CITY OF ORANGE
PROPOSED
SEVEN-YEAR CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2013-14 THROUGH 2019-20

SUBMITTED BY
JOHN W. SIBLEY
CITY MANAGER

June 25, 2013

City of Orange

This page intentionally left blank

Proposed Seven Year Capital Improvement Program
2013 – 2014 to 2019 – 2020

Table of Contents

List of Projects by Project Name ..... Page i
List of Projects by Project Number ..... Page v
City Manager's Message ..... Page 1
Department Summary ..... Page 5
Category Summary ..... Page 19
Funding Source Summary ..... Page 31

CIP Projects Listed by Department:

- Community Development ..... Page 33
- Community Services ..... Page 37
- Fire ..... Page 49
- Information Technology ..... Page 63
- Police ..... Page 67
- Public Works
  - Engineering ..... Page 71
  - Maintenance ..... Page 117
  - Traffic ..... Page 125
  - Water ..... Page 151
- SAORA – City Manager ..... Page 173

Seven Year CIP Fund Worksheets ..... Page 183
Maintenance of Effort Calculations ..... Page 209
General Plan Conformity Finding ..... Page 213
Fund Descriptions ..... Page 221

City of Orange

This page intentionally left blank

List of Projects by Project Name

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
20165	3021	800 MHz Radio Replacement	Dennis Cole	Fire	Safety	57
11328	9645	ADA Improvements - Access Ramps	Alan Truong	Public Works,	Misc	73
14703	5011	Arterial Curb, Gutter & Sidewalk Replacements	Alan Truong	Public Works,	Road	80
14899	5022	Arterial Street Tree Replacement Program	Michael Wolfe	Public Works,	Land Use	120
20128	1601	Audio & Video Replace.-Council Chambers	Rick Otto	Information Technology	Facilities	66
20105	3022	Auto Pulse Machine Replacement	Dennis Cole	Fire	Safety	54
16077	5032	Batavia @ Taft Left Turn Signalization	Amir Farahani	Public Works, Traffic	Lighting	129
20200	9645	Bennett Ave. Overlay: Malena to W. End	Paul Tran	Public Works,	Road	110
16304	5032	Biennial City Traffic Signal Coordination	Amir Farahani	Public Works, Traffic	Lighting	133
20116	9645	Birch Ave Rehab: Main to Fairmont	Paul Tran	Public Works,	Road	96
12506	3021	Body Armor	Dennis Cole	Fire	Safety	51
20184	7021	Booster Pump Installation at City Parks	Dana Robertson	Community Services	Parks	46
