PERALTA COMMUNITY COLLEGE DISTRICT

FACILITIES, TECHNOLOGY MASTER PLAN UPDATE | JANUARY 23, 2018

BOARD UPDATE: Draft Facilities Technology Master Plan











Agenda

- Draft 2017 FTMP Update Document Overview
- Key Drivers of the District Needs
- Phase One: Campus Priorities
 - Technology
 - Berkeley City College
 - College of Alameda
 - Laney College
 - Merritt College
 - District Sites: District Office & 860 Atlantic Avenue



Draft Facilities Technology Master Plan Document Overview

Draft FTMP

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Existing Campus Plan, Proposed Demolition Prioritization, Priority Projects Master Plan Priority Projects, Other Master Plan Projects

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8.0 Cost and Implementation.....141

Overview, Definitions Market Conditions - Escalation Priority Projects Cost Summary Implementation

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Draft FTMP

DOCUMENT ORGANIZATION

The summary results of the extensive, investigative, and collaborative master planning process are documented here. For more detail on Berkeley City College, College of Alameda, Laney College, and Merritt College, please refer to the individual campus' 2017 Facilities and Technology Master Plan. This document is organized as follows:

Chapter One summarizes the FTMP purpose, process, and key drivers for the entire District's Facilities, Technology and Infrastructure needs. It also provides a summary list of Priority Projects across the District.

Chapter Two documents the technology needs for the District, and provides guidelines for AudioVisual Systems, standards for Telecommunication Infrastructure, and Network, and Wi-Fi standards.

Chapter Three documents the Berkeley City College Master Plan, and the projects that comprise it.

Chapter Four documents the College of Alameda Master Plan, and the projects that comprise it, including Priority projects.

Chapter Five documents the District Administrative Complex, Workforce Development/Continuing Education, and the Genomics Institute Master Plans.

Chapter Six documents the Laney College Master Plan, and the projects that comprise it, including Priority projects.

Chapter Seven documents the Merritt College Master Plan, and the projects that comprise it, including Priority projects. Chapter Eight documents the Rough Order of Magnitude (ROM) Costs for the Priority projects, and Project Implementation.

Draft Facilities Technology Master Plan Key Drivers

Draft FTMP

DRIVERS BEHIND DISTRICT NEEDS

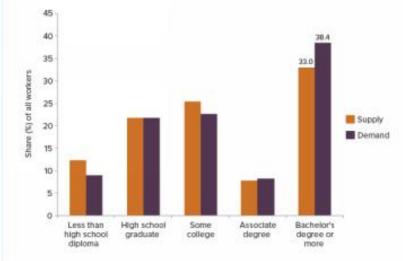
KEY DRIVERS FOR THE FTMP

The key drivers for the FTMP Update are:

- The needs arising out of each of the College's 2016 Educational Master Plans (EMPs);
- In particular the need to increase student success, retention, transfer and completion;
- And as indicated in the EMPs, the needs arising out of 21st Century changing teaching and learning pedagogies;
- And the need to increase recruitment, and retention, of faculty since 50% of PCCD faculty and staff are within retirement age;
- The needs arising out of the existing condition of facilities, and infrastructure at College of Alameda (including Aviation Maintenance Training Facility), District site, Laney College, and Merritt College;
- The needs arising out of the existing condition of technology at all District sites;
- Lack of Library space capacity at all four colleges: Berkeley City College, College of Alameda, Laney College, and Merritt College; and
- Lack of Lecture, Laboratories, and Office space capacity at Berkeley City College.

KEY FINDINGS FROM 2016 EMPS

The 2016 Educational Master Plans' main focus/goal is to increase student success, retention, transfer, and completion in alignment with State Student Success Act (SB 1456). This is also the top strategic goal for the District, as identified in the 2015 PCCD Strategic Plan, and reflects the concern that by 2030, California will be short by 1.1 million college graduates if current trends persist (according to the Public Policy Institute of California (PPIC) Higher Education Center).



