

Demystifying the Integrated Project Delivery Model: Risk, Reward & Partnering for Success

Contract

The objective of this contract is to define the roles and responsibilities of the parties involved in the Integrated Project Delivery (IPD) model. This contract is intended to be a framework for the parties to work together to achieve the project goals. The parties agree to work together to achieve the project goals and to share the risks and rewards of the project. The parties agree to work together to achieve the project goals and to share the risks and rewards of the project.

(A) It is a process to allow an organization to focus resources on the greatest opportunities to increase sales and achieve the company's target.

(B) Marketing strategy's goal is to increase sales and achieve advantage over other competitors. It includes short term and long term activities of marketing that has to do with the analysis of a company's situation and contribute to its objectives.

(C) The objectives will be based on how you gain sales by acquiring and keeping customers.

(D) A marketing strategy helps on making good messages with the right kind of marketing approaches in order to have a good outcome of your sales and marketing activities.

(E) Putting your strategy into action is how your marketing plan should work. Marketing budgets will be set, at the same time it will also show you how you're going to work with your targets, it maybe through networking, advertising etc. Having the perfect timing with your activities to fit your customers buying cycles will help you saving money and maximizing sales. The marketing plan should be innovative. It should have the details on how your sales are followed up and the activities your doing to develop your offers.

(F) Improvement should be measured regularly and assessed in order for you to know what's beneficial and what is not. This will help you set new targets.

(G) Brand messages are delivered and planned based on the questions how, what, when, to whom and where your brand strategy is. Advertisement, visual communication and distribution channels are parts of brand strategy.

Signature 1



WORKSHOP OBJECTIVES

- When to use the IFOA
- Conditions of Satisfaction Overview
- What is Validation?
- Types of IFOAs
- Roles within the IFOA
- Trade Partner & Risk/Reward Partner Selection
- Incentive Pool, Risk/Reward Distributions

My role

is





What role do you have in the industry?

Owner
Owner's Representative
Developer
General Contractor
Trade Contractor
Architect
Engineer
Vendor/Supplier



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Solutions, Inc.**

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INTEGRATED FACILITIES
SOLUTIONS, INC.

Owner's Representative/Program Management

- Illinois-based Owner's Representative & Lean Coaching company
- 20-person firm
- 24 years in business
- Successfully completed over \$3.5B in work for more than 3,000 projects





WHAT
DO YOU
WANT TO
LEARN?





What do you want to learn?

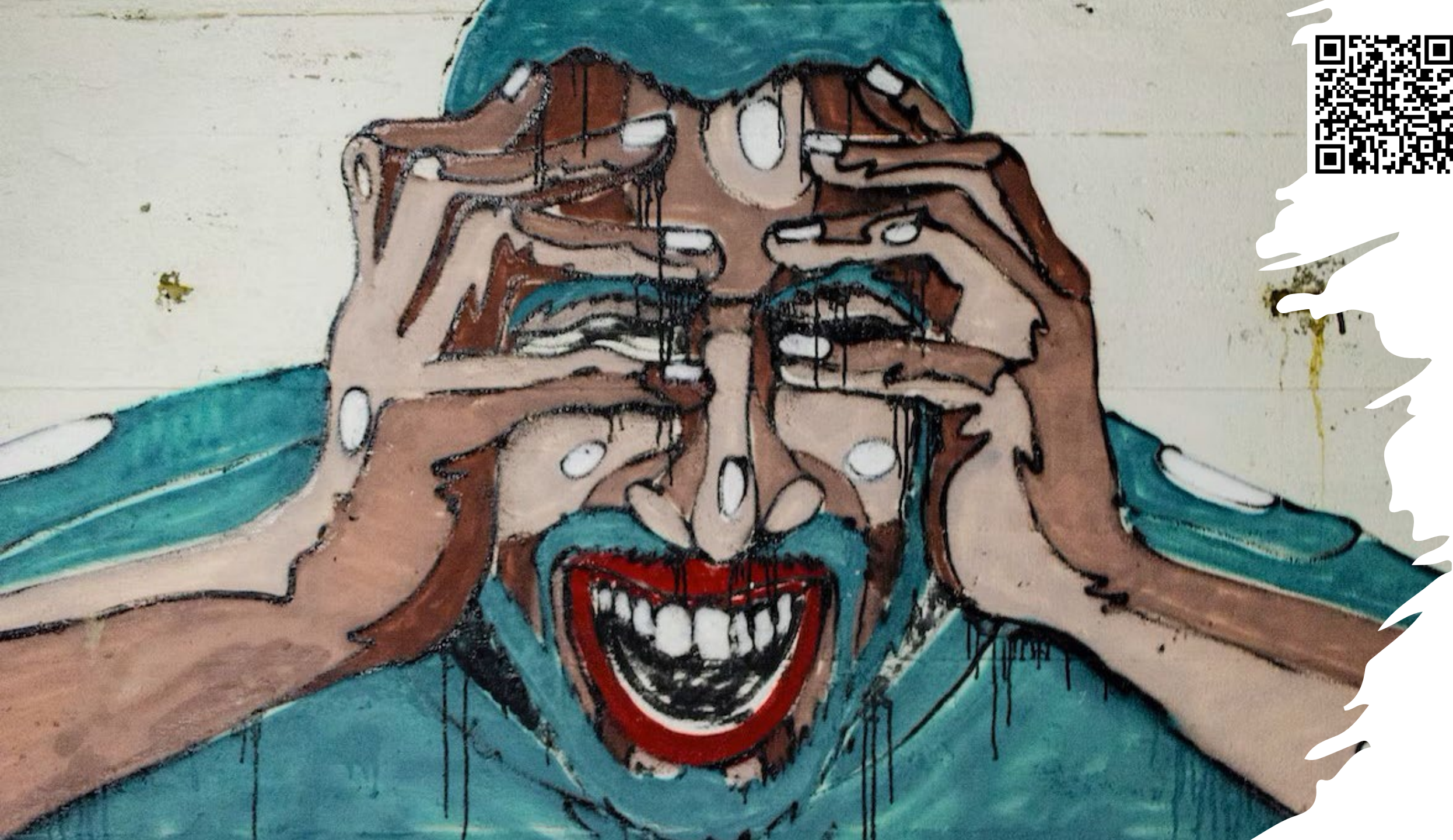
I am an Owner and am interested in utilizing
an IFOA

I am a GC/Designer/Engineer that works for
Owner's that are interested in utilizing an IFOA

I have utilized an IFOA previously and I want
to learn more

I have heard of the IFOA and am interested in
learning

Other





Contract Pain Points



No responses received yet. They will appear here...

1

Respect for people

2

Optimize the Whole

3

Generate Value

4

Eliminate Waste

5

Focus on Flow

6

Continuous Improvement





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- Incentive Pool, Risk/Reward Distributions

A dramatic silhouette scene of a construction site at sunset. Two workers in the foreground are silhouetted against the bright orange and yellow sky. One worker on the left is holding a smartphone, while the other in the center stands with hands on hips. In the background, a large crane extends diagonally across the frame, and several buildings under construction are visible, with workers silhouetted on their scaffolding. The overall mood is industrial and professional.

When to use the IFOA

4 Common Types Of Construction Contracts



Lump Sum Or
Fixed Price Contract

- Total fixed price for all construction related activities.
- Can include incentives benefits for early termination, or can also have penalties, called liquidation damages, for a late termination.



Cost Plus Contract

- Involve payment of the actual costs, purchases or other expenses generated directly from the construction activity.
- must contain information about covering contractor's overhead and profit.



Time and Materials
Contracts

- Preferred if the project scope is not clear or defined.
- must establish hourly or daily rate.
- Include additional expenses that could arise in process.



Unit Pricing Contracts

- Commonly used by builders and in federal agencies.
- Unit prices can also be set during bidding process as the owner requests specific quantities and pricing for a pre-determined amount of unitized items.

 the balance <https://www.thebalancesmb.com/common-types-of-construction-contracts-844483>

Contractor
Highest Risk

Government
Highest Risk

Contract Type

Firm Fixed Price

Fixed Price w/ Price Adjustment

Fixed Price Cost Incentive

Cost Plus Incentive Fee

Cost Plus Award Fee

Cost Plus Fixed Fee

Labor Hour / Time & Materials

Cost Reimbursement

Cost Plus a Percentage of Cost

<https://spo.hawaii.gov/procurement-wizard/manual/determine-contract-type/?print=print>

Four Common Types of Construction Contracts



Lump Sum

One fixed priced is defined to fully cover project



Unit Price

Categorized tasks and materials are individually priced out



Cost Plus

Project costs are fully covered in addition to a separate payment to cover profit and overhead



Time and Materials

Project costs are fully covered in addition to a separate payment based on an hourly or daily rate

<https://www.bigrentz.com/blog/construction-contracts>

PROJECT CHARACTERISTIC		HIGH	LOW
Level of Ambition	Technical Innovation	<input type="radio"/>	<input type="radio"/>
	Creative Innovation	<input type="radio"/>	<input type="radio"/>
	Other Areas of Innovation	<input type="radio"/>	<input type="radio"/>
	High Sustainability Goals	<input type="radio"/>	<input type="radio"/>
Stressors	High Value to Budget	<input type="radio"/>	<input type="radio"/>
	Challenging Schedule	<input type="radio"/>	<input type="radio"/>
Level of Clarity¹	Current Scope Development	<input type="radio"/>	<input type="radio"/>
	Expected Time for Future Scope Development	<input type="radio"/>	<input type="radio"/>
Probability of Change	Expected Change in Building Technology	<input type="radio"/>	<input type="radio"/>
	Expected Change in Business Case	<input type="radio"/>	<input type="radio"/>
	Expected Stakeholder / Public Driven Change	<input type="radio"/>	<input type="radio"/>
Complexity of Interaction	Level of Interdependency of Systems	<input type="radio"/>	<input type="radio"/>
	Level of Interdependency of Participants	<input type="radio"/>	<input type="radio"/>

¹ IPD is a good choice when managing projects with scopes that are not initially clear, but it will require a more extended validation period before setting targets

Conditions of Satisfaction (CoS): Define what “Success” means for the project team



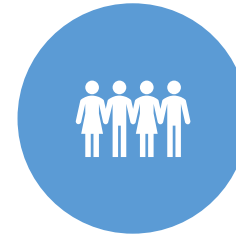
DECISION MAKING
CRITERIA



COMMON
LANGUAGE
DEVELOPMENT



SETS BEHAVIORAL
EXPECTATIONS



DRIVES TEAM
CULTURE



DESCRIBE POSITIVE
OUTCOMES

1st Healthcare IFOA in Chicago



- Schedule
- EMP w/Shared Savings
- Everyone Finishes with a Profit
- Owner Operational Efficiency
- All Stakeholders Feel Satisfied

Hospital Campus Master Plan (IFOA & GMP)

- Improvement of RFI and Submittal Metrics over “standard projects”
- EMP w/Shared Savings
- Everyone Finishes with a Profit
- Timeframe for overall project/master plans

Office Building in Illinois (GMP)

A 3D architectural rendering of a modern office building complex. The building features a mix of brick and large glass windows. One section is labeled 'HEALTH CLINIC'. There is a parking lot in the foreground with several spaces marked for disabled access. A person is standing near the entrance of the main building. The background shows some trees and a clear sky.