20183	7021	Cerro Villa, Eisenhower, LaVeta & Shaffer MPs	Bonnie Hagan	Community Services	Parks	45
20208	5011	Chapman Ave. Rehabilitation	Randy Nguyen	Public Works,	Road	115
20192	5032	Chapman/Esplanade Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	145
20190	5032	Chapman/Hewes Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	143
13228	5011	Chapman/Tustin Critical Intersection	Randy Nguyen	Public Works,	Road	77
20114	9645	Citrus Rehab: Palm to South End	Paul Tran	Public Works,	Road	94
19809	5028	City Facility Improvements	Majid Farhat	Public Works,	Facilities	84
20202	5028	City Hall Fire Alarm	Majid Farhat	Public Works,	Road	112
20118	9645	Clark St Rehab: Maple to North End	Paul Tran	Public Works,	Road	98
20070	9645	Compton Neighborhood Street Overlay	Paul Tran	Public Works,	Road	89
12982	5028	Corporation Yard Renovation	Michael Wolfe	Public Works,	Facilities	119
20106	3022	Defibrillator Replacement	Dennis Cole	Fire	Safety	55
16031	5032	East Chapman Traffic Signal Coordination	Medel Llanes	Public Works, Traffic	Lighting	127
18925	8011	Emergency Generators	Robert Baehner	Public Works, Water	Water	169
18924	8011	Emergency Generators: Wanda/Collins	Robert Baehner	Public Works, Water	Water	168
20166	3022	EMS Gurney Replacement	Dennis Cole	Fire	Safety	58
19189	9810	Enterprise Car Sales	Barbara Messick	SAORA - City Manager	Economic	178
20171	3022	EPCR Replacement Program	Dennis Cole	Fire	Safety	61
18301	8041	Exterior Cathodic Protection Systems	Ramona Takahashi	Public Works, Water	Water	162
20204	5028	Facilities Condition Assessment	Majid Farhat	Public Works,	Facilities	114
20115	9645	Fairmont St Recon: Palm to Sycamore	Paul Tran	Public Works,	Road	95
18934	8041	Field Supervisor's Office	Robert Baehner	Public Works, Water	Water	170
20065	5032	Four Street Radar Feedback Speed Signs	Amir Farahani	Public Works, Traffic	Lighting	137
20173	5023	Fuel Management System	Michael Wolfe	Public Works,	Facilities	123
16086	5032	Glassell @ Palm Traffic Signal	Amir Farahani	Public Works, Traffic	Lighting	131
20188	5032	Glassell Corridor Traffic Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	141
20126	9645	Grand Reconstruction: La Veta Ave to South End	Paul Tran	Public Works,	Road	99

