



Earthquake Safety and Emergency Response Bond Program 2010 & 2014

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- Citizen's General Obligation Bond Oversight Committee
- San Francisco Police Department
- San Francisco Fire Department
- Public Utilities Commission

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Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

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Executive Summary

ESER 2010

The Earthquake Safety and Emergency Response (ESER 2010) Bond Program consists of three components: the **Public Safety Building (PSB)**, the **Neighborhood Fire Stations & Support Facilities (NFS)**, and the **Auxiliary Water Supply System (AWSS)**. These components' particular projects are proceeding apace, hewing to stipulated schedules and budgets. Some projects confront unanticipated impacts such as delayed DBI permitting and Civic Design Review approval. The impacts are managed to avoid as much as possible, undue consequence to client department(s)' expressed needs and expectations. To date there have been no upsets that would compromise client department's expectations for the successful delivery of any project.

The following is a brief summary of each component's status.

Public Safety Building

Punchlist work at building interior and sitework is underway, and expected to continue through February 2015.

All construction trade packages have been bought-out. Bid' solicitations conducted by the City Purchaser's Office for furniture, fixture, and equipment (FFE) are underway.

Project Cost, inclusive of all construction change orders to-date, is tracking within the total project budget of \$239M. Substantial completion is anticipated in January 2015.

Neighborhood Fire Stations & Support Facilities

Seismic Projects: Station 16, Station 5, and Fire Boat Station 35

Station 16: 100% Construction Documents were completed on November 20. General Contractor Prequalification Request for Qualifications was issued, and four responses were received on December 22.

Station 5: 50% Schematic Design documents were issued on October 31.

Station 35: Programming with the expert architect continues. Preliminary review meeting with SF Port was held on December 17.

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The forecasted need for NFS 2010 projects as developed subsequent to the passage of the Bond is approximately \$84M which is \$20M above the ESER 2010 Bond Funds of \$64M as a result of initial programming assumptions, market conditions, added scope, and unforeseen conditions. The specific projects driving the additional costs are Stations 5, 16 and 35. These costs will be mitigated by the anticipated savings of the Public Safety Building and proceeds from ESER 2014. The SFFD endorses the forecasted need and the proposed mitigation.

Comprehensive Projects: Station 36

Station 36: Project was successfully completed and SFFD reoccupied the station on November 19.

Focused Scope Projects

Focused Scope portfolio is organized into six packages. All roofing, mechanical and window work is complete. Exterior envelope, generators and showers are in construction. Refer to the Neighborhood Fire Stations full report for further detail.

Auxiliary Water Supply System

Construction continued for the Ashbury Heights Tank, Jones Street Tank, and Twin Peaks Reservoir contract (WD-2685). Pumping Station 1 construction contract (WD-2686) was awarded. Design work continued for Pumping Station 2.

Construction was completed for Cisterns A (WD-2695). Construction continued for Cisterns B (WD-2696) and Cisterns C (WD-2697). Cisterns D construction contract (WD-2745) was awarded. Design work continued for additional new cisterns.

Planning and design work continued for pipeline and tunnel projects.

Planning work continued for ESER 2014 projects.

Budget

The ESER has expended \$283,640,021 through December 2014. Out of the \$283,640,021, \$220,940,153 is for the PSB; \$26,209,617 is for the NFS; \$34,801,263 is for AWSS; and \$1,688,988 is for Bond Cost of Issuance, Bond oversight and accountability expenses. The expenditures are consistent with our spend-down forecast and are within budget.

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ESER 2014

In June 2014, 79% of the voters approved Proposition A - Earthquake Safety and Emergency Response Bond 2014 (ESER 2014) for \$400M. ESER 2014 will pay for repairs that will allow San Francisco to quickly respond to a major earthquake or disaster.

The ESER 2014 is comprised of five components: **Office of the Medical Examiner (OCME)**; **Traffic Control & Forensic Services Division (FSD)**; **Neighborhood Fire Stations (NFS)**; **Emergency Firefighting Water System (SFPUC)**; and **District Police Stations (DPS)**. SFPUC will manage the Emergency Firefighting Water System component and DPW will manage the remaining components.

OCME Facility

The \$65M project will relocate the Office of the Chief Medical Examiner (OCME) to 1 Newhall Street in the India Basin Industrial Park.

The CEQA process has been completed. The project received Categorical Exemption, Class 32 (State CEQA Guidelines Section 15332) on May 30, 2013.

KMD was selected to provide A/E Design Services for the project. Clark Construction's contract was issued on December 20, 2013 for CM/GC services. Vanir/Saylor, a Joint Venture Partnership, was the successful candidate for providing CM Support Services. The total allocation of this Job Order is \$6,186,289 with a balance of \$326,315. ESER 2014 has provided the next increment of funding towards OCME work, a sum of \$8,150,600.

SFPD TC & FSD Facility

The \$165M project will relocate the SFPD Traffic Company (TC) and SFPD Forensic Services Division (FSD) to a site located at 1995 Evans Avenue, Mission Bay, San Francisco.

HOK was selected to provide design services and contract negotiations are in progress with the anticipated issuance of NTP in April 2015.

CM Support Services RFQ was advertised on October 28, 2014. Proposals from six companies were received on December 19, 2014.

The CEQA process has been completed. Agreement to Implement Mitigation Measures was signed on September 30, 2013. Preliminary Mitigated Negative Declaration was published

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on October 2, 2013. A Final Mitigated Negative Declaration was completed and published on November 19, 2013.

Integrated Project Delivery, CM/GC including Design-Build core trade subcontractors, was approved by the City Administrator as a viable project delivery methodology for this project. Ordinance was introduced on July 29, 2014. Ordinance was heard and approved at the Budget and Finance Committee Meeting on September 17, 2014. BOS approved the ordinance on September 30, 2014 and Mayor signed it on October 9, 2014.

The total allocation of this Job Order is \$2,550,000 with a balance of \$332,724. ESER 2014 will provide the next increment of funding towards TC & FSD work, currently projected \$8,150,600.

Budget

The ESER 2014 budget is \$400M. The proceeds of the first bond sale totaling \$100,670,000 were appropriate in early October 2014. The breakdown of the proceeds received is discussed in the [Budget, Funding and Expenditures](#) section of this report.

Other Information

For more information, visit the ESER web site at www.sfearthquakesafety.org.

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Program Summary and Status

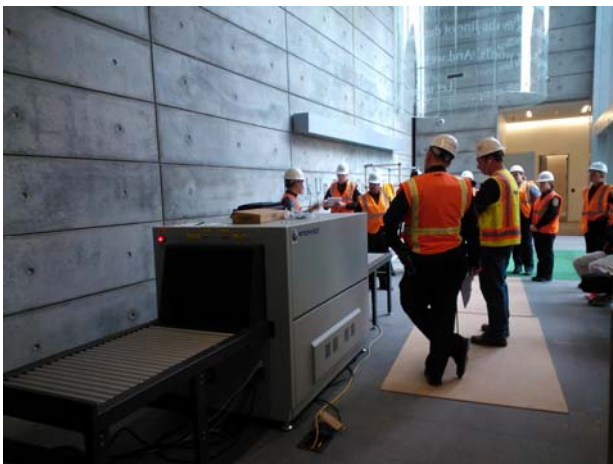
Public Safety Building (ESER 2010)



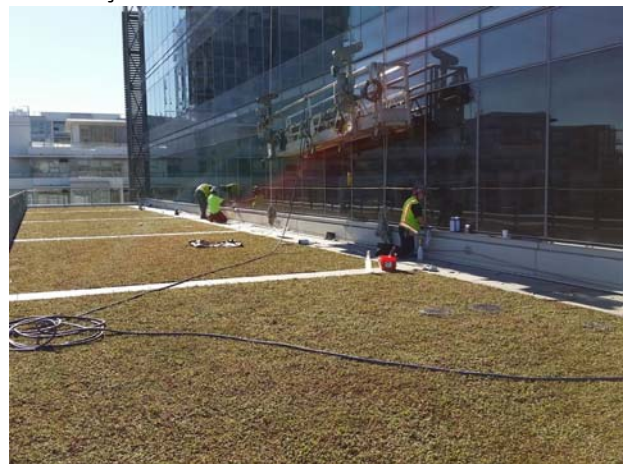
Exterior view from 3rd Street



West façade at Third Street



Training session for package scanning machine



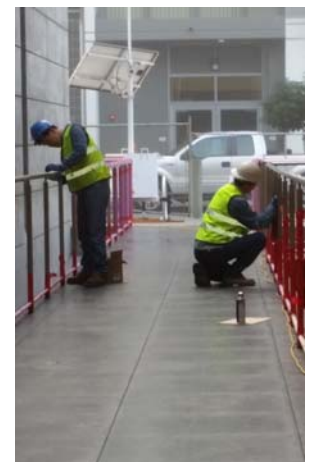
Exterior work at L4 vegetated roof area



Installation of firefighter dormitory beds at FS4



Fire alarm system testing



Installation of alleyway railing

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Location: Block 8 in the Mission Bay South Redevelopment Area. The block is bounded by Mission Rock, Third, and China Basin Streets.

Project Description: The Public Safety Building (PSB) is meant to provide a new venue for the SFPD Headquarters – effectively the command and control administration of the City’s police department-including the relocation of Southern District Station and a new Mission Bay Fire Station. Included in the project is the reuse of Fire Station #30, which will serve as a multi-purpose facility for the Fire Department and the community. Historic resource consultants have determined that the existing fire station is eligible for the National Register of Historic Places. Consistent with the Mission Bay SEIR Addendum No. 7, Mitigation Measures, Item D.02, this facility will be retained and reused in a manner that preserves its historic integrity. The other components of the project will be designed to be respectful of the historic integrity of the existing fire station.

