



Public Works Commission

**Regular Meeting**  
**PUBLIC WORKS COMMISSION**  
**Agenda**  
**Thursday, May 7, 2015 at 7:00 p.m.**  
**Corporation Yard, Willow Room, 1326 Allston Way, Berkeley, CA**

7:00 pm CALL TO ORDER: Chair will call the meeting to order; Secretary will call roll.

7:05 pm PUBLIC COMMENT: Each speaker is limited to three (3) minutes.

7:20 pm APPROVAL OF MINUTES: Regular Meeting of April 2, 2015 \*

7:25 pm CHAIR REPORT: Subcommittee meetings.

7:30 pm STAFF REPORT: None

7:35 pm PRESENTATION: EBMUD Water Conservation Mandates, Richard Harris, EBMUD  
Manager of Water Conservation

8:05 pm ACTION ITEMS: (Matters for discussion and possible action)

1. Paving Subcommittee - 2017 Street Paving Plan (Larry Henry) \* \*\*
2. Undergrounding Subcommittee Report (Ray Yep) \*

9:15 pm INFORMATION ITEMS: (Action may be taken on any information item at this meeting if a majority of Commissioners votes to move it to an action item. This vote may take place at or before the time the item is scheduled to come up).

None

9:20 pm FUTURE AGENDAS:

9:30 pm ADJOURNMENT

- \* Indicates written material included in packet.
- \*\* Indicates material to be delivered at meeting.

**A complete agenda packet is available for public review at the Engineering Division front desk.**

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**ADA Disclaimer:**

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**SB 343 Disclaimer:**

Any writings or documents provided to a majority of the Commission regarding any item on this agenda will be made available for public inspection at the Public Works Department located at the address below.

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**Commission Secretary:**

Sean R. Rose, P.E., Engineering Manager/City Engineer, Public Works Engineering Division, 1947 Center St., 3rd Floor, Berkeley, CA, 94704, Telephone (510) 981-6435, Fax: (510) 981-6390  
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Public Works Commission

**Regular Meeting  
PUBLIC WORKS COMMISSION  
Action Minutes  
Thursday, April 2, 2015  
1326 Allston Way, Ratcliff Building**

**CALL TO ORDER:** 7:05 PM

Present: Swift, Neal, Elgstrand, Schueler, Kelley

Absent: Henry, Yep (both excused)

Staff: Sean Rose (PWC Secretary)

**PUBLIC COMMENT:** Mr. Marvin Snow requested documents from Public Works staff. Mr. Roger Pritchard requested public input on the bike plan. He also requested that potholes be filled on McGee from Rose to Cedar. Requested that staff purchase bicycles to ride over street repairs to test performance.

**APPROVAL OF MINUTES:** The minutes for the regular meetings of March 5, 2015 were approved as amended. (M/S/C Kelley/Swift, 5-0-0)

**CHAIR REPORT:** None.

**STAFF REPORT:** Secretary Rose informed the Commission that the City was awarded a rubberized asphalt concrete grant from CalRecycle for the installation of rubberized cape seal and rubberized hot mix asphalt in 2015.

**PRESENTATION:** Daniel Iacofano of MIG gave an informative presentation on ReStreets.org.

**ACTION ITEMS:** None.

**INFORMATION ITEMS:**

The following information items were discussed:

1. **Update from Utility Undergrounding subcommittee:** Commissioner Neal provided a summary for the Commission of the results of the March 27, 2015 utility undergrounding subcommittee meeting to discuss the referral from Councilmember Wengraf. Commissioner Yep proposed that the subcommittee collaborate with the Transportation and Disaster/Fire Safety Commission subcommittees to develop a work plan for a funding study and Council report responding to the referral. Commissioner Kelley indicated he thinks it should be a Citywide plan. Commissioner Elgstrand believes the City should look for opportunities to underground when approving private development projects.
2. **2017 Paving Plan Subcommittee meeting update:** Commissioners Swift and Henry provided a summary of the March 31, 2015 Paving Plan Subcommittee Meeting. The Commission requested that staff review the street repair policy and scorecard criteria for selecting streets, and the proposed 2017 GI projects at the next subcommittee meeting in April. Rose provided a brief summary of staff's proposed plan to pave approximately 12 miles and construct GI at several locations. Commissioner Schueler discussed the impact of the drought on the installation of GI projects requiring irrigation, and the impact of full depth reclamation on utilities. Commissioner Kelley discussed the need to be flexible with the changing policy. Commissioner Elgstrand discussed the opportunity to have private developers pave when appropriate, when private development projects disturb the pavement.

