> <td>30</td> <td>42</td> <td>862</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	21	30	1,215	27	36	424	30	42	862
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
21	30	1,215											
27	36	424											
30	42	862											
<b>G. Construction Subtotal</b> .....\$1,270,000													
<b>H. Total Construction Cost</b> .....\$1,650,000													
<b>I. Estimated CIP</b> .....\$1,980,000													



<b>Project:</b> South Court to Adobe Creek	<b>Priority:</b> Low	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: orange;">—</span> Moderate <span style="color: green;">—</span> Low	<span style="color: red;">*</span> New Pump <span style="color: black;">•</span> Junctions <span style="color: green;">•</span> Outfalls	N 	<b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 100 200 400 Feet
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A. Project ID: 63

B. Project Name: Ventura and Park

C. Project Location: Ventura Ave. and Park Blvd., to Barron Creek outfall

D. Priority: Low

E. Type: Capacity

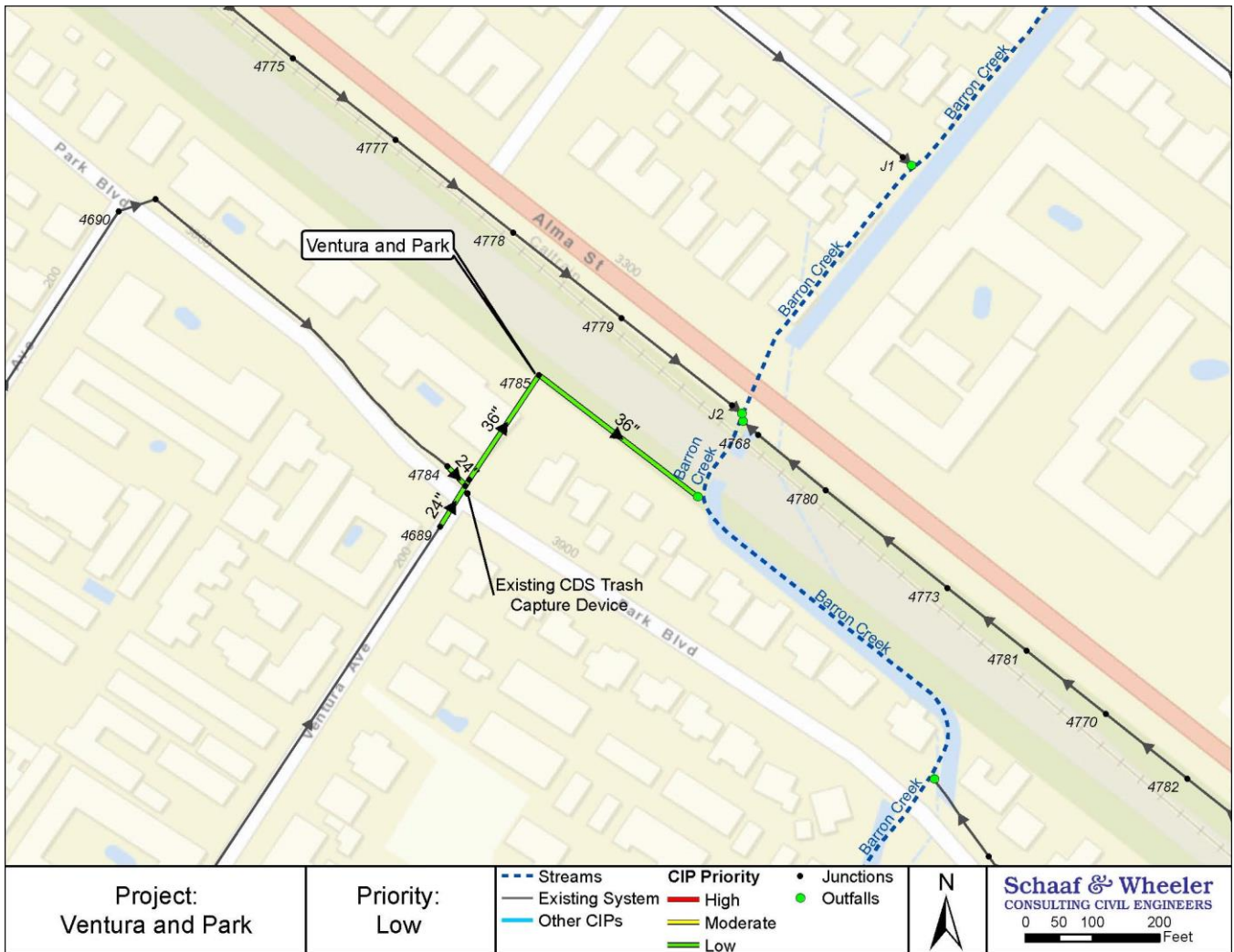
F. Project Description: The existing pipes from Ventra Ave. and Park Blvd. to the outfall at Barron Creek lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended. There is an existing CDS Trash Capture Device located at Park Blvd. and Ventura Ave.

Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)
15	24	57
18	24	31
12	36	9
21	36	385

G. Construction Subtotal ..... \$330,000

H. Total Construction Cost.....\$420,000

I. Estimated CIP .....\$500,000



Project:  
Ventura and Park

Priority:  
Low


- - - Streams  
 — Existing System  
 — Other CIPs  
 CIP Priority  
 High  
 Moderate  
 Low  
 • Junctions  
 • Outfalls



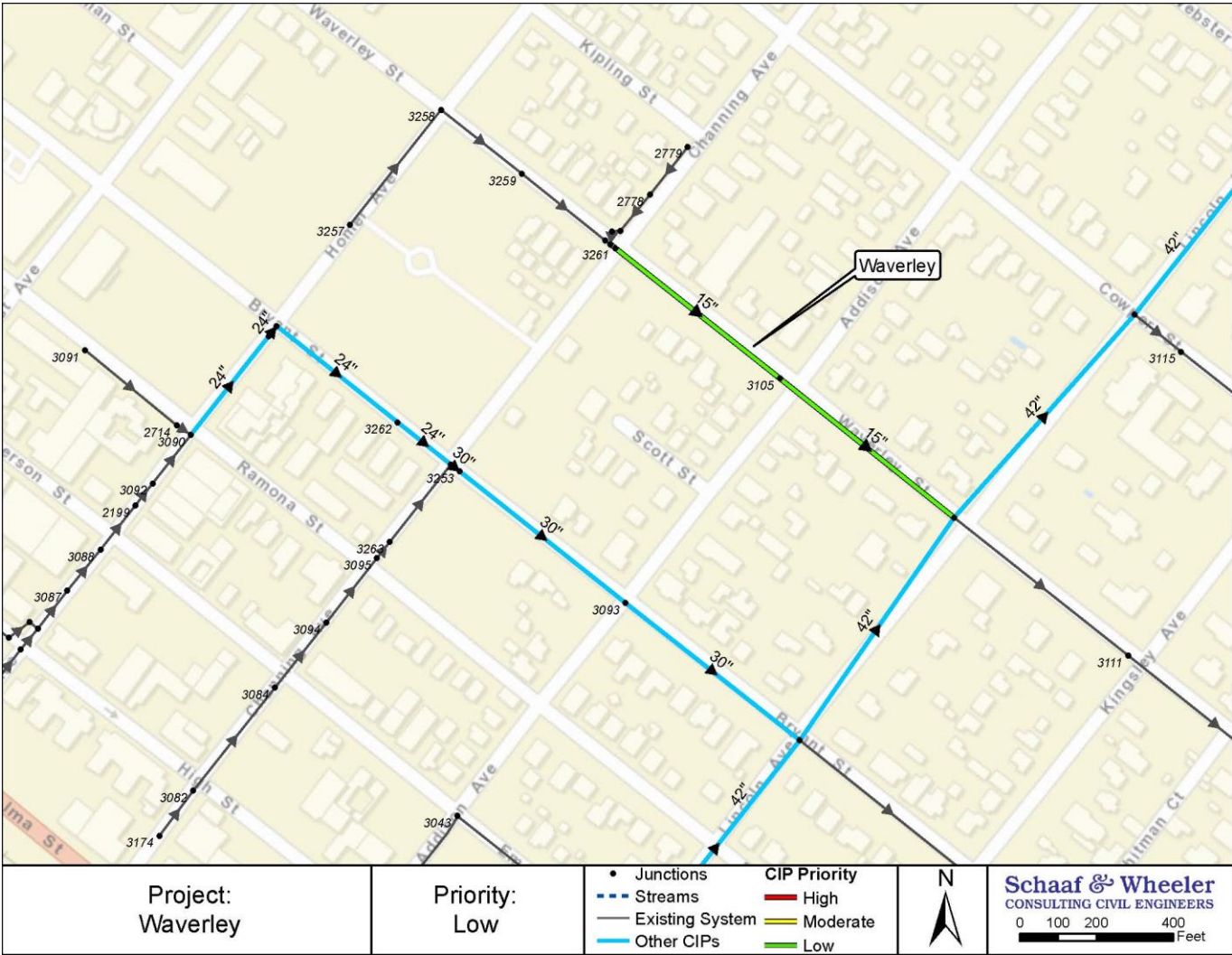
**Schaaf & Wheeler**  
 CONSULTING CIVIL ENGINEERS  
 0 50 100 200 Feet