List of Projects by Project Name

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
20185	7021	Grijalva Park Outdoor Exercise Circuit	Don Equitz	Community Services	Parks	47
11606	7021	Gymnasium/Sports Center	Bonnie Hagan	Community Services	Facilities	39
20164	7021	Hart Park Picnic Shelter Renovation	Dana Robertson	Community Services	Parks	41
20071	9645	Hewes Street Alley Reconstruction	Paul Tran	Public Works,	Road	90
20069	9645	Highland Neighborhood Alley Reconstruction	Paul Tran	Public Works,	Road	88
11210	9660	HOME CHDO Allocation	Mary Ellen Laster	Community	Economic	35
11250	9660	HOME Developer Projects	Mary Ellen Laster	Community	Economic	36
19640	1601	Information Technology	Rick Otto	Information Technology	Facilities	65
20112	5022	Installation of CDS Units	Gene Estrada	Public Works,	Road	93
20154	5011	Jamboree Rd Rehab: Chapman to S. City Limit	Paul Tran	Public Works,	Road	104
20196	9645	James St. Overlay: Chapman to Palmyra	Paul Tran	Public Works,	Road	106
20073	5011	Katella/Wanda 2nd Left Turn Addition	Paul Tran	Public Works,	Road	92
20122	5032	Lincoln Ave Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	139
20072	5011	Lincoln Ave. HSIP Improvements	Randy Nguyen	Public Works,	Road	91
18225	8011	Lower Serrano Pump Station	Robert Baehner	Public Works, Water	Water	160
20191	5032	Main St. Corridor Traffic Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	144
13426	5011	Main St: 260' N/o Palmyra to 300' S/o Chapman	Medel Llanes	Public Works,	Road	78
20039	5011	Main Street Grade Separation	Frank Sun	Public Works,	Road	86
20199	9645	Malena Dr. Overlay: Chapman to N. End	Paul Tran	Public Works,	Road	109
18228	8011	Marywood Pump Station Replacement	Son Tran	Public Works, Water	Water	161
13034	5011	Meats Avenue and SR 55 Interchange Study	Frank Sun	Public Works,	Road	74
18102	8041	Meter Replacement Program	Rick Hurtado	Public Works, Water	Water	154
09005	9810	Metrolink Parking Structures	Barbara Messick	SAORA - City Manager	Economic	175
16302	5032	Minor Traffic Control Devices	Chris La Face	Public Works, Traffic	Lighting	132
12955	3021	Mobile Data Computers	Dennis Cole	Fire	Safety	53
14997	5011	Municipal Parking Lot Maintenance	Alan Truong	Public Works,	Land Use	81
12977	9810	New Fire Headquarters	Rick Otto	SAORA - City Manager	Facilities	176
20107	3021	New Fire Station 2	Dennis Cole	Fire	Safety	56
20189	5032	Newport Blvd Corridor Traffic Signal	Amir Farahani	Public Works, Traffic	Lighting	142
20203	5028	OC&PT Kitchen Remodel	Majid Farhat	Public Works,	Facilities	113
30017	9810	Orange Police Headquarters Remodel	Lisa Kim	SAORA - City Manager	Facilities	181
20141	9645	Orange Reconstruction: La Veta to South End	Paul Tran	Public Works,	Road	103
20195	9645	Palm Ave Overlay: Main to Batavia	Paul Tran	Public Works,	Road	105
20117	9645	Parker St Rehab: Maple to North End	Paul Tran	Public Works,	Road	97
13120	5011	Pavement Management Program	Alan Truong	Public Works,	Road	76
13115	5011	Pavement Management Program Survey	Randy Nguyen	Public Works,	Road	75
30009	5032	Pedestrian Countdown Signals	Doug Keys	Public Works, Traffic	Lighting	149
18400	8041	Pipeline Renewal Projects	Tuan Cao	Public Works, Water	Water	166
20182	7021	Plaza Electrical Upgrades	Dana Robertson	Community Services	Parks	44