Source: Johnson, Cueller Mejla, and Bohn, WV California Run Out of College Graduates? (PPIC 2015)

The 2016 EMPs identify a 1.0% - 1.1% per year college area population growth rate, and a decline in students less than 25 years old, which means that for the next five years the College is growth neutral.

Draft Facilities Technology Master Plan Technology

Draft Technology Master Plan

OVERVIEW

Master Plan

The Technology portion of the Facilities Master Plan covers the following:

- · Network wired and wireless (Wi-Fi)
- WAN and CENIC
- Telephony / VolP
- Telecommunications Infrastructure (telecom rooms/IDFs, pathways, cabling)
- Classroom Technologies
- Security Systems

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Within each of the categories above, there are subsystems that collectively comprise an overall system. The following pages delve into greater detail per subcategory.

The detail includes information regarding the current condition, an identification of what improvements are needed, and a general statement as to what the Master Plan includes and what (in general) the rough budget numbers at the end of this section cover.

Note, unlike the Facilities Master Plan, the Technology Master Plan only covers a period of <u>five years</u>. As such, the plan takes into account annual renewals and product life spans based on this time frame.

Guidelines & Standards

The following Technology Guidelines and Standards are located after the Technology Master Plan:

- Audiovisual Systems Design Guidelines
- Telecommunications Infrastructure Standards
- Network and Wi-Fi Standards

These Guidelines and Standards are applicable to all campuses, supersede any previous Standards, and will remain in effect until they are revised or updated by the District.

PRIORITY PROJECTS District-Wide Technology Needs

11	TEM
N	letwork and Wi-Fi Refreshes
В	lerkeley City College
С	college of Alameda
L	aney College
N	Aerritt College
D	District Office
F	irewalls
N	letwork Monitoring
N	Aaintenance Contracts
С	Sisco Maintenance Contract - per year
N	letworkConnect - per year
C	loud Data Storage - per year
C	loud Application Deployment - per year
P	ower and UPS Upgrades
S	ecurity Access Control Replacement
٧	lideo Surveillance Cameras
۷	ideo Surveillance Maint. Contract - per 3 year
E	mergency Call Stations
B	lackboard Connect
S	ubscription Fees
S	system/Infrastructure Upgrades
P	remises Radio System
D	luress Buttons and Intrusion Detection
P	rofessional Development/Training
1	R Sensors

Draft Facilities Technology Master Plan Berkeley City College Priority Projects

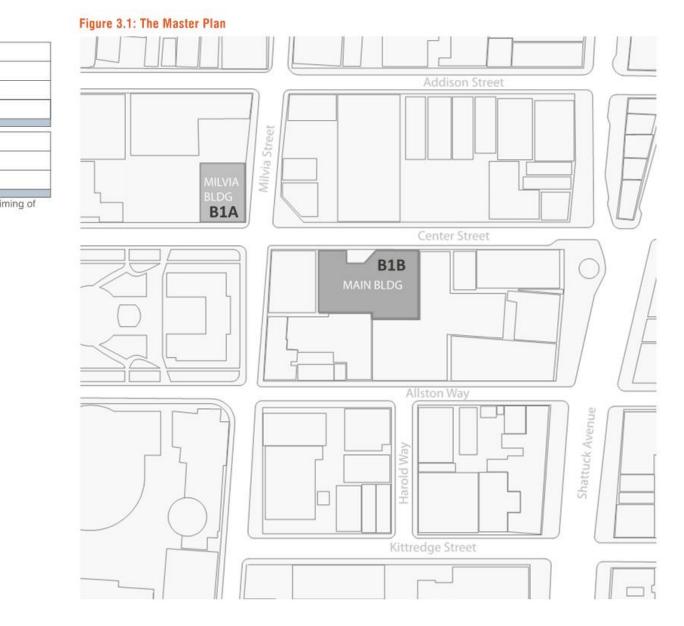
Berkeley PRIORITY PROJECTS Berkeley City College

	FACILITIES
B1A	Milvia Street 3rd Floor Build Out
B1B	Existing Main Building Reconfigurations
B4	Additional Facility and/or Land**