Both the Police Headquarters and the Southern District Police station are located at 850 Bryant also known as the Hall of Justice. This facility is over 50 years old and does not meet current seismic codes and requirements. In the event of a major earthquake, this building is not expected to be operational. The PSB will provide a new venue for these two police elements that are a part of a larger strategy to replace the Hall of Justice, established in the City’s Capital Plan as the *Justice Facilities Improvement Program (JFIP)*.

Project Background: The functionality of the entire police department in the event of a major catastrophe relies on the ability of the police leadership within police command center headquarters to promptly and properly coordinate public safety services in the city. The district station plays an equally critical role in providing responsive public safety to residents of San Francisco in a timely manner. This station includes those working the front line that are the first to arrive at a crime scene, maintain the peace during difficult situations, assist in the investigation of criminal activity; provide support to other first responders including the Fire Department, the Medical Examiner and Crime Scene Investigation (CSI).

Project Status:

Construction Activities:

- Mission Bay Development Group has completed roadwork at Block 8 frontage. The remainder, through to Terry Francois Blvd, is expected to be complete in late Spring
- Punchlist of all spaces was complete in mid-December, followed by punchlist work performed by subcontractors continuing through December, expected to be complete in February.

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- Elevator inspection was complete and passed for Elevators #1 through 7 at PSB. Inspections for plumbing, electrical, fire and life-Safety began in October, continued through December. Remaining issues expected to be resolved in January for TCO.
- Installation of networking equipment and verification of low-voltage work by PD-IT and consultants, and DT began in July and is expected to continue through move-in.

Project Schedule:

SUBSTANTIAL COMPLETION = January 2015 (under review)

FINAL COMPLETION = February 2015 TARGET MOVE-IN = March 2015

- Trade package bidding is complete.
- Procurement for furniture, fixture, and equipment are in progress. 18 of 22 have been awarded.

Project Budget: Project Cost, inclusive of all change orders to date, is tracking within the Total Project Budget of \$239M. Refer to the [Attachment 1 – Program Budget Report](#) for further detail.

Neighborhood Fire Stations (ESER 2010)

7432A Showers – Package 3

Station 40 Chief and Officer's Restroom



Before



After

7432A Showers – Package 3

Station 41 Men's Restroom

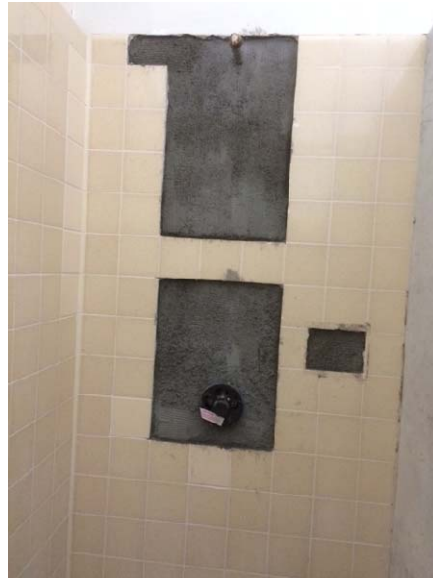


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7432A Showers – Package 3

Station 38 Men's Restroom



Project Description: The ESER bond will renovate or replace selected fire stations to provide improved safety and a healthy work environment for the firefighters. The selected stations are determined according to their importance for achieving the most effective delivery of fire suppression and emergency medical services possible.

Project Background: Many of the 42 San Francisco Fire Stations have structural, seismic, and other deficiencies. Some may not be operational after a large earthquake or disaster; threatening the ability of the firefighters to respond to an emergency. In addition, there are other fire department resources that support and augment the capacity of the department to provide effective fire suppression capability.

Prior to approval of the bond program, the majority of the City's fire stations and support facilities were assessed for their respective condition and to identify vulnerabilities or deficiencies that could compromise their essential role as deployment venues for first responders.

For planning purposes, the assessment reports were reviewed by cost estimators who prepared estimates of the cost of correcting the conditions noted in the assessments. The cost estimates indicate only the overall "order of magnitude" of the various facility deficiencies and relative proportions of various types of work.

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Preliminary assessment of the neighborhood fire stations indicate that the sum of all existing deficiencies would require a budget exceeding \$350M to correct, significantly more funds than are available for such purposes in this bond. Therefore, additional detailed planning is required to focus the expenditures of this bond towards the most beneficial and cost effective immediate rehabilitation and/or improvement projects.

A list of projects to be completed by the ESER 2010 bond was identified by DPW and the Fire Administration, and accepted by the Fire Commission at their meeting of September 23, 2010.

The ESER 2010 bond program is anticipated to complete improvements to 16 of the 42 neighborhood fire stations, as well as for the Fire Boat Station. The approved slate of projects was presented to the SF Fire Commission on April 26, 2012.

Project Status:

SFFD evaluated project scope and program budget options prepared by DPW and approved on February 29, 2012 a final slate of Groups I, II and III projects to be completed as part of ESER I. Direction was also provided for the preferred development of the Fire Boat Station and analysis of the Emergency Logistics Center (ELC). The approved slate of projects was presented to, and accepted by, the SF Fire Commission on April 26, 2012.

Seismic Projects: Stations 16 and 5

Station 16:

Design services are being provided by DPW BDC/IDC.

The City is currently pursuing licensing agreements with three of the immediate neighbors to underpin their property foundations during construction, and to install equipment monitoring construction impact on their properties. Two of the immediate neighbors to the station communicated their issues/concerns in early 2014; follow-up meeting with the neighbors were held on January 29, February 26, March 19 and April 2, 2014. The City has accommodated one of the neighbor's requests to relocate the rooftop emergency generator from the West to the East side of the roof. In September, DPW was advised that the immediate neighbors had hired their own architect to suggest revisions to the City's design that would presumably have less impact on the neighbor's window (currently slated to become a lightwell.) DPW is continuing to respond to neighbor's concern and to the extent practicable, will revise design to accommodate. Meeting with the neighbor's architect was held on October 31 and concluded that there may not be any practicable accommodation of neighbor's request to enable their access to view sightlines possible that would not require substantial redesign of the project.

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The site and demolition permits were filed with DBI on December 20, 2013. Comments were received in September, and DPW response to comments were submitted to DBI in October. 100% Construction Documents were completed on November 20 and the permit addendum will be submitted for review as soon as the site permit is issued.

General Contractor Prequalification Request for Qualifications was issued in October, and four responses were received on December 22, 2014. Responses are currently in review. Qualified respondents will be invited to submit their bid proposal on the completed drawings and specifications.

Station 5:

Design services are being provided by DPW BDC/IDC through the concept phase; DPW BDC Architecture, Landscape Architecture, and DPW IDC Structural Engineering through design and construction; and as-needed engineer GHD for MEP and Civil engineering disciplines.

Schematic Design 50% deliverable was submitted as scheduled on October 31.

Outreach to elected officials and community groups began in 2014 with a presentation to District 5 Supervisor London Breed on January 13. Station 5 public outreach meetings were held on June 19 and 26, July 10 and September 25, 2014.

Civic Design Review Phase 1 approval was granted on October 20, 2014.

Public Works issued an RFQ for CM/GC services in October 2014. Six responses were received on December 19. The selection panel is currently evaluating proposals, and interviews are scheduled for January 30, 2015.

Fire Boat Station 35:

Design services are being provided by DPW BDC/IDC (Structural) and specialty subconsultants.

SFFD directed DPW to resume project planning at the existing Station 35 location, Pier 22-1/2. Project re-start meetings with SF Port occurred in June. Maritime expert architect Mary McGrath Architects of Oakland, CA is finalizing the building program and program diagrams for review and approval with various constituencies. Initial review meeting was held with SF Port on December 17. Meetings with SF Port, SF Planning and BCDC are anticipated in the first quarter 2015.

Equipment Logistics Center (ELC):

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The ELC project was identified after the passage of the bond – it was suggested as a project combining the Bureau of Equipment (BOE) and Emergency Medical Services (EMS). In this configuration, the sum total of functional program area makes it infeasible to occur at the current EMS venue at 1415 Evans; more significantly, the budget for such a project is not available within the ESER 2010 NFS funding.

In lieu of this project, the SFFD requested that a smaller facility, dedicated to the storage of essential material (currently under the control of the BOE), be considered at the lot behind Station #9. The conceptual program and cost estimate was completed in February 2012. SFFD has tentatively directed construction of a shed structure behind Station 9, to be developed after Station 16 bid results are obtained and a reliable balance of usable reserve is identified.

SFFD requested DPW prepare a program analysis and cost estimate for the EMS for consideration in a future bond. The analysis is ongoing as SFFD considers alternate sites for best accommodation of its operations.

Comprehensive Project: Station 36

Design services are being provided by Paulett Taggart Architects through DPW-BDC's as-needed consultant contracting program.

The design and construction are proceeding on track to meet LEED Gold for Commercial Interiors standards as approved by the Green Building Coordinator, San Francisco Department of the Environment. Commissioning consultant Enovity, contracted through PUC, is reviewing all installation, testing, and start up activities to confirm requirements are met.

Substantial completion was achieved as scheduled on October 28 and SFFD reoccupied the station on November 19.

SFFD directed the team to add new Apparatus Bay doors to the project funded by savings on Focused Scope projects. These are long lead items and delivery date is to be confirmed, anticipated spring 2015, post occupancy. The apron and sidewalk design in front of the station was modified to accommodate both accessibility requirements and SFFD equipment clearances needed. The resulting work in the sidewalk and street will require multiple additional approvals and permits. Work schedule subsequent to receipt of post permits is to be confirmed, anticipated spring 2015, post occupancy.

