

**CAPITAL IMPROVEMENT PROGRAM**

**Appendix L - Capital Improvement Program  
Sanitary Sewer Master Plan  
City of Oroville**

ID <sup>(1)</sup>	Basin	Facility Type	Upstream ID	Downstream ID	Quantity	Units	Existing Diameter (Inches)	CIP Diameter (Inches)	Unit Cost <sup>(2)</sup> (\$/Unit)	Estimated Construction Cost (\$)	Estimating Contingency <sup>(3)</sup> (\$)	Engineering, Legal, Admin. <sup>(4)</sup> (\$)	Estimated Project Cost (\$)	Street Alignment	Cross Street(s)	Comments
<b>Project 1A</b>	<b>Oroville Dam Boulevard Relief Sewer</b>				<b>10,108</b>	<b>LF</b>	<b>0-15</b>	<b>8-21</b>		<b>\$ 3,820,000</b>	<b>\$ -</b>	<b>\$ 764,000</b>	<b>\$ 4,584,000</b>	<b>Oroville Dam Blvd</b>		
FUT33	9	Gravity Pipe	JJ1	FUT33	1,705	LF	---	15	\$ 270	\$ 460,000	\$ -	\$ 92,000	\$ 552,000		Stanford Ave	
FUT36	7	Gravity Pipe	GG1	FUT33	34	LF	---	8	\$ 474	\$ 16,000	\$ -	\$ 3,000	\$ 19,000			
FUT34	9	Gravity Pipe	FUT33	FUT34	837	LF	---	15	\$ 278	\$ 233,000	\$ -	\$ 47,000	\$ 280,000		Oroville Quincy Hwy	
FUT35	9	Gravity Pipe	FUT34	98	898	LF	---	18	\$ 281	\$ 252,000	\$ -	\$ 50,000	\$ 302,000		Olive Hwy	Stream Crossing
FUT37	9	Gravity Pipe	98	FUT37	3,154	LF	---	18	\$ 411	\$ 1,298,000	\$ -	\$ 260,000	\$ 1,558,000		Lincoln Blvd	Caltrans Encroachment, Stream Crossing
99_98 (1A)	7	Gravity Pipe	99	98	533	LF	15	15	\$ 404	\$ 215,000	\$ -	\$ 43,000	\$ 258,000			
FUT38	9	Gravity Pipe	FUT37	12	2,947	LF	---	21	\$ 448	\$ 1,319,000	\$ -	\$ 264,000	\$ 1,583,000		5th Ave	Caltrans Encroachment, Stream Crossing
Bypass Pumping	---	---	---	---	1	LS	---	---	---	\$ 27,000	\$ -	\$ 5,000	\$ 32,000			
			1977	2921												
<b>Project 1A-Alt</b>	<b>Mitchell Avenue Sewer</b>				<b>4,907</b>	<b>LF</b>	<b>8-18</b>	<b>12-24</b>		<b>\$ 1,655,000</b>	<b>\$ -</b>	<b>\$ 331,000</b>	<b>\$ 1,986,000</b>	<b>Mitchell Ave</b>		
15-inch Residential	9	Gravity Pipe	JJ1	82	1,977	LF	10-12	15	\$ 311	\$ 616,000	\$ -	\$ 123,000	\$ 739,000	Boynton Ave	Oroville Dam Blvd, Bridge St	
12-inch Residential	7	Gravity Pipe	FF1	W1LH	1,569	LF	8	12	\$ 304	\$ 478,000	\$ -	\$ 96,000	\$ 574,000	Mitchell Ave	Oroville Quincy Hwy, Washington Ave	
21-inch Residential	3	Gravity Pipe	68	65	791	LF	18	21	\$ 371	\$ 293,000	\$ -	\$ 59,000	\$ 352,000	Mitchell Ave/Lincoln St		
24-inch Residential	3	Gravity Pipe	62	61	570	LF	18	24	\$ 390	\$ 222,000	\$ -	\$ 44,000	\$ 266,000	Oroville Dam Blvd	UPRR	
Bypass Pumping	---	---	---	---	1	LS	---	---	---	\$ 46,000	\$ -	\$ 9,000	\$ 55,000			
<b>Project 1B</b>	<b>Stanford Avenue Sewer</b>				<b>1,315</b>	<b>LF</b>	<b>6-10</b>	<b>12-15</b>		<b>\$ 203,000</b>	<b>\$ 62,000</b>	<b>\$ 53,000</b>	<b>\$ 318,000</b>	<b>Stream</b>		
JJ24_JJ23	9	Gravity Pipe	JJ24	JJ23	356	LF	6	12	\$ 149	\$ 53,000	\$ 16,000	\$ 14,000	\$ 83,000			
JJ23_JJ22	9	Gravity Pipe	JJ23	JJ22	59	LF	6	12	\$ 149	\$ 9,000	\$ 3,000	\$ 2,000	\$ 14,000			
JJ22_JJ5	9	Gravity Pipe	JJ22	JJ5	135	LF	6	12	\$ 149	\$ 20,000	\$ 6,000	\$ 5,000	\$ 31,000			
JJ5_JJ4	9	Gravity Pipe	JJ5	JJ4	282	LF	8	12	\$ 149	\$ 42,000	\$ 13,000	\$ 11,000	\$ 66,000		Stanford Ave	
JJ4_JJ3	9	Gravity Pipe	JJ4	JJ3	257	LF	10	15	\$ 162	\$ 42,000	\$ 13,000	\$ 11,000	\$ 66,000		Oroville Dam Blvd	
JJ3_JJ1	9	Gravity Pipe	JJ3	JJ1	226	LF	10	15	\$ 162	\$ 37,000	\$ 11,000	\$ 10,000	\$ 58,000			