<b>A. Project ID: 64</b>	<b>B. Project Name: Walter Hays</b>												
<b>C. Project Location: Lois Ln. to Channing Ave.</b>													
<b>D. Priority: Low</b>													
<b>E. Type: Capacity</b>													
<b>F. Project Description:</b> The existing pipes from Lois Ln., to Walter Hays Dr., and to Channing lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.													
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>48</td> <td>323</td> </tr> <tr> <td>18</td> <td>48</td> <td>408</td> </tr> <tr> <td>21</td> <td>48</td> <td>42</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	15	48	323	18	48	408	21	48	42
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)											
15	48	323											
18	48	408											
21	48	42											
<b>G. Construction Subtotal ..... \$520,000</b>													
<b>H. Total Construction Cost ..... \$680,000</b>													
<b>I. Estimated CIP ..... \$820,000</b>													



Project: Walter Hays	Priority: Low	<ul style="list-style-type: none"> <li>• Junctions</li> <li>--- Streams</li> <li>— Existing System</li> <li>— Other CIPs</li> </ul>	<b>CIP Priority</b> <span style="color: red;">—</span> High <span style="color: green;">—</span> Moderate <span style="color: blue;">—</span> Low	 <b>Schaaf &amp; Wheeler</b> CONSULTING CIVIL ENGINEERS 0 100 200 400 Feet
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<b>A. Project ID: 65</b>	<b>B. Project Name: Waverley</b>						
<b>C. Project Location: Along Waverley St. from Channing Ave. to Lincoln Ave.</b>							
<b>D. Priority: Low</b>							
<b>E. Type: Capacity</b>							
<b>F. Project Description:</b> The existing pipes on Waverley St. between Channing Ave. and Lincoln Ave. lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.							
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>15</td> <td>895</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	15	895
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)					
12	15	895					
<b>G. Construction Subtotal ..... \$290,000</b>							
<b>H. Total Construction Cost ..... \$380,000</b>							
<b>I. Estimated CIP ..... \$460,000</b>							



Project:  
Waverley

Priority:  
Low

- Junctions
  - - - Streams
  - Existing System
  - Other CIPs
- CIP Priority**
- High
  - Moderate
  - Low



**Schaaf & Wheeler**  
CONSULTING CIVIL ENGINEERS  
0 100 200 400 Feet



<b>A. Project ID:</b> 66	<b>B. Project Name:</b> Wilkie and Park																		
<b>C. Project Location:</b> Park Blvd. and Wilkie Way from Meadow Dr. to Duluth Cir.																			
<b>D. Priority:</b> Low																			
<b>E. Type:</b> Capacity																			
<b>F. Project Description:</b> The existing pipes on Park Blvd. and Wilkie Way lack the capacity required to convey 10-year storm runoff. Upsizing these pipes to achieve a 10 year level of service is recommended.																			
<table border="1"> <thead> <tr> <th>Ex. Diameter (in)</th> <th>Imp. Diameter (in)</th> <th>Length (ft)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>24</td> <td>443</td> </tr> <tr> <td>18</td> <td>24</td> <td>613</td> </tr> <tr> <td>21</td> <td>24</td> <td>135</td> </tr> <tr> <td>21</td> <td>36</td> <td>763</td> </tr> <tr> <td>27</td> <td>36</td> <td>952</td> </tr> </tbody> </table>		Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	12	24	443	18	24	613	21	24	135	21	36	763	27	36	952
Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)																	
12	24	443																	
18	24	613																	
21	24	135																	
21	36	763																	
27	36	952																	
<b>G. Construction Subtotal</b> .....	<b>\$1,420,000</b>																		
<b>H. Total Construction Cost</b> .....	<b>\$1,850,000</b>																		
<b>I. Estimated CIP</b> .....	<b>\$2,220,000</b>																		

