2025 Annual Infrastructure Construction Cost Inflation Estimate

October 21, 2024

Overview

The Annual Infrastructure Construction Cost Inflation Estimate is the projected rate of construction cost escalation for the upcoming calendar year.

The rate is used to:

- Forecast costs for the 2-Year Capital Budget & 10-Year Capital Plan
- Update Facility Resource Renewal Model (FRRM)
- Prepare construction budget estimates, unless departments rely upon their own escalation rate
- Calculate the backlog

Note: With the passage of modified development impact fee indexing in 2023, AICCIE will no longer be used to determine those fees, which will now increase at a flat 2% each year.

Today's action item: Adopt rate for CY 2025 – proposing 3.5%



Contents

- U.S. construction market
 - Construction cost indices
 - Material price changes
- Metropolitan market conditions
 - Local economic and construction indices
 - Labor and wages
 - Bid environment
 - Local pipeline and trends
- Summary



National indexes

U.S. Construction Cost Indices – Historic

Year-on-year annual change, using June of each year

	Description		2020	2021	2022	2023	2024
	National Indices						
BLS New Change in bid price for new non-residential construction		5.5%	2.5%	3.2%	18.9%	11.6%	-0.9%
BLS Maintenance Contractor PPI			0.4%	4.4%	13.9%	2.5%	4.3%
Turner Building Cost			2.4%	0.9%	8.1%	6.4%	4.1%
	ENR Indices						
ENR BCI	Change in skilled labor and structural steel, portland cement, and lumber	1.9%	2.1%	10.1%	14.8%	2.6%	2.8%
Change in common labor and structural steel, portland cement, and lumber		1.8%	1.5%	5.9%	8.2%	2.4%	0.9%

BLS = Bureau of Labor Statistics

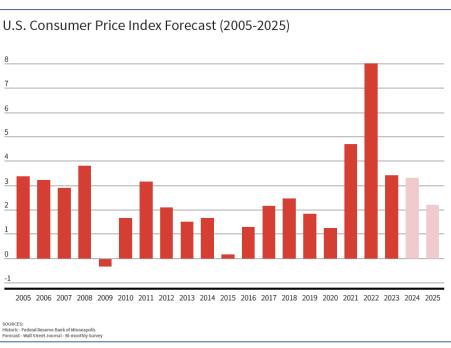
Construction Site Materials Changes

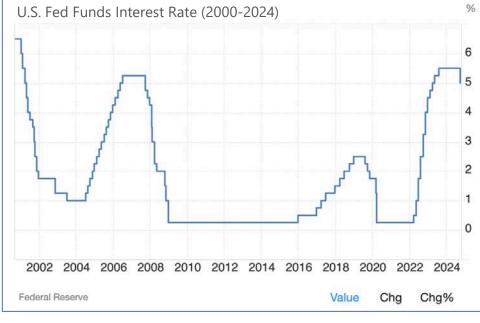
Change in index between annual average

	2019	2020	2021	2022	2023	2024
Concrete and related products	11.03	11.08	12.69	33.09	40.81	29.83
Asphalt and tar paving mixtures	4.71	-0.18	-0.26	16.24	13.93	0.75
Gypsum building materials	-17.79	0.22	43.44	56.22	34.12	2.42
Lumber, softwood	-26.5	64.9	117.38	-12.79	-109.45	-31.33
Sheet metal products	5.55	-1.23	42.5	54.06	14.8	3.55
Construction machinery	9.56	3.93	11.55	26.33	26.26	13.63
Steel for buildings	-1.67	-0.08	44.72	42.51	4.49	-25.97
Plastic construction products	3.31	4.03	52.03	66.39	13.06	-7.31
Diesel fuel	-25.98	-45.68	140.216	208.34	-22.55	-75.75