<b>Project 1C</b>	<b>Grace Baptist Church</b>				<b>192</b>	<b>LF</b>	<b>6</b>	<b>10</b>		<b>\$ 27,000</b>	<b>\$ 8,000</b>	<b>\$ 7,000</b>	<b>\$ 42,000</b>	<b>Grace Baptist Church</b>		
KK31_KK1	9	Gravity Pipe	KK31	KK1	132	LF	6	10	\$ 141	\$ 19,000	\$ 6,000	\$ 5,000	\$ 30,000			
KK1_JJ12	9	Gravity Pipe	KK1	JJ12	60	LF	6	10	\$ 141	\$ 8,000	\$ 2,000	\$ 2,000	\$ 12,000		Oroville Dam Blvd	
<b>Project 1D</b>	<b>Montgomery Street Sewer</b>				<b>2,154</b>	<b>LF</b>	<b>10</b>	<b>10-18</b>		<b>\$ 355,000</b>	<b>\$ 106,000</b>	<b>\$ 92,000</b>	<b>\$ 553,000</b>	<b>Montgomery St</b>		
S8_S7	5	Gravity Pipe	S8	S7	365	LF	10	18	\$ 175	\$ 64,000	\$ 19,000	\$ 17,000	\$ 100,000		Oliver St	
S7_S5	5	Gravity Pipe	S7	S5	377	LF	10	18	\$ 175	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000		Downer St	
S5_37	5	Gravity Pipe	S5	37	331	LF	10	18	\$ 175	\$ 58,000	\$ 17,000	\$ 15,000	\$ 90,000		Myers St	
S8_S6	5	Gravity Pipe	S8	S6	365	LF	10	10	\$ 141	\$ 51,000	\$ 15,000	\$ 13,000	\$ 79,000			Abandon
S6_37	5	Gravity Pipe	S6	37	716	LF	10	15	\$ 162	\$ 116,000	\$ 35,000	\$ 30,000	\$ 181,000			Abandon
<b>Project 1E</b>	<b>Table Mountain Boulevard Sewer I</b>				<b>238</b>	<b>LF</b>	<b>6</b>	<b>10</b>		<b>\$ 34,000</b>	<b>\$ 10,000</b>	<b>\$ 9,000</b>	<b>\$ 53,000</b>	<b>Table Mountain Blvd</b>		
DD2_DD1	5	Gravity Pipe	DD2	DD1	238	LF	6	10	\$ 141	\$ 34,000	\$ 10,000	\$ 9,000	\$ 53,000		UPRR	Railroad Crossing
<b>Project 1F</b>	<b>Table Mountain Boulevard Sewer II</b>				<b>2,916</b>	<b>LF</b>	<b>6-10</b>	<b>12-15</b>		<b>\$ 469,000</b>	<b>\$ 141,000</b>	<b>\$ 123,000</b>	<b>\$ 733,000</b>	<b>Table Mountain Blvd</b>		
TT9_TT8	6	Gravity Pipe	TT9	TT8	393	LF	10	15	\$ 162	\$ 64,000	\$ 19,000	\$ 17,000	\$ 100,000			
TT8_TT7	6	Gravity Pipe	TT8	TT7	272	LF	10	15	\$ 162	\$ 44,000	\$ 13,000	\$ 11,000	\$ 68,000		Nelson Ave	
TT7_TT6	6	Gravity Pipe	TT7	TT6	345	LF	10	15	\$ 162	\$ 56,000	\$ 17,000	\$ 15,000	\$ 88,000			
TT6_TT5	6	Gravity Pipe	TT6	TT5	423	LF	10	15	\$ 162	\$ 69,000	\$ 21,000	\$ 18,000	\$ 108,000		La Palma Dr	
TT5_TT4	6	Gravity Pipe	TT5	TT4	275	LF	10	15	\$ 162	\$ 45,000	\$ 14,000	\$ 12,000	\$ 71,000			
TT4_TT3	6	Gravity Pipe	TT4	TT3	398	LF	6	15	\$ 162	\$ 64,000	\$ 19,000	\$ 17,000	\$ 100,000		Grand Ave	
TT3_TT2	6	Gravity Pipe	TT3	TT2	312	LF	8	15	\$ 162	\$ 51,000	\$ 15,000	\$ 13,000	\$ 79,000			
TT2_TT1	6	Gravity Pipe	TT2	TT1	192	LF	8	15	\$ 162	\$ 31,000	\$ 9,000	\$ 8,000	\$ 48,000		Riverview Terrace	
TT1_TT1A	6	Gravity Pipe	TT1	TT1A	21	LF	8	15	\$ 162	\$ 3,000	\$ 1,000	\$ 1,000	\$ 5,000			
SS1_NN15	6	Gravity Pipe	SS1	NN15	285	LF	8	12	\$ 149	\$ 42,000	\$ 13,000	\$ 11,000	\$ 66,000			
<b>Project 1I</b>	<b>TWSD East Interceptor</b>				<b>11,829</b>	<b>LF</b>	<b>10-12</b>	<b>12-15</b>		<b>\$ 1,413,000</b>	<b>\$ 424,000</b>	<b>\$ 368,000</b>	<b>\$ 2,205,000</b>	<b>5th Ave</b>		
PP2A_TID1635	TWSD	Gravity Pipe	PP2A	TID1635	2,497	LF	10	12	\$ 149	\$ 279,000	\$ 84,000	\$ 73,000	\$ 436,000		Grand Ave	75% cost share shown, \$2.9M total
TID1635_SCOR15	TWSD	Gravity Pipe	TID1635	SCOR15	9,332	LF	12	15	\$ 162	\$ 1,134,000	\$ 340,000	\$ 295,000	\$ 1,769,000		Oroville Dam Blvd	75% cost share shown, \$2.9M total
