



Public Works Commission

**Regular Meeting
City of Berkeley
PUBLIC WORKS COMMISSION**

**Thursday, April 5, 2018 at 7:00 p.m.
Corporation Yard, 1326 Allston Way, Berkeley, CA
Willow Room**

MEETING AGENDA

- 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.
- 7:15 pm APPROVAL OF MINUTES: Regular Meeting of January 4, February 1, and March 1, 2018 *
- 7:20 pm CHAIR REPORT:
- 7:25 pm STAFF REPORT:
- 7:30 pm ACTION ITEMS: (Matters for discussion and possible action)
1. Review the PWC meeting and public input process
 2. Feasibility Study on Mitigation of Undulating Pavement at University Avenue (West Frontage Road to Marina Boulevard)
 3. T1 Update
 - a. Consultant services to develop a Policies and Procedures Manual
 - b. 2019 GI Project
 - c. Draft Bi-Annual Report on Measure T1 City Infrastructure Bond Program*
- 8:45 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).
1. Standing Information Item: Subcommittee Reports
 - Street paving, Larry Henry*
 - T1 implementation, Margo Schueler**
 - Utility undergrounding, Ray Yep**
 - Watershed management and sanitary sewers, Nic Dominguez**
 - Sidewalks, street lighting and street sweeping, John Hitchen**
- 9:15 pm FUTURE AGENDAS:
1. Review of Watershed Management Plan

9:20 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.

ADA Disclaimer:

This meeting is being held in a wheelchair accessible location. To request a disability-related accommodation(s) to participate in the meeting, including auxiliary aids or services, please contact the Disability Services specialist at 981-6418 (V) or 981-6347 (TDD) at least three business days before the meeting date. Please refrain from wearing scented products to this meeting.

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.

Communications Disclaimer:

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Commission Secretary:

Nisha Patel, Public Works - Manager of Engineering
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Public Works Commission

Regular Meeting
PUBLIC WORKS COMMISSION
Action Minutes
Thursday, January 4, 2018
Corporation Yard, 1326 Allston Way, Berkeley, CA
Willow Room

CALL TO ORDER: 7:00 PM

Present: Schueler, Yep, Hitchen, Dominguez, Coates, Kelley, and Henry

Absent: Smith and Freiberg

Staff: Nisha Patel (Manager of Engineering/ City Engineer- PWC Secretary), Joe Enke, and John Hurtado

PUBLIC COMMENT:

1. Marvin Snow provided a copy of San Francisco’s comments on the CPUC’s Rule 20 review and asked that Berkeley be involved in the process.
2. Bill Springer attended and did not comment.

APPROVAL OF MINUTES:

The minutes from the November 2, 2017 meeting were approved. (1st motion- Yep, 2nd motion- Hitchen 7/0/0)

CHAIR REPORT:

Margo Schueler reported on the paving plan recommendations to Council in December 2017.

STAFF REPORT:

1. John Hurtado reported that people in the Belrose neighborhood want street sweeping. He described the past process for approval which included the PWC recommendation.
2. Nisha Patel reported that Health, Housing, and Community Services is requesting T1 funds to upgrade a mental health facility.
3. Street striping at Alameda and Hopkins is almost completed. Rose and green color striping had not yet been completed.
4. Joe Enke gave a report of the Shattuck/ University Permeable Bus Pad and Rose/ Hopkins bioswale project. The permeable pavement bus stop at University and Shattuck construction was to start soon.
5. Nisha Patel reported on a green infrastructure meeting staff attended on November 14.

ACTION ITEMS:

1. The commission reviewed the 2018 workplan and agreed to establish five subcommittees. (1st motion- Schueler, 2nd motion, Henry 7/0/0)

2. Subcommittee Assignments were made as read. (1st motion- Kelley, 2nd motion- Dominguez 6/0/0)
3. The commission approved the attached schedule. The July 2018 commission meeting will be changed to July 12th. (1st motion- Kelley, 2nd motion- Yep 7/0/0)
4. Ray Yep was nominated for chair and John Hitchen for vice chair of the PWC in 2018. The vote will be carried over to February 2018. (1st motion- Kelley, 2nd motion- Coates 7/0/0).
5. Nisha Patel reported on the upcoming 218 process the city was to embark on to increase taxes for storm drain and street lighting improvements For the upcoming prop 218 process to increase storm drain and street lighting fees, the Public Works Department is asking if they can use the February 1 PWC meeting as one of their public meetings. After some discussion, a motion was made for the PWC to hold its regular meeting on February 1 and to schedule a briefing on the prop 218 process. The Public Works Department shall hold a public meeting on a separate date. (1st motion- Yep, 2nd motion- Henry, abstain- Dominguez, Kelley- no 4/1/1)

INFORMATION ITEMS:

1. Standing Information Item: Subcommittee Reports
 - a) Street paving – no report.
 - b) T1 implementation – no report.
 - c) Utility Undergrounding – Ray Yep presented the Conceptual Study to Underground Utility Wires in Berkeley and asked for the PWC's approval to forward it to Council. The PWC made a motion to accept the report and to allow for minor corrections as the report is finalized. (1st motion- Kelley, 2nd motion- Coates 7/0/0)
 - d) Watershed management and sanitary sewers – no report.
 - e) Sidewalks, street lighting, street sweeping – no report.

FUTURE AGENDAS: Items for the future

Motion to ADJOURN - (1st motion- Kelley, 2nd motion- Coates 7/0/0) 10:15 pm

Commission Secretary:

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Public Works Commission

Regular Meeting
PUBLIC WORKS COMMISSION
Action Minutes
Thursday, February 1, 2018
Corporation Yard, 1326 Allston Way, Berkeley, CA
Willow Room

CALL TO ORDER: 7:01 PM

Present: Schueler, Yep, Hitchen, Henry, Frieberg, Dominguez, and Coates

Absent: Smith and Kelley

Staff: Nisha Patel (Manager of Engineering/ City Engineer- PWC Secretary)

PUBLIC COMMENT:

1. Marvin Snow commented on the proposed storm drain and street lighting fee assessments. He said that the proposed fees are high.