**FUTURE AGENDA TOPICS:**May

Update on drought from EBMUD  
Undergrounding subcommittee report  
2017 paving report  
Measure M outreach  
Allston monitoring

June

2017 paving plan  
Public meeting at Senior Center

**ADJOURNMENT:** 9:55 pm



**Draft -- April 24, 2015**

CONSENT CALENDAR  
July , 2015

To: Honorable Mayor and Members of the City Council  
From: Public Works Commission, Transportation Commission, and Disaster and Fire Safety Commission  
Subject: City Council Referral to Develop a Comprehensive Plan for the Funding of the Undergrounding of Utility Wires on All Major and Collector Streets in Berkeley

RECOMMENDATION

1. That Council approve a work plan, as attached hereto, to develop a comprehensive plan (Undergrounding Plan) for the funding of the undergrounding of utility wires for all streets in Berkeley, coordinating with the City's Resiliency Program, and other related City Plans and activities.
2. That Council establishes a Utility Undergrounding Task Force consisting of the Public Works Commission, Transportation Commission, and the Disaster and Fire Safety Commission representatives to oversee the preparation of the Undergrounding Plan. The Task Force will be limited to two years and with staff, will provide Council an annual update on the progress.

FISCAL IMPACTS OF RECOMMENDATION

Implementation of the work plan will require staff resources. It may also require consultant services to prepare the economic and funding analysis for the Undergrounding Plan. The amount is not yet determined.

CITY POLICY

Berkeley has established policies that prioritizes public safety and seeks to create a ready, resilient and responsive community, and an infrastructure that responds to this policy objective. In addition, the City has recently funded and begun rebuilding its decayed streets and is experimenting with using green and adaptive infrastructure.

CURRENT SITUATION AND ITS EFFECTS

Many types of disasters can affect Berkeley and can occur in different parts of the City. These can include an earthquake, woodland fire, gas line rupture, flooding, a railroad derailment carrying flammable crude oil, tsunamis, and other catastrophes. Above ground, aerial utility wires and equipment represent a significant risk to the community. When severed, they can cause fires and interrupt the access of emergency vehicles. Several examples (for example, Christchurch, New Zealand) demonstrate the significant risk the city and its residents face with the continued reliance on aerial utility infrastructure.

In addition, there are significant co-benefits from undergrounding utility facilities including better utility reliability, improved aesthetics and the opportunity to create appropriate street lighting. All these co-benefits work to increase public safety and the city's resilience.

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However, while the State provides for ratepayer funding of utility undergrounding, it is oversubscribed and effectively unavailable.

There are approximately 21 miles of major roadways, 37 miles of collectors, and \_\_\_ miles of residential streets in the City. Some of the streets, in particular the major streets, have already been undergrounded. There are many more streets that need to be done. At the Public Works Commission (PWC) meetings in early 2015, citizens have attended and expressed their desire for the City to develop a long term funding plan and to consider a city-wide approach to undergrounding. Reference was made to the City of San Diego that has a CPUC approved city-wide undergrounding program.

### BACKGROUND

The CPUC, in 1967, established Tariff Rule 20 for the conversion of overhead utility lines to underground. There are three levels of funding for electric lines, as follows:

- Rule 20A – ratepayers pay 100%
- Rule 20B – ratepayers pay about 20%; applicants pay about 80%
- Rule 20C – applicant pays 100%

Currently, funding for undergrounding utilities is not available and it will be about five years before Rule 20A funding from the California Public Utilities Commission (CPUC) will be available. The City places a priority on its ability to prepare for and recover from a natural disaster and has reviewed the role undergrounding utilities could have on enhancing the reliability of emergency access routes and reducing the hazards of fallen power lines. The issue has been addressed in the City's Hazard Mitigation Plan and the General Plan and is being considered in its Resiliency Program.