<b>Project 2A-Alt</b>	<b>Mitchell Avenue Sewer II</b>				<b>7,418</b>	<b>LF</b>	<b>15-21</b>	<b>18-24</b>		<b>\$ 2,751,000</b>	<b>\$ -</b>	<b>\$ 550,000</b>	<b>\$ 3,301,000</b>	<b>Mitchell Ave</b>		
18-inch Residential	7	Gravity Pipe	78	69	2,182	LF	15	18	\$ 302	\$ 659,000	\$ -	\$ 132,000	\$ 791,000		Myers St	
18-inch Residential	7	Gravity Pipe	98	75	739	LF	15	18	\$ 302	\$ 223,000	\$ -	\$ 45,000	\$ 268,000	Washington Ave	Oroville Dam Blvd, Mitchell Ave	
18-inch Caltrans ROW	7	Gravity Pipe	99	98	533	LF	15	18	\$ 413	\$ 220,000	\$ -	\$ 44,000	\$ 264,000	Olive Hwy	Oroville Dam Blvd	
21-inch Residential		Gravity Pipe	69	68	428	LF	18	21	\$ 371	\$ 159,000	\$ -	\$ 32,000	\$ 191,000	Mitchell Ave	Lincoln Blvd	
21-inch through Field	3	Gravity Pipe	65	62A	1,066	LF	18	21	\$ 347	\$ 370,000	\$ -	\$ 74,000	\$ 444,000	Field	Lincoln St, Oroville Dam Blvd	

**Appendix L - Capital Improvement Program  
Sanitary Sewer Master Plan  
City of Oroville**

ID <sup>(1)</sup>	Basin	Facility Type	Upstream ID	Downstream ID	Quantity	Units	Existing Diameter (Inches)	CIP Diameter (Inches)	Unit Cost <sup>(2)</sup> (\$/Unit)	Estimated Construction Cost (\$)	Estimating Contingency <sup>(3)</sup> (\$)	Engineering, Legal, Admin. <sup>(4)</sup> (\$)	Estimated Project Cost (\$)	Street Alignment	Cross Street(s)	Comments
21-inch Caltrans ROW	3	Gravity Pipe	62A	62	100	LF	18	21	\$ 1,168	\$ 117,000	\$ -	\$ 23,000	\$ 140,000			
24-inch Residential	3	Gravity Pipe	61	12	2,370	LF	18-21	24	\$ 390	\$ 926,000	\$ -	\$ 185,000	\$ 1,111,000	Oroville Dam Blvd	Veatch St, 5th Ave	
Bypass Pumping	---	---	---	---	1	LS	---	---	---	\$ 77,000	\$ -	\$ 15,000	\$ 92,000			
<b>Project 2C</b>	<b>Grand Avenue Sewer</b>				<b>801</b>	<b>LF</b>	<b>8</b>	<b>10</b>		<b>\$ 113,000</b>	<b>\$ 35,000</b>	<b>\$ 30,000</b>	<b>\$ 178,000</b>	<b>Grand Ave</b>		
PP34_PP28	5TH	Gravity Pipe	PP34	PP28	203	LF	8	10	\$ 141	\$ 29,000	\$ 9,000	\$ 8,000	\$ 46,000			
PP28_PP27	5TH	Gravity Pipe	PP28	PP27	63	LF	8	10	\$ 141	\$ 9,000	\$ 3,000	\$ 2,000	\$ 14,000		3rd St	
PP27_PP26	5TH	Gravity Pipe	PP27	PP26	298	LF	8	10	\$ 141	\$ 42,000	\$ 13,000	\$ 11,000	\$ 66,000			
PP26_PP5	5TH	Gravity Pipe	PP26	PP5	237	LF	8	10	\$ 141	\$ 33,000	\$ 10,000	\$ 9,000	\$ 52,000		Plumas Ave	Caltrans Encroachment
<b>Project 2D</b>	<b>Downtown Sewer</b>				<b>5,413</b>	<b>LF</b>	<b>18-20</b>	<b>24</b>		<b>\$ 1,083,000</b>	<b>\$ 326,000</b>	<b>\$ 280,000</b>	<b>\$ 1,689,000</b>	<b>Montgomery St</b>		
37_36	5	Gravity Pipe	37	36	326	LF	18	24	\$ 200	\$ 65,000	\$ 20,000	\$ 17,000	\$ 102,000		Myers St	
36_35	4B	Gravity Pipe	36	35	330	LF	18	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000		Huntoon St	
35_34	4B	Gravity Pipe	35	34	325	LF	18	24	\$ 200	\$ 65,000	\$ 20,000	\$ 17,000	\$ 102,000		Lincoln St	
34_33	4B	Gravity Pipe	34	33	336	LF	18	24	\$ 200	\$ 67,000	\$ 20,000	\$ 17,000	\$ 104,000		Oak St	
33_32	4B	Gravity Pipe	33	32	292	LF	18	24	\$ 200	\$ 58,000	\$ 17,000	\$ 15,000	\$ 90,000		Pine St	
32_31	4B	Gravity Pipe	32	31	539	LF	18	24	\$ 200	\$ 108,000	\$ 32,000	\$ 28,000	\$ 168,000		1st Ave	
31_30	4B	Gravity Pipe	31	30	31	LF	18	24	\$ 200	\$ 6,000	\$ 2,000	\$ 2,000	\$ 10,000	1st Ave	Montgomery St	
30_29	4B	Gravity Pipe	30	29	331	LF	18	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000			