Inflation and Interest Rates





Source: https://tradingeconomics.com/united-states/interest-rate

Source: Cumming Q2 2024 Market Analysis



S.F. metro construction market

Local Economic Indices – Historic

Numbers represented here are from June of each year

Description		2019	2020	2021	2022	2023	2024
	Economic Indicators						
BLS SF Metro CPI Change in cost of local consumer goods		3.2%	1.6%	3.2%	6.8%	2.9%	3.2%
BLS Local Area Percent of unemployed labor force in San Jose-San Francisco-Oakland area		3.0%	9.1%	5.8%	3.2%	4.2%	4.2%



2024 SF Experts Projected Escalation

Organization	2021 Estimate	2022 Estimate	2023 Estimate	2024 Estimate	2025 Estimate
Public Institutions					
SFO	2-3	6-9	5	6	Avg. 4.5
SFPUC	4-5	6	6	5	4
REC (Custom Work)	-	-	-	-	2
Builders					
Pankow	3-4	5-10	5	2-3	3-4
Cumming Construction	3	5.6	4.8	5	4.68
Clark Construction	3-4	4.5-5.5	5.5	3.5-4	4-5
Jacobs	5	6-10	8	7-8	4-5
Market Consultants					
TBD Construction	3.5-4	4-5	6-7	6	4.5
Saylor Consulting Group	4	5	7	3-5	4
Martin Lee Corporation	5	8	8	5	5
Gordian* (5-year avg./2025)	3.6	3.8	5.88	6.27	5.68/-0.7
Average*	3.8	6.0	6.3	5.1	3.68

^{*}Uses Gordian number for 2025, not 5-year average



Local Indices – Historic

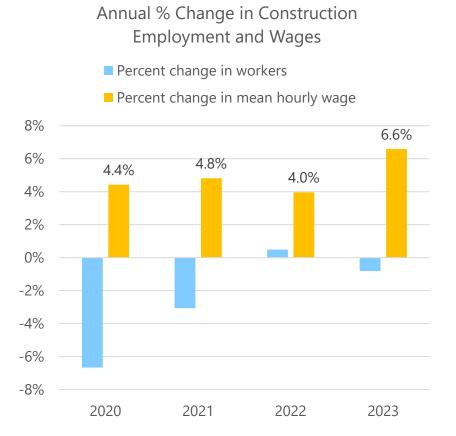
	Economic Indicators							
2019			2020	2021	2022	2023	2024	
BLS Metro CPI	Change in cost of local consumer goods		1.6%	3.2%	6.8%	2.9%	3.2%	
BLS Local Area Unemployment			9.1%	5.8%	3.2%	4.2%	4.2%	

	Construction Indices							
		2019	2020	2021	2022	2023	2024	
ENR BCI – San Change in skilled labor and structural steel, portland cement, and lumber		4.9%	6.5%	5.7%	23.2%	5.5%	0.6%	
Francisco Change in common labor and structural steel, portland cement, and lumber		2.8%	5.4%	3.4%	14.1%	0.07%	0%	
TBD Consultants Bid Index	Change in construction bid cost for an indexed new construction project in SF	10.4%	2.6%	3.6%	17.2%	4.9%	2.6%	

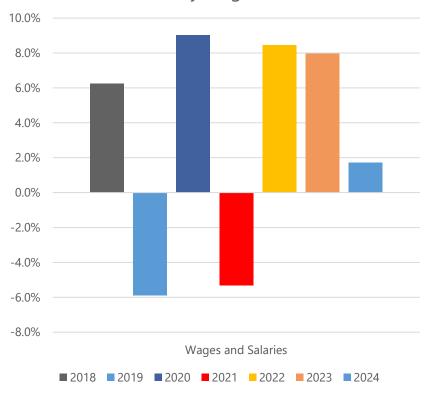


Regional labor and wages

Public employee union agreements include 3.5% wage increases in 2025.