APPROVAL OF MINUTES:

Review of the January 2018 minutes was carried over to the March meeting.

CHAIR REPORT:

Margo Schueler reported that 2017 was a busy year. She appreciated being chair.

STAFF REPORT:

Nisha Patel reported on the following:

- Council approved moving \$2 million of T1 funds to renovate a mental health facility.
- Kyle Smith has resigned from the commission.
- The permeable pavement bus stop at University and Shattuck is scheduled for construction in February.
- She and Joe Enke attended a 2-day pavement preservation seminar
- The lower University Avenue project is reviewing options. Nisha will check if the project manager is available for the March PWC meeting.
- Anjanette Scott is leading a Prop 218 process. She can attend the PWC meeting in March or April.
- Scheduling a paving subcommittee meeting next week.

ACTION ITEMS:

1. Ray Yep was nominated for chair and John Hitchen for vice chair of the PWC in 2018. (1st motion- Henry, 2nd motion- Dominguez 7/0/0). Ray Yep provided a certification of appreciation for Margo Schueler for being chair in 2017.
2. The Commission reviewed the 2018 workplan and subcommittee assignments.

3. The Commission reviewed meetings that have been held regarding the Prop 218 process to increase storm drain and street lighting fees.
4. The Paving Subcommittee will meet on February 9th to discuss the schedule to conduct the annual paving plan review.

INFORMATION ITEMS:

1. Standing Information Item: Subcommittee Reports
 - a) Street paving – Subcommittee will meet on February 9.
 - b) T1 implementation – Subcommittee will meet in February.
 - c) Utility Undergrounding – Ray Yep provided a status report and discussed the upcoming items for the February 20th and 27th Council Meetings.
 - d) Watershed management and sanitary sewers – nothing to report.
 - e) Sidewalks, street lighting, street sweeping – requested staff check with the Transportation Commission on the status of approval of the sidewalk policy.

FUTURE AGENDAS: Items for the future

1. Storm water fee and prop 218 process
2. Lower University Avenue presentation

Motion to ADJOURN - (1st motion- Schueler, 2nd motion- Coates 7/0/0) 8:45 pm

Commission Secretary:

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Public Works Commission

Regular Meeting
PUBLIC WORKS COMMISSION
Action Minutes
Thursday, March 1, 2018
Corporation Yard, 1326 Allston Way, Berkeley, CA
Willow Room

CALL TO ORDER: 7:02 PM

Present: Schueler, Yep, Hitchen, Dominguez, Coates, and McGrath

Absent: Henry and Frieberg (excused), and Kelley

Staff: Nisha Patel (Manager of Engineering/ City Engineer- PWC Secretary), Danny Akagi, Ken Emeziem, Anjanette Scott

PUBLIC COMMENT:

1. Marvin Snow expressed appreciation for the commission's work on undergrounding.
2. Liz Varnhagen attended and did not comment.
3. Erin Diehm attended and did not comment.

APPROVAL OF MINUTES:

Review of the February 2018 minutes was carried over to the April meeting.

CHAIR REPORT:

We welcomed Jim McGrath as a new appointee to the Public Works Commission. Jim expressed interested to be on the Watershed subcommittee.

STAFF REPORT:

Nisha Patel reported on trash capture devices planned for the Gilman Street and I80 interchange. Danny Akagi reported that the permeable paver bus stop at University and Shattuck is underway. Work will then move to the Rose and Hopkins bio-swale. The design of the Woolsey cistern is finishing and construction will start this summer.

ACTION ITEMS:

1. Anjanette Scott made a presentation on the proposed storm drain and street lighting fee assessments. She provided information on the background, the funding needs, the benefits, the dates for the public meetings and the Proposition 218 process. No actions were taken.
2. Margo Schueler discussed a draft Council resolution on Measure T1. Nisha Patel reviewed the language and provided some clarifications on T1 activities. It was decided that changes in the wording are necessary. No actions were taken.

INFORMATION ITEMS:

1. Ray Yep reported that Council has been discussing holding a community survey for potential November ballot measures.
2. Standing Information Item: Subcommittee Reports
 - a) Street paving – Ray Yep reported that the paving subcommittee has met. We discussed working on the activities that the Council requested in their December 2017 meeting.
 - b) T1 implementation – this was discussed under Action items.
 - c) Utility Undergrounding – Ray Yep reported that a Council work session on utility undergrounding was held on February 20 and the topic was on the Council agenda on February 27. The Council was very appreciative of the subcommittee’s work and unanimously approved moving forward with the Phase 3 work.
 - d) Watershed management and sanitary sewers – Nic Dominguez reported that the subcommittee met. He has reviewed the existing Watershed Management Plan and the commitments that were made in the report. He asked for comments to his draft review.
 - e) Sidewalks, street lighting, street sweeping – John Hitchen reported that the subcommittee has not met yet. He asked if the Transportation Commission approved their revision of the sidewalk policy.

FUTURE AGENDAS: Items for the future

1. Process to conduct commission meetings and public input
2. T1 resolution
3. Watershed management plan review
4. Lower University Avenue presentation

Motion to ADJOURN - (1st motion- McGrath , 2nd motion- Coates 6/0/0) 9:30 pm

Commission Secretary:

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Date: April 5, 2018

To: Parks & Waterfront and Public Works Commission

From: Scott Ferris, Director, Parks, Recreation & Waterfront
Phil Harrington, Director, Public Works

Subject: Bi-Annual Report on Measure T1 City Infrastructure Bond Program

SUMMARY

This is the second bi-annual report on the implementation of the \$100 million Measure T1 bond program to renovate existing City facilities and infrastructure. On June 27, 2017, City Council approved a list of Phase 1 projects to be completed from FY 2018-FY 2021. On November 7, staff presented the [first bi-annual report](#)¹ that covered the first 4 four months of Phase 1 projects. This report provides the City Council with an update on the technical and financial progress of the T1 bond team accomplishments from November 2017 – April 2018.