- Design Decisions must first be for the Benefit of Participants
- Minimize Disruption to Culture
- Need Campus Environment – coordinate with Training Center already built
- Building Employees can be proud of

R&D Building in Wisconsin (IPD Lite)

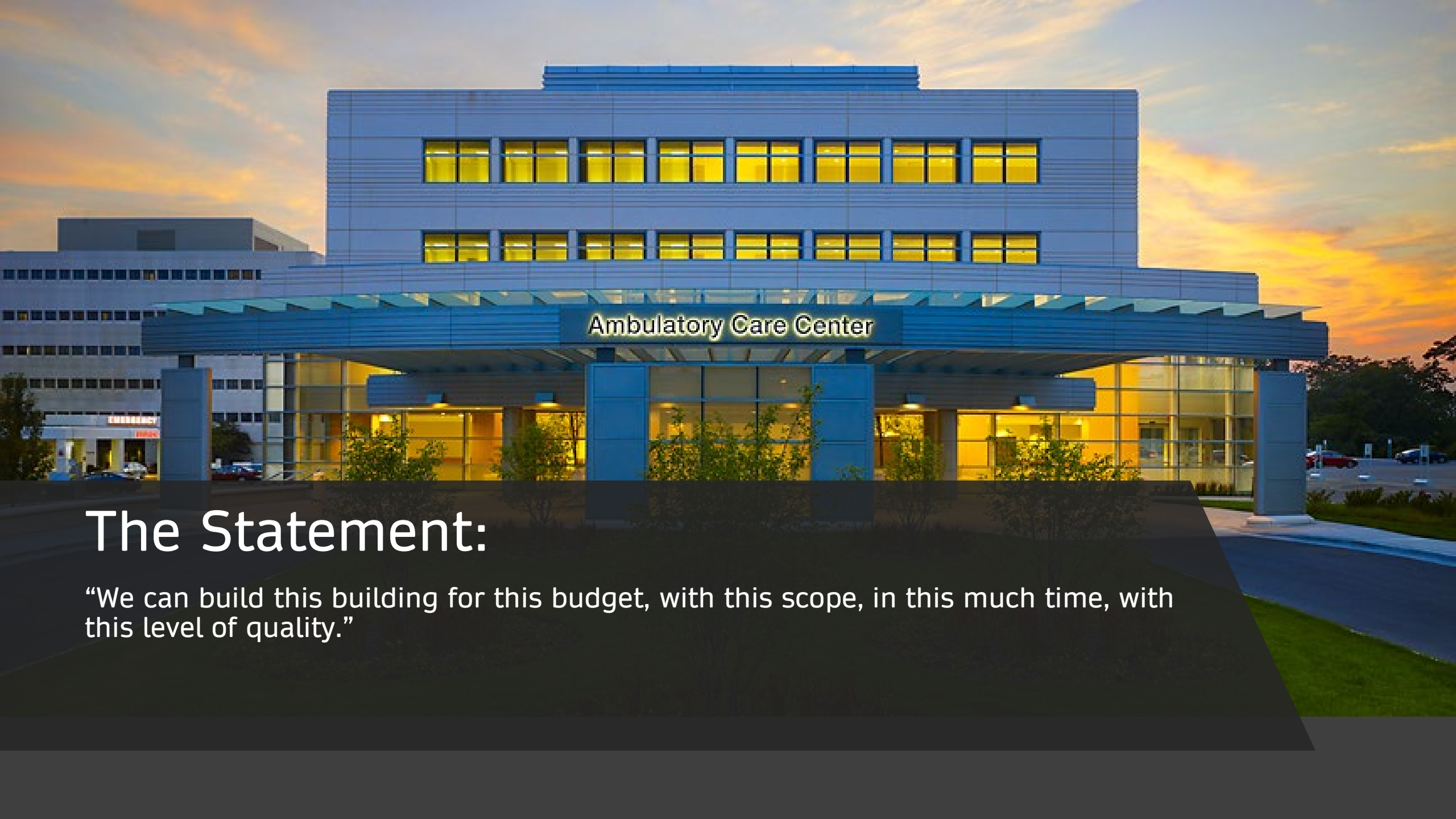
- Flexibility & Adaptability
- Collaboration & Innovation
- R&D Hub
- Zoning
- Volume
- Illustrations & Visual Connectivity

The background features three target boards. The central board is the largest and has a red bullseye, while the others are smaller and have grey bullseyes. A green arrow with three fletchings is shown hitting the red bullseye of the central target. The text is overlaid on the central target.

What is Validation and
Why is it Important?



The Purpose
of Validation
is Certainty



The Statement:

“We can build this building for this budget, with this scope, in this much time, with this level of quality.”

Traditional is broken

Value Engineering
becomes Scope
Reduction Tool

VALUE
Engineering

Facts

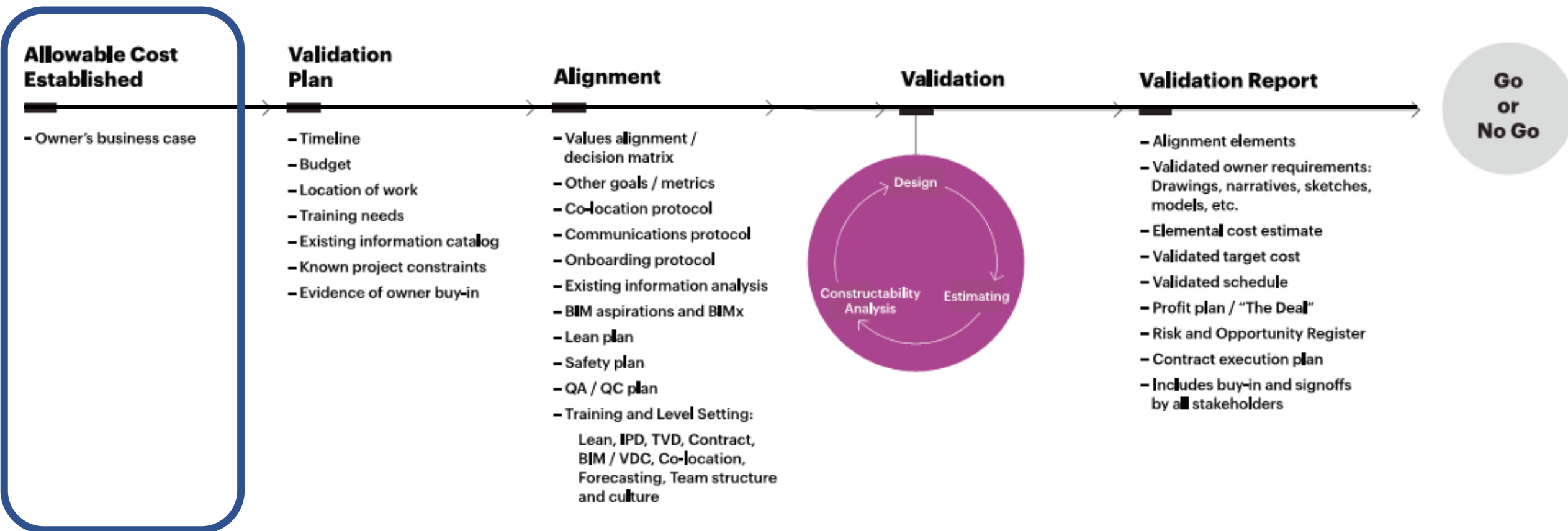
The word "Facts" is written in a large, bold, black, handwritten-style font. A hand is visible on the right side, holding a black pen and drawing a horizontal line underneath the word.

Getting
Started

- Site Information
- Feasibility Studies
- Market Need
- Labor Market
- Owner's Business Case
- Preliminary Program

Validation Parameters:

- Follows the Business Case
- Culminates in a Go, No-Go
- Dedicated Budget & Schedule
- Dedicated Team of Experts
- Design has not Started





The Owner

- Role Model
- Leadership
- Model Transparency
- Need Support from Upper Management

A person's hands are shown counting gold coins on a light-colored surface. The left hand is holding a coin, and the right hand is reaching towards a stack of coins. The background is a blurred blue pattern.

Allowable Cost Established*

*subject to change

Conditions of Satisfaction

Table 6. Examples of Conditions of Satisfaction

Conditions of Satisfaction	Yes	No
Team		
Maintain behaviors of excellence	<input type="checkbox"/>	<input type="checkbox"/>
Enhance team efficiency	<input type="checkbox"/>	<input type="checkbox"/>
Cause an IPD-novel owner to engage in future IPD projects	<input type="checkbox"/>	<input type="checkbox"/>
Motivate the owner to roll the team over a future project	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>
Project Delivery		
Meet scope	<input type="checkbox"/>	<input type="checkbox"/>
Meet or improve target cost value	<input type="checkbox"/>	<input type="checkbox"/>
Meet or improve target schedule	<input type="checkbox"/>	<input type="checkbox"/>
Meet or improve safety goals	<input type="checkbox"/>	<input type="checkbox"/>
Engage local labor	<input type="checkbox"/>	<input type="checkbox"/>
Meet or improve the acceptable level of risk	<input type="checkbox"/>	<input type="checkbox"/>
Obtain green building certification	<input type="checkbox"/>	<input type="checkbox"/>
Enhance aesthetics/branding (e.g. seek for design award)	<input type="checkbox"/>	<input type="checkbox"/>
Engage service/operation providers (e.g. physicians, operators)	<input type="checkbox"/>	<input type="checkbox"/>
Minimize the impact on ongoing operations	<input type="checkbox"/>	<input type="checkbox"/>
Engage community (e.g. during design)	<input type="checkbox"/>	<input type="checkbox"/>
Minimize the impact on the local community (e.g. during construction)	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>
Operations & Maintenance		
Advance operations start date	<input type="checkbox"/>	<input type="checkbox"/>
Improve flows	<input type="checkbox"/>	<input type="checkbox"/>
Reduce energy costs	<input type="checkbox"/>	<input type="checkbox"/>
Reduce operation costs	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>

Allowable Cost Established

- Owner's business case

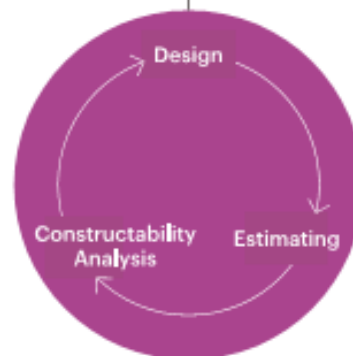
Validation Plan

- Timeline
- Budget
- Location of work
- Training needs
- Existing information catalog
- Known project constraints
- Evidence of owner buy-in

Alignment

- Values alignment / decision matrix
- Other goals / metrics
- Co-location protocol
- Communications protocol
- Onboarding protocol
- Existing information analysis
- BIM aspirations and BIMx
- Lean plan
- Safety plan
- QA / QC plan
- Training and Level Setting:
Lean, IPD, TVD, Contract, BIM / VDC, Co-location, Forecasting, Team structure and culture

Validation



Validation Report

- Alignment elements
- Validated owner requirements: Drawings, narratives, sketches, models, etc.
- Elemental cost estimate
- Validated target cost
- Validated schedule
- Profit plan / "The Deal"
- Risk and Opportunity Register
- Contract execution plan
- Includes buy-in and signoffs by all stakeholders

Go
or
No Go

Validation Plan



Allowable Cost Established

- Owner's business case

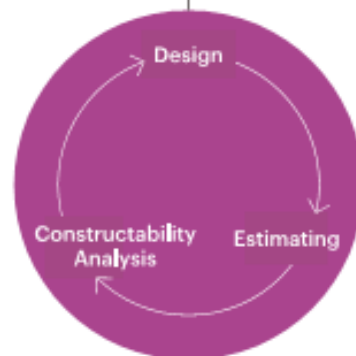
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Go
or
No Go

Alignment

- Values Alignment/Decision Matrix
- Other goals/metrics
- Co-location protocol
- Communications protocol
- Onboarding protocol

DECISION MATRIX

PIT: XXXXXXXXXX

Project values will be used to guide the team in decision making. Use this matrix on any major decision document that grades the decision on its affect (red, yellow, green) on the overall project values. Where there is a conflict between values, the document should discuss how the conflict will be resolved. If a decision doesn't affect a value, the team should question the necessity of the action.