Focused Scope Projects

Design services are being provided by DPW BDC/IDC. (4) of the (5) emergency generators are designed by GHD (as needed electrical engineering consultant.)

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Roofs – 15 Stations

Summary:

The scope consists of installing new roofing systems and upgrading exhaust fans on fifteen (15) stations. 2011 Package (Stations 6, 38, 41 and 42), Package 1 (Station 28); Package 2 – JOC (Station 2); Package 3 (Stations 18, 40 and 31), Package 4 (Stations 15, 17, 26, and 32), and Package 5 (Stations 10 and 13) roofs are complete.

Detail:

All work is complete.

Exterior Envelope – 16 Stations

Summary:

Per SFFD direction, BBR is to execute paint work in (6) stations – FS 6, 28, 38, 41, 42, and 49 while the remaining packages (packages 4, 5, and 6) will be bid out through DPW public bidding process to a B or C33 license contractors due to the complexity of scope at these stations.

Detail:

Public Works BBR completed Stations 28 and 41, the final stations in BBR's portfolio.

Packages 4, 5, and 6 for 3 stations, 4 stations, and 3 stations respectively were successfully bid to B or C33 license contractors.

- Package 4 (Stations 15, 32 and 40) - OnPoint Construction: SFTMA resolved the issues they were having with their window installer and started the installation at Station 15 in mid-February. SFMTA work is complete; punch list walk occurred in June. SFMTA work damaged ESER work performed; SFMTA agreed to address issues and this work is now complete. Last report.
- Package 5 (Stations 10, 13, 17, 26) - CF Contracting: The City issued NTP on January 20. The contractor started on Stations 10 and 17 simultaneously then 13 and 26. The contractor started the work as scheduled on February 20. As of April 1, the contractor substantially completed work at FS10 and 17 and will move to FS26 and 13. Completion of the work is scheduled for May 19. Additional work at Station 13 resulted in time extension to June 19. Installation quality issues at Station 13 windows were addressed by the Contractor by the agreed-upon extended completion date of August 30 and scaffolding was removed in early September. This package is now in close out phase. Last report.
- Package 6 (Stations 2, 18, 31) – Roebuck Construction: The contractor started the actual work on March 5 on Station 2 only and will move to Station 31 and 18 upon completion of

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Station 2. Quality issues with painting subcontractor Slater Custom Painting at Station 2 led to ultimate removal of this subcontractor. The new subcontractor is Woodbrook Painting. New completion date at Station 2 is scheduled for June 5. Additionally at Station 2, window design was modified to accommodate proper structural support of window expanse. The issue was exacerbated by poor coordination between the contractor, subcontractor, and supplier. Contractor began installing new windows at Station 2 in mid September; manufacturer delivered windows 2 weeks later than anticipated. Paint mock up is approved at Station 31 and scaffolding has been installed. East elevation priming activity resulted in assessment of existing paint as failing; manufacturer and contractor involvement in identification of proper method of removing lead based paint. The safest effective paint removal method was carefully researched, and carefully coordinated with SFFD occupants and neighbors prior to use. No complaints were received. This work was begun in late September and was completed on October 24. Contractor will address installation issues at new kitchen window. Station 18 mockup is complete. Substantial completion of this package is scheduled for July 2. Time extension will be negotiated pending Station 2 delayed delivery date of windows to August 25; a further extension is anticipated for the existing paint removal. Window installation was completed in October. The extended completion date will cover time for all delays.

Emergency Generator Replacement – 5 Stations

Summary:

Stations 6, 15, 12, 17, and 21 are scheduled to receive new Emergency Generators (EGs). Stations 6, 12, 15, and 21 are complete; Station 17 is under construction.

Detail:

Station 17: Initial substantial completion date is May 19, 2014. Substantial completion date was extended to July 11 due to PG&E scheduling conflicts and coordination with the exterior envelope work. Issues with PG&E wiring type will require a further extension to August, pending resolution with PG&E. The new generator's engine failed and was replaced by the manufacturer on September 15. The tank size will be enlarged to properly accommodate the required 72 hour back up period. Completion date is to be confirmed in October pending lead time re: the new tank. JOC contractor Nicole's Work pricing is delayed. Proposal was provided in December. The new tank is a long lead item.

Stations 12 and 21: The City issued NTP to Becker Electrical Services on April 21 and held the preconstruction meeting on May 1. Contractor proceeded with submittals and procurement on schedule, and commenced construction at Station 12 on June 7, 2014. Substantial completion was completed as scheduled on August 25, with final completion achieved on September 22.

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Station 21 anticipated substantial completion date of August 29 was met. These projects are in close out phase. Last report.

Shower Reconstruction – 9 Stations

Summary:

Stations 6 and 15 have been completed. Stations 17 and 18 were put on hold by SFFD due to scope complexity. Station 44 was completed by Roebuck, the Station 44 contractor. Stations 26, 38, 13, 18, 40, and 41 were bid out under one package.

Detail:

The City rebid the package of 6 stations on April 23, and awarded the contract to Wickman Development and Construction on May 30. NTP was issued to Wickman on July 7. Preconstruction phase for measurement and ordering of material was extended to September 19. Construction is scheduled to begin on October 14 at Station 40. SFFD removed Station 18 from scope. Construction continues and is scheduled to complete at all stations in April 2015.

Mechanical Scope (JOC) – 15 Stations

Summary:

The scope is structured into two phases: Phase 1 – Investigation and Scope Validation, and Phase 2 – Execution of Work. The stations were divided into two groups, Group 1 – (4) stations and Group 2 – (11) stations. Group 1 (Stations 6, 17, 38 and 42) was substantially completed by Azul (JOC Contractor) in August 2013. Group 2 (Stations 2, 10, 13, 15, 18, 26, 28, 31, 32, 40, 41) were awarded to Rodan (JOC Contractor). Work started on January 2, 2014. All work is now complete.

Detail:

All work is complete.

Window Repair (BBR) - 12 stations

Summary:

BBR was selected to perform this work.

Detail:

This work is complete.

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Historic Evaluation and Environmental Review

Summary:

CEQA reviews and approvals proceed apace coordinated with the overall design and construction schedule.

Detail:

Historic evaluation site visits were completed at 21 stations (14 Focused Scope / Alternate stations; 6 Seismic / Comprehensive stations; and the Fire Boat station.)

The Station 5 PPA was submitted on December 6, 2012. Planning provided the PPA response on February 7, 2013. Contracting for outside consulting services for Station 5 was awarded to Ward and Associates, DPW's on-call consultant and their efforts began in May 2013. DPW submitted the Environmental Evaluation and initial technical reports to City Planning on July 31, 2013. Additional technical reports were submitted on September 24, 2013. Planning provided technical comments on October 30. Ward and Associates revised the reports and resubmitted to Planning on November 25. Planning's additional comments were received on March 13, 2014. Technical reports are currently being finalized. The revised Environmental Evaluation was submitted on November 7 to Planning.

DPW submitted the draft HRE for Planning review on September 24. Planning provided comments on October 30, and the final HRE was submitted to Planning on November 25. Planning provided comments on January 22, 2014, and further clarified comments on February 7. The revised HRE's were submitted to Planning on March 12, 2014. Planning determination of the final level of environmental review and type of document to be issued is pending.

Project Budget:

Refer to the [Attachment 1 – Program Budget Report](#).

Neighborhood Fire Stations (ESER 2014)

Projects' Description:

The ESER 2014 bond program is anticipated to continue the work of ESER 2010 bond, categorizing projects according to the three categories of Focused Scope, Comprehensive, and Seismic. The principal goal of ESER 2014 is to continue to address identified and prioritized needs while seeking to perform work at all stations not addressed under ESER 2010.

Project Status:

Since the passage of the bond in June 2014, the ESER 2014 NFS team has been focusing its efforts on:

- 1) Projecting initial funding needs;
- 2) Procuring bond funding;
- 3) Setting up all needed administrative structures;
- 4) Strategizing with SFFD regarding project priorities and project delivery methods;
- 5) Planning the needed assessments of the stations not yet surveyed by the ESER bond team.

During fourth quarter 2014 and first quarter 2015 (contingent upon receipt of bond funding), the first array of Focus Scope projects to be executed in calendar year 2015 will be planned, designed, and bid.

After receipt of bond funding in October, the NFS team moved forward with planning of initial Focused Scope projects: first apparatus bay doors, roof replacements, exterior envelope, windows and mechanical projects. Design will begin in January.

23 stations will be assessed in first quarter 2015 to confirm scope needs per station. Prioritization of the full NFS program, i.e, scopes of work at each station is anticipated in second quarter 2015.

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Auxiliary Water Supply System (AWSS) (ESER 2010)



New cistern at 21st Avenue and Ocean Avenue, October 2014

Project Description: The Earthquake Safety and Emergency Response Bond will improve and seismically upgrade the AWSS cisterns, pipelines, tunnels, and physical plant.

Project Background: The AWSS delivers high-pressure water and cistern water storage for fire suppression in several areas of the City. It is vital for protecting against the loss of life, homes, and businesses from fire following an earthquake. It is also used for the suppression of non-earthquake multiple-alarm fires.

Project Status:

Physical Plant

Construction continued for the Ashbury Heights Tank, Jones Street Tank, and Twin Peaks Reservoir contract (WD-2685). The Ashbury Heights Tank work is substantially complete. Twin Peaks

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Reservoir work is in progress, including concrete-joint sealing. Twin Peaks Reservoir return to service and work commencement at Jones Street Tank are scheduled for January 2015. Construction contract completion is September 2015.