List of Projects by Project Name

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
12103	4011	Police Facility Interior Painting	Sean O'Toole	Police	Facilities	69
19826	5028	Police HQ Exterior Wall Sealing	Majid Farhat	Public Works,	Facilities	85
12220	4011	Police Vehicle In-Car Camera System	Tom Kisela	Police	Safety	70
16065	5032	Quiet Zone & Railroad Crossing Safety	Amir Farahani	Public Works, Traffic	Road	128
20110	7021	Rancho Santiago Blvd Trail - Trail Tread Repair	Dana Robertson	Community Services	Parks	40
18324	8011	Reservoir 2A Site Remediation	Bob Baehner	Public Works, Water	Water	165
18315	8041	Reservoir 3A Construction	Son Tran	Public Works, Water	Water	164
18302	8041	Reservoir Recoating	Ramona Takahashi	Public Works, Water	Water	163
20140	9645	River Ave Rehabilitation: Glassell to East End	Paul Tran	Public Works,	Road	102
20194	5032	Safety Upgrades at 14 Uncontrolled Intersections	Dave Allenbach	Public Works, Traffic	Lighting	147
30019	7021	Santiago Cany. Rd. Multi-Purpose Trail	Dana Robertson	Community Services	Parks	48
20181	7024	Santiago Hills LAD - Calsense Installation	Don Equitz	Community Services	Parks	43
20180	7024	Santiago Hills LAD - New Efficiency Design	Don Equitz	Community Services	Parks	42
19156	9810	SC Corp OPA	Lisa Kim	SAORA - City Manager	Economic	177
20167	3021	Security Gates - Fire H.Q.	Dennis Cole	Fire	Safety	59
18101	8011	Security Improvements	Robert Baehner	Public Works, Water	Water	153
15509	5022	Sewer Cleaning and Video	Michael Wolfe	Public Works,	Facilities	121
15508	5011	Sewer Line Replacement/Maintenance	Majid Farhat	Public Works,	Road	83
20201	9645	Sherman Ave. Overlay: Malena to W. End	Paul Tran	Public Works,	Road	111
20198	9645	Shirley St. Reconstruction: Mayfair to N. End	Paul Tran	Public Works,	Road	108
19191	9810	Simon Mills Promissory Note	Lisa Kim	SAORA - City Manager	Economic	179
20205	5032	St. College/City Dr. Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	148
20186	5022	Stacey Lee & Hart Park Sewer Lifts	Michael Wolfe	Public Works,	Facilities	124
15113	5022	Storm Drain Facility Maintenance & Installation	G Estrada/R Nguyen	Public Works,	Road	82
20121	5022	Street Tree Master Plan Update	Michael Wolfe	Public Works,	Facilities	122
13816	5011	Structural Evaluation of City Bridges	Majid Farhat	Public Works,	Road	79
20206	9810	Successor Agency Property Repairs	Barbara Messick	SAORA - City Manager	Economic	180
20123	5032	Taft Ave Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	140
12540	3021	Thermal Image Cameras	Dennis Cole	Fire	Safety	52
20064	5032	Three Street Radar Feedback Speed Signs	Amir Farahani	Public Works, Traffic	Lighting	136
20136	9645	Toluca Rehabilitation: Grand to East End	Paul Tran	Public Works,	Road	101
16305	5032	Traffic Sig. Contr. & TMC Upgrades	Amir Farahani	Public Works, Traffic	Lighting	134
16469	5032	Traffic Signal Equipment Painting	Chris La Face	Public Works, Traffic	Lighting	135
20068	9645	Tularosa Neighborhood Alley Reconst. & Overlay	Paul Tran	Public Works,	Road	87
16085	5032	Tustin @ Palm Left Turn Signalization	Amir Farahani	Public Works, Traffic	Lighting	130
20111	5032	Tustin St Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	138
30012	5011	Tustin/Lincoln Intersection	Randy Nguyen	Public Works,	Road	116
20193	5032	Tustin/Mayfair Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	146
18104	8041	UCI - Master Meter Program	Son Tran	Public Works, Water	Water	155

