

Section 2B Design Process (Through Construction Documents)

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Section 2B - Design Process

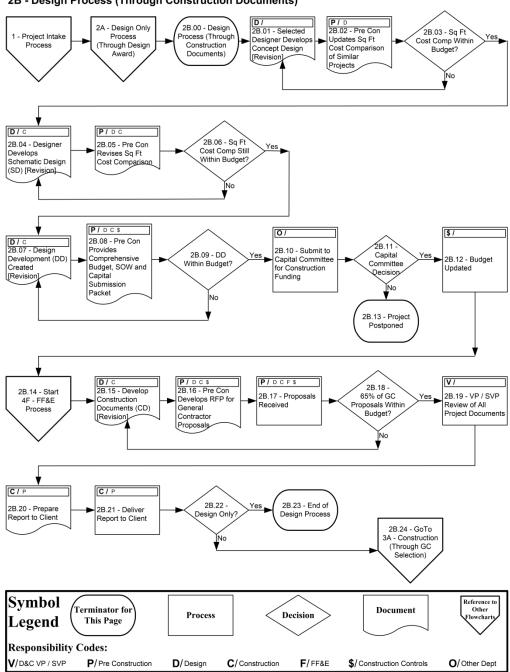
(Through Construction Documents)

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2B.00 - Design Process (Through Construction Documents) Flow-Chart

2B - Design Process (Through Construction Documents)



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2B.0B - Design Process (Through Construction Documents) Responsibility Matrix

2B.01 - Selected Designer Develops Concept Design [Revision] 2B.02 - Pre Con Updates Sq Ft Cost Comparison of Similar Projects 2B.03 - Sq Ft Cost Comp Within Budget? (Yes / No) 2B.04 - Designer Develops Schematic Design (SD) [Revision] 2B.05 - Pre Con Revises Sq Ft Cost Comparison 2B.06 - Sq Ft Cost Comp Still Within Budget? (Yes / No) 2B.07 - Design Development (DD) Created [Revision] 2B.08 - Pre Con Provides Comprehensive Budget, SOW and Capital Submission Packet	2B - Design Process (Through Construction Documents) Responsibility Matrix Primary / Secondary	D&C VP / SVP (V)	Pre Construction (P)	Design (D)	Construction (C)	FF&E (F)	Construction Controls (\$)	Other Dept. (O)
of Similar Projects 2B.03 - Sq Ft Cost Comp Within Budget? (Yes / No) 2B.04 - Designer Develops Schematic Design (SD) [Revision] 2B.05 - Pre Con Revises Sq Ft Cost Comparison 2B.06 - Sq Ft Cost Comp Still Within Budget? (Yes / No) 2B.07 - Design Development (DD) Created [Revision] 2B.08 - Pre Con Provides Comprehensive Budget,								
2B.04 - Designer Develops Schematic Design (SD) [Revision] 2B.05 - Pre Con Revises Sq Ft Cost Comparison 2B.06 - Sq Ft Cost Comp Still Within Budget? (Yes / No) 2B.07 - Design Development (DD) Created [Revision]	• •							
(SD) [Revision] 2B.05 - Pre Con Revises Sq Ft Cost Comparison 2B.06 - Sq Ft Cost Comp Still Within Budget? (Yes / No) 2B.07 - Design Development (DD) Created [Revision]	2B.03 - Sq Ft Cost Comp Within Budget?	(Yes / No)						
2B.06 - Sq Ft Cost Comp Still Within Budget? (Yes / No) 2B.07 - Design Development (DD) Created [Revision] 2B.08 - Pre Con Provides Comprehensive Budget,								
2B.07 - Design Development (DD) Created [Revision] 2B.08 - Pre Con Provides Comprehensive Budget,	2B.05 - Pre Con Revises Sq Ft Cost Comparison							
[Revision]	2B.06 - Sq Ft Cost Comp Still Within Budget?			(Y	es / N	o)		
	_							
2B.09 - DD Within Budget? (Yes / No)	2B.09 - DD Within Budget?			(Y	es / N	o)		
2B.10 - Submit to Capital Committee for Construction Funding	•							
2B.11 - Capital Committee Decision (Yes / No)	2B.11 - Capital Committee Decision			(Y	es / N	o)		