The City has been struggling for some years to establish guidelines for using the meager 20A rate payer public funds in a way that provides the greatest public benefit. The following is a chronology of previous actions:

- December 2000 – City Council requested the PWC to establish priority streets and procedures for the use of Rule 20A monies.
- November 2007 – the PWC reaffirmed that major streets are the primary emergency evacuation routes and are the priorities for undergrounding.
- May 2008 – City Council held a work session on Rule 20A utility undergrounding projects. Council requested the PWC to work with staff to develop a multi-year program to address the recommended list of streets in priority order.
- March 2009 – The PWC recommended to City Council policies for the use of Rule 20A monies and a five-year plan for undergrounding in Berkeley.

Since 2000, about \$\_\_ million of Rule 20A and \$\_\_\_\_\_ million of 20B funds have been spent or committed through 2014 on utility undergrounding.

### RATIONALE FOR RECOMMENDATION

The proposed city-wide approach to the Undergrounding Plan is based on community input at PWC meetings and upon giving the Council referral more thought. The Undergrounding Plan

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will include an evaluation of major roadways and collectors, which provide for emergency access during a natural disaster. It will also include an evaluation of residential streets, where there are concerns from citizens about woodland fires. The city-wide approach will provide for more comprehensive planning.

Recognizing that the city-wide approach will take significant time to implement, we are asking that Rule 20B projects continue to be available to interested neighborhoods.

Forming a Task Force will help with the logistics of the three commissions and will expedite the overall schedule. We recommend that the Public Works Commission be the lead commission. The Council can review the need for the Task Force on an annual basis or cancel it when the Undergrounding Plan is completed.

CITY MANAGER

TBD

CONTACT PERSON

Ray Yep, Public Works Commission

Terry Roberts, Transportation Commission

Bob Flasher, Disaster and Fire Safety Commission

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## **WORK PLAN**

### **Prepare a comprehensive plan for the funding of undergrounding utility wires on a city-wide basis in Berkeley**

#### **OBJECTIVE**

The objective of this work plan is to prepare a comprehensive approach to the organizing, planning, and implementation of an Undergrounding Plan for Berkeley.

#### **PARTICIPANTS**

The participants in preparing the plan shall include:

- A Task Force of the Public Works Commission, Transportation Commission, and Disaster and Fire Safety Commission
- Staff in the Public Works Department, Finance Department, and Fire Department
- Community input
- Consultant resources, as needed, to assist with financial, economic, and funding analysis
- City Council direction and oversight

#### **PHASED PROGRAM APPROACH**

##### Phase 1 – Program Development

Phase 1 will develop an overall approach to the undergrounding program. The activities shall include:

- Establish project goals – focus on public safety and coordination with the city’s on-going street, sidewalk and pedestrian improvement programs. Ensure coordination among the various city infrastructure projects.
- Develop baseline information – summarize Berkeley’s status on undergrounding of utilities and estimate Rule 20A funding
- Review relevant programs – summarize the status of CPUC programs, the City of San Diego’s program, Berkeley’s resiliency program and other relevant programs
- Gather public input – hold public meetings and other methods for the public to provide input
- Establish priorities – review the priorities for major roadways, collectors, and residential streets
- Prepare preliminary cost estimate – prepare a preliminary cost estimate based on cost/mile of streets.
- Prepare scope of work – prepare a detailed work scope to prepare the comprehensive Undergrounding Plan. The work scope shall identify the effort by consultants and staff resources.
- Prepare program plan – prepare an overall plan of objectives, work activities, performance measures, and reporting schedules
- Coordinate with City Council – provide updates to Council as needed



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Phase 2 – Prepare Comprehensive Funding Plan

Phase 2 will prepare the comprehensive plan for funding the undergrounding of utility wires. The activities shall include:

- Forecast availability of Rule 20A funds
- Determine alternatives for funding, including: a) using the City's long term bonding capacity to create underground conduit capacity and then require utilities lease space in it, b) increasing franchise fee surcharges as done by the City of San Diego, c) other options
- Develop the implementation priorities on major roadways, collectors, and residential streets
- Prepare a report with recommendations

Phase 3 – Program Implementation

Phase 3 will implement the recommendations.