Decision Outline

NOTES

	EFFECT of DECISION			
	POS	NEU	NEG	N/A
SUPPORTS				
EDUCATIONAL				
MODEL				
INSPIRATIONAL				
SUSTAINABLE				
OPERATIONAL				
BUILDABLE				
LEGACY				

DECISION MADE

(+ ANY BACKUP)

Budget estimate by Team

Budget impact validated by GC

DIR #

Please indicate in cell B33 if there is a Design Information Report associated with this item

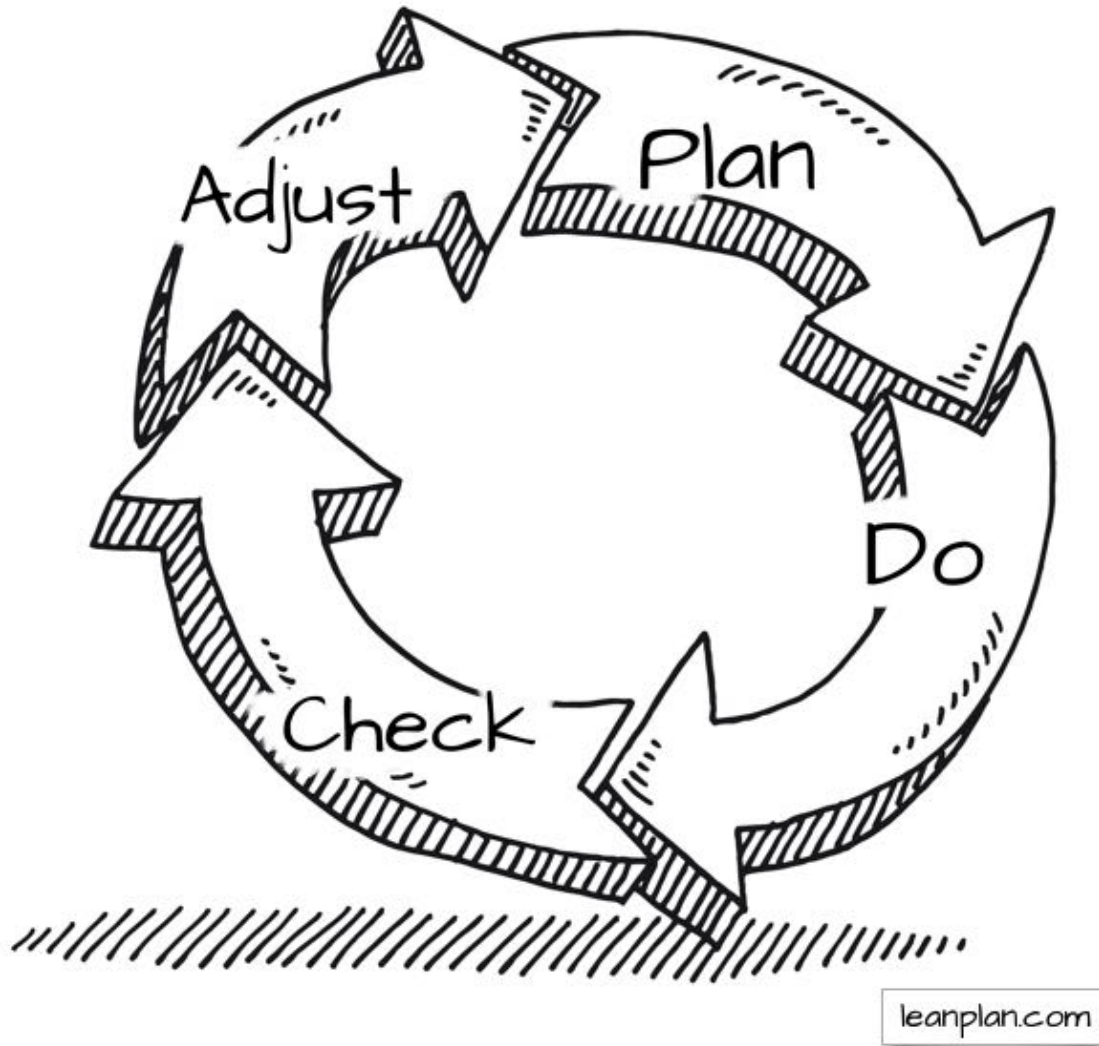
COMPLETED BY:

DATE:

EMAIL to:

Please indicate in cell F37 if Decision was to "Accept", "Reject" or "Under Review"

Alignment



- Existing information analysis
- BIM aspirations and BIMx
- Lean plan
- Safety plan
- QA/QC plan
- Training and level setting: Lean, IPD, TVD, Contract, BIM/VDC, Co-location, Forecasting, Team Structure and culture

Allowable Cost Established

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Validation Plan

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- Budget
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- Validated schedule
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- Contract execution plan
- Includes buy-in and signoffs by all stakeholders

Go
or
No Go

A grayscale image of a dartboard. A dart is shown hitting the bullseye in the center. The word "Validation" is written in white, sans-serif font, centered over the bullseye. A horizontal white line is drawn underneath the word.

Validation

Setting the Tone

Table 5. Kickoff Content

	Yes	No
Information Input		
Owner's Culture and Project Significance (*)	<input type="checkbox"/>	<input type="checkbox"/>
Owner's Priorities (*)	<input type="checkbox"/>	<input type="checkbox"/>
Behaviors of Excellence (*)	<input type="checkbox"/>	<input type="checkbox"/>
Project Approval Process (*)	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>
Team Advancement		
Relational Contracting (IFOA)	<input type="checkbox"/>	<input type="checkbox"/>
IPD	<input type="checkbox"/>	<input type="checkbox"/>
Last Planner™ System	<input type="checkbox"/>	<input type="checkbox"/>
Target Value Delivery	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>
Team Activities		
Identification of Validation Deliverables (*)	<input type="checkbox"/>	<input type="checkbox"/>
Pull Planning Validation (*)	<input type="checkbox"/>	<input type="checkbox"/>
Determining Rules of Engagement & Communication (*)	<input type="checkbox"/>	<input type="checkbox"/>
Determining Conditions of Satisfaction (*)	<input type="checkbox"/>	<input type="checkbox"/>
Others (write down)	<input type="checkbox"/>	<input type="checkbox"/>

- Image courtesy of Project Validation: A Guide to Improving Owner Value and Team Performance, 2019

(check applicable project cost)		<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		
		< \$10M			\$10M to \$29.99M			\$30M to \$100M			> \$100M		
Item	Description	Mandatory	Included	N/A	Mandatory	Included	N/A	Mandatory	Included	N/A	Mandatory	Included	N/A
1. Introduction													
1.1	Cover Sheet		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
1.2	Table of Contents		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
1.4	Executive Summary		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2. Program, Planning and Design													
2.1.b	Project Charter (A3.1)	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.1.c	Model of Care		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.2.a	Operational Assumptions	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.2.b	Service Plan Summary		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2.2.c	Regulatory constraints/requirements	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.a	Stacking Diagrams	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.b	Department Block Layouts	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.d	Concept floor plan(s) & alternatives	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.g	Detailed room design/room data sheets for key rooms	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.h	Design options/set-based studies		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.3.i	Simulation Results		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2.3.j	Code Research	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.a	Site/Urban Plan Analysis/Context		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.4.b	Utilities & Encroachments		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.c	General Site considerations		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.d	Site Survey/key features/impacts	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.e	Traffic/Access/Parking		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.g	Concept Site Plan	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.h	Building Massing Options		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.i	Building Concept Elevations		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.j	Exterior wall studies/sections		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.k	Concept Roof Plan		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.p	Outline Specifications		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
2.4.q	Sustainability strategy/tracking	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
3. Building Systems													
3.1	Structural Systems		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
3.2	Exterior Skin Systems		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
3.3	Mechanical Systems	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		

What Does “Done” Look Like?

- Image courtesy of Integrated Project Delivery – An Action Guide for Leaders, 2109

DECISION MATRIX

PIT: [REDACTED]

Project values will be used to guide the team in decision making. Use this matrix on any major decision document that grades the decision on its affect (red, yellow, green) on the overall project values. Where there is a conflict between values, the document should discuss how the conflict will be resolved. If a decision doesn't affect a value, the team should question the necessity of the action.

Decision Outline

NOTES

	EFFECT of DECISION			
	POS	NEU	NEG	N/A
SUPPORTS				
EDUCATIONAL				
MODEL				
INSPIRATIONAL				
SUSTAINABLE				
OPERATIONAL				
BUILDABLE				
LEGACY				

DECISION MADE

(+ ANY BACKUP)

Budget estimate by Team _____

Budget impact validated by GC _____

DIR #

Please indicate in cell B33 if there is a Design Information Report associated with this item

COMPLETED BY: _____

DATE: _____

EMAIL to:

Please indicate in cell F37 if Decision was to "Accept", "Reject" or "Under Review"

RISK / OPPORTUNITY LOG

UPDATE DATE: 4/9/18

DG	OPPORTUNITY THAT WILL IMPROVE CONDITIONS
LG	OPPORTUNITY THAT MIGHT IMPROVE CONDITIONS
O	MEDIUM RISK
Y	HIGH RISK
R	CRITICAL - HIGHEST RISK

RISK / OPPORTUNITY IDENTIFICATION					RISK / OPPORTUNITY ASSESSMENT		MANAGEMENT PLAN		
ID	Certainty / Uncertainty	Topic	Description	Category	Probability: Low/Med/Hi	Impact: Low/Med/Hi	Action	By Whom	By When
1	DG	Big Room	Co-locating for expedited documentation and approval	Schedule	High	High	Determine location and start date for Big Room	CM - [REDACTED]	4/30/18
2	R	Onsite labor	Local electrical labor shortage	Schedule	High	Medium	Prefab offsite as much as possible: Room in a box; headwalls; bathrooms?	Arch - [REDACTED]	4/21/18
3	LG	Phased permitting	Early site, concrete, superstructure	Cost	Medium	High	Contact AHI to discuss permitting options	CM - [REDACTED]	4/9/18
4	Y	Design team staffing not complete	Room strategy and responsibility matrix without full staffing plan	Team	Medium	High	Plan by end of month	Arch - [REDACTED]	4/27/18
5	Y	Final approval of layouts	Owner team final approval ongoing	Schedule	Medium	Medium	Approval by end of week	Owner - [REDACTED]	4/13/18

the decision of the mechanical system to be used for Natomas and the MOBs. Each building will be 3 stories in height and roughly 100,000 BGSF.

air per year
55 hours / week
UC/ Imaging / Lab: 7am-7pm, 7 days a week
90,000 sf
275 tons
3 BTU heating
Plenum return

Mechanical system that is energy efficient, has consistent temperature, and lower operational costs for lifetime of project.