2B - Design Process (Through Construction Documents) Responsibility Matrix Primary / Secondary	D&C VP / SVP (V)	Pre Construction (P)	Design (D)	Construction (C)	FF&E (F)	Construction Controls (\$)	Other Dept. (O)
2B.12 - Budget Updated							
2B.13 - Project Postponed		(Tei	minate	or for	This Pa	age)	
2B.14 - Start 4F - FF&E Process		(Refer	ence to	o Othe	r Flow	chart)	
2B.15 - Develop Construction Documents (CD) [Revision]							
2B.16 - Pre Con Develops RFP for General Contractor Proposals							
2B.17 - Proposals Received							
2B.18 - 65% of GC Proposals Within Budget?	(Yes / No)						
2B.19 - VP / SVP Review of All Project Documents							
2B.20 - Prepare Report to Client							
2B.21 - Deliver Report to Client							
2B.22 - Design Only?			(Y	es / N	o)		
2B.23 - End of Design Process		(Tei	minate	or for	This Pa	age)	
2B.24 - GoTo 3A - Construction (Through GC Selection) (Reference to Other Flowchart)							
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2B.01 - Selected Designer Develops Concept Design [Revision]

Procedure The selected Designer develops the Concept Design [or a Revision if

after step 2B.03].

Responsibilities Primary: Design

Secondary:

Acronyms

Notes Design kickoff meeting template

Introduction

• Directory information form

Project scope

• Milestone schedule

• Discussion of gating items

• Distribution of preliminary scope statement/checklist

 Distribution of preferred supplier information and applicable design standards

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2B.02 - Pre Con Updates Sq Ft Cost Comparison of Similar Projects

Procedure Pre-construction updates the Sq Ft Cost Comparison, of similar

Projects, by using the Initial Square Foot Cost Comparison table (see

below).

Responsibilities Primary: Pre-Construction

Secondary: Design

Acronyms

Notes

1. Concept – Square Foot Cost Comparison

a. Project will be compared to other past projects that appear to be similar in anticipated size and scope

b. Presented in table form showing;

i. Use

ii. Square Footage

I	Initial Square Foot Cost Comparison							
	Project 1	Project 2	Project 3	Proposed Project				
Project Name								
Square Footage								
Overall As Built Cost								
Cost per Square Foot								
	Project 1 Scope	Project 2 Scope	Project 3 Scope	Anticipated Scope				

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2B.03 - Sq Ft Cost Comp Within Budget?

Procedure This is a decision tree determined by whether the Sq Ft Cost Comp is

within budget.

If Yes then GoTo step 2B.04.

If No then GoTo revisiting step 2B.01.

Responsibilities Primary:

Secondary:

Acronyms

Notes Yes / No Decision Tree

If still within defined cost parameters continue with Design.

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2B.04 - Designer Develops Schematic Design (SD) [Revision]

Procedure If the Sq Ft Cost Comp is within budget then continue with the

Designer developing the Schematic Design (SD) [or a Revision if after

step 2B.06].

Responsibilities Primary: Design

Secondary: Construction

Acronyms SD Schematic Design

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2B.05 - Pre Con Revises Sq Ft Cost Comparison

Procedure After the Designer develops the Schematic Design, Pre-Con updates

the Square Foot Cost Comparison.

Responsibilities Primary: Pre-Construction

Secondary: Design Construction

Acronyms

Notes

SD – Schematic Design - Updated Square Foot Cost Comparison. At this stage Pre Con will verify that the SD's match up to the stated scope, square footage, location, fit and finish

Schematic design is the first phase of basic services for project design. At this stage in a project, the design professional describes the project three-dimensionally. A range of alternative design concepts are explored to define the character of the completed project and an optimum realization of the project program.

SD – Cost comparison update to concept matrix (Pre-construction deliverable)

- i. STOP for a moment and evaluate if project is still feasible
- ii. If not, why?
- 1. Did scope grow? Was scope modified?
- 2. Did square footage grow?
- 3. Were the quality expectations off?
- 4. New or added external factors such as landlord conditions

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2B.06 - Sq Ft Cost Comp Still Within Budget?

Procedure This is a decision tree determined by the updated Sq Ft Cost Comp.

If Yes then GoTo step 2B.07.

If No then GoTo revisiting step 2B.04.

Responsibilities Primary:

Secondary:

Acronyms

Notes Yes / No Decision Tree

If still within defined cost parameters continue with Design.

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2B.07 - Design Development (DD) Created [Revision]

Procedure If the Sq Ft Cost Comp is still within budget then continue with the

Designer creating the Design Development (DD) [or a Revision if after

step 2B.09].