Pumping Station 1 contract (WD-2686) work started. The pumping station will be out of service from April to December 2015 while the diesel engines and generator are being replaced.

Pumping Station 2 design completion is due February 2015.

Cisterns

Construction is complete for Cisterns A contract (WD-2695).

Construction completion for Cisterns B contract (WD-2696) is March 2015.

Construction completion for Cisterns C contract (WD-2697) is June 2015.

Cisterns D construction contract (WD-2745) was awarded, with completion in April 2016.

Approximately 9 cisterns are expected to be constructed under Cisterns Contracts E (WD-2746) and F (WD-2747). Cisterns E construction bid advertisement is scheduled for February 2015.

Contract	#	Location
Cisterns B	1	Cashmere St., Hudson Ave. <<completed>>
	2	Colby St., Silver Ave. (constructing)
	3	Geneva Ave., Moscow St. (constructing)
	4	Geneva Ave., Paris St. (constructing)
	5	Holyoke St., Silliman St. <<completed>>
Cisterns C	1	18th Ave., Ulloa St. (constructing)
	2	21st Ave., Ocean Ave. (constructing)
	3	Funston Ave., Geary Blvd. (constructing)
	4	St. Elmo Way, Yerba Buena Ave. (constructing)
	5	St. Francis Blvd., San Buenaventura Way
Cisterns D	1	Amber Dr., Duncan St.
	2	Casitas Ave., Lansdale Ave.
	3	Diamond Heights Blvd., Duncan St.
	4	Dorchester Way, Ulloa St.
	5	Folsom St., Ripley St.

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Cisterns E	1	17th Ave., Pacheco St.
	2	18th Ave., Irving St.
	3	18th Ave., Moraga St.
	4	18th Ave., Santiago St.
	5	Laguna Honda Hospital
Cisterns F	1	5th Ave., Cabrillo St.
	2	6th Ave., California St.
	3	30th Ave., Lake St.
	4	Apollo St., Williams Ave.

Pipelines and Tunnels

Clarendon Supply – This project will provide a new water supply near the crest of Clarendon Avenue (approximately 500’ northwest of Sutro Tower). This supply is needed to alleviate anticipated negative pipeline pressures under post-earthquake water flow rates as determined by the CS-199 AWSS planning study. An alternatives analysis concluded that the preferred supply method is to construct a new gravity-fed facility on La Avanzada Street. The optimal location for this new facility is at approximately 720’ elevation and includes a new basin, fill pipes, discharge pipe, utility building, and associated facilities. Negotiations with the Recreation and Park Department are needed for use of the proposed project site. Also see valve motorization discussion under the Street Valve Motorization project below. Conceptual engineering report is due February 2015.

Control System – This project will improve the AWSS control and telecommunications systems. Conceptual engineering report is due February 2015.

Fireboat Manifolds and Suction Connections – The condition assessment is completed for the fireboat manifolds and suction connections along the waterfront. Remediation measures are currently being defined.

Fourth Street Connection – This project will install a new underwater hose connection across the Fourth Street Bridge to connect existing AWSS pipelines. This project will be constructed in the same contract as the Pumping Station 1 Tunnel project due to the marine work involved in each project. Construction documents are due April 2015.

Jones Street Tank Valve Motorization – This project will be constructed as part of contract WD-2685 (Ashbury Heights Tank, Jones Street Tank, and Twin Peaks Reservoir), subject to Public

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Utilities Commission approval. A contract time extension may be needed depending on material delivery lead times and contract time remaining.

Pipeline Investigation and Remediation – This project will provide a condition assessment of the AWSS pipeline network and recommend a long-term repair, replacement, and abandonment plan. A pipeline condition assessment firm will identify pipe leakage and pipe wall stress conditions in limited locations using both acoustical and electro-magnetic methods. The results of these methods will guide more extensive subsequent pipeline assessment activities. Future assessments of corrosion potential, utility conflicts, liquefiable areas, joint restraints, pipeline settlement, and related factors are being planned. Initial pipeline field assessment work is scheduled for February 2015.

Pumping Station 1 Tunnel – This project will strengthen the existing Pumping Station 1 seawater intake tunnel by adding structural reinforcement beneath the Embarcadero seawall, installing resilient inserts at the existing Embarcadero sewer-box crossing, the mid-tunnel inflection, and the sand-rock interface, and repairing minor concrete spalling and exposed reinforcing steel. This project will be constructed in the same contract as the Fourth Street Connection project due to the marine work involved in each project. Construction documents are due April 2015.

Street Valve Motorization – This project will motorize valves needed to better control AWSS water flows. This work is planned to occur near the Sacramento/Kearny, 17th/Dolores, Chavez/Vermont, and Clarendon/Twin Peaks intersections. Construction documents are due February 2015.

ESER 2014 – Work is proceeding as shown in the following table.

ESER 2014 Project Recommendations	Due 4/2015
Ashbury Tank Valve House – Needs Assessment	Due 1/2015
Jones Street Tank Valve House – Needs Assessment	Due 4/2015
Jones Street Tank Generator Anchorage – Evaluation	Completed
Jones Street Tank Retaining Walls – Condition Assessment	Completed
Network Surge Analysis	Proposal pending
Pumping Station 1 Seawater Well – Needs Assessment	Due 8/2015
Pumping Station 2 Seawater Well – Needs Assessment	Due 8/2015
Pumping Station 2 Southern Discharge Tunnels – Needs Assessment	Due 8/2015
Twin Peaks Reservoir Forebays – Conceptual Engineering Report	Due 8/2015
Twin Peaks Reservoir Tunnels – Conceptual Engineering Report	Due 8/2015

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Emergency Firefighting Water System (ESER 2014)

Work is proceeding as shown in the following table.

ESER 2014 Project Recommendations	Due 4/2015
Ashbury Tank Valve House – Needs Assessment	Due 1/2015
Jones Street Tank Valve House – Needs Assessment	Due 4/2015
Jones Street Tank Generator Anchorage – Evaluation	Completed
Jones Street Tank Retaining Walls – Condition Assessment	Completed
Network Surge Analysis	Proposal pending
Pumping Station 1 Seawater Well – Needs Assessment	Due 8/2015
Pumping Station 2 Seawater Well – Needs Assessment	Due 8/2015
Pumping Station 2 Southern Discharge Tunnels – Needs Assessment	Due 8/2015
Twin Peaks Reservoir Forebays – Conceptual Engineering Report	Due 8/2015
Twin Peaks Reservoir Tunnels – Conceptual Engineering Report	Due 8/2015

Project Schedule:

Refer to the [Attachment 2 – Timeline and Schedule](#).

Project Budget:

Refer to the [Attachment 1 – Program Budget Report](#).

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

Office of the Chief Medical Medical Examiner (OCME)

(ESER 2014)



Project Description: The project will relocate Office of the Chief Medical Examiner (OCME) to 1 Newhall Street in the India Basin Industrial Park. The new facility will house about 50 employees who are organized into the four units of the OCME: Field Investigations, Medical/Autopsy, Laboratory, and Administration.

One Newhall Street is an existing 28,000 gsf industrial warehouse which will be renovated to add a second floor within the existing footprint of the building resulting in a seismically safe 42,600 gsf facility.

Project Background: The existing OCME is located at 850 Bryant also known as the Hall of Justice (HOJ). The HOJ is over 50 years old and seismically deficient. In the event of a major earthquake, this building is not expected to be operational. This project is part of a larger strategy to replace the Hall of Justice established in the City's 10-Year Capital Plan as the Justice Facilities Improvement Program (JFIP).

The OCME is accredited by the National Association of Medical Examiners (NAME). During the previous accreditation in 2008, the City was advised that the existing facility is undersized, has

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

a number of deficiencies that are currently mitigated by operational protocols, and the facility should be replaced to assure continued accreditation.

Project Status: Early site plan application permit was submitted on June 26, 2014 in order to comply with the 2010 Energy Code rather than with the updated 2013 Code, which would significantly impact the construction budget and schedule.

KMD received NTP for CD phase on September 15, 2014. All major design decisions were finalized by the end of October 2014 in order for the design team to complete the drawings and submit for building permit. The team decided to implement an incremental submittal of trade packages strategy in order to maintain April 2015 start of construction. The prospective trade packaging and DBI Review strategy entails submitting three addenda: #1 - demolition in mid January 2015, #2 - structural at the end of February 2015, and #3 – remaining trades in mid March 2015.

CM/GC, Clark Construction, continues to provide Value Engineering (VE) recommendations in order to keep the project within the budget. Value Engineering (VE) process has been ongoing in order to bring the budget within the Fixed Construction Budget Limit (FCBL). The original \$4.6M over the budget amount has been decreased by \$2.6M through a Value Engineering (VE) process that will continue to seek a further \$2M decrease. The Medical Examiner representatives have been involved in providing input on the VE items and accepted the scope/cost reduction made thus far. Additional \$2.1M in value engineering items list was identified during the VE meeting held on September 18, 2014. Majority of the VE items were accepted which brings the project within the FCBL. The design team prepared a Deductive/Additive Alternates list as a risk mitigating measure in case bids' amount exceeds the budget amount.

KMD Architect submitted 50% CD set on December 23, 2014 and Demolition Package (Addendum #1 to the Site Permit) is expected to be submitted to the Department of Building Inspection on January 12, 2015.

CMSS, Vanir/Saylor, JV, has been providing numerous services including, but not limited to, cost estimates' reconciliation, review of design and construction schedules, participation in OAC meetings, review and analysis of budget, drawings, FF&E list, etc.