Analysis												
	Rooftop AHU w/ VAV hydronic reheat & DX. Boiler/Air Handler on roof (same system).			Rooftop AHU w/ Single Duct VAV Evap condensing with Hydronic Reheat. Boiler/Air Handler on roof.			Water sourced heat pumps w/ single hydronic loop, boiler, and cooling tower. Separate OSA system. Boiler and cooling tower on roof. Pumps in building.			Ground source water heat pump. Separate OSA system. Pumps in building.		
CONTROL, more is better temperature to occupant desire temperature to hours of operation	Better pressure control & temp sensitivity Zone size: 0 - 2,000 sf. Easily altered systems for future tenant improvement.	4		Better pressure control & temp sensitivity. Zone size: 0 - 2,000 sf. Easily altered systems for future tenant improvement.	4		Larger temperature swings, less thermal controllability, small zone size range (300-2,000 sf). Possible heat pump change for tenant improvement.	1		Larger temperature swings, less thermal controllability, small zone size range (300-2,000 sf). Possible heat pump change for tenant	1	
DE, less need better announced operation -annual cost	Filter cleaning (2 banks on roof) \$56,866 annually	4		Filter cleaning (2 banks on roof) 68,566 annually. Water treatment required.	3		Filter cleaning (at each heat pump above ceilings 100+) 68,747. annually. Access required through T-Bar. Water treatment required.	1		Filter cleaning (at each heat pump above ceilings 100+) 60,305 annually. Access required through T-bar.	2	
less is better electricity (\$/KWH), water	\$191,858 electric, \$7,109 gas, \$5,322,957 LCC (102%)	1		\$180,746 electric, \$7,109 gas, \$5,197,183 LCC	2		\$122,274 electric, \$1,951 gas, \$4,459,614 LCC	4		\$151,188 electric, \$0 gas, \$4,904,450 LCC	3	
UPANCY, more flexible better toning of shelled space ert shelled space to occupancy	Not install VAV until later for shell space, extend ducts and hydronic lines	0		Not install VAV until later for shell space, extend ducts and hydronic lines	0		Not install heat pump until later for shell space; extend hydronic, electrical, ductus, and fire alarm	0		Not install heat pump until later for shell space; extend hydronic, electrical, outside air ducts, and fire alarm	0	
LIABILITY, more is better rk with other buildings d of engineers	Mechanical system exists within SVMF, hired vendor will be responsible for service.	0		Mechanical system exists within SVMF, hired vendor will be responsible for service.	0		New system, but hired vendor will be familiar with system and responsible for service.	0		New system, but hired vendor will be familiar with system and responsible for service.	0	
NEEDS, less is better building area or rooms ted outside building on site	Second floor shaft: SR = 36 sq. ft. RA = 36 sq. ft. EA= 4.0 sq. ft. Fire Pump Room 8' x 10' Booster Pump Room 8' x 8' Water Heater Room 6' x 6' Third floor shaft: SA = 42.5 sq. ft. RA = 42.5 sq. ft. EA = 4.0 sq. ft. Hydronic = 4.0 sq. ft. 86,000 - 90 CPM 215 tons 2.8 million Btu/h heat	0		Second floor shaft SA = 36 sq. ft. RA = 36 sq. ft. EA = 4.0 sq. ft. Fire Sup Room = 8' x 10' 36,000 - 90,000 cfm SA 215 tons 2.8 million Btu/heat Booster Pump Room = 8' x 8' Water Heater Room = 6' x 6" Third floor shaft: SA = 42 sq. ft. RA = 42.5 sq. ft. EA = 4.0 sq. ft. Hydronic = 4 sq. ft.	0		Marginally smaller vertical shaft (30 sf savings). Second floor shaft: OA = 20 sq. ft. EA = 4.0 sq. ft. Fire Pump Room = 8'x10' Booster Pump Room = 8' x 8' Water heater room = 6' x 6' Pump Room = 8' x 8' Hydronic 4.0 sq. ft. Third floor shaft: OA = 25 sq. ft. EA = 4.0 sq. ft. 215 tons 2.8 million Btu/h heat	0		Marginally smaller vertical shaft (30 sf savings) Second floor shaft: OA = 20 sq. ft. EA = 4.0 sq. ft. Fire Pump Room = 8' x 10' Booster Pump Room = 8' x 8' Water Heater Room = 6' x 6' Pump Room = 8' x 8' Third floor shaft: OA = 25 sq. ft. EA = 6.0 sq. ft. Hydronic = 4.0 sq. ft. 215 tons 2.8 million Btu/h heat	0	
is better ing cost for Year 1	\$2,340,000 (\$26 / sf) (Base system) \$4,000 - \$5,000 per VAV			\$2,565,000 (\$28.5 / sf) 109% of base system. \$4,000 - \$5,000 per VAV			\$3,150,000 (\$35 / sf) 134% of base system \$8,000 - \$10,000 per heat pump			\$3,510,000 (\$39 / sf) 150% of base system.		
- Points, more is better		9			9			6			6	

Allowable Cost Established

- Owner's business case

Validation Plan

- Timeline
- Budget
- Location of work
- Training needs
- Existing information catalog
- Known project constraints
- Evidence of owner buy-in

Alignment

- Values alignment / decision matrix
- Other goals / metrics
- Co-location protocol
- Communications protocol
- Onboarding protocol
- Existing information analysis
- BIM aspirations and BIMx
- Lean plan
- Safety plan
- QA / QC plan
- Training and Level Setting:
Lean, IPD, TVD, Contract, BIM / VDC, Co-location, Forecasting, Team structure and culture

Validation



Validation Report

- Alignment elements
- Validated owner requirements
Drawings, narratives, sketches
models, etc.
- Elemental cost estimate
- Validated target cost
- Validated schedule
- Profit plan / "The Deal"
- Risk and Opportunity Register
- Contract execution plan
- Includes buy-in and signoffs
by all stakeholders

Go
or
No Go

1 Board Summary

Project Team Organization

Project Development/Summary 2016–2018

Team Process

Project Schedule

2 Project Overview

The Project Team

The Project Concept

Concept of Care and Operations

Concept of the Site and Community

Validation Strategy

Project Team Values

3 Project Design

Design Overview

Exterior Architecture

Building Elevations

- Energy Modelling and
Parametric Analysis Process

Construction Innovations

Landscape PIT Summary

Structural PIT Summary

Mechanical PIT Summary

Civil PIT Summary

4 Project & Development Information

Project Area Summary

Project Schedule

5 Risk Register

Project Risk Register

6 Opportunity Log

Project Opportunity Log

7 Assumptions Log

Project Assumption Log

8 Target Cost

Validation Budget

9 Design Documents

Found in Book 2 (Technical Design Documents)



- Image courtesy of Integrated Project Delivery – An Action Guide for Leaders, 2109



#Content

Validation Report

- Alignment elements
- Validated owner requirements: drawings, sketches, narratives, models, etc.
- Elemental cost estimate
- Validated target cost
- Validated schedule

RISK / OPPORTUNITY LOG

UPDATE DATE: 4/9/18

DG	OPPORTUNITY THAT WILL IMPROVE CONDITIONS
LG	OPPORTUNITY THAT MIGHT IMPROVE CONDITIONS
O	MEDIUM RISK
Y	HIGH RISK
R	CRITICAL - HIGHEST RISK

RISK / OPPORTUNITY IDENTIFICATION					RISK / OPPORTUNITY ASSESSMENT		MANAGEMENT PLAN		
ID	Certainty / Uncertainty	Topic	Description	Category	Probability: Low/Med/Hi	Impact: Low/Med/Hi	Action	By Wh	
1	DG	Big Room	Co-locating for expedited documentation and approval	Schedule	High	High	Determine location and start date for Big Room		
2	R	Onsite labor	Local electrical labor shortage	Schedule	High	Medium	Prefab offsite as much as possible: Room in a headwalls; bathrooms		
3	LG	Phased permitting	Early site, concrete, superstructure	Cost	Medium	High	Contact AHI to discuss permitting options		
4	Y	Design team staffing not complete	Room strategy and responsibility matrix without full staffing plan	Team	Medium	High	Plan by end of month		
5	Y	Final approval of layouts	Owner team final approval ongoing	Schedule	Medium	Medium	Approval by end of week		

- Profit plan/ “The Deal”
- Risk and Opportunity register
- Contract execution plan
- Includes buy-in and signoffs by all stakeholders

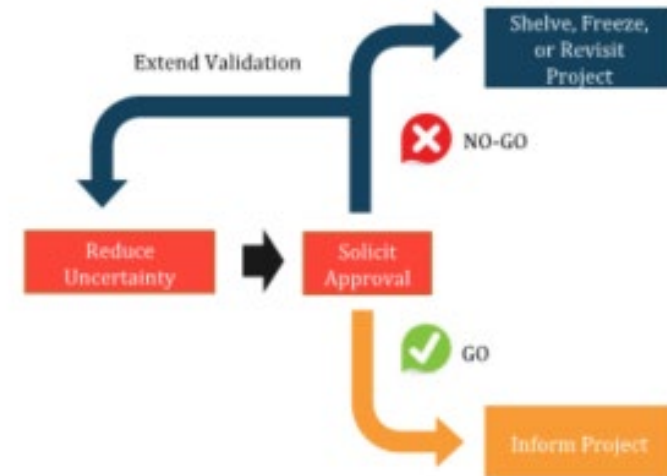


Figure 4. Go/No-Go decision

R&D Building in Wisconsin (IPD Lite)

- Owner Established Defined Program
- Conditions of Satisfaction were Understood
- Contractor and Architect on board Early
- **THE ISSUE: A Validation Plan was not established, Target Budget 10% too high**
- **RESULTS: Owner Requires Scope Reductions to Match Budget *difficult tradeoff**

