



Office of the City Engineer

CITY OF PHOENIX

Introductions

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Vertical Project Management (VPM)

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*The best method of overcoming
obstacles is the team method*

- COLIN POWELL

City Engineer Office

Responsible for overseeing the selection of architects, engineers & contractors to execute the City's 5-year, \$7.7 billion Capital Improvement Program.

In 2013, was recognized as a Top 20 Under 40 for ENR.

CEO Oversees:

- ❖ Design and Construction Procurement
- ❖ Environmental
- ❖ Vertical Project Management (VPM)
- ❖ Small Business Enterprise (SBE)
- ❖ Central Records

Design & Construction Procurement

- ❖ Coordinates the contracting process for capital improvement projects Citywide
- ❖ Handles all aspects relating to the contracting process from advertisement through contract award and execution



Procurement Types

Types of Procurement Methods

- ❖ Design-Bid-Build (DBB) – traditional “low bid”
- ❖ Job Order Contracting (JOC) – On-Call for contractors (JOA typically \$2M-\$4M max)
- ❖ Design-Build (DB) – Team approach for large projects
- ❖ Construction Manager at Risk (CMAR) – Split team approach
- ❖ Qualifications-Based Selection – Project Specific A/E
- ❖ On-Call – Multiple, non-project specific selection of A/E
- ❖ Direct Select – Sole source up to \$250A/\$500E



Environmental



Provides a wide range of services for all departments citywide:

- ❖ Asbestos & Lead
- ❖ Initial Natural/Cultural Resources Assessments – INCRA
- ❖ Environmental Site Assessments
- ❖ Small Scale Demolition
- ❖ Bee Control
- ❖ Other Environmental Services

Vertical Project Management

- ❖ Provides overall project management (PM) for the design and construction elements of city-owned properties and facility improvements outside the Right-of-Way.
- ❖ VPM focuses mainly on the Capital Improvement Program (CIP) projects for all departments except those with their own CIP project management staff.



Small Business Enterprise (SBE)



The Small Business Enterprise (SBE) Program is designed to create opportunities for local businesses to participate in the City of Phoenix construction and design procurement process.

This is part of the City ordinance (or law) thus, it is required that all City funded construction projects obtain a SBE goal.

Central Records



- ❖ Maintains all Capital Improvement Program (CIP) project files for all city departments.
- ❖ CIP files include contracts, payments, change orders, legal notices, construction documentation, shop drawings, inspector reports, studies, and general correspondence related to the design, bidding and construction of capital facilities and infrastructure and GIS maps & data, aerial photography and Supplement MAG standards.

Capital Improvement Plan

Brief Outline

SCHEDULE 1
SUMMARY OF PRELIMINARY 2021-26 CAPITAL IMPROVEMENT PROGRAM
BY PROGRAM
(In Thousands of Dollars)

	2021-22	2022-23	2023-24	2024-25	2025-26	Total
Arts and Cultural Facilities	602	-	-	-	-	602
Aviation	179,733	261,139	325,000	293,978	264,705	1,324,555
Economic Development	8,648	4,540	4,390	4,390	4,290	26,259
Environmental Programs	250	250	250	250	250	1,250
Facilities Management	24,568	21,875	21,875	13,975	14,026	96,319
Fire Protection	36,657	-	-	-	-	36,657
Housing	37,601	17,451	9,197	8,215	7,340	79,803
Information Technology	19,331	6,748	19,387	6,748	6,748	58,961
Libraries	10,850	955	955	955	955	14,670
Neighborhood Services	8,100	1,300	-	-	-	9,400
Non-Departmental Capital	102,620	102,325	102,822	103,329	103,828	514,923
Parks, Recreation & Mountain Preserves	28,000	30,100	30,670	29,700	29,075	147,545
Phoenix Convention Center	3,985	5,031	3,764	5,834	1,753	20,366
Police Protection	15,308	7,000	7,000	7,000	7,000	43,308
Public Art Program	2,259	4,075	1,030	989	929	9,284
Public Transit	321,521	186,969	308,684	222,467	115,675	1,155,315
Regional Wireless Cooperative	6,001	6,001	6,001	6,001	6,001	30,005
Solid Waste Disposal	12,433	24,084	11,332	3,569	5,007	56,425
Street Transportation & Drainage	281,582	148,165	123,853	119,774	136,008	809,382
Wastewater	248,640	472,220	232,689	423,889	249,397	1,626,835
Water	389,284	420,016	253,628	136,868	525,759	1,725,556
Total	1,737,971	1,720,244	1,462,528	1,387,931	1,478,746	7,787,420

City Standards & Specifications

❖ Materials Lab

- Material testing
- Approved concrete/asphalt mixes
- Approved steel fabricators

❖ MAG

❖ Capital Improvement Project Standards

❖ Consultants

❖ Sustainability

- Lighting Standards

Cesar Chavez Community Center

Construction Budget: \$11.5M

Size: 33,500 SF

Project Status: Under Construction



City of Phoenix
CESAR CHAVEZ COMMUNITY CENTER

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South Mountain Ranger Station

Construction Budget: \$2.2M

Size: 5,956 SF

Project Status: Completed



Fire Station 62

Construction Budget: \$6.4M

Size: 14,000 – 15,000 SF

Project Status: Future CMAR



Project Site
Lower Buckeye Rd/93rd Ave.