**ESTIMATED SCHEDULE**

The following are estimated durations from the time City Council authorizes the subcommittee to proceed.

- Phase 1 – 6 months
- Phase 2 – 18 months
- Phase 3 – to be determined

5-YEAR STREET PAVING PLAN

FISCAL YEAR	STREET NAME	FROM	TO	CLASS	TREATMENT	ESTIMATED COST	ALT COST (70% of est)	GREEN INFRA	DISTRICT	P	MILEAGE SCORECARD	PCI	LAST PAVED	LAST TYPE	
2017	ADELINE ST	DERBY ST	STUART ST	A	OVERLAY	145705	145705		3	B	0.14	45	1994	O	
2017	ADELINE ST	STUART ST	ASHBY AVE	A	RECONSTRUCT	1196971	FDR 837880		3	B	0.28	5	36	1988	O
2017	CEDAR ST	EAST FRONTAGE RD (STATE P/L	4TH ST	A	RECONSTRUCT	293410	FDR 205387		1	D	0.18	10	16	1993	O
2017	CEDAR ST	4TH ST	6TH ST	A	OVERLAY	39815	39815		1	D	0.13		46	1993	O
2017	DWIGHT WAY	SACRAMENTO ST	MARTIN LUTHER KING JR WAY	A	RECONSTRUCT	704973	FDR 493481		34	C	0.50	10	33	1998	O
2017	DWIGHT WAY	MARTIN LUTHER KING JR WAY	MILVIA ST	A	SLURRY	6491	6491		34	C	0.13		76	1998	O
2017	DWIGHT WAY	MILVIA WAY	SHATTUCK AVE	A	SLURRY	7315	7315		34	C	0.13		64	1998	O
2017	HEARST AVE	MARTIN LUTHER KING JR WAY	MILVIA ST	A	SLURRY	6176	6176		4	B	0.13		66	1997	R
2017	HEARST AVE	MILVIA ST	HENRY ST	A	OVERLAY	35221	35221		4	B	0.06		46	1995	O
2017	HOPKINS ST	SACRAMENTO ST	HOPKINS CT	A	SLURRY	1790	1790		5	B	0.04		76	2002	O
2017	OXFORD ST	UNIVERSITY AVE	ADDISON ST	A	SLURRY	5694	5694		47	B	0.07		82	2002	R
2017	SACRAMENTO ST	HOPKINS ST	ROSE ST	A	SLURRY	7701	7701		15	D	0.15		77	1989	R
2017	SHATTUCK AVE	ROSE ST	VINE ST	A	RECONSTRUCT	325659	FDR 227961		5	C	0.13	10	14	1996	R
2017	SHATTUCK AVE	VINE ST	CEDAR ST	A	RECONSTRUCT	389628	FDR 272740		4	C	0.13	8	12	1996	O
2017	SHATTUCK PL	HENRY ST & ROSE ST	SHATTUCK AVE	A	RECONSTRUCT	282176	FDR 197523		5	C	0.10	10	18	1996	R
2017	SHATTUCK AVE	CEDAR ST	HEARST AVE	A	RECONSTRUCT	824016	FDR 576811		4	C	0.32	8	21	1996	O
2017	SHATTUCK AVE	HEARST AVE	UNIVERSITY AVE	A	RECONSTRUCT	334289	FDR 234002	*	4	C	0.12	1	33	1996	R
2017	BANCROFT WAY	MILVIA WAY	SHATTUCK AVE	C	OVERLAY	62651	62651		4	D	0.13		58	1989	O
2017	CEDAR ST	6TH ST	SAN PABLO AVE	C	RECONSTRUCT	595577	FDR 416904		1	D	0.31	8	10	1994	O