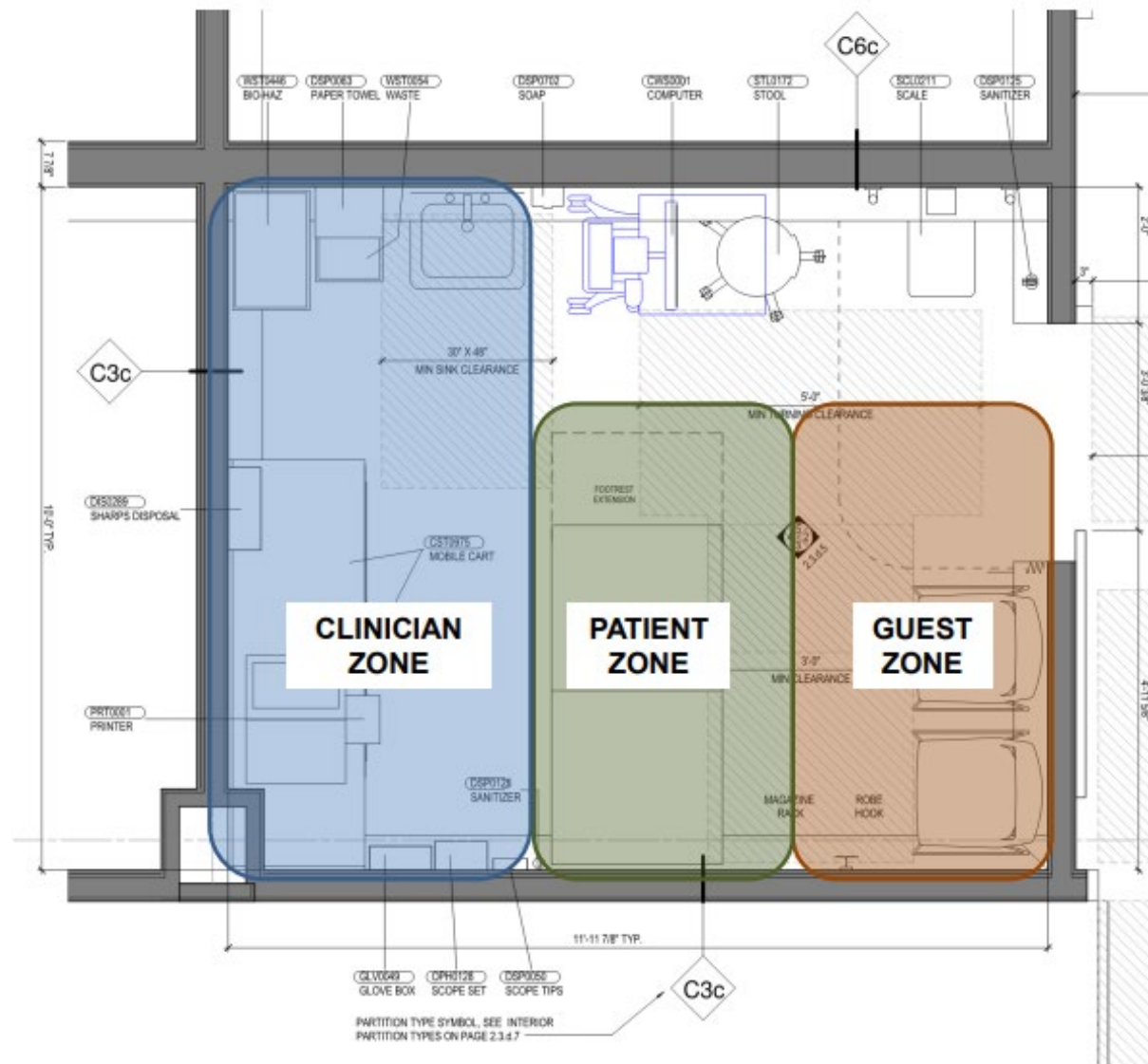


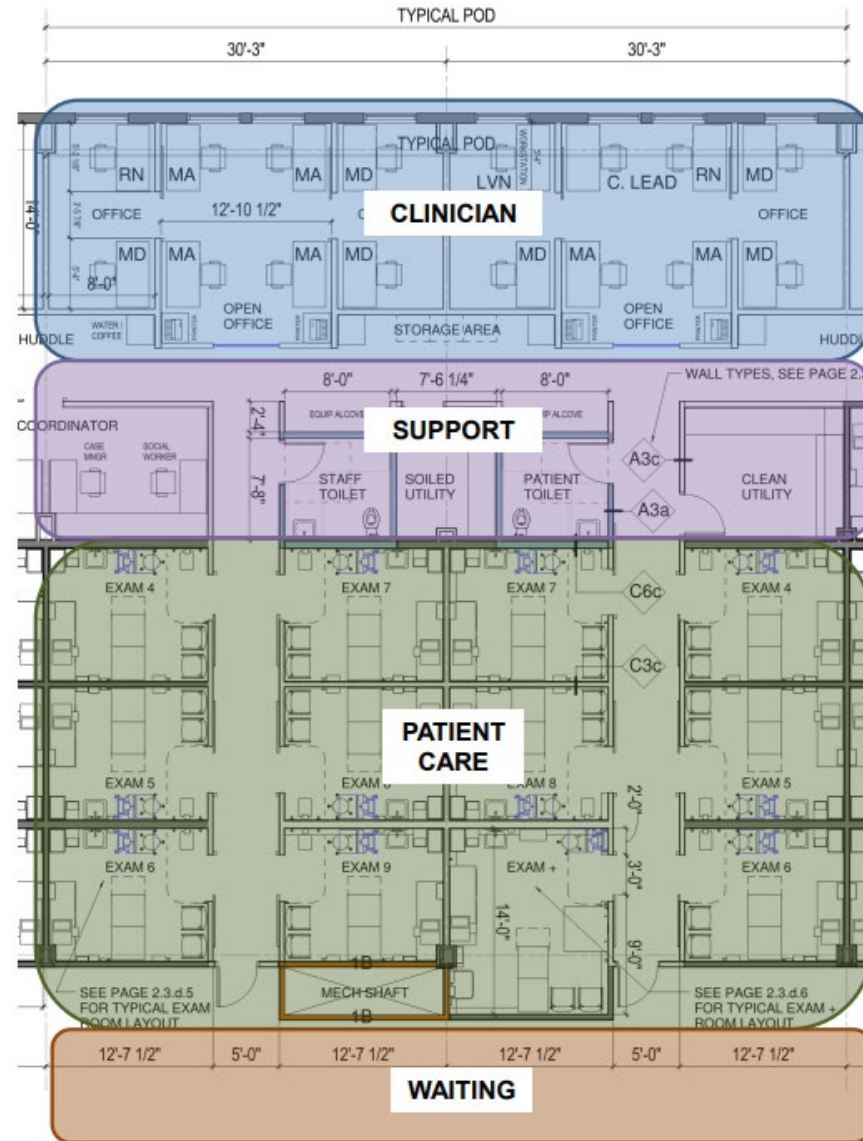
Office Building in Wisconsin (IPD)

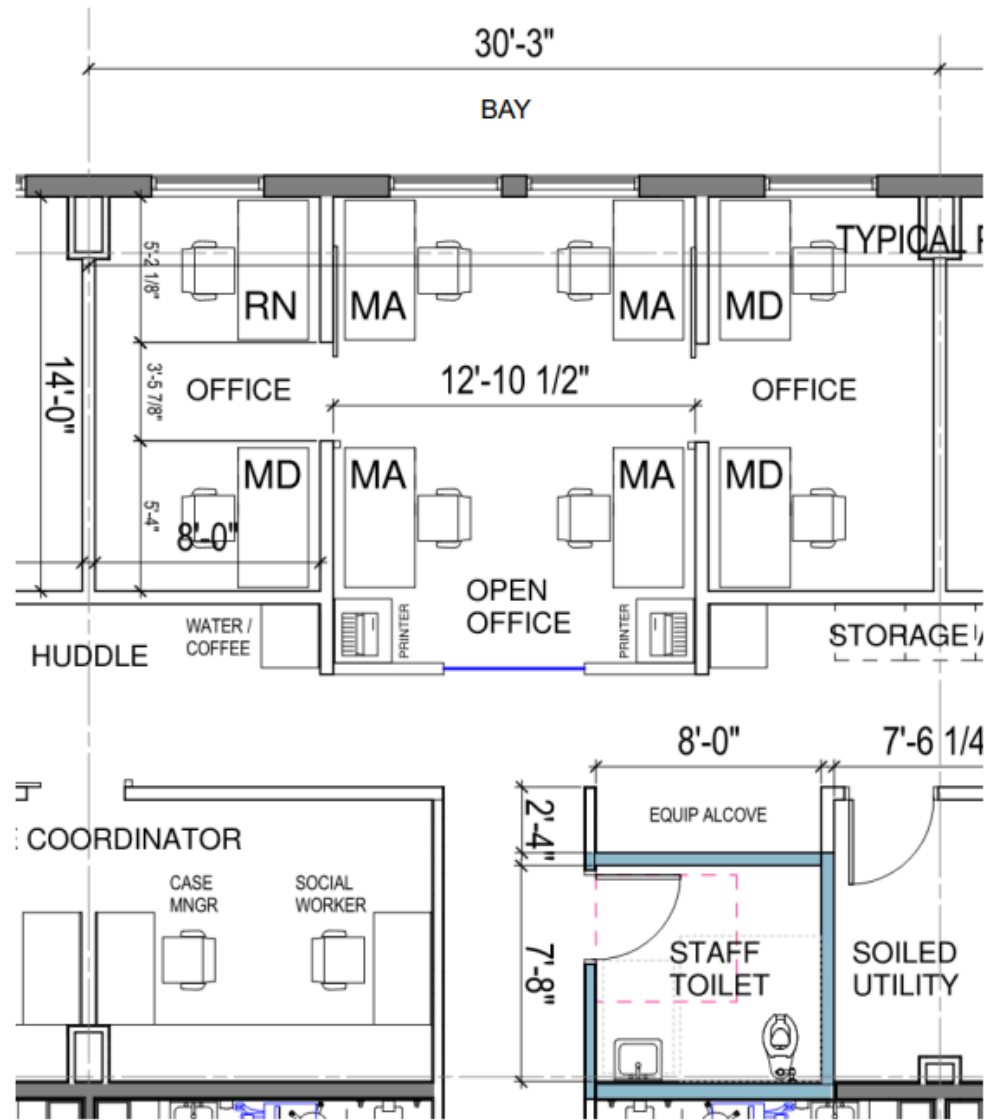
- Developer Provides Budget for Renovation at \$30M
- Owner Hires Lean Coach
- Conditions of Satisfaction Established
- Owner Selects IPD contract
- Architect and General Contractor Hired For Validation Process
- THE ISSUE: Validation Process completes with a Target Value of \$60M
- THE SOLUTION: Owner Can Now Make a Good Business Decision For Next Step
- RESULTS: Validation: 3 Months at 1% of Budget Cost vs. Traditional: 12 Months at 15% of Budget

Examples









2.3.m Materials Management

The current SMF medical supplies distribution method is direct to each clinic. Each clinic manages inventory, cost center, turnover, and storage. For larger buildings deliveries are received at a designated "back of house" location in route to clinic drop points. Most vendors deliver direct to clinics, at reception stations, during hours of operation.

For the purpose of this validation the existing standard practice of supplies delivery direct to clinic locations has been planned. Each clinic either has a dedicated or share clean utility room as a store room. PAR levels for most supplies will be kept within the patient care exam or procedure rooms. The frequency of deliveries may vary by department but will be tuned to PAR level storage available in each clinic.

As an alternate, leadership at SMF did explore centralized clean supplies storage on each floor with dedicated staff for distribution. This approach would seek to reduce multiple clean utility rooms and stocking sequences. Current standard work and cost center accounting does not support this centralized approach.

On the first floor, all materials will be received at grade level into a receiving room. From this location vendors or staff will distribute supplies via a service elevators to the location of need. Storage of building maintenance items, recycling, and soiled holding has been collocated with receiving area.

Planned:

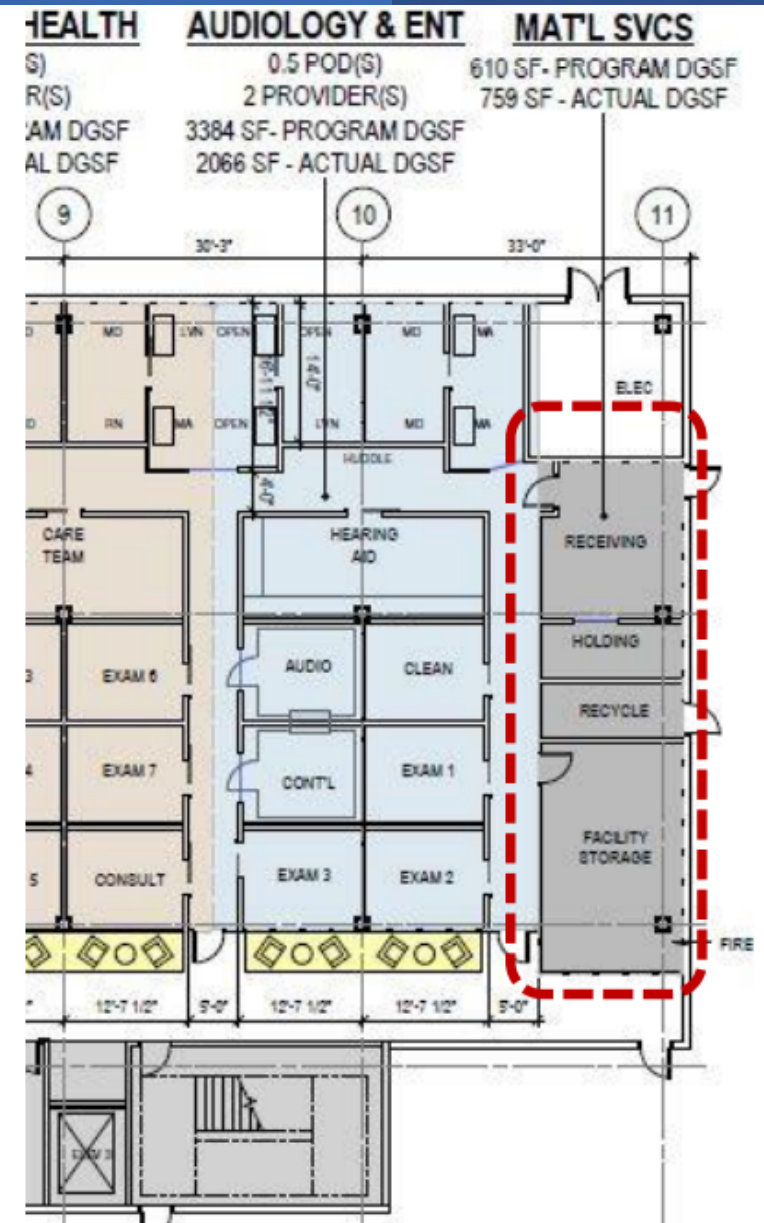
- Distributed Clean Utility Rooms in patient care areas
- Distributed Soiled Utility Rooms in patient care areas
- Receiving Room at grade
- Service elevator
- Waste enclosure in parking lot
- Soiled holding room within building
- Recycled holding room within building