Responsibilities Primary: Design

Secondary: Construction

Acronyms DD Design Development

Notes DD - Design Development – At completion of DD Pre Con will

Develop actual capital committee budget for funding request. Pre Con will again verify scope, engage the various entities for their input (IT, OS&E, FF&E, Surveillance) OS&E number is responsibility of

property or stakeholder

During the design development phase, the project design is further refined. Plan arrangements, specific space accommodations,

equipment and furnishings, building design, materials and colors, and complete definitions of all systems serving the project are developed. All design decisions are completed during this phase in order to

prepare the subsequent construction documents.

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2B.08 - Pre Con Provides Comprehensive Budget, SOW and Capital Submission Packet

Procedure

Pre-con provides a comprehensive Budget, SOW and Capital Submission Packet.

At the same time as the construction budget is being prepared the following groups should be contacted for their budgets. These are to be complete budgets. If the project is approved through Capital Committee then these will become the official budgets for the project:

- a. FF&E Solicit a company for budgeting
- b. OS&E Request a detailed budget from the property for inclusion in the Capital Committee budget
- c. IT Request a detailed budget from the property for inclusion in the Capital Committee budget
- d. Construction Controls Audit Budget
- e. D&C Request probable hours from Project Manager, Project Director, and Vice President. This can also include the internal construction budget if applicable

Responsibilities Primary: Pre-Construction

Secondary: Design Construction Construction Controls

Acronyms

Notes

Creation of Project Budget

- a. Budget will developed with the assistance of General Contractor/s
- b. Budget will include input from all interested parties;
 - i. D&C
 - ii. Property for OS&E
 - iii. IT
 - iv. Surveillance
 - v. General Contractor
 - vi. D&C Project Management
 - vii. D&C Project Controls
- c. Budget to be reviewed by......

- i. Director of Pre Construction
- ii. Regional Vice President of Design and Construction
- iii. Senior Vice President of Design and Construction
- d. If budget is beyond amount allotted for in plan
 - i. Discuss with stakeholder
 - ii. If budget variance is 10% or less of overall project value begin a selected value engineering process
 - iii. If budget variance is greater than 10% of overall project value, the project gets re-designed

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2B.09 - DD Within Budget?

Procedure This is a decision tree determined by whether the Design Development

is within the budget.

If Yes then GoTo step 2B.10.

If No then GoTo revisit step 2B.07.

Responsibilities Primary:

Secondary:

Acronyms

Notes Yes / No Decision Tree

If still within defined cost parameters continue with Design.

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2B.10 - Submit to Capital Committee for Construction Funding

Procedure Submission to Capital Committee for approval by stakeholders.

Responsibilities Primary: Other Depts

Secondary:

Acronyms

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2B.11 - Capital Committee Decision

Procedure This is a decision tree determined by whether the Design Development

is within budget.

If Yes then GoTo step 2B.12.

If No then GoTo step 2B.13 where the project is postponed.

Responsibilities Primary:

Secondary:

Acronyms

Notes Yes / No Decision Tree

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2B.12 - Budget Updated

Procedure After the Designer develops the Design Development documents, and

the project is submitted to the Capital Committee (for construction funding) and approved, Pre-Con again updates the Square Foot Cost

Comparison.

Responsibilities Primary: Construction Controls

Secondary:

Acronyms

Notes Project is approved

1. At requested amount

2. At reduced amount – what do we do if this happens? **WARNING FLAGS!!!**

- a. Re-design if it is a significant change in dollar value
- b. This should result in a return trip to the committee to finalize scope and budget

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2B.13 - Project Postponed

Procedure If the Capital Committee's decision is No, then the project is

postponed.

Responsibilities Primary:

Secondary:

Acronyms

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2B.14 - Start 4F - FF&E Process

Procedure At this point the FF&E process is started.

GoTo flowchart 4F – FF&E Process.

Responsibilities Primary:

Secondary:

Acronyms

Notes Reference to Other Flowchart

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2B.15 - Develop Construction Documents (CD) [Revision]

Procedure If the Capital Committee decision is Yes, then continue with the

Designer developing the Construction Documents (CD) [or a Revision

if after step 2B.18].

Responsibilities Primary: Design

Secondary: Construction

Acronyms CD Construction Documents

Notes When Construction Documents are submitted for permit Pre Con will

put the project out to bid for general contractors. Also at this time bid packages will be sent out for 3rd party testing, hazardous material

testing, signage, etc. As needed

Construction document phase consists of preparation of drawings and specifications establishing the requirements for the construction of the

project. The construction documents describe the quality, configuration, size, and relationship of all components to be incorporated into the project. Construction documents must be consistent with the project program, the construction budget, and the

project schedule.

The construction documents serve as a basis for obtaining bids from contractors and are used by contractors to obtain price quotes from

subcontractors.