The Maher Ordinance application and supporting documents were submitted to SFDPH on February 25, 2014. SCA Environmental submitted Final report on July 18, 2014. Contaminated soil requiring Class I disposal and elevated levels of methane were discovered by SCA Environmental. Mitigation strategies include disposal of contaminated soil and installation of the passive methane evacuation system as recommended by SCA

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Environmental and SFDPH. Fugro Consultants were hired to provide design for the methane evacuation system on October 1, 2014.

AGS Consultants was hired to perform geotechnical services for the OCME project. Supplemental geotechnical study was submitted on September 19, 2014. These services further evaluated subsurface conditions and developed site-specific seismic response spectra for design and construction. AGS will also perform duties of geotechnical engineer of record during construction.

SFPUC selected building commissioning agent, NAM-Enovity, and issued a Work Order on June 25, 2014. Work commenced on July 17, 2014. Enovity has issued Commissioning Specifications and draft OPR (Owner's Project Requirements) on September 22, 2014. .

Civic Design Review (CDR) committee presentation was held on October 20, 2014. CDR approved Phase 1, requested interim review at BDC, which took place on November 17, 2014, and allowed for a combined Phase 2 and Phase 3 presentation. Phase 2 and Phase 3 presentation was held on December 15, 2014. CDR passed a motion to provide Conditional Approval for Phases 2 & 3 excluding the Southeast landscape portion of the project. The CDR requested KMD to resubmit the Southeast landscape design after the public art had been selected and KMD will be able to complete the design of this area and submit for Administrative Approval.

Traffic Control & Forensic Services Division(ESER 2014)

Project Description: The project will relocate the SFPD Forensic Services Division (FSD) and SFPD Traffic Company to a site located at 1995 Evans Avenue, Mission Bay, San Francisco. The amount of space requested for the Traffic Company was determined based on the Police Facilities Master Planning Study dated August 23, 2012.

SFPD - FSD forecasts that in the next 15-20 years, FSD will grow to 178 employees and require up to 130,000 gsf. The project is being developed to support 131 employees for 2020 demand within 89,000 gsf and allows for a potential future expansion if required. The SFPD – TC will support 104 employees for 2020 demand within 20,000 gsf.

Project Background: The SFPD Traffic Company is currently located at the Hall of Justice (HOJ) at 850 Bryant Street. The SFPD FSD is currently located at two facilities. The FSD Administration, Crime Scene Investigations, and Identification units, with approximately 60 employees, are housed at HOJ. The FSD Crime Lab, with approximately 25 employees, is housed at Building 606 in the Hunters Point Shipyard.

The HOJ is over 50 years old and seismically deficient. In the event of a major earthquake, this building is not expected to be operational. This project is part of a larger strategy to replace the Hall of Justice, established in the City's 10-Year Capital Plan as the Justice Facilities Improvement Program (JFIP).

The Hunters Point Shipyard is being transferred from the U.S. Navy to the City. The City plans to develop the Shipyard as a residential area. The area in which Building 606 is located is planned to be public open space as an amenity for nearby residences. Prior to the transfer of the property, the Navy is obligated to remove and mitigate hazardous materials in the soil. To fulfill that obligation, the Navy may have to demolish Building 606. Due to the current macro-economic uncertainties, the schedule for completing the site clean-up and creating the open space in support of the housing development is uncertain, but may occur between 2018 and 2020.

Project Status: CEQA process has been completed. Agreement to Implement Mitigation Measures was signed on September 30, 2013 and included 3 mitigation measures: M-CP-2: Archeology Resources (Testing), M-AQ-2: Construction Emissions Minimization, M-AQ-4: Best Available Control Technology (BACT) for Diesel Generators, and 3 improvement measures: I-TR-1: Transportation Demand Management Plan, I-TR-2: Construction Measures, I-TR-3: Queue Abatement. PMND and Agreement to Implement Mitigation

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Measures were published on October 2, 2013. Public review period ended on October 25, 2013, and there were no comments. Final Mitigated Negative Declaration (FMND) was published on November 19, 2013.

Site lease agreement with purchase option was approved by the Board, and Resolution was signed by Mayor Lee on November 12, 2013. ARUP commenced geotechnical survey (site soil borings) on September 25, 2013 and completed its work on October 25, 2013. Draft soils report was submitted on December 19, 2013. Final report was submitted on February 19, 2014. The report states that the “near surface soils and the underlying Bay Mud are not suitable for foundation support and the new buildings should be supported on a pile foundation gaining support in bedrock.” Alternate approaches are being discussed and further evaluation will occur once the A/E design team is on board by mid April 2015.

A Hybrid IPD delivery method was decided for this project, which would include a CM/GC together with the core trade subcontractors (mechanical, electrical, plumbing, and exterior building enclosure). IPD - CM/GC with Core Trade Subcontractors project delivery method was approved by the City Administrator on May 20, 2014 as a viable project delivery methodology for the TC&FSD. This approach required an ordinance that was introduced on July 29, 2014. The Ordinance was heard and approved by the Budget and Finance Committee on September 17, 2014, and the BOS approved the ordinance on September 30, 2014, with Mayor’s approval obtained on October 9, 2014.

A/E RFQ was advertised and published on August 7, 2014. Six companies responded to the RFQ: AECOM, HKS, HOK, KMD, Perkins + Will, and SmithGroup. HOK, KHS, and SmithGroup were shortlisted for oral interviews, which were conducted on November 7, 2014. HOK was the successful candidate. Contract negotiations kickoff meeting was held on December 22, 2014. CMSS RFQ was advertised/published on October 28, 2014. Pre-proposal conference took place on November 14, 2014. On December 19, 2014 six companies submitted responses to the RFQ: SGI/ Thier – JV, Jacobs, Cumming, ABA Global, Inc., Skanska/ AE3 Partners, Inc. – JV, and Vanir/ CM Pros – JV.

Haz Mat evaluation of the existing building material has been discussed with Millennium Consulting Associates and DPW’s structural/geotechnical engineers. Millennium submitted a proposal for pre-demolition survey for asbestos and lead containing materials for buildings located at 1995 Evans Avenue on January 24, 2014. NTP to Millennium was issued on September 29, 2014. Final report is due in April 2015.

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Maher Ordinance application and supporting documents were submitted to SFDPH on February 20, 2014. AEW Engineering submitted Final report on October 10, 2014. No contaminants exceeding allowable levels were discovered. SFDPH issued a letter confirming the findings on December 1, 2014 that provided recommendation for additional sampling and soil handling, which will be procured via AEW Engineering by April 2015..

District Police Stations (ESER 2014)

Projects' Description:

The projects to be defined for this \$30M component of ESER 2014 will be as a result of the findings assembled from the study of all police facilities conducted prior to the June 2014 ballot. The San Francisco Police Department District Station Facility Standards and Guidelines Study provided the insights necessary to reliably dedicate bond funds strategically among all police facilities.

The study informed the estimated total cost to address facilities needs for the SFPD, expressed in 2019 dollars, as \$253M. The report did not set out a schedule of projects as additional reconnaissance and appraisal of facilities conditions is necessary to define the budget of the eventual projects.

Projects' Status

With pre-bond general funds, the City was able to render the body of knowledge and perspective developed through the study mentioned here.. The receipt of the first tranche of bond funds., has enables additional study has initiated of the following:

- Exterior building envelope elements such as roofs, windows, doors and walls
- Mechanical, Electrical and Plumbing systems (cost estimating)
- ADA public access improvements
- Historical analyses
- Structural/seismic strength

Beginning fourth quarter 2014 and first quarter 2015, the first array of Focus Scope projects to be executed in calendar year 2015 will be planned and designed and progressively bid. Given the bond sum of \$30M for police facilities against the approximate total need of \$250M, it is expected that the majority of projects to be assembled and delivered under ESER 2014 for police facilities will be within the Focus Scope category.

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

Budget, Funding and Expenditures

ESER 2010

Budget and Funding

The budget for the ESER 2010 Bond Program is \$412,300,000. There are three additional funding sources managed under this program. (1) As part of the Annual Appropriation Ordinance FY 12/13 (AAO 164-12), the Fire Department received authorization to appropriate \$8,272,000 to supplement Station No. 35 Fire Boat, a project under Neighborhood Fire Stations component, and two non-ESER related projects. (2) An additional \$38,696 was allocated to the Neighborhood Fire Stations to fund Station 35 Slab Repair project, a non-ESER related project. (3) The Public Safety Building received \$5,721,909 from the City's general fund to manage and procure the furniture, fixtures and equipment (FF&E) for the Public Safety Building and Station No. 4. FF&E is not a bond eligible expense. The combined budget is \$426,332,604 with an appropriation of \$386,882,942. The following is a summary of the budget and appropriation by component:

ESER 2010 Components	Budget	Appropriation
Public Safety Building	239,000,000	239,000,000
Neighborhood Fire Stations (NFS)	64,000,000	42,114,353
Auxiliary Water Supply System (AWSS)	102,400,000	102,400,000
Oversight, Accountability & Cost of Issuance	6,900,000	3,368,589
Total (CESER1)	412,300,000	386,882,942
Fire Facility Bond Funds		
7424A Fire Boat/ Fire Station No. 35	7,192,000	7,151,723
7433A Fire Boat/Fire Station No. 35 Slab Repair (CFCBLDFD33/3CFPSLOC)	358,000	398,300
7433A Fire Boat/Fire Station No. 35 Slab Repair (CFC918 000298)	38,696	38,696
7444A FF&E Fire Station #1 (CFCBLDFD44/3CFPSLOC)	722,000	721,977
Total (CFCBLDFD)	8,310,696	8,310,696
Public Safety Building FF&E		
7410A Public Safety Building	5,721,909	5,721,909
Total (1GAGFACP)	5,721,909	5,721,909
Combined Total (ESER2010+Fire Facility Funds+7410A FF&E)	426,332,605	400,915,547

DPW and SFPUC received the proceeds of the Fifth Bond Sale in early October and it increased the appropriation to \$386,882,942. A future bond sale of \$24.995M will be needed to complete the funding for NFS.