B2 Complete Wi-Fi Deployment

B3 Complete Network Upgrade Project

** Additional Facility and/or Land will depend on timing of available opportunities



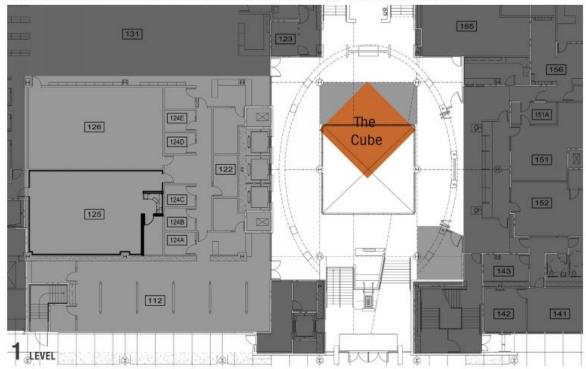
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Berkeley

Figure 3.1: Project B1a: Milvia Street 3rd Floor Build Out

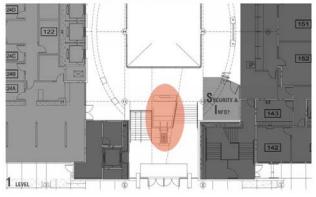


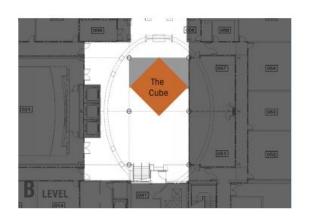
Figure 3.2: Project B1b: Existing Main Building Parital Reconfigurations - the Cube Idea

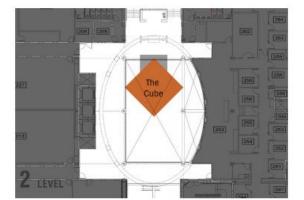


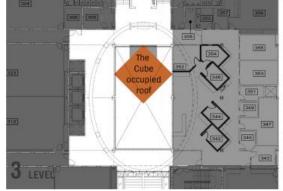


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Draft Facilities Technology Master Plan College of Alameda Priority Projects

Alameda

PRIORITY PROJECTS College of Alameda

	INFRASTRUCTURE
A1	Replace All Campus Major Electrical Equipment
A2	Upgrade / Replace Central Heating Hot Water Plant
A3	Civil Infrastructure Replacements

	FACILITIES
A4	C/D Replacement: Science & Administration
A5	Aviation Complex (Replacement)**
A6	Automotive/Diesel Complex (Replacement)
Α7	Performing Arts
A9	Modernize Student Center Building F

TECHNOLOGY

	A14	Main Campus Complete Wi-Fi Deployment
ľ	A15	Main Campus Complete Network Upgrade Project
	A16	Aviation Site Complete Wi-Fi Deployment
Ĩ	A17	Aviation Site Complete Network Upgrade Project
1		

PRIORITY PROJECTS Figure 4.5: 2017 Facilities Master Plan for Priority Projects Only (Inset: Aviation Campus)



Draft Facilities Technology Master Plan Laney College Priority Projects



	INFRASTRUCTURE
L1	Replace All Campus Major Electrical Equipment
L2	Replace / New Central Plant & Infrastructure
L3	Replace Domestic Hot Water System
L4	Replace Compressed Air System
 L5	Replace Domestic Water & Compressed Air Piping

 FACILITIES

 L6
 New Student and Welcome Center

 L7
 New STEAM Center

 L8
 New Library Learning Resource Center

 L9
 New Design & Manufacturing Center & Outdoor Work Area Canopy

 L10
 New / Replace Central Plant**

 L11
 Modernize Performing Arts (Theater & Partial G)

 L13
 New Community Building & Campus Green

TECHNOLOGY

L19 Complete Wi-Fi Deployment L20 Complete Network Upgrade Project

** Exact location and details to be determined by a Central Plant Study, in alignment with the SRMP.

PRIORITY PROJECTS Figure 6.5: 2017 Facilities Master Plan for Priority Projects Only