List of Projects by Project Name

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
20135	5011	Vapor Extraction System Replacement	Majid Farhat	Public Works,	Land Use	100
20197	9645	Victoria Dr. Recons.: Mayfair to North End	Paul Tran	Public Works,	Road	107
18912	8011	Water Plant Telemetry - SCADA	Rick Hurtado	Public Works, Water	Water	167
18935	8041	Water Plant Warehouse Replacement	Rick Hurtado	Public Works, Water	Water	171
18105	8041	Water Valve Location Program - GPS	Son Tran	Public Works, Water	Water	156
18119	8011	Well 27 Construction	Son Tran	Public Works, Water	Water	157
18120	8011	Well 28 Construction	Son Tran	Public Works, Water	Water	158
18214	8011	Well Rehabilitation	Son Tran	Public Works, Water	Water	159
20169	3022	WMD-DUODOTE Auto Injectors	Dennis Cole	Fire	Safety	60

List of Projects by Project Number

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
09005	9810	Metrolink Parking Structures	Barbara Messick	SAORA - City Manager	Economic	175
11210	9660	HOME CHDO Allocation	Mary Ellen Laster	Community	Economic	35
11250	9660	HOME Developer Projects	Mary Ellen Laster	Community	Economic	36
11328	9645	ADA Improvements - Access Ramps	Alan Truong	Public Works,	Misc	73
11606	7021	Gymnasium/Sports Center	Bonnie Hagan	Community Services	Facilities	39
12103	4011	Police Facility Interior Painting	Sean O'Toole	Police	Facilities	69
12220	4011	Police Vehicle In-Car Camera System	Tom Kisela	Police	Safety	70
12506	3021	Body Armor	Dennis Cole	Fire	Safety	51
12540	3021	Thermal Image Cameras	Dennis Cole	Fire	Safety	52
12955	3021	Mobile Data Computers	Dennis Cole	Fire	Safety	53
12977	9810	New Fire Headquarters	Rick Otto	SAORA - City Manager	Facilities	176
12982	5028	Corporation Yard Renovation	Michael Wolfe	Public Works,	Facilities	119
13034	5011	Meats Avenue and SR 55 Interchange Study	Frank Sun	Public Works,	Road	74
13115	5011	Pavement Management Program Survey	Randy Nguyen	Public Works,	Road	75
13120	5011	Pavement Management Program	Alan Truong	Public Works,	Road	76
13228	5011	Chapman/Tustin Critical Intersection	Randy Nguyen	Public Works,	Road	77
13426	5011	Main St: 260' N/o Palmyra to 300' S/o Chapman	Medel Llanes	Public Works,	Road	78
13816	5011	Structural Evaluation of City Bridges	Majid Farhat	Public Works,	Road	79
14703	5011	Arterial Curb, Gutter & Sidewalk Replacements	Alan Truong	Public Works,	Road	80
14899	5022	Arterial Street Tree Replacement Program	Michael Wolfe	Public Works,	Land Use	120
14997	5011	Municipal Parking Lot Maintenance	Alan Truong	Public Works,	Land Use	81
15113	5022	Storm Drain Facility Maintenance & Installation	G Estrada/R Nguyen	Public Works,	Road	82
15508	5011	Sewer Line Replacement/Maintenance	Majid Farhat	Public Works,	Road	83
15509	5022	Sewer Cleaning and Video	Michael Wolfe	Public Works,	Facilities	121
16031	5032	East Chapman Traffic Signal Coordination	Medel Llanes	Public Works, Traffic	Lighting	127
16065	5032	Quiet Zone & Railroad Crossing Safety	Amir Farahani	Public Works, Traffic	Road	128
16077	5032	Batavia @ Taft Left Turn Signalization	Amir Farahani	Public Works, Traffic	Lighting	129
16085	5032	Tustin @ Palm Left Turn Signalization	Amir Farahani	Public Works, Traffic	Lighting	130
16086	5032	Glassell @ Palm Traffic Signal	Amir Farahani	Public Works, Traffic	Lighting	131
16302	5032	Minor Traffic Control Devices	Chris La Face	Public Works, Traffic	Lighting	132
16304	5032	Biennial City Traffic Signal Coordination	Amir Farahani	Public Works, Traffic	Lighting	133
16305	5032	Traffic Sig. Contr. & TMC Upgrades	Amir Farahani	Public Works, Traffic	Lighting	134
16469	5032	Traffic Signal Equipment Painting	Chris La Face	Public Works, Traffic	Lighting	135
18101	8011	Security Improvements	Robert Baehner	Public Works, Water	Water	153
18102	8041	Meter Replacement Program	Rick Hurtado	Public Works, Water	Water	154
18104	8041	UCI - Master Meter Program	Son Tran	Public Works, Water	Water	155
18105	8041	Water Valve Location Program - GPS	Son Tran	Public Works, Water	Water	156
18119	8011	Well 27 Construction	Son Tran	Public Works, Water	Water	157
18120	8011	Well 28 Construction	Son Tran	Public Works, Water	Water	158