29_28	4B	Gravity Pipe	29	28	329	LF	18	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000			Robinson St
28_27	4B	Gravity Pipe	28	27	328	LF	20	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000	Robinson St	1st Ave	
27_26	4A	Gravity Pipe	27	26	328	LF	20	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000		2nd Ave	
26_25	4A	Gravity Pipe	26	25	333	LF	20	24	\$ 200	\$ 67,000	\$ 20,000	\$ 17,000	\$ 104,000		3rd Ave	
25_24	4A	Gravity Pipe	25	24	333	LF	20	24	\$ 200	\$ 67,000	\$ 20,000	\$ 17,000	\$ 104,000		4th Ave	
24_23	4A	Gravity Pipe	24	23	331	LF	20	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000		5th Ave	
23_22	4A	Gravity Pipe	23	22	331	LF	20	24	\$ 200	\$ 66,000	\$ 20,000	\$ 17,000	\$ 103,000		6th Ave	
22_21	4A	Gravity Pipe	22	21	590	LF	20	24	\$ 200	\$ 118,000	\$ 35,000	\$ 31,000	\$ 184,000		Feather River Blvd	
<b>Project 2E</b>	<b>Table Mountain Boulevard Sewer III</b>				<b>608</b>	<b>LF</b>	<b>10</b>	<b>15</b>		<b>\$ 98,000</b>	<b>\$ 30,000</b>	<b>\$ 26,000</b>	<b>\$ 154,000</b>	<b>Table Mountain Blvd</b>		
TT14_TT13	6	Gravity Pipe	TT14	TT13	27	LF	10	15	\$ 162	\$ 4,000	\$ 1,000	\$ 1,000	\$ 6,000		Mono Ave	
TT13_TT12	6	Gravity Pipe	TT13	TT12	301	LF	10	15	\$ 162	\$ 49,000	\$ 15,000	\$ 13,000	\$ 77,000		Flying Cloud Dr	
TT12_TT9	6	Gravity Pipe	TT12	TT9	280	LF	10	15	\$ 162	\$ 45,000	\$ 14,000	\$ 12,000	\$ 71,000			
<b>Project 2G</b>	<b>5th Avenue Sewer</b>				<b>3,947</b>	<b>LF</b>	<b>8-12</b>	<b>30</b>		<b>\$ 789,000</b>	<b>\$ 238,000</b>	<b>\$ 205,000</b>	<b>\$ 1,232,000</b>	<b>5th Ave</b>		
1M_1L	1	Gravity Pipe	1M	1L	277	LF	8	30	\$ 200	\$ 55,000	\$ 17,000	\$ 14,000	\$ 86,000		Georgia Pacific Wy	
1L_1K	1	Gravity Pipe	1L	1K	308	LF	8	30	\$ 200	\$ 62,000	\$ 19,000	\$ 16,000	\$ 97,000			
1K_1J	1	Gravity Pipe	1K	1J	344	LF	8	30	\$ 200	\$ 69,000	\$ 21,000	\$ 18,000	\$ 108,000			
1J_1H	1	Gravity Pipe	1J	1H	362	LF	8	30	\$ 200	\$ 72,000	\$ 22,000	\$ 19,000	\$ 113,000			
1H_1G	1	Gravity Pipe	1H	1G	365	LF	10	30	\$ 200	\$ 73,000	\$ 22,000	\$ 19,000	\$ 114,000			
1G_1F	1	Gravity Pipe	1G	1F	349	LF	10	30	\$ 200	\$ 70,000	\$ 21,000	\$ 18,000	\$ 109,000			
1F_1E	1	Gravity Pipe	1F	1E	364	LF	10	30	\$ 200	\$ 73,000	\$ 22,000	\$ 19,000	\$ 114,000			
1E_1D	1	Gravity Pipe	1E	1D	334	LF	12	30	\$ 200	\$ 67,000	\$ 20,000	\$ 17,000	\$ 104,000			
1D_1C	1	Gravity Pipe	1D	1C	341	LF	12	30	\$ 200	\$ 68,000	\$ 20,000	\$ 18,000	\$ 106,000			
1C_1B	1	Gravity Pipe	1C	1B	310	LF	12	30	\$ 200	\$ 62,000	\$ 19,000	\$ 16,000	\$ 97,000		Simpco Ln	
1B_1A	1	Gravity Pipe	1B	1A	302	LF	12	30	\$ 200	\$ 60,000	\$ 18,000	\$ 16,000	\$ 94,000			
1A_2	WWTP	Gravity Pipe	1A	2	291	LF	12	30	\$ 200	\$ 58,000	\$ 17,000	\$ 15,000	\$ 90,000		WTP	
<b>Project 2H</b>	<b>Airport Lift Station Upgrade</b>				<b>---</b>	<b>LF</b>	<b>---</b>	<b>---</b>		<b>\$ 152,000</b>	<b>\$ 46,000</b>	<b>\$ 40,000</b>	<b>\$ 238,000</b>	<b>Airport Pkwy</b>		
Airport LS	AIRPORT	PS-Retrofit	---	---	506	GPM	---	---	\$ 300	\$ 152,000	\$ 46,000	\$ 40,000	\$ 238,000			
<b>Project 2I</b>	<b>Feather River Blvd Sewer</b>				<b>1,038</b>	<b>LF</b>	<b>6</b>	<b>8</b>		<b>\$ 137,000</b>	<b>\$ 41,000</b>	<b>\$ 36,000</b>	<b>\$ 214,000</b>	<b>Feather River Blvd</b>		