2017	COLUSA AVE	SOLANO AVE	MARIN AVE	C	SLURRY	8865	8865		5	B	0.13		72	1989	R
2017	COLUSA AVE	MARIN AVE	MONTEREY AVE	C	SLURRY	10850	10850		5	B	0.16		61	1986	O
2017	GRIZZLY PEAK BLVD	NORTH CITY LIMIT (SPRUCE)	EUCLID AVE	C	RECONSTRUCT	305837	FDR 214086		6	B	0.18	3	1	1990	
2017	GRIZZLY PEAK BLVD	EUCLID AVE	KEELER AVE	C	RECONSTRUCT	289214	FDR 202450		6	B	0.21	3	2	1990	
2017	GRIZZLY PEAK BLVD	KEELER AVE	MARIN AVE	C	RECONSTRUCT	396076	FDR 277253		6	B	0.27	3	0	1992	
2017	HOPKINS ST	HOPKINS CT	MONTEREY AVE	C	SLURRY	2237	2237		5	B	0.05		74	2002	O
2017	HOPKINS ST	MONTEREY AVE	MC GEE AVE	C	OVERLAY	20807	20807		5	B	0.05		55	1989	R
2017	HOPKINS ST	MC GEE AVE	CARLOTTA AVE	C	OVERLAY	27747	27747		5	B	0.06		41	1989	R
2017	HOPKINS ST	CARLOTTA AVE	JOSEPHINE ST	C	OVERLAY	192511	192511		5	B	0.35		58	1989	O
2017	HOPKINS ST	JOSEPHINE ST	THE ALAMEDA	C	OVERLAY	34683	34683	*	5	B	0.05		47	1991	R
2017	2ND ST	DELAWARE ST	HEARST AVE	R	RECONSTRUCT	152396	FDR 106677		1	D	0.09	11	0		
2017	2ND ST	HEARST AVE	UNIVERSITY AVE	R	RECONSTRUCT	163606	FDR 114524		1	D	0.09	11	33		
2017	2ND ST	UNIVERSITY AVE	ADDISON ST	R	OVERLAY	29840	29840		2	D	0.09		42	1997	O
2017	ALLSTON WAY	MILVIA ST	SHATTUCK AVE	R	OVERLAY	56588	56588		4	B	0.14		52	1990	O
2017	ALLSTON WAY	SHATTUCK AVE	OXFORD ST	R	RECONSTRUCT	144223	FDR 100956		4	D	0.11	11	16	1992	O
2017	CENTER ST	MARTIN LUTHER KING JR WAY	MILVIA ST	R	OVERLAY	69521	69521	*	4	C	0.13		45	1991	O
2017	CENTER ST	MILVIA ST	SHATTUCK AVE	R	RECONSTRUCT	304434	FDR 213104		4	B	0.14	4	32	1991	O
2017	CHANNING WAY	SACRAMENTO ST	ROOSEVELT AVE	R	RECONSTRUCT	472631	FDR 330842		4	A	0.31	7	29	1995	O
2017	CHANNING WAY	ROOSEVELT AVE	MARTIN LUTHER KING JR WAY	R	RECONSTRUCT	275000	FDR 192500		4	A	0.19	7	16	1991	O
2017	CHANNING WAY	MARTIN LUTHER KING JR WAY	MILVIA ST	R	RECONSTRUCT	189778	FDR 132845		4	A	0.13	7	26	1991	O
2017	CHANNING WAY	MILVIA ST	SHATTUCK AVE	R	RECONSTRUCT	207141	FDR 144999		4	A	0.13	7	29	1991	O
2017	FOLGER	3RD ST	HOLLIS	R	RECONSTRUCT	205334	FDR 143734		2	D	0.12	11	13		