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

The budget and appropriation for PSB is \$239,000,000. The appropriation reflects the proceeds of the first, second and fifth bond sales and is shown in detail under Attachment 1 – Program Budget Report.

The budget for NFS is \$64,000,000. The appropriation of \$42,114,353 reflects the proceeds of the first, second, fourth and fifth bond sales and is shown in detail under Attachment 1 – Program Budget Report. Additional bond sale(s) totaling \$21,869,889 would be necessary to complete the funding for NFS.

The budget and appropriation for AWSS is \$102,400,000. The appropriation reflects the proceeds of the first, third, fourth and fifth bond sales and is shown in detail under Attachment 1 – Program Budget Report.

The budget for other costs such as the Controller’s Audit Fund, Citizens General Obligation Bond Oversight Committee, Cost of Issuance and Underwriters’ Discount is \$6,900,000. The appropriation of \$3,368,589 reflects the proceeds of the five bond sales and is shown in detail under Attachment 1 – Program Budget Report.

The Accountability reports for the second thru fifth bond sales are available on the ESER website at <http://www.sfearthquakesafety.org/eser-2010-reports.html>.

Expenditures and Encumbrances

Total expenditures and encumbrances through December 31, 2014 are \$283,640,021 and \$33,045,498 respectively. The combined totals represent 82% of the appropriation of and 77 % of the budget.

The expenditures for the Fire Facility Bond Funds through September 30 are \$995,829 which represent 12% of the appropriation and budget.

The total expenditures for the PSB FF&E are \$1,209,215 and encumbrance is 435,456,826 which represent 63% of the appropriation and the budget.

Refer to [Attachment 1 – Program Budget Report](#) for a detailed breakdown of the expenditures.

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

ESER 2014

The ESER 2014 budget is \$400M. The proceeds of the first bond sale totaling \$100,670,000 were appropriated in early October 2014. The following table shows the budget and appropriation per component.

Component	Budget	First Bond Sale	Expenditures	Pre-Bond
Neighborhood Fire Station	83,555,000	8,150,600	70,940	3,600
Auxiliary Water Supply System	54,065,000	20,000,000	20,060,000	
District Police Station	29,490,000	6,882,940	1,788	289,241
Traffic Control & Forensic Division Services	162,195,000	30,319,673	26,548	2,842,084
Office of the Chief Medical Examiner	63,895,000	34,252,621	651,545	6,637,391
Subtotal	393,200,000	99,605,834	20,810,821	9,772,316
Controller's Audit Fund	800,000	199,212	-	
GOBOC	400,000	100,670	-	
COI	5,600,000	764,284	269,724	
Subtotal	6,800,000	1,064,166	269,724	
Total	400,000,000	100,670,000	21,080,545	
OTO TO 4D/GOB-GEN		10,004,901	10,004,901	
First Bond Sale Amount		110,674,901	31,085,446	

Attachments

Earthquake Safety and Emergency Response Bond Program

(ESER 2010 & 2014)

Attachment 1 – Program Budget Report

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14								
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance
PUBLIC SAFETY BUILDING								
CONSTRUCTION	PUBLIC SAFETY BUILDING (CESER1 PS; 7400A & 7410A)	Soft Costs	46,681,627	41,890,372		40,278,459	817,503	794,410
		Construction	191,654,469	189,263,383		180,661,694	8,781,481	-179,792
		Project Contingency	663,904	7,846,244		0	1,682,721	6,163,523
		Subtotal	239,000,000	239,000,000	0	220,940,153	11,281,705	6,778,141
NEIGHBORHOOD FIRE STATIONS								
VARIOUS	FOCUSED SCOPE (CESER1 FS 31, 32, 34, 35, 36, 37, 39) (Job Orders 7431A, 7432A, 7434A, 7435A, 7436A, 7437A, 7439A)	Soft Costs	2,628,813	2,228,324		2,258,882	7,043	-37,601
		Construction	9,190,145	8,047,658		7,389,902	590,735	67,021
		Construction Contingency	399,618	581,197		0	0	581,197
		Subtotal	12,218,577	10,857,180	0	9,648,785	597,778	610,617
PLANNING	COMPREHENSIVE: STATION 44 (CESER1 FS38; Job Order 7438A)	Soft Costs	382,001	380,542		380,157	0	385
		Construction	1,180,620	1,000,813		1,000,813	0	0
		Construction Contingency	4,644	4,644		0	0	4,644
		Subtotal	1,567,265	1,385,999	0	1,380,970	0	5,029
PLANNING	COMPREHENSIVE: STATION 36 (CESER1 FS27; Job Order 7427A)	Soft Costs	1,056,024	1,163,148		1,067,540	68,362	27,246
		Construction	3,462,077	3,970,290		3,919,537	50,752	1
		Construction Contingency	280,116	174,572		0	0	174,572
		Subtotal	4,798,217	5,308,010	0	4,987,077	119,114	201,819
PLANNING	SEISMIC: STATION 5 (New 2-story) (CESER1 FS40; Job Order 7440A)	Soft Costs	2,641,799	1,264,579		942,571	415,841	-93,833
		Construction	10,313,908	0		0	0	0
		Construction Contingency	883,050	0		0	0	0
		Subtotal	13,838,757	1,264,579	0	942,571	415,841	-93,833
PLANNING	SEISMIC: STATION 9 UTILITY ISOLATION (CESER1 FS41; Job Order 7441A)	Soft Costs	80,000	80,000		0	0	80,000
		Construction	96,000	96,000		0	0	96,000
		Construction Contingency	24,000	24,000		0	0	24,000
		Subtotal	200,000	200,000	0	0	0	200,000
PLANNING	SEISMIC: STATION 16 (New 2-story) (CESER1 FS42; Job Order 7442A)	Soft Costs	1,802,920	1,963,777		1,645,843	122,019	195,914
		Construction	6,421,770	17,841		17,841	0	0
		Construction Contingency	616,968	0		0	0	0
		Subtotal	8,841,657	1,981,618	0	1,663,684	122,019	195,914

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14									
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance	
PLANNING	NEW PIER FIRE BOAT HEADQUARTERS (CESER1 FS24; Job Order 7424A)	Soft Costs	2,955,945	726,450		101,697	0	624,753	
		Construction	6,080,665	0		0		0	
		Project Contingency	956,525						0
		Subtotal	9,993,136 (1)	726,450	0	101,697	0	624,753	
PLANNING	EQUIPMENT LOGISTICS CENTER (CESER1 FS26; Job Order 7425A)	Soft Costs	589,000	17,680		8,179	0	9,501	
		Construction						0	
		Project Contingency						0	
		Subtotal	589,000	17,680	0	8,179	0	9,501	
PLANNING	PROGRAM-WIDE SOFT COSTS & PROGRAM RESERVE (CESER1 FS20; CESER1 FS30 Job Orders 7420A; 7429A, 7430A)	Soft Costs	11,217,709	8,010,188		7,476,654	493,367	40,166	
		Construction						0	
		Program Reserve	735,682					0	
		Subtotal	11,953,391	8,010,188	0	7,476,654	493,367	40,166	
PLANNING	NEIGHBORHOOD FIRE STATIONS SUMMARY (CESER1 FS)	Soft Costs	29,915,544	15,834,687	0	13,881,523	1,106,632	846,532	
		Construction	30,183,853	13,132,602	0	12,328,094	641,487	163,022	
		Project Contingency	3,900,603	784,413	0	0	0	784,413	
		NFS GOB Proceeds	0	12,362,651		0	0	12,362,651	
		Subtotal	64,000,000 (1)	42,114,353	0	26,209,617	1,748,119	14,156,618	

(1) The forecasted need for NFS 2010 projects as developed subsequent to the passage of the Bond is approximately \$84M which is \$20M above the ESER 2010 Bond Funds of \$64M as a result of initial programming assumptions, market conditions, added scope, and unforeseen conditions. The specific projects driving the additional costs are Stations 5, 16 and 35. These costs will be mitigated by the anticipated savings of the Public Safety Building and proceeds from ESER 2014. The SFFD endorses the forecasted need and the proposed mitigation.