CURRENT SITUATION & ITS EFFECTS

Since the last bi-annual update in November 2017, staff have completed the following:

- Issued and sold \$35 million in General Obligation bonds for Phase 1 projects of the T1 Bond Measure in November 2017. There is a three year timeline to expend 85% of these funds.
- Completed the **Tom Bates Regional Sports Complex Synthetic Turf Replacement**. This is the first T1 Bond Measure project to be completed. The grand reopening ceremony was held on March 3, 2018. Measure T1 funds allowed for the use of organic infill, concussion pads, and stronger fibers to make the field safer for all field users.

¹ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/T1%20Update%20-%20Worksession%20-%202017-11-07.pdf

- **Community Process/Input:**
 - Held public meetings to obtain input from the community for the following projects:
 - **December 13, 2017:** Grove Park
 - **February 15, 2018:** North Berkeley Senior Center
 - **March 24, 2018:** Live Oak Community Center
 - Upcoming meetings include:
 - **Tuesday, April 17th:** Tom Bates North Field House
 - **Tuesday, April 24th:** North Berkeley Senior Center Follow-up Meeting
 - **Saturday, April 28th:** University Ave, Marina Blvd, Spinnaker Way
 - **Saturday, May 19, 2018:** Strawberry Creek Park
 - **June 2018, dates to be confirmed:** San Pablo Park Play Equipment Upgrade and Tennis Court Renovations; Berkley Rose Garden Pathways, Tennis Courts, and Pergola; Berkeley Rose Garden Drainage
 - As a part of the community input process in planning for Phase 1, the Public Works and Parks, Recreation & Waterfront Commissions obtained feedback from 11 participating City commissions² on projects for this phase. Since then, staff have returned to several of the Commissions, including the Civic Arts Commission, the Landmarks Preservation Commission, the Commission on Aging and the Children, Youth, and Recreation Commission, to provide updates and/or seek additional consultation on project-specific coordination. Staff plans to attend the meetings of the remaining seven City commissions to provide an update on Measure T1 by the end of FY 2018.
 - Continued to update the Measure T1 webpage to provide the Community with updates on the status of Phase 1 projects, community meetings and events. Staff reorganized the webpage, expanded on information and included an area where community members can subscribe to webpage updates.
 - Issued a RFP for a T1 program manual, reviewed proposals, and selected a consulting firm to assist with the review of established Measure T1 bond program policies and procedures and the development of a program manual. The manual will provide staff with a framework for program management. The manual is expected to be completed by June and will be shared at the next bi-annual update in November 2018.

² Children, Youth and Recreation Commission; Civic Arts Commission; Commission on Aging; Commission on Disability; Community Environmental Advisory Commission; Disaster and Fire Safety Commission; Energy Commission; Housing Advisory Commission; Landmarks Preservation Commission; Transportation Commission; and Zero Waste Commission

- Relocated all 5 FTE T1 and Capital Projects staff in the Public Works and Parks, Recreation & Waterfront Departments to the 5th floor at 1947 Center St. A project management hub was created for the T1 team on the 5th floor to increase collaboration and productivity.
- Continued the procurement of professional consulting services needed for T1 projects. Consultant services are being procured through existing City-wide On-Call Contracts, new City-wide On-Call Contracts, and through project-specific Requests for Qualifications or Requests for Proposals based on expertise required. Procurement is expected to be continuous as projects are developed.
 - Current On-Call Contracts include:
 - Architectural Services
 - Electrical Engineering Services
 - Upcoming On-Call Contracts include:
 - Geotechnical Engineering Services (Council on 4/24)
 - Project Management/Construction Management Services (RFQ posted)
 - Civil Engineering Services - Streets & Drainage (RFQ posted)

Attachment 1 provides a list of the 34 approved [Phase 1 projects](#)³, including project description, budget, timeline, project manager, and status update. Below is a summary of projects that are currently underway:

- **City-Wide Restroom Needs Assessment:** Staff have begun a scope of work for the assessment. A RFP is expected to be released in May 2018.
- **Tom Bates Fields North Field House and Restroom Planning and Design:** A landscape architect was hired for siting and conceptual design. Conceptual design is in process. A field users meeting to obtain community input on the functionality, siting and space needs will be held on April 17, 2018.
- **Live Oak Community Center Seismic Upgrade and Renovation:** Staff engaged with a design consultant for conceptual design and to assess the renovation needs for the Center. A public meeting was held on March 24,

³ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/6-27-17%20Adopted%20list%20of%20projects.pdf

Phase 1 projects include a mix of types of projects:

- *Planning* projects will focus on public processes, feasibility studies and analyses that culminate in a preferred project plan and cost estimate. These projects will be ready for the design and construction phase when funding is identified.
- *Planning & Design* projects will include public process, design, permits and bid package, and are intended to produce shove-ready projects for a later phase of T1 funding, grant funding, or other funding.
- *Planning, Design & Construction* projects will be entirely designed and built during Phase 1.

2018 to seek feedback from the community. Staff is currently awaiting response from FEMA regarding potential additional funding.