NOTE: COLUMN P DENOTES PRESENCE OF (A) BICYCLE BOULEVARD, (B) BICYCLE ROUTE, (C) BUS ROUTE, OR (D) NONE

5-YEAR STREET PAVING PLAN

FISCAL YEAR	STREET NAME	FROM	TO	CLASS	TREATMENT	ESTIMATED COST	ALT COST (70% of est)	GREEN INFRA	DISTRICT	P	MILEAGE	SCORECARD	PCI	LAST PAVED	LAST TYPE
2017	HOPKINS ST	SAN PABLO AVE	STANNAGE AVE	R	SLURRY	5423	5423		1	D	0.09		76	2002	O
2017	HOPKINS ST	STANNAGE AVE	NORTHSIDE AVE	R	SLURRY	9923	9923		1	D	0.17		79	2002	O
2017	HOPKINS ST	NORTHSIDE AVE	PERALTA AVE	R	SLURRY	4876	4876		1	D	0.10		83	2002	O
2017	HOPKINS ST	PERALTA AVE	GILMAN ST	R	SLURRY	12902	12902		15	B	0.27		79	2002	O
2017	HOPKINS ST	GILMAN ST	SACRAMENTO ST	R	RECONSTRUCT	137653	FDR 96357		5	B	0.10	7	19	2002	O
2017	MURRAY	7TH ST	SAN PABLO AVE	R	RECONSTRUCT	262564	FDR 183795		2	D	0.25	6	4		

FISCAL YEAR 2017 TOTALS

Total Estimated Cost and Miles

\$9,257,918      \$6,722,142      7.32 miles

	MILEAGE	ESTIMATED COST	% COST	% MILEAGE		
ARTERIALS	2.71	\$4,607,030	50%	37%	1	1.38
COLLECTORS	1.95	\$1,947,055	21%	27%	2	0.46
RESIDENTIALS	2.66	\$2,703,833	29%	36%	3	0.80
					4	2.57
SLURRY SEALS	1.62	\$90,243			5	1.43
OVERLAYS	1.89	\$715,089			6	0.65
RECONSTRUCTS	4.37	\$8,452,586			7	0.03
					8	0.00
PCC STREETS	0.00	\$0				7.32
BIKE ROUTES	3.63	\$4,336,511	47%			

