

Architectural and Engineering Basic Services Fee Estimating Guidelines

Basic Services is the design work customary on a typical project to take an established building program, site, and budget, and then develop the architectural design, engineer the building systems, produce construction documents, and perform construction administration for a single phase project. Basic Services include the design services customary on every project such as architectural, structural, civil, mechanical, and electrical engineering services. Basic Services are described in the Standard Consulting Agreement.

The following method estimates the Basic Services fees using the Amount Available for Construction (AAC) from the established project budget. The fees are expressed as percentage of AAC for six (6) projects types with differing levels of complexity for both New Construction and Renovation. The Project Types are:

Project Type I Considerably Less than Average Complexity: Farm Structures, shop & Maintenance, Service, Warehouses, Storage Facilities, Parking Structures.

Project Type II Less Than Average Complexity: -3(iT/[C /P A/CID34)age)s 1 H)105(s)9 0sf1 1 0 0 (e)

The application of these tables is dependent on understanding the size and complexity of the project. It is assumed the project scope of work and budget has been developed to a level where this method can be used to produce an estimate of a reasonable and customary fee.

Consultant Fees to prepare Design/Build proposal documents are estimated using the Basic Services curves and then factored for the level of bridging documents required. For example bridging through Design Development would be factored by 35%. Services for proposal package preparation, responding to questions during the proposal phase, proposal evaluation services, and construction administration support are then added as not to exceed fees estimated based on the level of effort anticipated.

Not included in the Basic Services Fee are amounts to cover Additional Services or approved Reimbursable Expenses. These costs should be added to the Total Project Budget and should be estimated based on the projected scope of work.

Additional Services are those required to augment the Basic Services that are not customary on every project. The need for Additional Services is dependent on the individual project and will change from project to project. Some of these services will not be identified until the project is underway. However, it is preferable for needed additional services to be identified when requesting services for design.

Additional Services

Additional Services include, but are not limited to those listed below. It is desirable that these be identified with the basic services fees and approved at the same time.

Pre-Design Ph5(e)4 not 1)-3(im)-3(it)-49850.33 Tm[()] TET EMC /P] Tj-

Design Phase

Additional Project Meetings [in Excess of Biweekly]
Accelerated Design Schedules
Engagement of a Signature Design Architect
Engagement of Specialty Expert Consultants for consultation on design parameters, such as Food Service, Historic Preservation, Theater, Acoustical, Audio/Visual, Landscape, Life Safety, Laboratory, Way-finding graphics, Interior Design, Furnishings, & Artwork
Coordination with Consultants Engaged Directly by the Owner
Site Specific Seismic Studies
LEED Process Support and Documentation
Electrical Fault Current Studies
Load Studies (Mechanical or Electrical)
Reliability Analysis (Mechanical or Electrical)
Value Analyses / Life Cycle Cost Analyses (beyond that required under basic services)
Computer Modeled Energy Analyses (other than required by University Energy Standards)
Renderings/Models/Videos
Owner directed Changes to Scope, Size, or Complexity
Documents Prepared for Multiple Component Construction Packages
Documents Prepared for Separate Proposal Packages Requested by the Owner
Environmental Work (Hazardous Waste Consultant Hired by Design Professional)

Construction Phase

Comprehensive CPM Scheduling
Phased Construction Observation
Prequalification of Contractors/ Subcontractors Services
Commissioning
Commissioning Support
Full Time Construction Inspection Provided by the Design Professional
Program Management Services
Designing Replacement Work for Damaged Work
Post Occupancy Observations/Evaluations

ARCHITECTURAL & ENGINEERING BASIC SERVICES FEE PERCENTAGE NEGOTIATION GUIDELINES

Amount Available for Construction	TYPE I Considerably less than
-----------------------------------	----------------------------------