Annual % Change in SF Metro Area Private Industry Wages and Salaries



Source: Bureau of Labor Statistics, Employer Costs, San Jose-San Francisco-Oakland, CA



Bid Environment

- DPW received an <u>average of 3.4 bids and a median of 3 bids</u> (out of 24 projects)
- □ Winning bids were an average of 1.08x of engineer's estimates

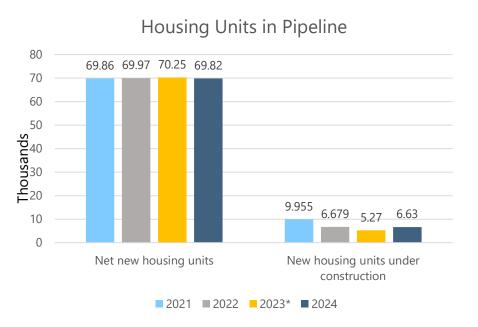
# of Bids	% Differential (estimate vs. bid)
1	+25% to 50%
2-3	+10% to 25%
4-5	0% to 10%
6-7	0% to -10%
8 – 10	-10% to -20%

Source: Saylor Consulting Market Conditions SF Bay Area 4Q 2023

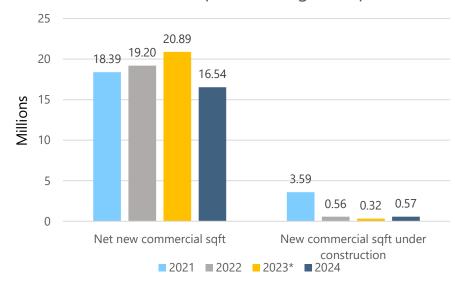
# of Bids	Low Bid Deviation From Estimate
1	1.15
2	1.11
3	1.07
4	1.01
5	0.95
6	0.91
7	0.89
8	0.88

Source: Cumming Construction Economic Forecast; from: Carr, Paul G., P.E., M.ASCE, "Investigation of Bid Price Competition Measured through Prebid Project Estimates, Actual Bid Prices, and Number of Bidders", Journal of Construction Engineering and Management, 2005

Local Activity: Development Pipeline



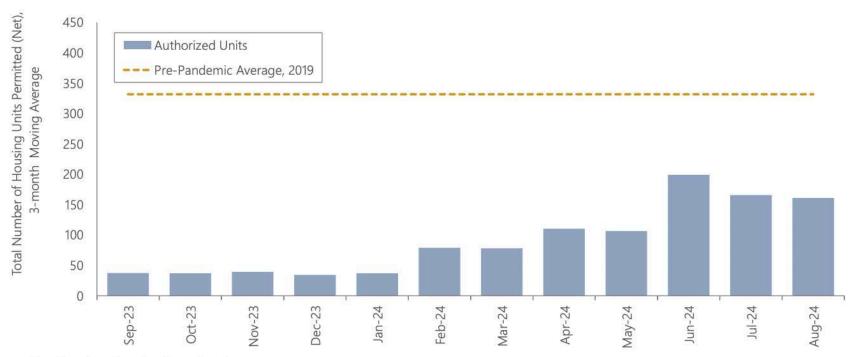
Commercial Square Footage in Pipeline





Local Activity: Housing Permitting

Authorized Units (Housing Pipeline), (3-Month Moving Average), San Francisco, Through August 2024



Source: San Francisco Planning Department



State-Level Drivers

Policy and Resources

- SB1395 signed waives CEQA for shelter and contracts for residential services for people experiencing homelessness
- Prop 1 implementation \$2B for Homekey+ and \$4B to support behavioral health services/treatment infrastructure
- November bond measures –
 schools and educational institutions
 (Prop 2, \$10B) and climate resilience
 (Prop 4, \$10B)

Sector Challenges

- Cost of construction continues to be higher in CA than elsewhere (Cumming)
- Nearly half of CA general contractors reported projects scheduled to start in 2023 or 2024 were postponed or canceled and not rescheduled

(Associated General Contractors of America 2024 Survey)