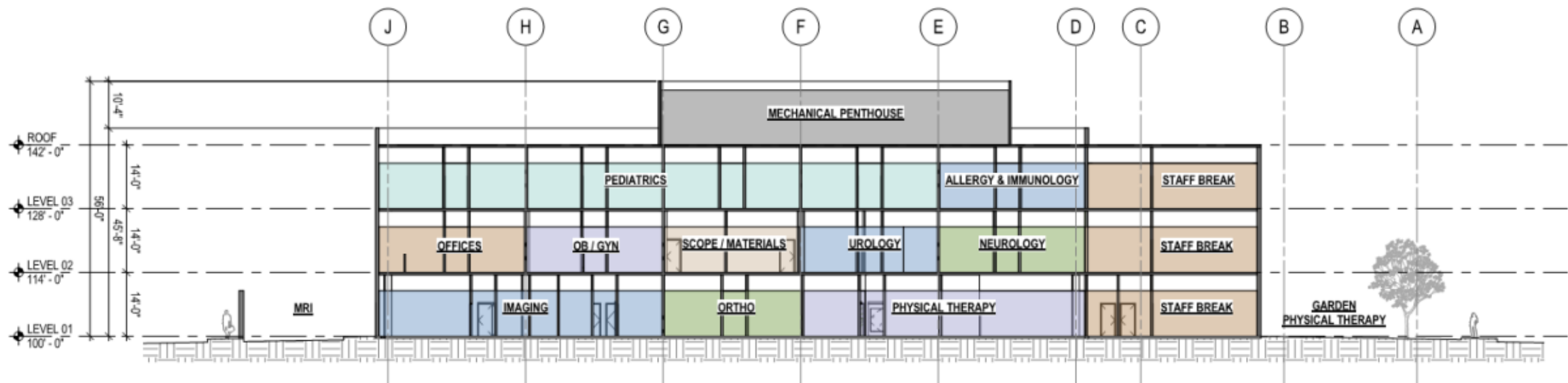
Further Study:

- Delivery and collection frequencies related to size of storage and utility rooms

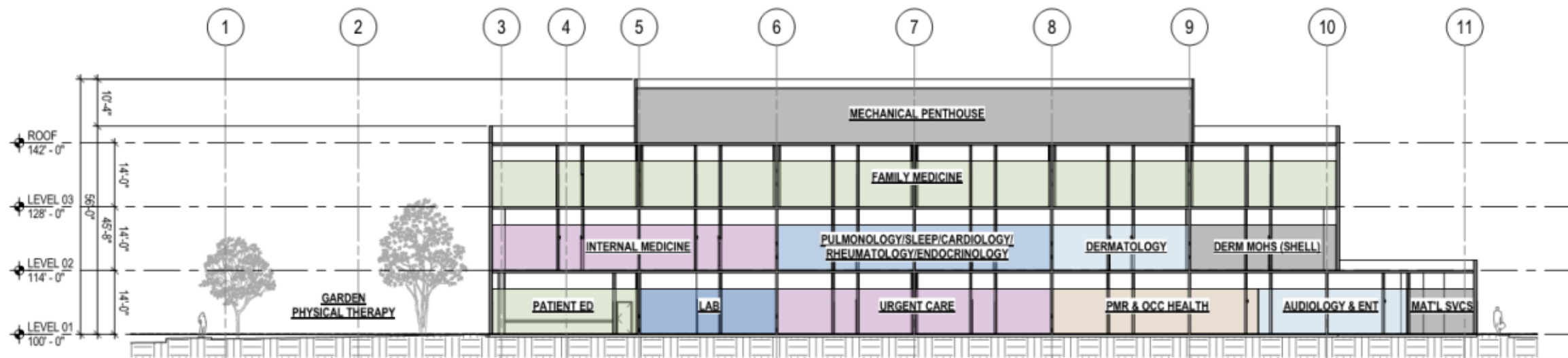
Not Provided:

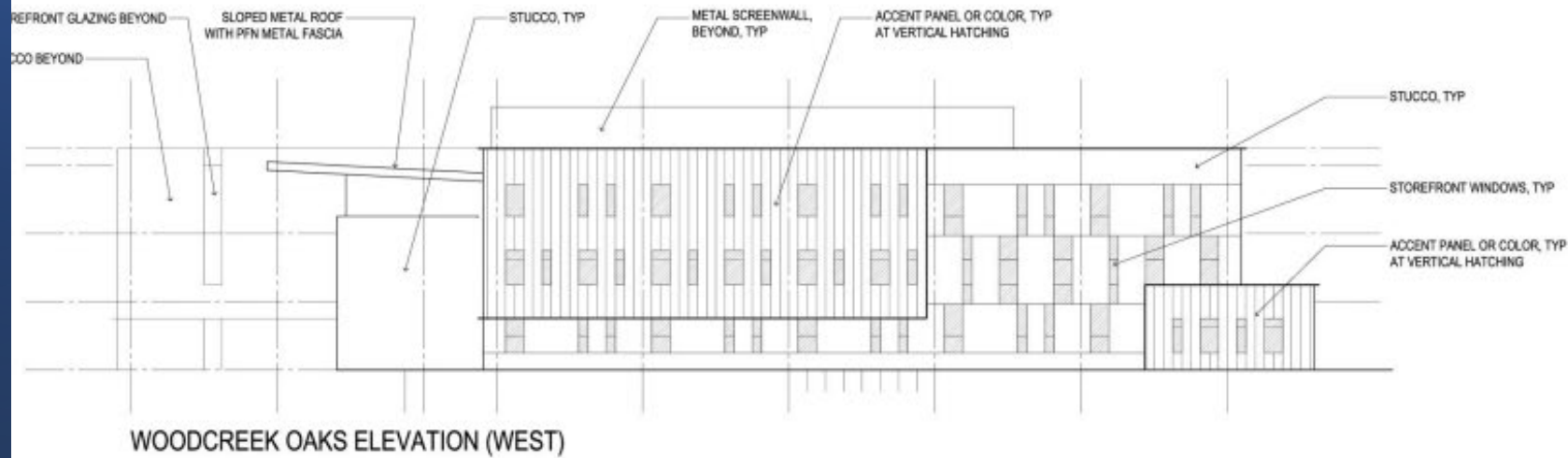
- Loading dock





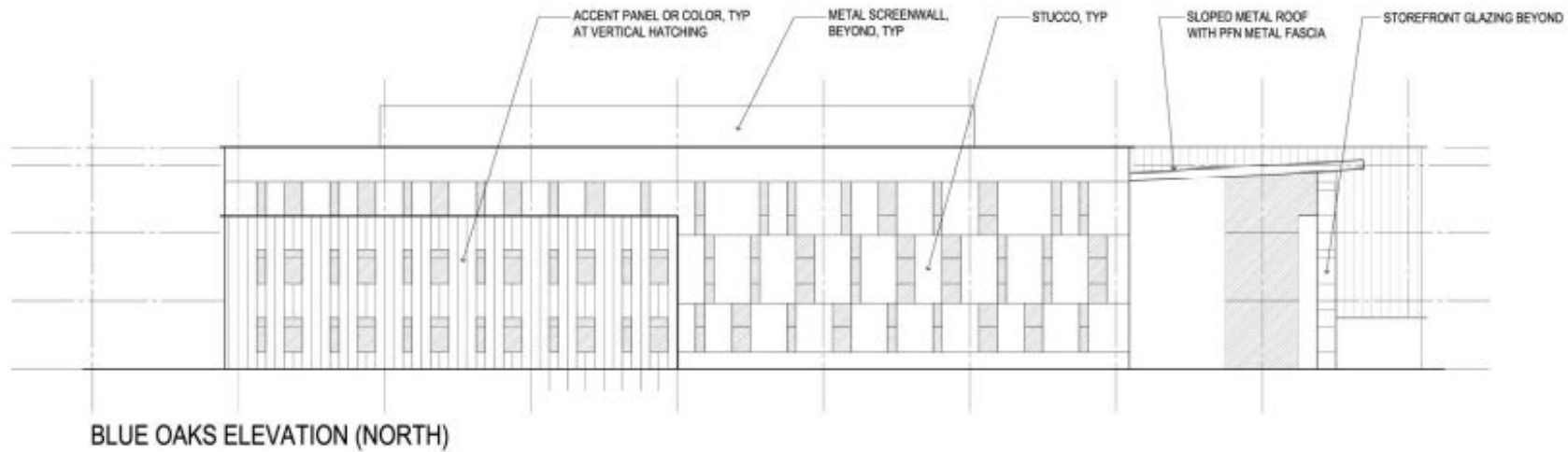
1 BUILDING SECTION - WEST WING
NTS





Total Wall Surface Area by Façade:

West	11,038 SF
North	11,273 SF
East	11,038 SF
South	11,273 SF
Total	44,622 SF



Total Wall Surface Area by Façade:

Stucco Target	Stucco Provided
60%	60%
Storefront Target	Storefront Provided
30%	27%
Accent Target	Accent Provided
10%	13%