- **North Berkeley Senior Center (NBSC) Seismic Upgrade and Renovation:** A public meeting was held on February 15, 2018 to gather input and comments from the community. Staff met with the NBSC Advisory Council on March 3, 2018 to review priorities before another follow-up public meeting anticipated to be held on April 24, 2018. Construction is expected to start in late 2018 and be completed by the first quarter of 2020.
- **Strawberry Creek Park Restroom Replacement:** Phase 1 improvements is funded by Parks Tax and PRW Capital Improvement Fund and will commence this summer. The restroom will be added to Phase 2 improvements, also funded by Parks Tax and PRW Capital Improvement Fund. A community meeting for Phase 2 improvements will be held on May 19, 2018.
- **Mental Health Building Renovation:** On January 23, 2018, Council approved [Resolution No. 68,290-N.S.](#)⁴, which authorized \$2 million from Measure T1 Phase 1 funds to renovate City of Berkeley's Adult Mental Health Clinic located at 2640 Martin Luther King Jr. Way. The total construction cost is estimated to be \$6.5M.
- **Corporation Yard Roof and Electrical Upgrade:** Electrical scoping has been completed. Staff is entering into a contract with an on-call electrical consultant.
- **Marina Corporation Yard Electrical Upgrade:** Electrical scoping has been completed. Staff is entering into a contract with an on-call electrical consultant.
- **Berkeley Municipal Pier Planning and Design:** A draft study and conceptual design alternatives were presented for discussion at the Parks & Waterfront commission meeting in January 2018. A notice to proceed was issued to a design/planning consultant for a ferry study.
- **Rose Garden Drainage:** Staff met with the design consultant and property owner to complete a field review at Cordonices Creek and the Rose Garden. Proposal for preparing the plans, specifications and estimate and environmental permitting was received. Construction is anticipated to start in the spring of 2019.

⁴ See <https://www.cityofberkeley.info/recordsonline/export/17556932.pdf>

- **Rose Garden Pathways, Tennis Courts, and Pergola:** Work for the pathways and tennis courts has been bundled with Phase 2 of the Pergola Replacement and ADA renovation project. The goal is to leverage other funding sources, combine design effort, and consolidate construction time and park closures. Staff met with the LPC Subcommittee to resume coordination from previous Phase 1 work. Construction is anticipated to start July 2019. Survey work and Schematic Design is currently in progress.
- **Citywide Irrigation System:** A RFP was released in December 2017, and proposals were received in January 2018. The vendor has been selected and the contract is anticipated to be in place by May 2018. Installation of the system, testing, and training for the pilot sites are expected to be completed by October 2018 with full implementation anticipated in Summer 2019.
- **Grove Park Field and Restroom Renovation:** A public meeting was held on December 13, 2017. Staff responded to questions regarding the proposed construction timeline and discussed preliminary scope with the community, which lead to clear feedback of priorities on the proposed work. A RFP is expected to be posted in the summer of 2018 to retain a design consultant.
- **San Pablo Park Play Equipment Upgrade and San Pablo Park Tennis Courts Renovation:** Staff recommends combining these projects to leverage the design process and consolidate construction timelines. A RFP is expected to be released in the Summer of 2018 for a design consultant.
- **King School Park Green Infrastructure:** There are concerns that the proposed location of the bio swale would severely impact street trees. Alternate locations are being studied and will be proposed to Public Works and Parks, Recreation and Waterfront commissions in April.
- **2nd Street, Adeline Street, Monterey Avenue, and Ward Street:** Staff is confirming scope, cost estimates, and utility coordination.
- **Hearst Avenue, Hopkins Street, and Bancroft Way:** Staff is confirming scope, cost estimates, and utility coordination.
- **University Avenue (West Frontage Road to Marina Boulevard), Marina Boulevard and Spinnaker Way:** Design proposals have been received. Staff is in the process of awarding a contract to complete final design. A community meeting will be held on April 28, 2018.

The following projects are scheduled to start in FY 2019:

- **Old City Hall/ Veteran's Building/ Civic Center Park Conceptual Design**
- **West Berkeley Service Center Planning and Conceptual Design**
- **Frances Albrier Community Center Planning and Design**
- **Willard Clubhouse Planning and Design**
- **Berkeley Health Clinic Electrical Improvements**
- **Public Safety Building Mechanical and HVAC Efficiency Improvements**
- **Aquatic Park Tide Tubes**
- **George Florence Mini-Park Play Equipment Upgrade**

DISCUSSION

As Phase 1 projects progress, several issues will require ongoing monitoring and discussion.

1. **Construction Costs:** In addition to a strong economy, the California wildfires of Fall/Winter 2017 have further strained the labor shortage in the construction industry. Construction bids throughout the City have come in higher than expected and costs are anticipated to continue to rise.
2. **Difference between Phase 1 budget and bond issue:** As discussed in the November 6, 2017 Bi-Annual report, Council authorized \$37.365 million for phase 1 projects. The funds available for T1 projects is \$35 million due to bond sale limits. This limit is set by the terms of the bond program which requires that the upper limit of bond sales cannot exceed the total debt covered by the current 10-year average tax rate for a Berkeley resident.
3. **Additional Projects Added:** In January 2018, Council authorized T1 funds to be used for the Mental Health Building Renovation project. This action raised the City's total estimated Phase 1 costs to \$39.365 million; however, the City was limited to selling \$35 million in bonds to complete these projects. No action is required at this time, but continued monitoring of project budgets will be needed.
4. **Additional Funding Sources:** Staff continues to pursue grants and other funding sources to mitigate the gap between the Council-authorized budget and

actual funding. For instance, the Transfer Station Master Plan will be funded by the Zero Waste Program instead.

- 5. Sequencing of Phase 1 projects:** Under federal tax law, 85% of funds are required to be expensed within 3 years. Phase 1 projects have been sequenced to ensure this requirement is met.

Given that actual costs are still unknown, it is too soon to discuss postponement of projects. As we are only 11 months into Phase 1, our approach is to proceed with all projects adopted by Council.

As Phase 1 progresses, there may be additional grant opportunities or project savings. For example, \$750k was allocated to the Citywide Irrigation system project; however, the contract awarded for this project is expected to be approximately \$550k. Additionally, staff was able to secure \$500k from an alternate funding source for the Transfer Station Masterplan. The savings from these two projects help mitigate the gap between the Council-approved budget and actual funding.

Staff will continue to closely monitor these issues and provide updates as projects progress.

Bond Program Management

The T1 Management Team, comprised of PRW and PW management, will continue to manage the Measure T1 bond program. The Team continues to meet regularly to review the T1 budget, expenditures, project progress, and to prepare detailed reports for Council, Commissions and the community.