Demand Horizon Flat

Return to office remains flat at about 40%, lower in SF and San Jose than in other major cities

Office vacancy rate continued to rise in Q2 2024



Recommendation & Summary

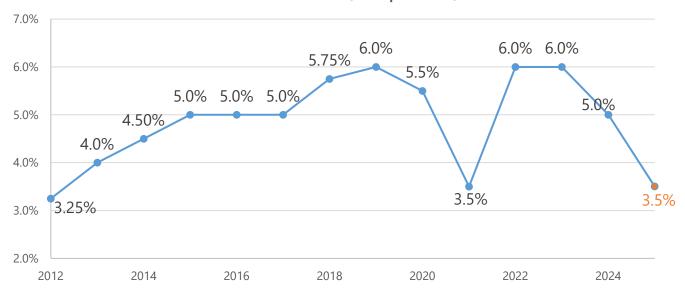






Proposed: 3.5% for CY 2025

San Francisco AICCIE, 2012-2025 (Proposed)





Thank You!

An official website of the City and County of San Francisco

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LANS AND BUDGETS

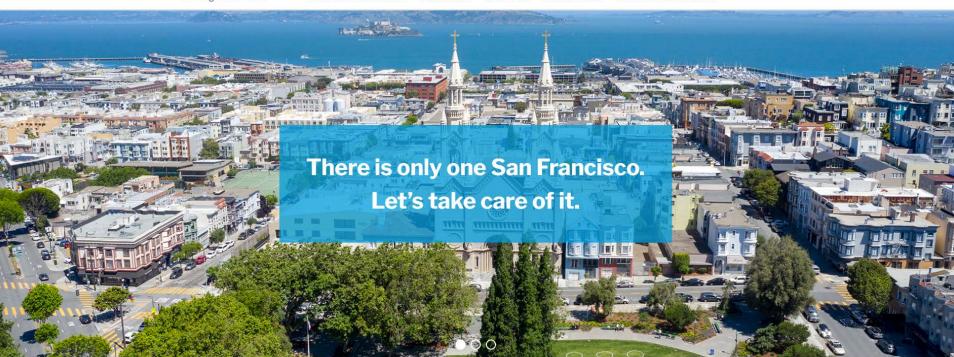
PROGRAMS

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COMMITTEES

DATA AND RESOURCE

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The Office of Resilience and Capital Planning is the City and County of San Francisco's program to plan and finance projects that strengthen the integrity and resilience of San Francisco's infrastructure, neighborhoods, and residents.

www.onesanfrancisco.org



Appendix

Methodology

Review indices

- Bureau of Labor Statistics
- Engineering News-Record
- Turner Index
- TBD Bid index

Interview local experts

- SF Gov departments
- Construction companies, other private experts

Understand SF public construction market

- Bid competition & validity of engineer's estimate
- Materials costs
- Local labor considerations

Contextualize with market and sector trends

Resources:

- Major construction and construction-related cost indices
- Bureau of Labor Statistics (BLS) data
- Market reports from industry experts
- Conversations with project managers, construction consultants/economists, and those working in the field
- Public reports of local construction activity



Methodology

- Public Spending in Construction broken into types:
 - Highway, bridge, and roads
 - Educational facilities
 - Transportation
 - Utilities
 - Public safety
 - Healthcare
- Product Price Index: Tracks material cost inputs for the producer
- ENR and RSMeans: Building costs, no contractor margins
 - ENR BCI has very limited materials and labor inputs, does not include productivity changes
- Level of development activity
- Turner Building Cost Index:



AICCIE Legislation Text

The AICCIE "shall be updated on an annual basis...in order to establish a reasonable estimate of construction cost inflation for the next calendar year for a mix of public infrastructure and facilities in San Francisco."

"The Controller shall review the amount of each development fee established in this Article and shall adjust the dollar amount of any development fee on an annual basis every January based solely on the AICCIE..."