TYPICAL ROOM FINISH SCHEDULE - SUTTER WEST ROSEVILLE MOB

ROOM TYPE	FLOOR		WALLS			CEILING		
	MATERIAL	BASE	FINISH 1	FINISH 2	FINISH 3	MATERIAL 1	MATERIAL 2	MATERIAL 3
Break Room	LVT	4" Rubber	Painted, level 4	Custom Graphic Wall Covering Accent		ACT - Tight Fissure	Gyp Soffit	
Clean Utility	Sheet Vinyl	4" Rubber	Painted, level 4			ACT - Tight Fissure		
Coffee	Porcelain Tile w/ 25% Pattern	4.5" Rubber Millwork	Painted, level 4	Glass Tile backsplash		ACT - Tight Fissure	Gyp Soffit	
Conference	Carpet w/ 25% pattern	4" Rubber	Painted, level 4	Accent paint		ACT - Tight Fissure	Gyp Soffit	Decorative pendant light
Consult	Carpet	4" Rubber	Painted, level 4	Accent paint		ACT - Tight Fissure		
Corridors - Public	Carpet w/ 25% pattern	4.5" Rubber Millwork	Painted, level 4	Accent paint		ACT - Tight Fissure	Gyp Soffit, wayfinding	Decorative pendant light, wayfinding
Corridors - Clinic	Carpet w/ 25% pattern	4" Rubber	Painted, level 4	Accent paint		ACT - Tight Fissure		
Dressing Room	Carpet	4" Rubber	Painted, level 4	Accent paint		ACT - Tight Fissure		
Electrical	Sealed Concrete	4" Rubber	Painted, level 4			N/A		
Elevator	Porcelain Tile	N/A	FRL			Wood		
Elevator Equipment	VCT	4" Rubber	Painted, level 4			N/A		
Exam Rooms	LVT	4" Rubber	Painted, level 4	Accent paint	FRL Wainscot - 2 Walls	ACT - Tight Fissure		
IT	Sealed Concrete	4" Rubber	Plywood			N/A		
Lab	Sheet Vinyl w/ 25% Pattern	4" Rubber	Painted, level 4	Plastic Wall Protection Wainscot		ACT - Tight Fissure		
Lab - Draw Rooms	Sheet Vinyl w/ 25% Pattern	4" Rubber	Painted, level 4	FRL Wainscot - 2 walls		ACT - Tight Fissure		
Lobby - Floor 1	Porcelain Tile w/ 25% Pattern	4.5" Rubber Millwork	Painted, level 4	Accent paint	Decorative focal wall	ACT - Tight Fissure	Gyp Soffit	Decorative pendant light
Lobby - Floor 2, 3	LVT & Carpet Pattern	4.5" Rubber Millwork	Painted, level 4	Accent paint	Decorative focal wall	ACT - Tight Fissure	Gyp Soffit	
MA	Carpet w/ 25% Pattern	4" Rubber	Painted, level 4	3 Form wainscot accent wall (3D)		ACT	Gyp Soffit- match floor pattern	Decorative pendant light for wayfinding
MRI	Sheet Vinyl w/ 25% Pattern	4" Rubber	Painted, level 4	Accent paint		ACT- Tight Fissure	Wood Soffit	
MRI Control	Sheet Vinyl	4" Rubber	Painted, level 4			ACT		
MD/Care Coordinator Office	Carpet	4" Rubber	Painted, level 4	Accent paint		ACT		
Patient Toilets	Sheet Vinyl	6" Cove	Painted, level 5 Semi-Gloss	FRL Wainscot - All walls		Gyp Board	Semi-Gloss Paint	
Physical Therapy Gym	Rubber Flooring w/ 25% Pattern	4" Rubber	Painted, level 4 Semi-Gloss	Accent paint Semi-Gloss	Mirrors, Ballet Bar	ACT - Tight Fissure	Gyp Soffit	
Physical Therapy Treatment	Rubber Flooring w/ 25% Pattern	4" Rubber	Painted, level 4 Semi-Gloss	Accent paint Semi-Gloss		ACT - Tight Fissure		
Procedure	Sheet Vinyl	6" Cove	Painted, level 5 Semi-Gloss	Plastic Wall Protection Wainscot		ACT - Tight Fissure		
Public Toilets	Porcelain Tile	Schluter	Porcelain Tile Wainscot, all walls	Painted, level 5 Semi-Gloss		Gyp Board	Semi-Gloss Paint	
Receiving	VCT	4" Rubber	Painted, level 4	Plastic Wall Protection Wainscot		ACT		
Reception	Carpet	4" Rubber	Painted, level 4	People Management	3form/Interlam Design Feature	ACT - Tight Fissure	Wood Soffit	Decorative pendant light
Scope/Sterile Work	Sheet Vinyl	6" Cove	Painted, level 5 Semi-Gloss	Plastic Wall Protection Wainscot		ACT - Ceramaguard		
Shower	Porcelain Tile	Schluter	Porcelain Tile Wainscot, all walls	Painted, level 5 Semi-Gloss		Gyp Board	Semi-Gloss Paint	
Soiled Utility	Sheet Vinyl	6" Cove	Painted, level 4 Semi-Gloss	FRP - full height 4 walls		ACT - Tight Fissure		
Staff Toilets	Sheet Vinyl	6" Cove	Painted, level 5 Semi-Gloss	FRL Wainscot - All walls		Gyp Board	Semi-Gloss Paint	
Stair	Rubber Flooring	4" Rubber	Painted, level 4			Gyp Board		
Storage	VCT	4" Rubber	Painted, level 4			ACT		
Sub-Wait	Carpet	4.5" Rubber Millwork	Painted, level 4	Accent paint		ACT - Tight Fissure	Wood Soffit	
Trash	VCT	4" Rubber	Painted, level 4 Semi-Gloss	Plastic Wall Protection Wainscot		ACT		
Vestibule - Floor 1	Walk-Off Carpet Tile	4.5" Rubber Millwork	Painted, level 4			Wood Ceiling		
Waiting	LVT & Carpet Pattern	4.5" Rubber Millwork	Painted, level 4	Accent paint		ACT - Tight Fissure	Wood Soffit	Decorative pendant light
Work Room	Carpet	4" Rubber	Painted, level 4	Accent paint		ACT		

General

Sutter Health integrated strategy for capital construction projects, utilizing their lean project delivery approach has yielded in significant benefits with contract partners for interior products/systems. All Interior materials and finish components meet and represent the Value-Based Ambulatory Clinic Design Standards including finish types and classifications.

Design Elements, Features and Systems

All design elements, features and systems shall comply with applicable codes. They shall be cost effective up front and promote lower cost to operate and maintain. Elements should be durable and appropriate for project scope and types; they should withstand wear and repetitive use.

Entry/Lobby:

The entrance and lobby are the first impression and shall look professional, clean, warm and friendly. Natural daylight will flood through the glass storefront and vestibule area providing a connection and views to the nature.



Sutter Roseville Medical Center MOB 8 benchmark images



Decorative and Modern Elements will give the visitor a first impression.

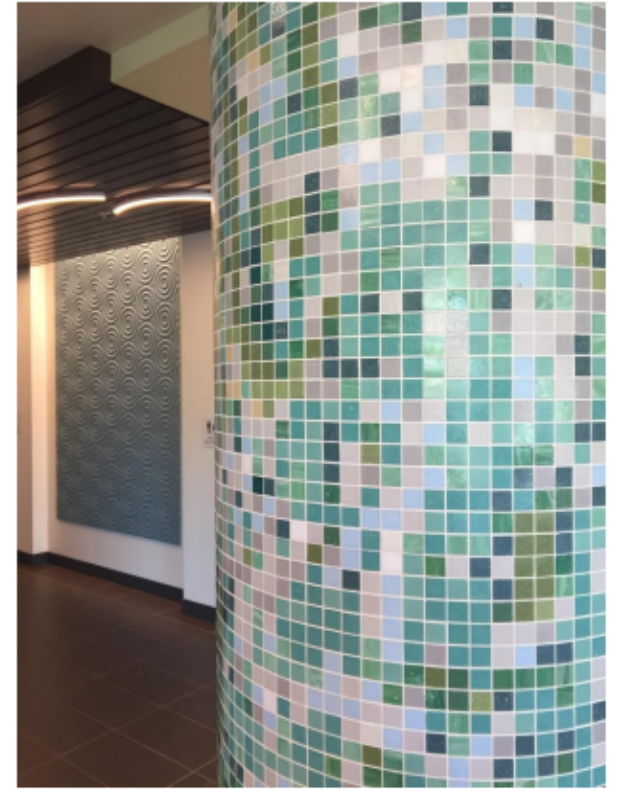
Interior architecture and finishes will promote clear wayfinding to this first point of contact. Interior architecture will include wood look paneling and ceiling soffits as well as decorative pendant lights giving an impression of a hospitality environment.

Waiting Areas:

Comfortable seating areas will be dispersed and provided throughout the clinical zones. A variety of seating will be provided for a variety of people types and appropriate for the context/neighborhood where this building is located and for the community it is serving. Seating fabric will be pleasing in appearance and easily maintained. Furniture will have vibrant color tones with fresh patterns that are aesthetically pleasing and timeless.

Coffee Area:

Edible provisions will bring natural aromas to the Entry/lobby area. Slight aromas will provide a positive distraction and ease anxiety for patients. Since patients and family spend a lot of time in waiting areas, this provides a convenient location to wait in a neighborhood café type setting. Café tables and booths combined with a ceiling architectural feature will provide a visual interest for patients and family to stay which are amenities that make patients feel calmer.




Category	Budget
Construction	\$ 102,567,854
Professional Services	\$ 15,694,353
Equipment	\$ 15,660,600
Project Contingency	\$ 14,600,000
IT/Telecom	\$ 5,224,050
Furniture/Signage	\$ 4,343,900
Site Entitlements / Development Permits	\$ 2,278,518
Total Project Budget	\$ 160,369,275



Definitions

The image shows an open book with the word "Definitions" written in a large, black, cursive script across two pages. The paper is aged and slightly yellowed. The background is dark and out of focus, suggesting a library or study area with bookshelves.



IPD Trade Partner: A subcontractor contracted with the general contractor or owner, profit-at-risk

Risk-Reward Pool (R/R): 100% of the profit put at risk by the R/R Members. Dependent on the Final Actual Cost, the R/R Members may earn all, a portion of, or no Risk/Reward Amount.

Standard Subcontractor: A subcontractor contracted with the general contractor, lump sum

IPD Consultant: A consultant contracted with the architect or owner, profit-at-risk

Standard Consultant: A design consultant contracted with the architect or owner, lump sum

Estimated Maximum Price (EMP): Sum of all estimated Chargeable Costs + IFOA Contingency + Allowances + R/R Amount

* Occurs before completion of the Planning Phase



At Risk Threshold (ART): Maximum project cost acceptable to the Owner before the R/R Amounts will be applied to cover team cost overruns.



- **Incentive Threshold (IT):** An amount set below the ART that will be compared to Final Actual Costs to determine the savings for calculation of the Incentive Amount

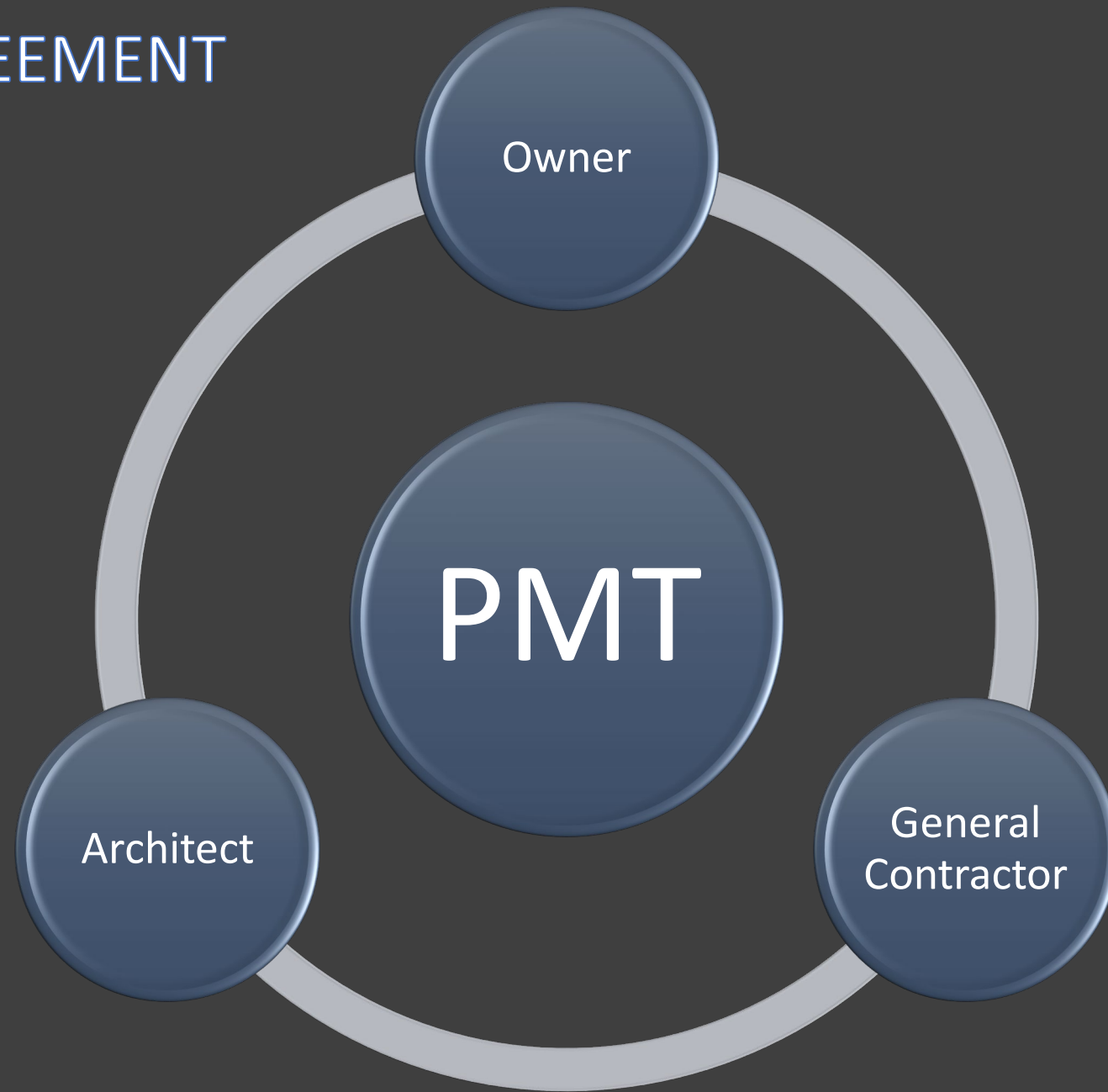
Senior Management Team

(SMT): Representatives from profit pool firms who have a fiduciary responsibility to those firms