The City recently issued a RFP for a consultant to develop a Policies and Procedures manual for the T1 program. The goal is for the T1 Manual to provide clear, concise guidelines on the management of T1 funds. This work is expected to improve audit-readiness. This work is expected to improve understanding of policies and procedures by staff and the community, and will help prepare the City for future audit.

The manual will include the following:

- Program management structure and processes
- Program goals and performance metrics
- Project management guidelines (Personnel changes, continuous improvement, progress communication, problem solving process, and data collection for evaluation of project progress)
- Bond requirements and restrictions
- Expenditure control policies and procedures

The contract is anticipated to be executed mid-April and the manual is expected to be completed in June 2018. Once completed, the manual will be shared at the next Bi-annual Update in November 2018.

Staff plans to hire an external auditor in FY 2019 to perform a financial audit on Measure T1 bond expenditures to ensure that expenses are in accordance with bond measure requirements. Audits are planned for every two years and staff expects to have approximately six financial audits during the life of Measure T1.

Communication

Staff will continue to provide bi-annual updates to the Parks & Waterfront and Public Works Commissions and to City Council. The next report will be in October 2018. Staff continues to use the City's [T1 website](#)⁵ to update the community on the bond program. This includes an updated [story map](#)⁶, providing photos, mapping and summaries of each approved T1 project. Community members can visit the [Measure T1 Phase 1 Project Updates](#)⁷ page for project updates, community meeting dates, and quarterly updates. For questions or information about T1, community members are encouraged to email T1@CityofBerkeley.info.

Planning for Phase 2

Phase 1 is expected to run from July 2017 through June 2021. The Phase 1 projects that are planning and planning & design in nature may then be eligible for a variety of state and federal grants or T1 phase 2 and 3 funding. The planning and public process for Phase 2 is anticipated to start in June 2019, approximately two years before Council approves Phase 2 projects. As part of this process, staff will explore grants and other sources of funding to continue projects planned and designed in Phase 1, or supplement potential Phase 2 projects.

⁵ See <https://www.cityofberkeley.info/MeasureT1/>

⁶ See <https://berkeley.maps.arcgis.com/apps/MapTour/index.html?appid=6a32f8ecb2924aebbb952bd59cb8b7fc>

⁷ See <https://www.cityofberkeley.info/MeasureT1Updates.aspx>

FISCAL IMPACTS**Expenditures to Date**

As shown in Table 1, \$744,615 of T1 funds have been expended to date.

Table 1 – Phase 1 Expenditures to date as of 3/28/18

Category	Sub-Category/Project	Spent	Allocated	Remaining
Staff/ Project Management ⁸		\$ 393,400	\$ 4,200,000	\$ 3,806,600
Facilities, Equipment, Supplies, Services ⁹		\$ 27,008	\$ 400,000	\$ 372,992
Projects ¹⁰	Facilities/Buildings	\$ 12,987	\$ 15,900,000	\$ 15,887,013
	City Wide Safety Improvements	\$ -	\$ 900,000	\$ 900,000
	Park Improvements	\$ 311,220	\$ 6,965,000	\$ 6,653,780
	Green Infrastructure	\$ -	\$ 1,200,000	\$ 1,200,000
	Complete Streets	\$ -	\$ 8,500,000	\$ 8,500,000
Total		\$ 744,615	\$ 38,065,000	\$ 37,320,385

Functional Art

In [Resolution 67,795-N.S.](#)¹¹, Council resolved that 1% of bond proceeds shall be available for functional art integrated into T1-funded projects. The bond proceeds for Phase 1 of Measure T1 was \$35 million, resulting in a 1% functional art contribution of \$350,000. The total amount of \$350,000 has been deducted from Phase 1 T1 projects. No T1 funds have been spent to date on functional art.

T1 staff has met with the Civic Center Arts Commission to coordinate the inclusion of functional art into identified projects. The Civic Arts Commission has reviewed T1 projects and preliminarily identified the following sites for functional art installation:

- North Berkeley Senior Center
- George Florence Mini-Park

⁸ *Staff/Project Management* costs include City staff to plan, manage, and supervise T1 projects; and a full-time analyst to provide direct administrative support for T1 projects. This does not include costs for other supervision and administration, such as other managers, departmental administrative staff, and other support functions like IT, Human Resources, and Finance.

⁹ *Facilities, Equipment, Supplies, and Services* includes the cost to lease T1's share of office space on the 5th Floor of 1947 Center St., T1-related office furniture, computers, printers, office supplies, copier lease, staff trainings, communication materials, and audits.

¹⁰ *Project* costs will include all direct project expenses.

¹¹ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/Resolution%20No%2067,795.pdf

- San Pablo Park Tennis Courts
- (Alternate) Grove Park Field
- (Alternate) San Pablo Park Ages 5-12 Play Area

BACKGROUND

In November 2016, Berkeley voters approved [Measure T1](#)¹² – a \$100 million dollar general obligation bond to repair, renovate, replace or reconstruct the City’s aging existing infrastructure, including facilities, streets, sidewalks, storm drains, and parks. Measure T1 passed with 86.5% of the vote.

City Council [authorized the issuance of the infrastructure bond](#)¹³ in order to help address significant and growing unfunded infrastructure needs which total over \$500 million. Bond funded capital projects will be implemented in addition to projects that are currently funded and proposed for funding in the City’s fiscal years 2018 – 2019 capital budget.

After the passage of Measure T1, the City Manager proposed a [three phase implementation plan](#)¹⁴ for the Measure T1 program and a list of proposed Phase 1 projects to be considered by the Council, the City’s commissions, and the general public.

From December 2016 through June 2017, the City undertook a robust public process to gather input on the proposed projects. In addition to three Measure T1 Workshops for the general public, the Parks & Waterfront and Public Works Commissions invited and received input from the public and through ten additional existing City Commissions. They submitted a [joint report to Council in June 2017](#)¹⁵ detailing their recommendations. The City Manager incorporated this input and submitted a [final recommended list of projects](#)¹⁶. Council adopted this list and proposed plan for implementing Phase 1 of the T1 bond program on June 27, 2017.