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14								
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance
AUXILIARY WATER SUPPLY SYSTEM (AWSS)								
PRE-BOND PLANNING AND DEVELOPMENT								
PLANNING	Pre-Bond Planning and Development							
		Soft Costs	1,316,963	1,316,963		1,316,963	0	0
		Construction	0	0		0		0
		Project Contingency						0
		Subtotal	1,316,963	1,316,963	0	1,316,963	0	0
AUXILIARY WATER SUPPLY SYSTEM (AWSS)								
Design	Jones Street Tank							
		Soft Costs	3,522,613	2,389,063		1,838,043	8,602	542,417
		Construction	4,225,034	4,225,034		107,370	4,117,664	0
		Project Contingency	343,853					0
		Subtotal	8,091,500	6,614,097	0	1,945,413	4,126,266	542,417
Design	Ashbury Heights Tank							
		Soft Costs	1,599,739	1,313,404		1,247,620	31,169	34,614
		Construction	3,610,805	3,610,805		3,172,579	438,226	0
		Project Contingency	271,247					0
		Subtotal	5,481,791	4,924,209	0	4,420,199	469,395	34,614
Design	Twin Peaks Reservoir							
		Soft Costs	1,305,819	1,908,774		805,430	355,322	748,022
		Construction	1,480,061	1,480,061		1,207,241	272,820	0
		Project Contingency	119,571					0
		Subtotal	2,905,451	3,388,835	0	2,012,671	628,142	748,022
PLANNING	Pump Station No. 2							
		Soft Costs	9,510,082	5,283,940		3,010,347	125,352	2,148,241
		Construction	4,501,780	10,120,000		0	0	10,120,000
		Project Contingency						0
		Subtotal	14,011,862	15,403,940	0	3,010,347	125,352	12,268,241
Design	Pump Station No. 1							
		Soft Costs	4,321,929	3,518,182		2,363,955	133,929	1,020,298
		Construction	8,631,700	8,631,700			8,631,700	0
		Project Contingency						0
		Subtotal	12,953,629	12,149,882	0	2,363,955	8,765,629	1,020,298

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14								
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance
	FIREFIGHTING CISTERNS							
Design	Contract No. 1	Soft Costs	508,057	508,057		508,057	0	0
		Construction	0	0		0	0	0
		Project Contingency						0
		Subtotal	508,057	508,057	0	508,057	0	0
Design	Contract No. 2	Soft Costs	7,481,289	12,233,657		5,053,383	463,076	6,717,198
		Construction	27,208,775	17,864,605		9,129,737	4,062,783	4,672,085
		Project Contingency						0
		Subtotal	34,690,064	30,098,262	0	14,183,120	4,525,859	11,389,283
Design	Contract No. 3	Soft Costs	50,718	51,047		50,718	0	329
		Construction	0	0		0	0	0
		Project Contingency						0
		Subtotal	50,718	51,047	0	50,718	0	329
Design	Contract No. 4	Soft Costs	124,191	124,191		124,191	0	0
		Construction	0	0		0	0	0
		Project Contingency						0
		Subtotal	124,191	124,191	0	124,191	0	0

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14								
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance
PRE-DESIGN	FIREFIGHTING PIPES AND TUNNELS AWSS Modernization CIP Study	Soft Costs	2,765,591	2,885,150		2,737,698	28,929	118,523
		Construction	0	0		0	0	0
		Project Contingency	0					0
		Subtotal	2,765,591	2,885,150	0	2,737,698	28,929	118,523
PLANNING	Pipes/Tunnels (Projects 11 thru 19)	Soft Costs	6,079,294	4,808,186		1,832,539	736,995	2,238,651
		Construction	13,036,482	879,477		179,477	0	700,000
		Project Contingency						0
		Subtotal	19,115,776	4,185,974	0	1,630,985	177,417	2,377,572
PLANNING	Contract No. 2 Added to baseline budget above-->	Soft Costs		0		0	0	0
		Construction						0
		Project Contingency						0
		Subtotal	0	0	0	0	0	0
PLANNING	Contract No. 3 Added to baseline budget above-->	Soft Costs		0		0	0	0
		Construction						0
		Project Contingency						0
		Subtotal	0	0	0	0	0	0
PLANNING	CUW AWS 01	Soft Costs	384,408	19,247,704		115,915	0	19,131,792
		Construction	0	0				0
		Project Contingency						0
		Subtotal	384,408	19,415,921	0	139,514	51,610	19,224,802
AUXILIARY WATER SUPPLY SYSTEM (AWSS)	Soft Costs	38,970,693	55,588,318		21,004,858	1,883,375	32,700,085	
	Construction	62,694,637	46,811,682		13,796,405	17,523,192	15,492,085	
	Project Contingency	734,671	0		0	0	0	
	Subtotal	102,400,000	102,400,000	0	34,801,263	19,406,567	48,192,170	

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Earthquake Safety & Emergency Response Bond Program ESER 2010 Program Budget Report - Expenditures as of 12/31/14								
Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS Encumbrance	Balance
ESER								
		Soft Costs	115,567,864	113,313,377	0	75,164,841	3,807,509	34,341,027
		Construction	284,532,959	261,570,318	0	206,786,192	26,946,160	27,837,966
		Project Contingency	5,299,178	8,630,657	0	0	1,682,721	6,947,936
		Subtotal	405,400,000	383,514,353	0	281,951,033	32,436,391	69,126,929
BOND OVERSIGHT/ACCOUNTABILITY			6,900,000	1,155,213		382,384	609,107	163,722
BOND COST OF ISSUANCE				2,213,376		1,306,604 ⁽²⁾	0	906,772
TOTAL ESER 2010 (CESER1)			412,300,000⁽³⁾	386,882,941	0	283,640,021	33,045,498	70,197,422

As of 10/08/14, the FAMIS fiscal month 03 2015 (September 2014), actual expenditures are \$334,377,241. The variances from the report are as follows:

<p>(1) The transfer out to PUC AWSS is shown as actual (0935W OTO TO 5W-WATER DE) (a) less \$29,843,822 for actuals per FAMIS Project structure CUW AWS AW posted as of 10/08/14</p> <p>(2) Bond Sale Premiums: (a) The underwriters discount of \$211,953 was separated from the premium \$5,118,923 (b) deducted underwriters discount \$211,953 from 0934G OTO TO 4D/GOB-GEN and added it to 07311 BOND ISSUANCE COST (c) The Second Bond Sale premium of \$16,898,267 (0934G) (d) The Third Bond Sale premium of \$6,213,547 (0934G) (e) The Fourth Bond Sale premium of \$2,606,055.70 (0934G)</p> <p>Total (CESER1)</p>	<p>\$102,568,217 (\$34,801,263) (21,455.00) \$5,118,923 (\$211,953) \$16,898,268 \$6,213,547 \$2,606,056 \$382,010,347</p>
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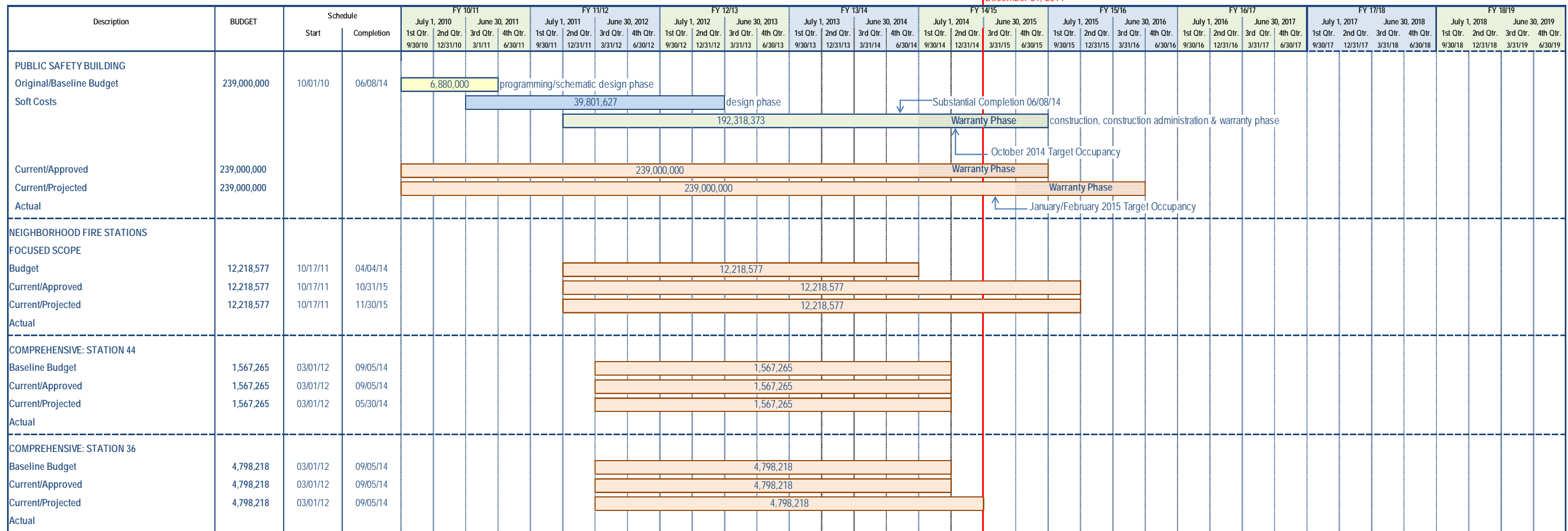
Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

OTHER SOURCES: Fire Facility Bond Funds & PSB FF&E

Status	Project	Category	Baseline Budget	Appropriated	Reserve	Expended	FAMIS	
							Encumbrance	Balance
PLANNING	NEW PIER FIRE BOAT HEADQUARTERS (CFCBLDFD24; Job Order 7424A) Fire Facility Bond Funds	Soft Costs	0	0		0	0	0
		Construction	7,192,000	7,151,723				7,151,723
		Project Contingency	0					0
		Subtotal	7,192,000	7,151,723	0	0	0	7,151,723
PLANNING	FIRE BOAT SLAB REPAIR (Non-ESER1 related) (CFCBLDFD33, CFC918 000298 Job Order 7433A) Fire Facility Bond Funds	Soft Costs	165,446	171,415		168,669	0	2,746
		Construction	192,554	244,345		223,652	0	20,693
		Project Contingency	38,696	21,235				21,235
		Subtotal	396,696	436,995	0	392,321	0	44,674
PLANNING	FIRE STATION NO. 1 FF&E (Non-ESER1 related) (CFCBLDFD44; Job Order 7444A) Fire Facility Bond Funds	Soft Costs	207,600	208,000		114,562	0	93,438
		Construction	514,400	513,977		488,946	0	25,031
		Project Contingency		0				0
		Subtotal	722,000	721,977	0	603,508	0	118,469
PUBLIC SAFETY BUILDING								
CONSTRUCTION	PUBLIC SAFETY BUILDING (7410A)	FF&E	5,721,909	5,721,908		1,209,215	2,411,328	2,101,365
Combined Total (ESER2010+Fire Facility Funds+7410A FF&E)			426,332,605 ⁽³⁾	400,915,544	0	285,845,065	35,456,826	79,613,653