FUT100	4A	Gravity Pipe	A3LHN	21	1,038	LF	6	8	\$ 132	\$ 137,000	\$ 41,000	\$ 36,000	\$ 214,000		Robinson St	
<b>Project 3A</b>	<b>New Georgia Pacific Lift Station</b>				<b>94</b>	<b>LF</b>	<b>---</b>	<b>---</b>		<b>\$ 1,644,000</b>	<b>\$ 493,000</b>	<b>\$ 427,000</b>	<b>\$ 2,564,000</b>	<b>5th Ave</b>		
New Georgia Pacific LS	1	PS-New/Replace	---	---	2,713	GPM	---	---	\$ 600	\$ 1,628,000	\$ 488,000	\$ 423,000	\$ 2,539,000		Georgia Pacific Wy	
FUT84	1	Force Main	FUT82	FUT81	94	LF	---	18	\$ 175	\$ 16,000	\$ 5,000	\$ 4,000	\$ 25,000			
<b>Project 3B</b>	<b>Oroville Industrial Park Sewer</b>				<b>2,799</b>	<b>LF</b>	<b>---</b>	<b>---</b>		<b>\$ 477,000</b>	<b>\$ 143,000</b>	<b>\$ 125,000</b>	<b>\$ 745,000</b>	<b>Oroville Industrial Park</b>		
FUT75	1	Gravity Pipe	FUT05	FUT75	395	LF	---	10	\$ 141	\$ 56,000	\$ 17,000	\$ 15,000	\$ 88,000		Baggett Marysville Rd	
FUT76	1	Gravity Pipe	FUT75	FUT76	498	LF	---	18	\$ 175	\$ 87,000	\$ 26,000	\$ 23,000	\$ 136,000			
FUT77	1	Gravity Pipe	FUT76	FUT80	1,906	LF	---	18	\$ 175	\$ 334,000	\$ 100,000	\$ 87,000	\$ 521,000		Pacific Heights Rd	

**Appendix L - Capital Improvement Program  
Sanitary Sewer Master Plan  
City of Oroville**

ID <sup>(1)</sup>	Basin	Facility Type	Upstream ID	Downstream ID	Quantity	Units	Existing Diameter (Inches)	CIP Diameter (Inches)	Unit Cost <sup>(2)</sup> (\$/Unit)	Estimated Construction Cost (\$)	Estimating Contingency <sup>(3)</sup> (\$)	Engineering, Legal, Admin. <sup>(4)</sup> (\$)	Estimated Project Cost (\$)	Street Alignment	Cross Street(s)	Comments
<b>Project 3B-Alt East Georgia Pacific LS and Pipeline</b>					<b>4,436</b>	<b>LF</b>				<b>\$ 1,644,000</b>	<b>\$ 493,000</b>	<b>\$ 427,000</b>	<b>\$ 2,564,000</b>	<b>Baggett Marysville Rd</b>		
FUT05	1	Gravity Pipe	FUT05	FUT67	590	LF	---	18	\$ 175	\$ 103,000	\$ 31,000	\$ 27,000	\$ 161,000		Baggett Palermo Rd	
FUT67	1	Gravity Pipe	FUT67	FUT66	1,146	LF	---	18	\$ 175	\$ 201,000	\$ 60,000	\$ 52,000	\$ 313,000			
FUT66	1	Gravity Pipe	FUT66	FUT06	676	LF	---	18	\$ 175	\$ 118,000	\$ 35,000	\$ 31,000	\$ 184,000		Georgia Pacific Wy	
FUT06	1	Gravity Pipe	FUT06	FUT69	598	LF	---	18	\$ 175	\$ 105,000	\$ 32,000	\$ 27,000	\$ 164,000	Georgia Pacific Wy	Baggett Palermo Rd	
East Georgia Pacific LS	1	PS-New/Replace	---	---	1,526	GPM	---	---	\$ 600	\$ 916,000	\$ 275,000	\$ 238,000	\$ 1,429,000			
FUT68	1	Force Main	FUT68	1M	1,425	LF	---	10	\$ 141	\$ 201,000	\$ 60,000	\$ 52,000	\$ 313,000		5th Ave	
<b>Project 3C Messina Pump Station and Pipeline Expansion</b>					<b>12,943</b>	<b>LF</b>	<b>0-0</b>	<b>8-10</b>		<b>\$ 2,246,000</b>	<b>\$ 673,000</b>	<b>\$ 583,000</b>	<b>\$ 3,502,000</b>	<b>Baggett Palermo Rd</b>		
Messina PS	1	PS-New/Replace	---	---	873	GPM	---	---	\$ 600	\$ 524,000	\$ 157,000	\$ 136,000	\$ 817,000		Messina Ave	
FUT03	1	Force Main	FUT03	FUT04	11,519	LF	---	8	\$ 132	\$ 1,521,000	\$ 456,000	\$ 395,000	\$ 2,372,000			
FUT04	1	Gravity Pipe	FUT04	FUT05	1,424	LF	---	10	\$ 141	\$ 201,000	\$ 60,000	\$ 52,000	\$ 313,000		Baggett Marysville Rd	
<b>Project 3D Rio d'Oro Pump Station and Pacific Heights Road Improvements</b>					<b>21,061</b>	<b>LF</b>	<b>---</b>	<b>10-18</b>		<b>\$ 4,010,000</b>	<b>\$ 1,204,000</b>	<b>\$ 1,043,000</b>	<b>\$ 6,257,000</b>	<b>Pacific Heights Rd</b>		