ENVIRONMENTAL SUSTAINABILITY

Measure T1 provides an opportunity to advance the City’s environmental sustainability goals. Facility upgrade projects will be designed and constructed to not only improve

¹² See <https://www.cityofberkeley.info/MeasureT1/>

¹³ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/Resolution%20No%2067,795.pdf

¹⁴ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/Measure%20T1%20GO%20Bonds%20Recommendations.pdf

¹⁵ See https://www.cityofberkeley.info/uploadedFiles/Parks_Rec_Waterfront/Level_3_-_General/Measure%20T1%20-%20Joint%20Commission%20Report%20-%20June%202017%20w%20attachments.pdf

¹⁶ See https://www.cityofberkeley.info/Clerk/City_Council/2017/06_June/Documents/2017-06-27_Item_49_Implementing_Phase_1.aspx

safety and address deferred improvements, but also to increase resource efficiency and access to clean energy. Measure T1 also provides an opportunity to accelerate investment into green stormwater infrastructure and street improvements that advance the goals of the City Bike and Pedestrian plans.

CONTACT PERSONS

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Attachments:

- 1: T1 Project Schedule, Funding and Project Management

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KEY: Planning, Design
Construction

DEPT	PROJECT NAME	PROJECT TYPE	PROJECT DESCRIPTION	T1 ORIGINAL FUNDING (A)	T1 ART CONTRIBUTION* (B)	T1 TOTAL PROJECT FUNDING =(A-B)	OTHER FUNDING	OTHER FUNDING AMOUNT	APPROXIMATE TOTAL FUNDING	PM	FY18	FY19	FY20	FY21	STATUS UPDATE
FACILITIES/BUILDINGS				\$15,900,000	\$189,210	\$15,710,790		\$7,671,143	\$23,381,933						
PW/PRW	City-Wide Restrooms Citywide Needs Assessment	Planning	Perform needs and feasibility assessment of location for citywide restrooms; will include consideration of Ohlone Park restroom.	\$150,000	\$1,785	\$148,215			\$148,215	EK/EC					Developing scope of work for assessment. RFP anticipated to be released in May 2018.
PW	Old City Hall/ Veteran's Building/ Civic Center Park	Planning	Structural analysis and visioning of possible conceptual design alternatives, in concert with Civic Center Park, to help determine a direction for future capital improvements to restore and secure these facilities to maximize their community benefit.	\$300,000	\$3,570	\$296,430			\$296,430	EK					Start in FY 2019.
PW	Transfer Station - Master Plan	Planning	Developing a Master Plan for modernization of the City's Waste Transfer Station, including the recycling center, with the goal of creating a new facility that promotes recycling and promotes elimination of solid waste.				Zero Waste Fund	\$500,000	\$500,000	GA					Planning phase started. Alternate funding source secured for project.
PW	West Berkeley Service Center Planning and Conceptual Design	Planning	Structural analysis and visioning of possible conceptual design alternatives, to help determine a direction for future capital improvements.	\$150,000	\$1,785	\$148,215			\$148,215	NC					Project initiation phase.
PRW	Frances Albrier Community Center Planning and Design	Planning & Design	Evaluation of site conditions, facility and structural assessments, and recreation programming to determine what improvements to move forward with to upgrade the center as a Care and Shelter facility and for improved recreation programming and opportunities.	\$750,000	\$8,925	\$741,075			\$741,075	WK					Scope for Architect to be developed.
PRW	Tom Bates (Gilman) Fields North Field House and Restroom	Planning & Design	Evaluation of needs for restroom and storage, analysis of utility and supporting infrastructure needed, and development of detailed design and construction documents.	\$250,000	\$2,975	\$247,025			\$247,025	NL					Hired landscape architect for siting and conceptual design. Conceptual Design in process. Proposals for Architects to be developed. Field Users Meeting will be held on April 17, 2018.
PRW	Willard Clubhouse Renovation Planning and Design	Planning & Design	Planning and design to renovate or expand the Willard Clubhouse.	\$250,000	\$2,975	\$247,025			\$247,025	WK					Scope for Architect to be developed.
PRW	Live Oak Community Center Seismic Upgrade and Renovations	Planning, Design & Construction	Seismic retrofit, deferred maintenance upgrades, and programming improvements to upgrade the center as a Care and Shelter facility and enable improved recreation programming.	\$4,900,000	\$58,310	\$4,841,690			\$4,841,690	TL					Design contract awarded. First public meeting was held on 3/24/18. Applied for FEMA Grant, CALOES has made recommendation to support-anticipate a decision in May. Staff has met with LPC. LPC will establish subcommittee in April meeting.
PW	North Berkeley Senior Center Seismic Upgrades and Renovations	Planning, Design & Construction	Seismic retrofit, deferred maintenance upgrades, and programming improvements to upgrade the center as a Care and Shelter facility and enable improved senior programming.	\$6,800,000	\$80,920	\$6,719,080	FEMA	\$1,875,000	\$8,594,080	EK					Initial public meeting held on 2/15/18. Met with NBSC Advisory Council- 3/7/18. 50% design completed 3/15/18. Internal Review by 3/30/18. Follow-Up Community Meeting - 4/24/18.
PRW	Strawberry Creek Park Restroom Replacement	Planning, Design & Construction	Replace restroom at Strawberry Creek Park.	\$350,000	\$4,165	\$345,835	Parks Tax & PRW Capital Improvement Fund	\$500,000	\$845,835	WK					Project to be bundled with FY 19 Strawberry Creek Phase 2. Additional funding from Parks Tax and Capital Improvement fund. Community meeting anticipated to be scheduled in May 2018. Alternate candidate for functional art.
HHCS/PW	Mental Health Building Renovation	Planning, Design & Construction	Renovate interior for safety and energy efficiency.	\$2,000,000	\$23,800	\$1,976,200	Capital Improvement Fund and Mental Health Services Account	\$4,796,143	\$6,772,343	SG					Developing Conceptual Design. Met with Planning to discuss Permitting.
CITY WIDE SAFETY IMPROVEMENTS				\$900,000	\$10,710	\$889,290			\$889,290						
PW	Berkeley Health Clinic Electrical Improvements	Planning, Design & Construction	Electrical upgrades to main switchboard, two panel boards, conduit, wiring, and wiring devices.							EK					Funding consolidated to other City-Wide Safety Improvement projects to provide the most complete projects.
PW	Corporation Yard Roof and Electrical Upgrades	Planning, Design & Construction	Roof and electrical improvements	\$540,000	\$6,426	\$533,574			\$533,574	IL					Scoping completed. Staff is entering into a contract with on-call electrical consultant.
PW	Marina Corporation Yard Electrical Upgrades	Planning, Design & Construction	Electrical upgrades to main switchboard, two panel boards, and wiring devices.	\$360,000	\$4,284	\$355,716			\$355,716	IL					Scoping completed. Staff is entering into a contract with on-call electrical consultant.
PW	Public Safety Building Mechanical and HVAC Efficiency Improvements	Planning, Design & Construction	Mechanical/HVAC upgrades							EK					Funding consolidated to other City-Wide Safety Improvement projects to provide the most complete projects.
PARKS IMPROVEMENT PROJECTS				\$6,965,000	\$82,884	\$6,882,117		\$2,492,499	\$9,374,616						
PRW	Aquatic Park - Tide Tubes	Planning & Design	Final design, acquiring regulatory permits and environmental documents, and preparation of construction documents for replacement of the collapsed tide tubes connecting the main lagoon with the Bay.	\$350,000	\$4,165	\$345,835			\$345,835	LM					Started feasibility analysis and met with stakeholders. RFQ/RFP to be developed for condition assessment.

