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## PROJECT MEMO

California State Capitol Annex Project – Planning Study December 2017 1315 10th St Sacramento, CA 95814

To: Debra Gravert, Chief Administrative Officer

#### **COMPLETED BY**

Name	Title	Company
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Referencing: California State Capitol Annex Project – Planning Study December 2017 Discussion paper on: Opinion of Probable cost for budgeting.

Many factors influence the costs for the construction of a new building, and therefore it is common to use the costs associated with comparable projects built in the region of the anticipated construction project. For the Capitol Annex project, the comparable projects needed to be have been constructed by the government and located in the state. The project type desired for this evaluation should be public, high visibility, high use, with: office, assembly, and secure parking occupants at a minimum. The comparable projects are more valuable if there are many available as larger numbers of comparable costs will tend to devalue project cost anomalies of the individual projects. We were fortunate to have a significant source of past and current costs for the California courthouse projects. We found within this information new construction projects, associated construction costs, constructed building area, and matching the types of uses available which provided us a very rich comparable project dataset for our analysis.

A good source for additional information related to cost estimation of public buildings in California can be found at: Frequently Asked Questions: Court Construction Costs http://www.courts.ca.gov/23308.htm

The following information explains the process we used to create a cost per square foot price for the new Capitol Annex project. The values for the cost should be assumed to be budget numbers not final construction costs. The architectural and engineering design process can utilize this value in the design process. If the project experiences a significant delay in starting the illustrated values may need to be escalated.

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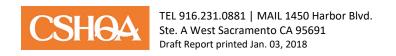
# California Capitol Annex Cost evaluation discussion sheet

For the purposes of evaluating the replacement cost for the Capitol Annex the following steps were conducted:

- 1. Evaluate existing costs of government buildings constructed within the past 10 years.
- 2. Utilize available cost per square foot (cost/sf) based on completed construction. For this purpose, costs (cost/sf) were ascertained from the California Courthouse building website (http://www.courts.ca.gov/)
  - a. The numbers on the website are whole project costs, not just construction costs.
  - b. In some cases, they include site costs, miscellaneous fees, design team fees, and other costs that we cannot discern from the information provided.
- 3. Adjust for inflation, unknown project cost as noted in 2.b. above, and project scale.

#### Efforts included:

- A. Database the projects
  - a. Name of project
  - b. Cost of total project
  - c. Year of construction
  - d. Total area related to the cost of construction
- B. Apply industry standards for escalation which notes from 2006 to 2017 the cost of construction in California (generalized) increased 30% over that timeframe. Spreading this escalation evenly over that timeframe indicates approximately 2.5% escalation per year.
- C. Allocate escalation to each individual database project based on year of occupancy/construction completion.
- D. Apply a reduction factor (generalized) to account for unknown project costs that may not apply to the Capitol Annex project. (value x 0.035)
- E. Rank the 24 projects based on cost/sf and remove the entries for the top and bottom 3 ranked projects to remove higher and lower than normal projects.
  - a. The average for all 24 projects is \$959.52 cost/sf and the average of the selected 18 projects is \$977.60 cost/SF. The list of projects included several significantly lower cost/sf projects which accounts for the variance in values. We also removed projects that were classified as Renovation projects.
  - b. In a separate evaluation, conducted by a third party, of projects provided from http://www.courts.ca.gov/ a list of 24 specifically selected projects showed with escalation added a cost/sf = \$917.16 with no adjustment for high/low cost/sf projects.
  - c. We have used within our budgeting process a value of \$950.00 cost/SF.



Cost/sf table of evaluated projects:

Base	Used	
Cost/SF	Cost/SF	Rank
\$1,181.61	Not used	1
\$1,181.54	Not used	2
\$1,105.09	Not used	3
\$1,103.13	\$1,103.13	4
\$1,087.19	\$1,087.19	5
\$1,045.01	\$1,045.01	6
\$1,036.87	\$1,036.87	7
\$1,027.11	\$1,027.11	8
\$1,019.81	\$1,019.81	9
\$1,010.56	\$1,010.56	10
\$1,010.48	\$1,010.48	11
\$958.65	\$958.65	12

\$956.86	\$956.86	13
\$956.07	\$956.07	14
\$940.00	\$940.00	15
\$916.29	\$916.29	16
\$916.09	\$916.09	17
\$906.02	\$906.02	18
\$905.67	\$905.67	19
\$903.23	\$903.23	20
\$897.66	\$897.66	21
\$872.05	Not used	22
\$761.44	Not used	23
\$330.04	Not used	24
Average	\$977.60/SF	

Evaluation of local construction activity and the economics related to the construction industry is a common way that preliminary cost estimates are generated. At this level of detail, a cost per square foot estimate is anticipated to achieve a good budget level cost. A few issues that modified the project's budget are as follows:

- A. Year of construction escalation value multiplied by cost/sf of example building.
- B. Reduction of the example building cost/sf by a factor which considers project specific costs related to the example building project. (such as: cost of land/property, relocation of utilities, relocation cost and a like.)
- C. Typically, the cost for a project is set at the beginning and should have included escalation to the middle of the project anticipated duration. The costs noted in the Courthouse database are those costs reported at the end of construction.
- D. Scale of project typically is evaluated as smaller projects typically cost more per square foot than large projects. Economics of scale was assumed in the cost/sf value that we have suggested.
- E. Costs of making the project site ready for the project was considered:
  - 1. The cost to remove the existing building.
  - 2. Maintaining the existing Capitol exterior enclosure after demolition.
  - 3. Secure the construction site while allowing the occupancy of the Capitol proper.
  - 4. The construction of a new underground parking structure.
- F. Construction economics based on current construction activity (and available labor forces.)
- G. Quality and durability of the desired construction.
- H. Aesthetic quality desired.
- I. Anticipated duration of the project.