Rio d'Oro PS	1	PS-New/Replace	---	---	1,212	GPM	---	---	\$ 600	\$ 727,000	\$ 218,000	\$ 189,000	\$ 1,134,000		Rio d'Oro Development	
FUT43	1	Force Main	FUT40	FUT72	11,862	LF	---	10	\$ 141	\$ 1,673,000	\$ 502,000	\$ 435,000	\$ 2,610,000			
FUT72	1	Gravity Pipe	FUT72	FUT74	745	LF	---	18	\$ 175	\$ 130,000	\$ 39,000	\$ 34,000	\$ 203,000		Hwy 70	
FUT74	1	Gravity Pipe	FUT74	FUT73	2,879	LF	---	18	\$ 175	\$ 504,000	\$ 151,000	\$ 131,000	\$ 786,000			
FUT73	1	Gravity Pipe	FUT73	FUT81	2,222	LF	---	18	\$ 175	\$ 389,000	\$ 117,000	\$ 101,000	\$ 607,000			
FUT86	1	Gravity Pipe	FUT81	FUT86	2,069	LF	---	18	\$ 175	\$ 362,000	\$ 109,000	\$ 94,000	\$ 565,000			
FUT87	1	Gravity Pipe	FUT86	FUT80	1,284	LF	---	18	\$ 175	\$ 225,000	\$ 68,000	\$ 59,000	\$ 352,000		5th Ave	
<b>Project 3E Olive Highway Expansion I</b>					<b>12,382</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 1,635,000</b>	<b>\$ 491,000</b>	<b>\$ 425,000</b>	<b>\$ 2,551,000</b>	<b>Olive Hwy</b>		
FUT10	8	Gravity Pipe	FUT10	FUT11	2,871	LF	---	8	\$ 132	\$ 379,000	\$ 114,000	\$ 99,000	\$ 592,000		Ward Blvd	Caltrans Encroachment, Stream Crossing
FUT11	8	Gravity Pipe	FUT11	FUT12	1,740	LF	---	8	\$ 132	\$ 230,000	\$ 69,000	\$ 60,000	\$ 359,000			Caltrans Encroachment
FUT12	8	Gravity Pipe	FUT12	FUT38	1,759	LF	---	8	\$ 132	\$ 232,000	\$ 70,000	\$ 60,000	\$ 362,000			Caltrans Encroachment
FUT39	8	Gravity Pipe	FUT38	FUT20	2,982	LF	---	8	\$ 132	\$ 394,000	\$ 118,000	\$ 102,000	\$ 614,000		Dry Creek	Caltrans Encroachment, Stream Crossing
FUT20	8	Gravity Pipe	FUT20	109	3,030	LF	---	8	\$ 132	\$ 400,000	\$ 120,000	\$ 104,000	\$ 624,000		Foothill Blvd	Caltrans Encroachment, Stream Crossing
<b>Project 3F Ward Pump Station and Pipeline Expansion</b>					<b>2,807</b>	<b>LF</b>	<b>---</b>	<b>4-8</b>		<b>\$ 423,000</b>	<b>\$ 127,000</b>	<b>\$ 111,000</b>	<b>\$ 661,000</b>	<b>Ward Blvd</b>		
FUT13	8	Gravity Pipe	FUT13	FUT47	2,347	LF	---	8	\$ 132	\$ 310,000	\$ 93,000	\$ 81,000	\$ 484,000		Plumas Dr	
Ward PS	8	PS-New/Replace	---	---	102	GPM	---	---	\$ 600	\$ 61,000	\$ 18,000	\$ 16,000	\$ 95,000			
FUT46	8	Force Main	FUT46	FUT10	460	LF	---	4	\$ 114	\$ 52,000	\$ 16,000	\$ 14,000	\$ 82,000		Olive Hwy	Stream Crossing
<b>Project 3G Olive Highway Expansion II</b>					<b>2,729</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 361,000</b>	<b>\$ 108,000</b>	<b>\$ 94,000</b>	<b>\$ 563,000</b>	<b>Olive Hwy</b>		
FUT08	8	Gravity Pipe	FUT08	FUT09	1,187	LF	---	8	\$ 132	\$ 157,000	\$ 47,000	\$ 41,000	\$ 245,000		Canyon Dr	Caltrans Encroachment
FUT09	8	Gravity Pipe	FUT09	FUT10	1,542	LF	---	8	\$ 132	\$ 204,000	\$ 61,000	\$ 53,000	\$ 318,000		Ward Blvd	Caltrans Encroachment
<b>Project 3H Skyline Pump Station and Pipeline Expansion</b>					<b>960</b>	<b>LF</b>	<b>---</b>	<b>4</b>		<b>\$ 169,000</b>	<b>\$ 51,000</b>	<b>\$ 44,000</b>	<b>\$ 264,000</b>	<b>Skyline Blvd</b>		
Skyline PS	8	PS-New/Replace	---	---	100	GPM	---	---	\$ 600	\$ 60,000	\$ 18,000	\$ 16,000	\$ 94,000		Hillock Wy	
FUT101	8	Force Main	---	---	960	LF	---	4	\$ 114	\$ 109,000	\$ 33,000	\$ 28,000	\$ 170,000		Olive Hwy	Stream Crossing
<b>Project 3I Canyon Pump Station and Pipeline Expansion</b>					<b>1,246</b>	<b>LF</b>	<b>---</b>	<b>4</b>		<b>\$ 200,000</b>	<b>\$ 60,000</b>	<b>\$ 52,000</b>	<b>\$ 312,000</b>	<b>Canyon Dr</b>		