Attachment 2 – Timeline and Schedule

EARTHQUAKE SAFETY EMERGENCY RESPONSE BOND PROGRAM
 Timeline and Schedule



Earthquake Safety and Emergency Response Bond Program
(ESER 2010 & 2014)

EARTHQUAKE SAFETY EMERGENCY RESPONSE BOND PROGRAM
Timeline and Schedule

Description	BUDGET	Schedule		FY 10/11				FY 11/12				FY 12/13				FY 13/14				FY 14/15				FY 15/16				FY 16/17				FY 17/18				FY 18/19									
				Start		Completion		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.							
				9/30/10	12/31/10	3/31/11	6/30/11	9/30/11	12/31/11	3/31/12	6/30/12	9/30/12	12/31/12	3/31/13	6/30/13	9/30/13	12/31/13	3/31/14	6/30/14	9/30/14	12/31/14	3/31/15	6/30/15	9/30/15	12/31/15	3/31/16	6/30/16	9/30/16	12/31/16	3/31/17	6/30/17	9/30/17	12/31/17	3/31/18	6/30/18	9/30/18	12/31/18	3/31/19	6/30/19						
December 31, 2014																																													
PUBLIC UTILITIES COMMISSION / AUXILIARY WATER SUPPLY SYSTEM (AWSS)																																													
PRE-BOND PLANNING AND DEVELOPMENT																																													
Original/Baseline Budget	1,316,963	07/01/09	12/31/10	1,316,963																																									
Current/Approved	1,316,963	07/01/09	12/31/10	1,316,963																																									
Current/Projected	1,316,963	07/01/09	12/31/10	1,316,963																																									
Actual	1,316,963	07/01/09	12/31/10	1,316,963																																									
AWSS JONES STREET TANK																																													
Original/Baseline Budget	8,091,500	08/01/11	01/27/12	181,300		882,302																																							
		01/30/12	04/19/13																																										
		04/22/13	05/27/16					7,027,898																																					
Current/Approved	8,091,500																																												
Current/Projected	8,091,500																																												
Actual																																													
AWSS ASHBURY HEIGHTS TANK																																													
Original/Baseline Budget	5,481,791	07/25/11	02/29/12	147,500		1,012,191																																							
		02/29/12	04/19/13																																										
		04/22/13	05/27/16					4,322,100																																					
Current/Approved	5,481,791																																												
Current/Projected	5,481,791																																												
Actual																																													
AWSS TWIN PEAKS RESERVOIR																																													
Original/Baseline Budget	2,905,451	06/01/11	01/27/12	203,600		732,247																																							
		01/30/12	04/19/13																																										
		04/22/13	05/27/16					1,969,604																																					
Current/Approved	2,905,451																																												
Current/Projected	2,905,451																																												
Actual																																													
AWSS PUMP STATION NO. 2																																													
Original/Baseline Budget	14,011,862	7/25/2011	9/25/2012	584,255		1,855,327																								11,572,280															
		9/26/2012	5/14/2015																																										
		5/15/2015	9/26/2016																																										
Current/Approved	14,011,862																																												
Current/Projected	14,011,862																																												
Actual																																													

Earthquake Safety and Emergency Response Bond Program
(ESER 2010 & 2014)

EARTHQUAKE SAFETY EMERGENCY RESPONSE BOND PROGRAM
Timeline and Schedule

Description	BUDGET	Schedule		FY 10/11				FY 11/12				FY 12/13				FY 13/14				FY 14/15				FY 15/16				FY 16/17				FY 17/18				FY 18/19						
		Start	Completion	July 1, 2010		June 30, 2011		July 1, 2011		June 30, 2012		July 1, 2012		June 30, 2013		July 1, 2013		June 30, 2014		July 1, 2014		June 30, 2015		July 1, 2015		June 30, 2016		July 1, 2016		June 30, 2017		July 1, 2017		June 30, 2018		July 1, 2018		June 30, 2019				
				1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.			
AWSS PUMP STATION NO. 1 Original/Baseline Budget	3,453,628	7/25/2011	1/31/2012					128,324					2,158,795													10,666,510																
Current/Approved	12,953,629																																									
Current/Projected	12,953,629																																									
Actual																																										
FIREFIGHTING CISTERNS - CONTRACT NO. 1 Original/Baseline Budget	508,350	7/8/2011	1/30/2012					62,860					445,490																													
Current/Approved	508,057																																									
Current/Projected	508,057																																									
Actual																																										
FIREFIGHTING CISTERNS - CONTRACT NO. 2 Original/Baseline Budget	34,538,945	1/30/2012	4/15/2015										8,563,894													25,975,051																
Current/Approved	34,690,064																																									
Current/Projected	34,690,064																																									
Actual																																										
FIREFIGHTING CISTERNS - CONTRACT NO. 3 Original/Baseline Budget	51,047	7/2/2012	9/27/2012										51,047																													
Current/Approved	50,718																																									
Current/Projected	50,718																																									
Actual																																										
FIREFIGHTING CISTERNS - CONTRACT NO. 4 Original/Baseline Budget	124,402	7/2/2012	7/19/2013										124,402																													
Current/Approved	124,191																																									
Current/Projected	124,191																																									
Actual																																										

December 31, 2014

EARTHQUAKE SAFETY EMERGENCY RESPONSE BOND PROGRAM
Timeline and Schedule

Description	BUDGET	Schedule Start Completion		FY 10/11				FY 11/12				FY 12/13				FY 13/14				FY 14/15				FY 15/16				FY 16/17				FY 17/18				FY 18/19																														
				July 1, 2010		June 30, 2011		July 1, 2011		June 30, 2012		July 1, 2012		June 30, 2013		July 1, 2013		June 30, 2014		July 1, 2014		June 30, 2015		July 1, 2015		June 30, 2016		July 1, 2016		June 30, 2017		July 1, 2017		June 30, 2018		July 1, 2018		June 30, 2019																												
				1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.																											
FIREFIGHTING PIPES AND TUNNELS - AWSS MODERNIZATION CIP STUDY																																																																		
Original/Baseline Budget	3,000,000																																																																	
		5/2/2011	6/30/2014			2,765,591																Planning																																												
Current/Approved	2,765,591																																																																	
Current/Projected	2,765,591																																																																	
Actual																																																																		
FIREFIGHTING PIPES AND TUNNELS (Projects 11-19)																																																																		
Original/Baseline Budget	28,615,775																																																																	
		10/3/2011	6/30/2015			1,181,022																Planning																																												
			4/1/2014	7/19/2016																																																														
			11/6/2014	9/26/2018																																																														
Current/Approved	19,115,776																																																																	
Current/Projected	19,115,776																																																																	
Actual																																																																		
CUW AWS 01																																																																		
Original/Baseline Budget	300,286																																																																	
		1/1/2011	9/26/2018			384,408																																																												
Current/Approved	384,408																																																																	
Current/Projected	384,408																																																																	
Actual																																																																		
AUXILIARY WATER SUPPLY SYSTEM (AWSS) SUB-TOTAL																																																																		
Original/Baseline Budget	102,400,000																																																																	
Current/Approved	102,400,000																																																																	
Current/Projected	102,400,000																																																																	
Actual																																																																		

Earthquake Safety and Emergency Response Bond Program
(ESER 2010 & 2014)

EARTHQUAKE SAFETY EMERGENCY RESPONSE BOND PROGRAM
Timeline and Schedule

Description	BUDGET	Schedule		FY 10/11				FY 11/12				FY 12/13				FY 13/14				FY 14/15				FY 15/16				FY 16/17				FY 17/18				FY 18/19			
				Start	Completion	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.		
				9/30/10	12/31/10	3/1/11	6/30/11	9/30/11	12/31/11	3/31/12	6/30/12	9/30/12	12/31/12	3/31/13	6/30/13	9/30/13	12/31/13	3/31/14	6/30/14	9/30/14	12/31/14	3/31/15	6/30/15	9/30/15	12/31/15	3/31/16	6/30/16	9/30/16	12/31/16	3/31/17	6/30/17	9/30/17	12/31/17	3/31/18	6/30/18	9/30/18	12/31/18	3/31/19	6/30/19
December 31, 2014																																							
BOND OVERSIGHT/ACCOUNTABILITY																																							
Original/Baseline Budget	6,900,000																																						
Current/Approved	6,900,000																																						
Current/Projected	6,900,000																																						
Actual																																							
Cost of Issuance																																							
Original/Baseline Budget	6,900,000																																						
Current/Approved	6,900,000																																						
Current/Projected	6,900,000																																						
Actual																																							
ESER TOTAL																																							
Original/Baseline Budget	412,300,000	10/01/10	09/26/18	412,300,000																																			
Current/Approved	412,300,000																																						
Current/Projected	412,300,000																																						
Actual	412,300,000																																						

Legend:

- Programming/Schematic Design Phase/ Pre- Design
- Design Development Phase
- Construction and Construction Administration

Prepared by San Francisco Public Works
Revised 01/20/15

Earthquake Safety and Emergency Response Bond Program (ESER 2010 & 2014)

Attachment 3 – Contact Information



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Public Utilities Commission

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