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2B.16 - Pre Con Develops RFP for General Contractor Proposals

Procedure Pre-construction develops the RFP for General Contractor proposals.

Responsibilities Primary: Pre-Construction

Secondary: Design Construction Construction Controls

Acronyms RFP Request for Proposal

Notes General Contractor RFP Template

• Property name

• Project name

• Project summary (3-4 sentences)

• Scope of work (to be designed)

Existing building information

Program tables (area, room matrix, etc.)

Links to drawings on Box or other service

Attachment of or link to standard scope checklist, when applicable

• Design scope (of services to be provided)

Standard deliverable requirements by stage

Comprehensive checklist of disciplinary services to be provided (design manager to remove irrelevant services

- Statement of licensure and insurance requirements
- Weblink to standard design contract, which bidders implicitly accept
- Fee proposal breakdown requirements

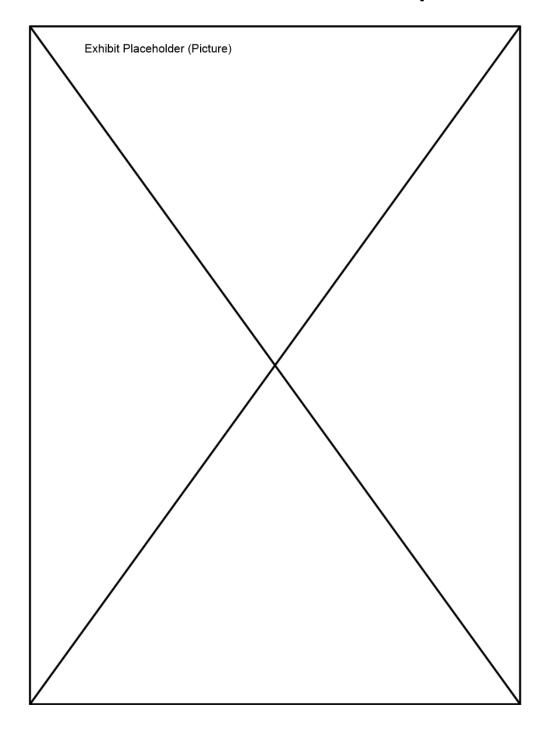
Discipline

Phase

- Site walk date and procedures
- Notification of intent to bid requirement and deadline
- Proposal submission procedure and deadline
- Contact information of design manager

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2B.16A - General Contractor RFP Template



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2B.17 - Proposals Received

Procedure Receive all bids on the designated bid day and time.

Responsibilities Primary: Pre-Construction

Secondary: Design Construction FF&E Construction Controls

Acronyms

Notes Design proposal leveling template

• Cost comparisons by:

• Discipline

Phase

• Proposed schedule comparison

• Comparison consultant firms proposed by discipline

Who should approve formally?

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2B.18 - 65% of GC Proposals Within Budget?

Procedure This is a decision tree determined by at least 65% of GC proposals

being within budget.

This will determine if the budget is reasonable and can be performed

by a majority of GC bidders.

If Yes then GoTo step 2B.19.

If No then GoTo revisit step 2B.15.

Responsibilities **Primary**:

Secondary:

Acronyms

Notes Yes / No Decision Tree

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2B.19 - VP / SVP Review of All Project Documents

Procedure All project documents are reviewed by the VP / SVP of D&C.

Responsibilities Primary: D&C VP / SVP

Secondary:

Acronyms

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2B.20 - Prepare Report to Client

Procedure After the VP / SVP review, a report is prepared for the client.

Responsibilities Primary: Construction

Secondary: Pre-Construction

Acronyms

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2B.21 - Deliver Report to Client

Procedure The report is delivered to the client.

Responsibilities Primary: Construction

Secondary: Pre-Construction

Acronyms

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2B.22 - Design Only?

Procedure This is a decision tree determined by whether this project was for the

Design only.

If Yes then GoTo step 2B.23 which concludes the Design process.

If No then GoTo step 2B.24 and continue with construction.

Responsibilities Primary:

Secondary:

Acronyms

Notes Yes / No Decision Tree

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2B.23 - End of Design Process

Procedure If the project was for Design only then that concludes the project.

Responsibilities Primary:

Secondary:

Acronyms

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2B.24 - GoTo 3A - Construction (Through GC Selection)

Procedure If the project was for Design and Construction then continue onto

flowchart 3A - Construction (Through GC Selection).

Responsibilities Primary:

Secondary:

Acronyms

Notes Reference to Other Flowchart