Draft Facilities Technology Master Plan Merritt College Priority Projects

Merritt PRIORITY PROJECTS

Merritt College

	INFRASTRUCTURE
M1	Replace All Campus Major Electrical Equipment
M2	Civil Infrastructure Replacements
	FACILITIES
М3	Replacement Building A
M4	Renovate Building D
M5	Renovate Building E and F
M9A	Combined Child Care Center & Child Development Center
M10	Horticulture Complex Replacement
M11	Kinesiology Physical Fitness Addition
M12	Site Improvement Projects
M15	Renovate Partial Building R

TECHNOLOGY

 M13
 Main Campus Complete Wi-Fi Deployment

 M14
 Main Campus Complete Network Upgrade Project

PRIORITY PROJECTS Figure 7.5: 2017 Facilities Master Plan for Priority Projects Only



Draft Facilities Technology Master Plan District Sites Priority Projects

District Sites

MASTER PLAN PROJECTS

District Sites

INFRASTRUCTURE

D3	Replace HVAC until New Complex
	Civil Infrastructure Replacements until New Complex

FACILITIES

D1	New Consolidated Administrative Complex (DAC)
	Child Care Center Renovation/Replacement

New Workforce Development and Continuing D2 Education Center (WDCE) Renovate 860 Atlantic Avenue, Alameda for Peralta D18

TECHNOLOGY	

See Technology List

Genomics Institute (PGI)

PRIORITY PROJECTS

D1: THE DISTRICT ADMINISTRATIVE COMPLEX (DAC) is a new consolidated facility that will replace the existing

District Administrative Complex, Admissions and Records Building, Physical Plant Building, and Warehouse/Storage Buildings. Location is to be determined: within PCCD service area, and close to public transportation. Preliminary Assumptions:

- Size: 60.000 GSF / 40.000 ASF
- Height: 3 stories
- Programs: District Administration, Finance, Information Technology, Facilities & Planning, Purchasing, and Warehousing
- Site Improvements: exterior welcoming plaza, and ٠ garden spaces
- Other: built flexibly to allow departments to change ٠ sizes as needed

Other Considerations:

Child Center Renovation or Replacement: the existing . District operated Child Care Center at Laney College is need of renovation or replacement. Depending on location of the new District Administrative Complex, there may be a desire to collocate the Child Care Center with the DAC.

PRIORITY PROJECTS District Site

D2: WORKFORCE DEVELOPMENT AND CONTINUING EDUCATION CENTER (WDCE)

is a new facility that will expand the much needed services of the Workforce Development and Continuing Education Center. As identified in the Educational Master Plans for all colleges, there is a rising demand for Corporate Training, Professional Development and non-credit Continuing Education in the 24 - 34 age group in particular. In order to avoid duplication and inefficient use of resources, the District proposes that this should be located in one new facility, near public transportation. If feasible, it should be located adjacent to the new DAC, for this will offer operational efficiencies, and opportunities to share spaces.

- Size: 25.000 GSF / 17..000 ASF
- Height: 2 stories
- Programs: Workforce Development and Continuing Education
- Site Improvements: exterior welcoming plaza, and garden spaces

PRIORITY PROJECTS 860 Atlantic Avenue, Alameda

D18: PERALTA GENOMICS INSTITUTE

860 Atlantic Avenue, Alameda, will be renovated to expand the existing research-based Genomics program into the Peralta Genomics Institute (PGI). Genomics is one of the fastest growing industries requiring high technical training. and the PGI will attract local students for profitable careers in this rapidly growing field. In addition, the institute is poised to be largely self-sustaining, by conducting DNA prep and sequencing for others, as well as creating novel course work delivered for profit through a series of webinars. Preliminary Assumptions:

- Size: 26.000 GSF / 19.600 ASF
- Height: 1 story
- Programs: Genomics
 - Renovations: roofing; air conditioning, electrical (increase capacity) and backup generator required because negative freezers house valuable samples; increase technology bandwidth drastically (huge amounts of data transmitted); existing Genomics area very minor adjustments, rest of the building will require reconfiguration and replacement of outdated equipment; add some lab systems (deionized water, nitrogen etc); and signage.

Other Considerations:

Secondary Effects: project requires CoA Science programs and the Merritt Medical Genomics program to move out.



District Site