List of Projects by Project Number

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
18214	8011	Well Rehabilitation	Son Tran	Public Works, Water	Water	159
18225	8011	Lower Serrano Pump Station	Robert Baehner	Public Works, Water	Water	160
18228	8011	Marywood Pump Station Replacement	Son Tran	Public Works, Water	Water	161
18301	8041	Exterior Cathodic Protection Systems	Ramona Takahashi	Public Works, Water	Water	162
18302	8041	Reservoir Recoating	Ramona Takahashi	Public Works, Water	Water	163
18315	8041	Reservoir 3A Construction	Son Tran	Public Works, Water	Water	164
18324	8011	Reservoir 2A Site Remediation	Bob Baehner	Public Works, Water	Water	165
18400	8041	Pipeline Renewal Projects	Tuan Cao	Public Works, Water	Water	166
18912	8011	Water Plant Telemetry - SCADA	Rick Hurtado	Public Works, Water	Water	167
18924	8011	Emergency Generators: Wanda/Collins	Robert Baehner	Public Works, Water	Water	168
18925	8011	Emergency Generators	Robert Baehner	Public Works, Water	Water	169
18934	8041	Field Supervisor's Office	Robert Baehner	Public Works, Water	Water	170
18935	8041	Water Plant Warehouse Replacement	Rick Hurtado	Public Works, Water	Water	171
19156	9810	SC Corp OPA	Lisa Kim	SAORA - City Manager	Economic	177
19189	9810	Enterprise Car Sales	Barbara Messick	SAORA - City Manager	Economic	178
19191	9810	Simon Mills Promissory Note	Lisa Kim	SAORA - City Manager	Economic	179
19640	1601	Information Technology	Rick Otto	Information Technology	Facilities	65
19809	5028	City Facility Improvements	Majid Farhat	Public Works,	Facilities	84
19826	5028	Police HQ Exterior Wall Sealing	Majid Farhat	Public Works,	Facilities	85
20039	5011	Main Street Grade Separation	Frank Sun	Public Works,	Road	86
20064	5032	Three Street Radar Feedback Speed Signs	Amir Farahani	Public Works, Traffic	Lighting	136
20065	5032	Four Street Radar Feedback Speed Signs	Amir Farahani	Public Works, Traffic	Lighting	137
20068	9645	Tularosa Neighborhood Alley Reconst. & Overlay	Paul Tran	Public Works,	Road	87
20069	9645	Highland Neighborhood Alley Reconstruction	Paul Tran	Public Works,	Road	88
20070	9645	Compton Neighborhood Street Overlay	Paul Tran	Public Works,	Road	89
20071	9645	Hewes Street Alley Reconstruction	Paul Tran	Public Works,	Road	90
20072	5011	Lincoln Ave. HSIP Improvements	Randy Nguyen	Public Works,	Road	91
20073	5011	Katella/Wanda 2nd Left Turn Addition	Paul Tran	Public Works,	Road	92
20105	3022	Auto Pulse Machine Replacement	Dennis Cole	Fire	Safety	54
20106	3022	Defibrillator Replacement	Dennis Cole	Fire	Safety	55
20107	3021	New Fire Station 2	Dennis Cole	Fire	Safety	56
20110	7021	Rancho Santiago Blvd Trail - Trail Tread Repair	Dana Robertson	Community Services	Parks	40
20111	5032	Tustin St Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	138
20112	5022	Installation of CDS Units	Gene Estrada	Public Works,	Road	93
20114	9645	Citrus Rehab: Palm to South End	Paul Tran	Public Works,	Road	94
20115	9645	Fairmont St Recon: Palm to Sycamore	Paul Tran	Public Works,	Road	95
20116	9645	Birch Ave Rehab: Main to Fairmont	Paul Tran	Public Works,	Road	96
20117	9645	Parker St Rehab: Maple to North End	Paul Tran	Public Works,	Road	97
20118	9645	Clark St Rehab: Maple to North End	Paul Tran	Public Works,	Road	98