### First List (alphabetical)

- 1. Court of Appeal, Third District, Stanley Mosk Building Renovation
- 2. Division Three, Santa Ana
- 3. Plumas/Sierra Counties, Plumas/Sierra Courthouse
- 4. Superior Court of California, County of Alameda
- 5. Superior Court of California, County of Butte
- 6. Superior Court of California, County of Calaveras
- Superior Court of California, County of Contra Costa
- 8. Superior Court of California, County of Fresno
- 9. Superior Court of California, County of Fresno
- 10. Superior Court of California, County of Kings
- 11. Superior Court of California, County of Lassen
- 12. Superior Court of California, County of Los Angeles
- 13. Superior Court of California, County of Madera
- 14. Superior Court of California, County of Merced
- 15. Superior Court of California, County of Merced
- 16. Superior Court of California, County of Mono
- 17. Superior Court of California, County of Riverside
- 18. Superior Court of California, County of San Benito
- 19. Superior Court of California, County of San Bernardino
- 20. Superior Court of California, County of San Diego
- 21. Superior Court of California, County of San Joaquin
- 22. Superior Court of California, County of Santa Clara
- 23. Superior Court of California, County of Solano
- 24. Superior Court of California, County of Sutter
- 25. Superior Court of California, County of Tehama
- 26. Superior Court of California, County of Tulare
- 27. Superior Court of California, County of Yolo

Grey – high/low cost/sf not used in calculations (6)

Yellow – renovation project not used in calculation (3)

### Second List (alphabetical)

- Alameda County, East County Hall of Justice,
   Dublin
- 2. Butte County, Chico Courthouse
- 3. Calaveras County, San Andreas Courthouse
- 4. California Court of Appeal, Fifth District
- 5. California Court of Appeal, Fourth District
- Contra Costa County, Richard E. Arnason Justice Center, Pittsburg
- 7. Fresno County, Juvenile Delinquency Court
- 8. Kings County, New Hanford Courthouse
- 9. Lassen County, Susanville Courthouse
- 10. Madera County Courthouse
- 11. Merced County Courthouse
- 12. Merced County, New Los Banos Courthouse
- 13. Mono County, Mammoth Lakes Courthouse
- 14. Plumas/Sierra Counties, Plumas/Sierra Courthouse
- 15. Riverside County, Banning Justice Center
- 16. San Benito County, Hollister Courthouse
- 17. San Bernardino County Courthouse
- 18. San Diego County, Central Courthouse
- 19. San Joaquin County, Stockton Courthouse
- 20. Santa Clara County, New Santa Clara Family lustice Center
- 21. Sutter County, New Yuba City Courthouse
- 22. Tehama County, Red Bluff Courthouse
- 23. Tulare County, Porterville Courthouse
- 24. Yolo County, New Woodland Courthouse

# California Capitol Annex - Replace Construction Cost Analysis

	area (sf)	cost/sf	total budget	
Construction of a new Capitol Annex	488,598	\$ 950.00	\$ 464,168,000	
Demolition of the existing Capitol Annex	325,000	\$ 20.00	\$ 6,500,000	
Totals			\$ 470,668,000	
Escalation (yr 1)	2.50%		\$ 482,435,000	
Escalation (yr 2)	2.50%		\$ 494,496,000	
Escalation (yr 3)	2.50%		\$ 506,858,000	
TOTAL NEW ANNEX COST			\$ 506,858,000	

Note 1: Cost does not include swing space development for off-site temporary governmental functions for the duration of construction. Final swing space costs may include remodels of existing buildings, new construction, or rent.

Note 2: Cost does not include moving costs from Annex to swing space, and moving costs back into the Annex when completed.

# California Capitol Annex - Parking Structure Construction Cost Analysis

	number of cars	area per stall (sf)	area	cost/sf	total budget	
Construction of a new underground parking						
structure	130	300	39,000	\$ 105.00	\$ 4,095,000	
New loading dock budget number			8,000	\$ 70.00	\$ 560,000	
New Governor's parking area			4,500	\$ 105.00	\$ 473,000	
New Landscape costs on the Garage			51,500	\$ 16.00	\$ 824,000	
Totals					\$ 5,952,000	
Escalation (yr 1)	2.50%				\$ 6,100,000	
Escalation (yr 2)	2.50%				\$ 6,253,000	
Escalation (yr 3)	2.50%				\$ 6,409,000	
TOTAL NEW PARKING STRUCTURE COST	S	•	·		\$ 6,409,000	
Note 1: Landscape costs are assumed to be	drasses and woods	/ ehruhe				

## California Capitol Annex - Visitor's Center

**Construction Cost Analysis** 

	area (sf)	circulation/ structure/ utility multiplyer	total area	cost/sf	со	nstruction costs	
Cost for additional circulation for Public		included					
Access	19,500.00	in area	\$ 19,500.00	\$ 950.00	\$	18,525,000.00	
		included					
Public entrance/ visitor experience	6,000.00	in area	6,000.00	\$ 1,050.00	\$	6,300,000.00	
Site modifications including wayfinding, grading,	and new hardso	ape and landscape			\$	3,000,000.00	
Totals			\$ 27,825,000				
Escalation (yr 1)	2.50%		\$ 28,521,000				
Escalation (yr 2)	2.50%		\$ 29,234,000				
Escalation (yr 3)	2.50%	ı	\$ 29,964,000				
TOTAL VISITOR'S CENTER COST			\$ 29,964,000				