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DEPT	PROJECT NAME	PROJECT TYPE	PROJECT DESCRIPTION	T1 ORIGINAL FUNDING (A)	T1 ART CONTRIBUTION* (B)	T1 TOTAL PROJECT FUNDING =(A-B)	OTHER FUNDING	OTHER FUNDING AMOUNT	APPROXIMATE TOTAL FUNDING	PM	FY18	FY19	FY20	FY21	STATUS UPDATE
PRW	Berkeley Municipal Pier	Planning & Design	Final design, acquiring regulatory permits and environmental documents, and preparation of construction documents for structural repairs to restore the pier for recreational use.	\$900,000	\$10,710	\$889,290			\$889,290	NL					Draft Study and conceptual design alternatives presented for discussion at P&W Commission/Public Meeting in January. Notice to Proceed provided to Design/Planning Consultant for Ferry study. WETA to possibly provide additional funding to cover Consultant's ferry terminal study and 6 ft of pier.
PW	Berkeley Rose Garden Drainage	Planning, Design & Construction	Improvements to Cordornices Creek to repair erosion damage at the downstream end of Rose Garden site.	\$800,000	\$9,520	\$790,480			\$790,480	DA					Met with neighboring property owner and engineer on 2/5/18. Field review with City staff completed. Proposal received. Preparing Project Initiation Form & Task Order.
PRW	Berkeley Rose Garden Pathways, Tennis Courts, Pergola	Planning, Design & Construction	Renovation of existing site pathways and construction of new pathways to provide an accessible path of travel to the center of the trellis. Reconstruction of portions or all of the tennis courts for safety.	\$1,200,000	\$14,280	\$1,185,720	Parks Tax & PRW Capital Improvement Fund	\$1,092,499	\$2,278,219	EC					Notice to Proceed for design issued. Work bundled with Phase 2 of Trellis reconstruction. Anticipated start of construction June 2019. Survey work in process. Schematic Design due in April. Met with LPC Subcommittee on 3/6/18.
PRW	Citywide Irrigation System	Planning, Design & Construction	Replacement of Irrigation Control Software and Controllers; establishment of wireless software that controls all irrigation clocks.	\$750,000	\$8,925	\$741,075			\$741,075	BP/TT					In process of awarding contract to selected vendor. Installation anticipated to begin May 2018.
PRW	Grove Park Field and Restroom Renovation of ballfield backstop, dugout, lights, and irrigation	Planning, Design & Construction	Improvements to the ballfield, dugouts, site lighting and accessibility for safety and energy savings, including improvements to site drainage; partial renovation of the restroom building.	\$1,000,000	\$11,900	\$988,100			\$988,100	TL					Public meeting held on 12/13/17. Scope to be developed for design consultant in Spring 2018. RFP planned to be released in Summer 2018. Alternate candidate for functional art.
PRW	George Florence Mini-Park Play Equipment Upgrade	Planning, Design & Construction	Renovate age 2-5 play structures and age 5-12 play structures and complete ADA improvements.	\$600,000	\$7,140	\$592,860			\$592,860	TL					Proposals for Landscape Architects to be developed, Summer 2018. Candidate for functional art.
PRW	San Pablo Park Play Equipment Upgrade (Ages 5-12 Play Areas)	Planning, Design & Construction	Renovate age 5-12 play structures and complete ADA improvements.	\$250,000	\$2,975	\$247,025	PRW Capital Improvement Fund	\$200,000	\$447,025	WK					Scope for Landscape Architects to be developed. Proposed to be bundled with San Pablo Park Tennis Renovations. Alternate candidate for functional art.
PRW	San Pablo Park Tennis Courts Renovation	Planning, Design & Construction	Reconstruction or renovation of the existing lighted tennis courts at San Pablo Park.	\$800,000	\$9,520	\$790,480			\$790,480	WK					Scope for Landscape Architects to be developed. Proposed to be bundled with San Pablo Park Play Equipment Upgrade. Candidate for functional art.
PRW	Tom Bates (Gilman) Fields Artificial/Synthetic Turf Replacement	Planning, Design & Construction	Replace artificial turf on two existing fields to include organic infill, shock pad and upgraded turf.	\$315,000	\$3,749	\$311,252	Gilman Reserve Account, Parks Tax, User Fees	\$1,200,000	\$1,511,252	NL					Grand opening held on 3/3/18. Punchlist and Contract close-out.
GREEN INFRASTRUCTURE PROJECTS				\$1,200,000	\$14,280	\$1,185,720			\$1,185,720						
PW	King School Park Green Infrastructure	Planning, Design & Construction	Install cistern to reduce peak stormwater flows and/or a bioswale to infiltrate rainwater, regulate flows, and improve water quality.	\$1,200,000	\$14,280	\$1,185,720			\$1,185,720	DA					There are concerns that the proposed location of the bio swale would severely impact street trees. Alternate locations are being studied.
COMPLETE STREETS PROJECTS				\$8,500,000	\$101,150	\$8,398,850			\$8,398,850						
PW	2nd Street, Adeline Street, Monterey Avenue, and Ward Street Paving	Planning, Design & Construction	Complete streets projects to include needed upgrades to curbs, sidewalks, storm drains, bicycle/ped improvements, and pavement, as appropriate.	\$2,500,000	\$29,750	\$2,470,250			\$2,470,250	WW					PM requesting utility assessment. Staff is confirming scope and cost estimates.
PW	Hearst Avenue, Hopkins Street, and Bancroft Way Paving	Planning, Design & Construction	Complete streets projects to include needed upgrades to curbs, sidewalks, storm drains, bicycle/ped improvements, and pavement, as appropriate.	\$2,500,000	\$29,750	\$2,470,250			\$2,470,250	WW					Staff is confirming scope and cost estimates.
PRW	University Avenue (West Frontage Rd to Marina Blvd), Marina Blvd, and Spinnaker Way Renovation	Planning, Design & Construction	Final design, obtaining permits, and pavement reconstruction. Design will be based on the preferred alternative identified in the Feasibility Study on Mitigation of Undulating Pavement at University Avenue.	\$3,500,000	\$41,650	\$3,458,350			\$3,458,350	NL					Proposals received. In the process of awarding a contract to complete final design. WETA to possibly supplement costs for University Ave work. Funding is for University Ave only. Staff is seeking additional funding for Marina Blvd and Spinnaker Way.
TOTAL				\$33,465,000	\$398,234	\$33,066,767		\$10,163,642	\$43,230,409						