List of Projects by Project Number

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
20121	5022	Street Tree Master Plan Update	Michael Wolfe	Public Works,	Facilities	122
20122	5032	Lincoln Ave Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	139
20123	5032	Taft Ave Traffic Signal Synchronization	Amir Farahani	Public Works, Traffic	Lighting	140
20126	9645	Grand Reconstruction: La Veta Ave to South End	Paul Tran	Public Works,	Road	99
20128	1601	Audio & Video Replace.-Council Chambers	Rick Otto	Information Technology	Facilities	66
20135	5011	Vapor Extraction System Replacement	Majid Farhat	Public Works,	Land Use	100
20136	9645	Toluca Rehabilitation: Grand to East End	Paul Tran	Public Works,	Road	101
20140	9645	River Ave Rehabilitation: Glassell to East End	Paul Tran	Public Works,	Road	102
20141	9645	Orange Reconstruction: La Veta to South End	Paul Tran	Public Works,	Road	103
20154	5011	Jamboree Rd Rehab: Chapman to S. City Limit	Paul Tran	Public Works,	Road	104
20164	7021	Hart Park Picnic Shelter Renovation	Dana Robertson	Community Services	Parks	41
20165	3021	800 MHz Radio Replacement	Dennis Cole	Fire	Safety	57
20166	3022	EMS Gurney Replacement	Dennis Cole	Fire	Safety	58
20167	3021	Security Gates - Fire H.Q.	Dennis Cole	Fire	Safety	59
20169	3022	WMD-DUODOTE Auto Injectors	Dennis Cole	Fire	Safety	60
20171	3022	EPCR Replacement Program	Dennis Cole	Fire	Safety	61
20173	5023	Fuel Management System	Michael Wolfe	Public Works,	Facilities	123
20180	7024	Santiago Hills LAD - New Efficiency Design	Don Equitz	Community Services	Parks	42
20181	7024	Santiago Hills LAD - Calsense Installation	Don Equitz	Community Services	Parks	43
20182	7021	Plaza Electrical Upgrades	Dana Robertson	Community Services	Parks	44
20183	7021	Cerro Villa, Eisenhower, LaVeta & Shaffer MPs	Bonnie Hagan	Community Services	Parks	45
20184	7021	Booster Pump Installation at City Parks	Dana Robertson	Community Services	Parks	46
20185	7021	Grijalva Park Outdoor Exercise Circuit	Don Equitz	Community Services	Parks	47
20186	5022	Stacey Lee & Hart Park Sewer Lifts	Michael Wolfe	Public Works,	Facilities	124
20188	5032	Glassell Corridor Traffic Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	141
20189	5032	Newport Blvd Corridor Traffic Signal	Amir Farahani	Public Works, Traffic	Lighting	142
20190	5032	Chapman/Hewes Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	143
20191	5032	Main St. Corridor Traffic Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	144
20192	5032	Chapman/Esplanade Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	145
20193	5032	Tustin/Mayfair Protected Left-turn Phasing	Medel Llanes	Public Works, Traffic	Lighting	146
20194	5032	Safety Upgrades at 14 Uncontrolled Intersections	Dave Allenbach	Public Works, Traffic	Lighting	147
20195	9645	Palm Ave Overlay: Main to Batavia	Paul Tran	Public Works,	Road	105
20196	9645	James St. Overlay: Chapman to Palmyra	Paul Tran	Public Works,	Road	106
20197	9645	Victoria Dr. Recons.: Mayfair to North End	Paul Tran	Public Works,	Road	107
20198	9645	Shirley St. Reconstruction: Mayfair to N. End	Paul Tran	Public Works,	Road	108
20199	9645	Malena Dr. Overlay: Chapman to N. End	Paul Tran	Public Works,	Road	109
20200	9645	Bennett Ave. Overlay: Malena to W. End	Paul Tran	Public Works,	Road	110
20201	9645	Sherman Ave. Overlay: Malena to W. End	Paul Tran	Public Works,	Road	111
20202	5028	City Hall Fire Alarm	Majid Farhat	Public Works,	Road	112

List of Projects by Project Number

Project Number	Program Number	Project Name	Project Manager	Department	Category	Page
20203	5028	OC&PT Kitchen Remodel	Majid Farhat	Public Works,	Facilities	113
20204	5028	Facilities Condition Assessment	Majid Farhat	Public Works,	Facilities	114
20205	5032	St. College/City Dr. Signal Synch.	Amir Farahani	Public Works, Traffic	Lighting	148
20206	9810	Successor Agency Property Repairs	Barbara Messick	SAORA - City Manager	Economic	180
20208	5011	Chapman Ave. Rehabilitation	Randy Nguyen	Public Works,	Road	115
30009	5032	Pedestrian Countdown Signals	Doug Keys	Public Works, Traffic	Lighting	149
30012	5011	Tustin/Lincoln Intersection	Randy Nguyen	Public Works,	Road	116
30017	9810	Orange Police Headquarters Remodel	Lisa Kim	SAORA - City Manager	Facilities	181
30019	7021	Santiago Cany. Rd. Multi-Purpose Trail	Dana Robertson	Community Services	Parks	48