Canyon PS	8	PS-New/Replace	---	---	97	GPM	---	---	\$ 600	\$ 58,000	\$ 17,000	\$ 15,000	\$ 90,000		Almond Ave	
FUT48	8	Force Main	FUT48	FUT08	1,246	LF	---	4	\$ 114	\$ 142,000	\$ 43,000	\$ 37,000	\$ 222,000		Olive Hwy	
<b>Project 3J Olive Highway Expansion III</b>					<b>1,094</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 144,000</b>	<b>\$ 43,000</b>	<b>\$ 37,000</b>	<b>\$ 224,000</b>	<b>Olive Hwy</b>		
FUT14	8	Gravity Pipe	FUT14	FUT08	1,094	LF	---	8	\$ 132	\$ 144,000	\$ 43,000	\$ 37,000	\$ 224,000		Ridgeview Ln	Caltrans Encroachment
<b>Project 3K Heritage Oaks Pump Station and Pipeline Expansion</b>					<b>4,614</b>	<b>LF</b>	<b>---</b>	<b>4</b>		<b>\$ 609,000</b>	<b>\$ 183,000</b>	<b>\$ 159,000</b>	<b>\$ 951,000</b>	<b>Glen Dr</b>		
Heritage Oaks PS	8	PS-New/Replace	---	---	139	GPM	---	---	\$ 600	\$ 83,000	\$ 25,000	\$ 22,000	\$ 130,000		Oroville Dam Blvd	
FUT102	8	Force Main	---	---	4,614	LF	---	4	\$ 114	\$ 526,000	\$ 158,000	\$ 137,000	\$ 821,000		Meadowview Dr	
<b>Project 3L Oroville Quincy Highway Expansion</b>					<b>4,825</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 637,000</b>	<b>\$ 191,000</b>	<b>\$ 166,000</b>	<b>\$ 994,000</b>	<b>Oroville Quincy Hwy</b>		
FUT18	7	Gravity Pipe	FUT18	FUT17	1,416	LF	---	8	\$ 132	\$ 187,000	\$ 56,000	\$ 49,000	\$ 292,000		Oak Ave	
FUT17	7	Gravity Pipe	FUT17	FUT16	2,474	LF	---	8	\$ 132	\$ 327,000	\$ 98,000	\$ 85,000	\$ 510,000			
FUT16	7	Gravity Pipe	FUT16	HH5	935	LF	---	8	\$ 132	\$ 123,000	\$ 37,000	\$ 32,000	\$ 192,000		Foothill Blvd	
<b>Project 3M Dry Creek Pump Station and Pipeline Expansion</b>					<b>3,468</b>	<b>LF</b>	<b>0-6</b>	<b>4-8</b>		<b>\$ 512,000</b>	<b>\$ 154,000</b>	<b>\$ 133,000</b>	<b>\$ 799,000</b>	<b>Oroville Dam Blvd</b>		
FUT19	9	Gravity Pipe	FUT19	FUT51	876	LF	---	8	\$ 132	\$ 116,000	\$ 35,000	\$ 30,000	\$ 181,000		Oak Ave	Stream Crossing

**Appendix L - Capital Improvement Program  
Sanitary Sewer Master Plan  
City of Oroville**

ID <sup>(1)</sup>	Basin	Facility Type	Upstream ID	Downstream ID	Quantity	Units	Existing Diameter (Inches)	CIP Diameter (Inches)	Unit Cost <sup>(2)</sup> (\$/Unit)	Estimated Construction Cost (\$)	Estimating Contingency <sup>(3)</sup> (\$)	Engineering, Legal, Admin. <sup>(4)</sup> (\$)	Estimated Project Cost (\$)	Street Alignment	Cross Street(s)	Comments
Dry Creek PS	9	PS-New/Replace	---	---	115	GPM	---	---	\$ 600	\$ 69,000	\$ 21,000	\$ 18,000	\$ 108,000		Dry Creek	
FUT50	9	Force Main	FUT50	FUT52	824	LF	---	4	\$ 114	\$ 94,000	\$ 28,000	\$ 24,000	\$ 146,000			
FUT52	9	Gravity Pipe	FUT52	KK3	1,424	LF	---	8	\$ 132	\$ 188,000	\$ 56,000	\$ 49,000	\$ 293,000		Canyon Highlands Dr	
KK3_KK1	9	Gravity Pipe	KK3	KK1	344	LF	6	8	\$ 132	\$ 45,000	\$ 14,000	\$ 12,000	\$ 71,000		Grace Baptist Church	
<b>Project 3N Zepher Way Expansion</b>					<b>4,247</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 561,000</b>	<b>\$ 168,000</b>	<b>\$ 146,000</b>	<b>\$ 875,000</b>	<b>Valley View Dr</b>	<b>Lemon Hill Rd</b>	
FUT103	9	Gravity Pipe	---	---	4,247	LF	---	8	\$ 132	\$ 561,000	\$ 168,000	\$ 146,000	\$ 875,000	Zepher Wy	Oroville Dam Blvd	