*Per Measure T1 Bond requirements, 1% of bond proceeds is to be used for functional art. Phase 1 art contribution should be 1% of the \$35 million bond sale. The calculated art contribution is based on the actual estimated Phase 1 cost of \$39 million+.

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City of Berkeley: Demonstration of life cycle approach to pavement selection – Draft 3-26-2018

Background

City Council requested in December 2017 the following:

- 5-year paving plan shall identify and implement integrated solutions.
- Paving plan for 2020 – 2022 shall direct 15% of available funds to projects that address “Life Cycle Costs Analysis’ (LCCA), pavement longevity, and watershed impacts.
- Paving plan for 2020 – 2022 shall reflect long-term cost effectiveness through the use of LCCA on all streets, pavement durability, and aesthetics. Also, street rehabilitation shall be coordinated with utility, sewer, and other activities.
- Work with consultants who have a track record in the above.
- Develop a process that incorporates life cycle cost analysis.
- Report back to Council by June 201.

5-year paving plan for 2018 – 2022

Council approved the paving plans for 2018 – 2019. The paving plans for 2020 – 2022 are the subject of this review. In reviewing the plans submitted to Council in December 2017, the following streets are planned for reconstruction.

2020

- Gilman, between San Pablo and Santa Fe
- Milvia, between Blake and Russell
- Rose, between LeRoy and LaLoma
- Shasta, between Grizzly Peak and Park Gate

2021

- El Dorado, between The Alameda and Sutter

2022

- Browning, between Addison and Dwight
- Channing, between MLK and Milvia
- Channing, between Roosevelt and MLK
- Channing, between Sacramento and Roosevelt

We did not see in the 5-year paving plan the reconstruction of Shattuck Avenue north of University.

Concept for evaluating sustainable integrated technologies

1. Berkeley can be divided into 3 geographic areas, looking at the city from west to east:
 - Western third is flat, subject to flooding, and the soil has low permeability
 - Middle third has higher ground and the soil has more permeability
 - Eastern third is hilly and is less suitable for permeable pavement

We propose focusing on the middle third of the city for evaluation of streets that may be suitable for alternative surface treatments.

2. Propose using Shattuck Avenue as a demonstration project for modeling LCCA for the following reasons:
 - Shattuck Avenue between University and Cedar has a PCI between 20- 25.
 - Shattuck Avenue is planned for reconstruction.
 - Shattuck Avenue is in the middle third of the city.
 - Shattuck Avenue is an arterial street.
 - Shattuck is a four lane Avenue that will allow traffic to be effectively re-routed from side -to-side during reconstruction.

Approach to conducting life cycle cost analysis (LCCA)

We propose demonstrating the use of LCCA before considering how it would be used citywide. Our approach includes:

1. Use LCCA tool developed by the “City and County Pavement Improvement” at Center UC Davis(<http://www.ucprc.ucdavis.edu/ccpic/>) .
 - a. Professor John Harvey is meeting with us on April 6 to demonstrate the use of the tool.
2. Apply the tool to Shattuck Avenue.
3. Contact cities that have had permeable pavement installed for long periods to evaluate durability. (e.g., Portland, Atlanta, Chicago, Louisville, Dayton Oh and Richmond VA).
4. Prepare a report on the use of LCCA on Shattuck Avenue.
5. Evaluate how the Shattuck Avenue LCCA model may be used as ‘the model’ in the preparation of Berkeley’s 5-year, as directed by Council on December 12, 2017.