NOTE: COLUMN P DENOTES PRESENCE OF (A) BICYCLE BOULEVARD, (B) BICYCLE ROUTE, (C) BUS ROUTE, OR (D) NONE

5-YEAR STREET PAVING PLAN

FISCAL YEAR	STREET NAME	FROM	TO	CLASS	TREATMENT	ESTIMATED COST	ALT COST (70% of est)	GREEN INFRA	DISTRICT	P	MILEAGE	SCORECARD	PCI	LAST PAVED	LAST TYPE
2018	COLLEGE AVE	DWIGHT WAY	DERBY ST	A	SLURRY	27036	27036		78	C	0.52	67	2000	R	
2018	COLLEGE AVE	DERBY ST	ASHBY AVE	A	SLURRY	18056	18056		8	C	0.35	65	2000	R	
2018	COLLEGE AVE	ASHBY AVE	SOUTH CITY LIMIT (ALCATRAZ)	A	SLURRY	21033	21033		78	C	0.41	67	2000	R	
2018	TELEGRAPH AVE	DWIGHT WAY	WARD ST	A	RECONSTRUCT	1163263	FDR 814284		7	B	0.33	2	39	2002	O
2018	TELEGRAPH AVE	WARD ST	ASHBY AVE	A	RECONSTRUCT	1034448	FDR 724114		7	B	0.30	2	33	2002	O
2018	CLAREMONT AVE	ASHBY AVE	SOUTH CITY LIMIT (ALCATRAZ)	C	OVERLAY	422020	422020		8	C	0.57	59	1994	O	
2018	ARDEN RD	MOSSWOOD RD	PANORAMIC WAY	R	RECONSTRUCT	69896	FDR 48927		8	D	0.12	8	17		
2018	CANYON RD	PANORAMIC WAY	RIM RD (UC CAMPUS)	R	OVERLAY	18725			8	B	0.05	48	1993	R	
2018	CANYON RD	RIM RD (UC CAMPUS)	DEAD END	R	RECONSTRUCT	66803	FDR 46762		8	D	0.11	12	0		
2018	CARLETON ST	MILVIA ST	FULTON ST	R	SLURRY	14006	14006		3	D	0.27	74	1989	O	
2018	DERBY ST	MARTIN LUTHER KING JR WAY	MILVIA ST	R	SLURRY	7800	7800		3	D	0.13	90	1992	O	
2018	DERBY ST	MILVIA ST	FULTON ST	R	RECONSTRUCT	466813	FDR 326769		3	D	0.28	11	9	1992	O
2018	DERBY ST	FULTON ST	TELEGRAPH AVE	R	RECONSTRUCT	448250	FDR 313775		37	B	0.31	7	10	1992	O
2018	DERBY ST	TELEGRAPH AVE	HILLEGASS AVE	R	RECONSTRUCT	236500	FDR 165550	*	7	D	0.16	4	12	1997	O
2018	DWIGHT WAY	PANORAMIC WAY	EAST CITY LIMIT	R	SLURRY	760	760		8	D	0.02	78			
2018	ETON CT	CLAREMONT AVE	DEAD END	R	RECONSTRUCT	28646	FDR 20052		8	D	0.03	11	24		
2018	FULTON ST	PARKER ST	STUART ST	R	SLURRY	12864	12864		3	B	0.25	62	1992	O	
2018	HILLEGASS AVE	DWIGHT WAY	ASHBY AVE	R	SLURRY	31232	31232		78	A	0.61	82	2000	R	
2018	MAGNOLIA ST	ASHBY AVE	WEBSTER ST	R	SLURRY	4295	4295		8	D	0.13	60	1993	O	
2018	MILVIA ST	BLAKE ST	RUSSELL ST	R	RECONSTRUCT	643500	FDR 450450		3	A	0.44	7	22	1993	O
2018	MOSSWOOD RD	PANORAMIC WAY	DEAD END	R	RECONSTRUCT	91667	FDR 64167		8	D	0.15	8	15		
2018	PANORAMIC WAY	CANYON RD	1ST TURN	R	RECONSTRUCT	87007	FDR 60905		8	D	0.13	8	13	1998	O
2018	PANORAMIC WAY	1ST TURN	ARDEN RD	R	RECONSTRUCT	152129	FDR 106490		8	D	0.23	8	32		
2018	PANORAMIC WAY	ARDEN RD	EAST CITY LIMIT	R	RECONSTRUCT	194219	FDR 135953		8	D	0.32	8	10		
2018	PROSPECT ST	UC CAMPUS	HILLSIDE AVE	R	RECONSTRUCT	195250	FDR 136675		8	B	0.13	9	16	1993	O
2018	THE UPLANDS	CLAREMONT AVE	HILLCREST RD	R	SLURRY	16056	16056	*	8	B	0.40	74	1993	R	
2018	THE UPLANDS	HILLCREST RD	EL CAMINO REAL	R	OVERLAY	43871	43871		8	B	0.12	56	1994	O	
2018	THE UPLANDS	EL CAMINO REAL	TUNNEL RD	R	SLURRY	7104	7104		8	B	0.20	76	1994	R	
2018	WALKER ST	DERBY ST	WARD ST	R	OVERLAY	13089	13089		3	D	0.06	56			
2018	WARD ST	FULTON ST	ELLSWORTH ST	R	RECONSTRUCT	181500	FDR 181500		3	D	0.13	11	10	1992	
2018	WARD ST	ELLSWORTH ST	TELEGRAPH AVE	R	RECONSTRUCT	242000	FDR 242000		7	D	0.17	11	10	1992	

FISCAL YEAR 2018 TOTALS

Total Estimated Cost and Miles

\$5,959,838      \$4,477,596      7.40 miles

	MILEAGE	ESTIMATED COST	% COST	% MILEAGE		
ARTERIALS	1.91	\$2,263,836	38%	26%	1	0.00
COLLECTORS	0.57	\$422,020	7%	8%	2	0.00
RESIDENTIALS	4.93	\$3,273,982	55%	67%	3	1.70
					4	0.00
SLURRY SEALS	3.28	\$160,242.00			5	0.00
OVERLAYS	0.80	\$497,705.00			6	0.00
RECONSTRUCTS	3.32	\$5,301,891.00			7	1.88
					8	3.82
PCC STREETS	0.00	\$0				7.40
BIKE ROUTES	3.13	\$3,614,563.00	61%			

NOTE: COLUMN P DENOTES PRESENCE OF (A) BICYCLE BOULEVARD, (B) BICYCLE ROUTE, (C) BUS ROUTE, OR (D) NONE