<b>Project 3O Orange Avenue Sewer</b>					<b>3,019</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 664,000</b>	<b>\$ 200,000</b>	<b>\$ 173,000</b>	<b>\$ 1,037,000</b>	<b>Long Bar Rd</b>	<b>Canyon Highlands Dr</b>	
FUT32	5	Gravity Pipe	FUT32	FUT71	2,010	LF	---	8	\$ 132	\$ 265,000	\$ 80,000	\$ 69,000	\$ 414,000			
FUT71	5	Gravity Pipe	FUT71	DD3	3,019	LF	6	8	\$ 132	\$ 399,000	\$ 120,000	\$ 104,000	\$ 623,000	Orange Ave	Norton St	
<b>Project 3P Lakeland Pump Station and Pipeline Expansion</b>					<b>6,749</b>	<b>LF</b>	<b>---</b>	<b>4-8</b>		<b>\$ 860,000</b>	<b>\$ 258,000</b>	<b>\$ 224,000</b>	<b>\$ 1,342,000</b>	<b>Arrow St</b>		
Lakeland PS	5	PS-New/Replace	---	---	69	GPM	---	---	\$ 600	\$ 41,000	\$ 12,000	\$ 11,000	\$ 64,000			
FUT104	5	Force Main	---	---	3,951	LF	---	4	\$ 114	\$ 450,000	\$ 135,000	\$ 117,000	\$ 702,000		Lakeland Blvd	
FUT105	5	Gravity Pipe	---	---	1,228	LF	---	8	\$ 132	\$ 162,000	\$ 49,000	\$ 42,000	\$ 253,000			
FUT31	5	Gravity Pipe	FUT31	FUT32	1,570	LF	---	8	\$ 132	\$ 207,000	\$ 62,000	\$ 54,000	\$ 323,000	Long Bar Rd	Canyon Highlands Dr	
<b>Project 3Q Larkin Road Bypass Sewer</b>					<b>1,492</b>	<b>LF</b>	<b>---</b>	<b>8</b>		<b>\$ 197,000</b>	<b>\$ 59,000</b>	<b>\$ 51,000</b>	<b>\$ 307,000</b>	<b>Larkin Rd</b>	<b>Fresno Ave</b>	
FUT45	AIRPORT	Gravity Pipe	AP9	FUT44	1,492	LF	---	8	\$ 132	\$ 197,000	\$ 59,000	\$ 51,000	\$ 307,000		Oroville Dam Blvd	
<b>Project 3R West Oroville Dam Boulevard Expansion</b>					<b>2,969</b>	<b>LF</b>	<b>---</b>	<b>12</b>		<b>\$ 442,000</b>	<b>\$ 133,000</b>	<b>\$ 115,000</b>	<b>\$ 690,000</b>	<b>Oroville Dam Blvd</b>	<b>Larkin Rd</b>	
FUT44	RCPS	Gravity Pipe	FUT44	RCPS_WW	2,969	LF	---	12	\$ 149	\$ 442,000	\$ 133,000	\$ 115,000	\$ 690,000		Ruddy Creek PS	
<b>Project 3S Ruddy Creek Pump Station Upgrade</b>					<b>---</b>	<b>LF</b>	<b>---</b>	<b>---</b>		<b>\$ 1,742,000</b>	<b>\$ 523,000</b>	<b>\$ 453,000</b>	<b>\$ 2,718,000</b>	<b>Oroville Dam Blvd</b>		
Ruddy Creek PS II	RCPS	PS-New/Replace	---	---	2,903	GPM	---	---	\$ 600	\$ 1,742,000	\$ 523,000	\$ 453,000	\$ 2,718,000			
<b>Project 3T Martin Ranch Pump Station And Force Main</b>					<b>3,442</b>	<b>LF</b>	<b>0-6</b>	<b>6-8</b>		<b>\$ 549,000</b>	<b>\$ 165,000</b>	<b>\$ 144,000</b>	<b>\$ 858,000</b>	<b>Table Mountain Blvd</b>		
Martin Ranch PS	6	PS-New/Replace	---	---	183	GPM	---	---	\$ 600	\$ 110,000	\$ 33,000	\$ 29,000	\$ 172,000		Canal	
FUT106	6	Force Main	---	XX7	1,740	LF	---	6	\$ 123	\$ 214,000	\$ 64,000	\$ 56,000	\$ 334,000		Canal Crossing	
FUT107	6	Gravity Pipe	XX7	TT13	1,702	LF	6	8	\$ 132	\$ 225,000	\$ 68,000	\$ 59,000	\$ 352,000		Mono Ave	
Element 1: Existing System Improvements (Excludes Project 1A-Alternate)					16,923	LF	0-15	8-18		\$ 6,321,000	\$ 751,000	\$ 1,416,000	\$ 8,488,000			
Element 2: Future System Improvements (Excludes Project 2A-Alternate)					23,636	LF	8-20	10-24		\$ 2,372,000	\$ 716,000	\$ 617,000	\$ 3,705,000			
Element 3: System Expansion (Excludes Project 3A-Alternate)					92,940	LF	0-6	4-21		\$ 18,082,000	\$ 5,427,000	\$ 4,705,000	\$ 28,214,000			
<b>Total</b>					<b>133,499</b>	<b>LF</b>	<b>0-21</b>	<b>4-24</b>		<b>\$ 26,775,000</b>	<b>\$ 6,894,000</b>	<b>\$ 6,738,000</b>	<b>\$ 40,407,000</b>			