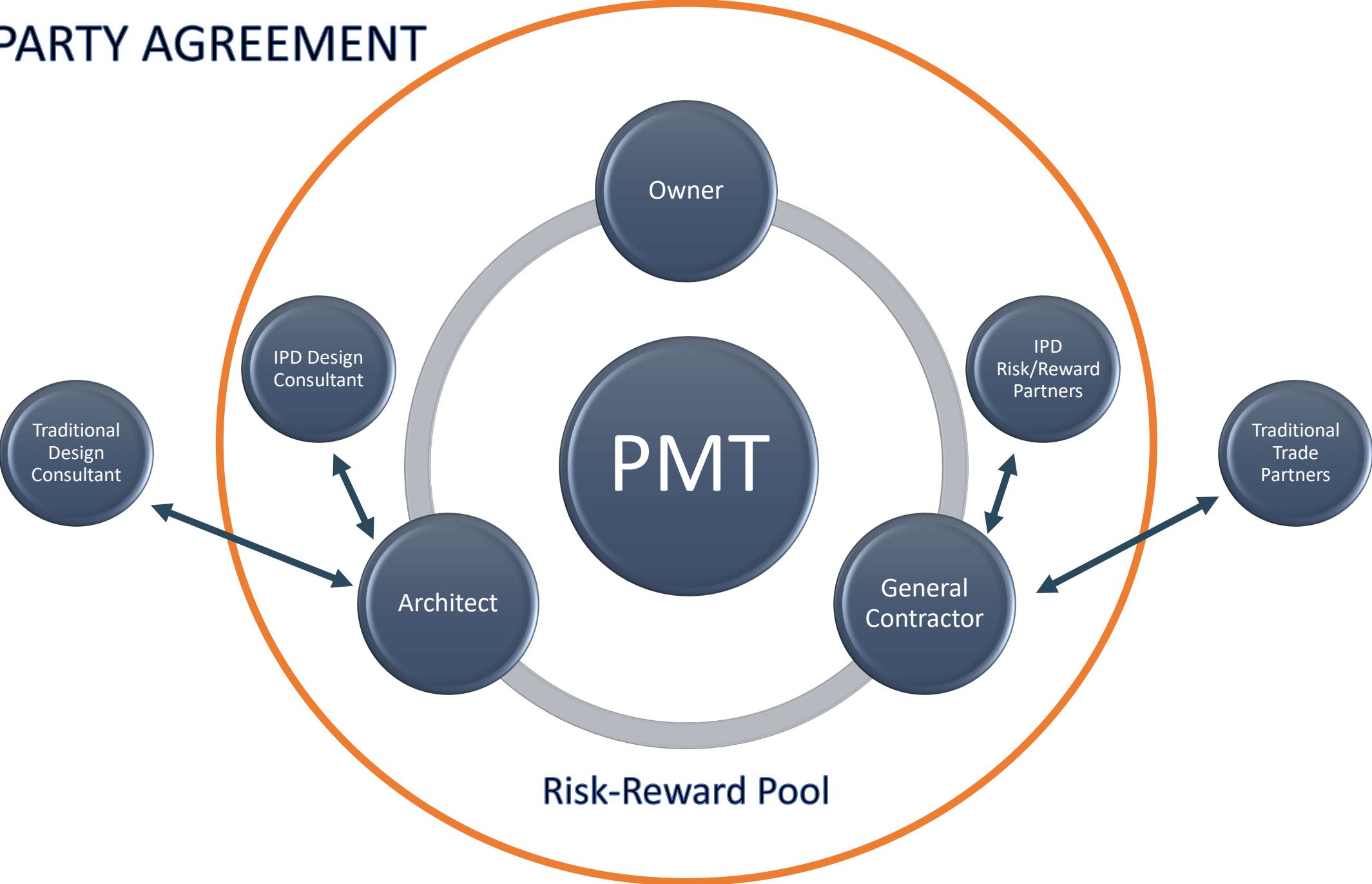
Project Management Team (PMT): Day-to-day project managers from each firm that is represented in the profit pool

*sometimes referred to as the Core Team

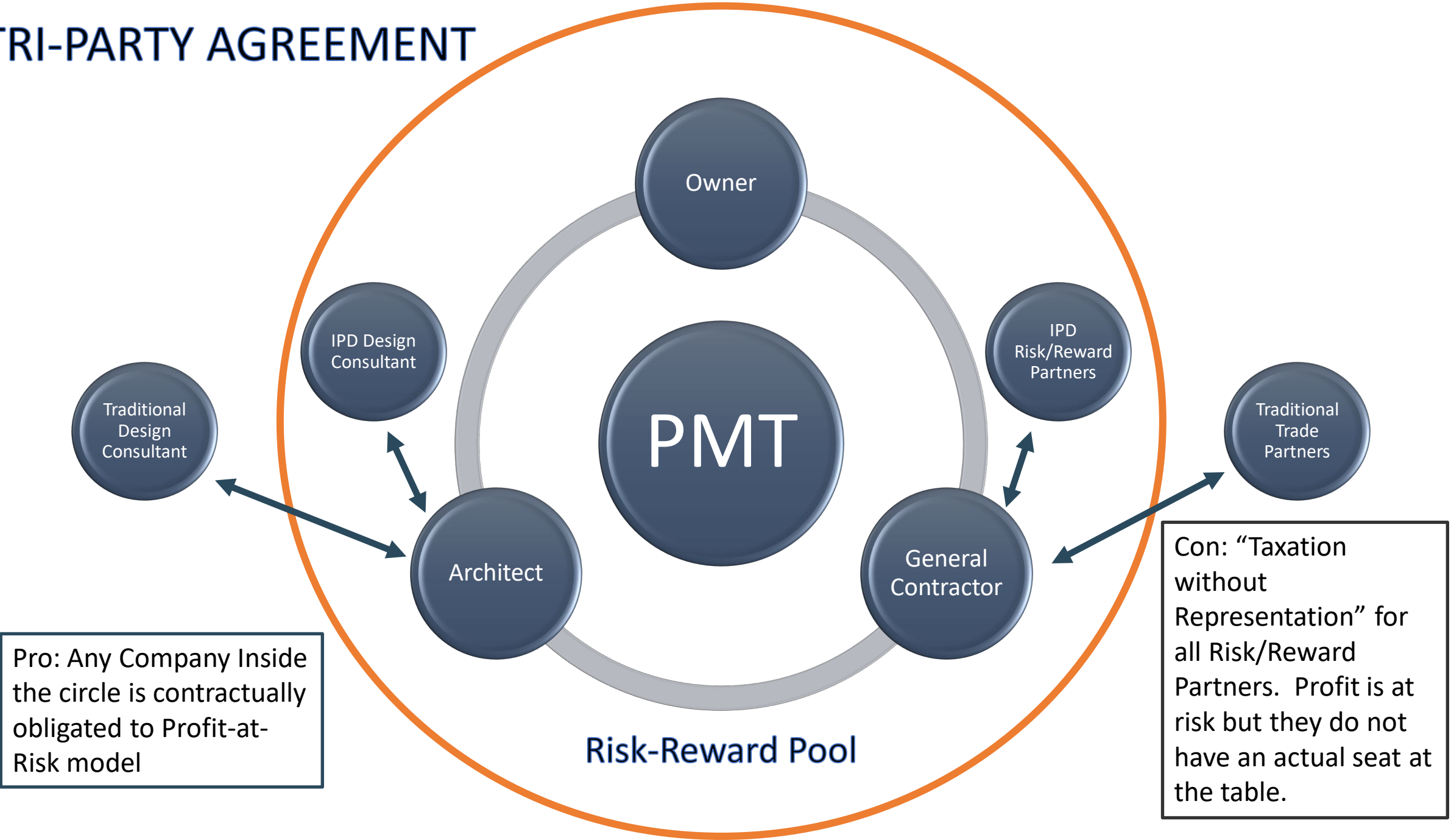
TRI-PARTY AGREEMENT



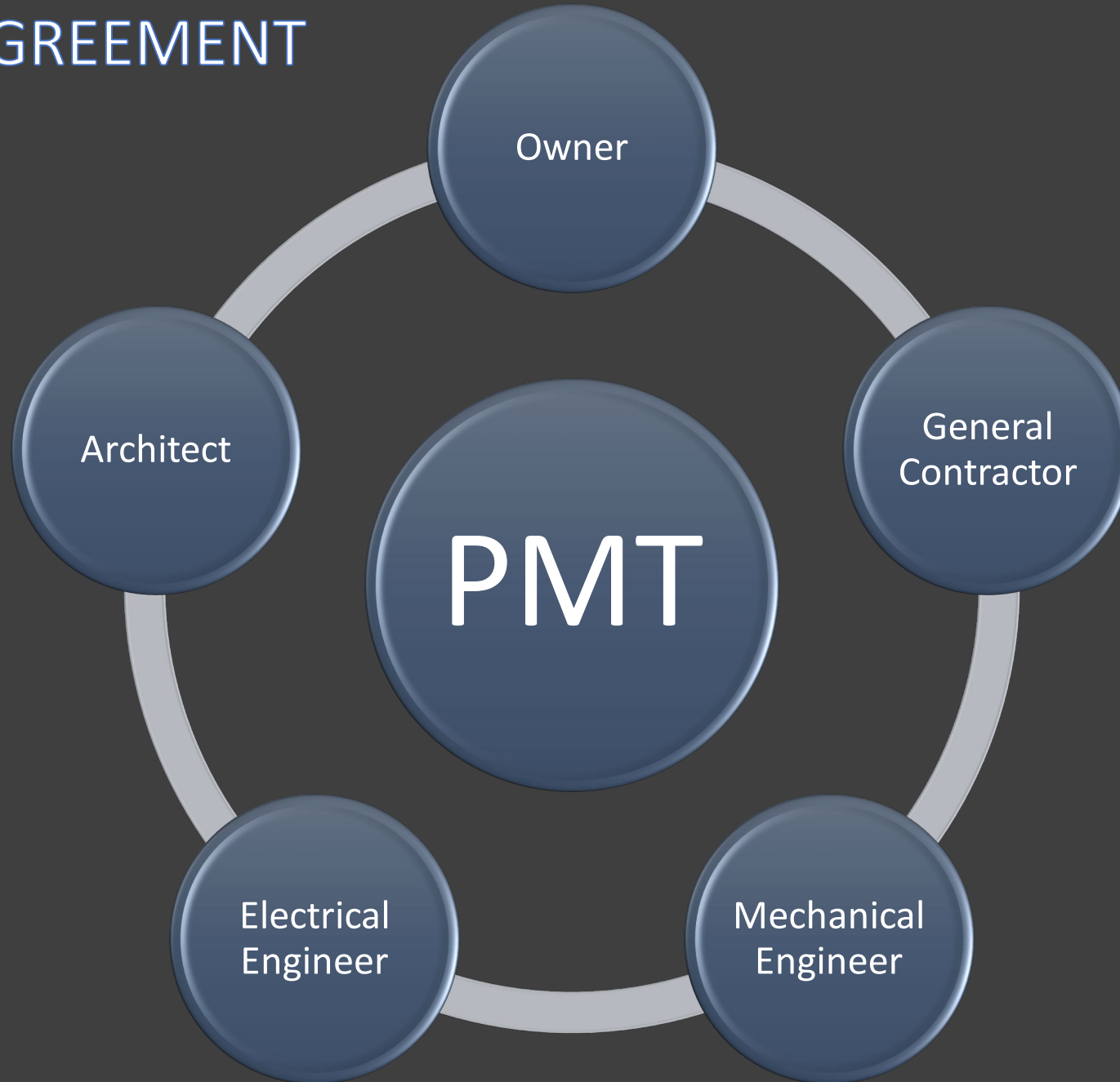
TRI-PARTY AGREEMENT



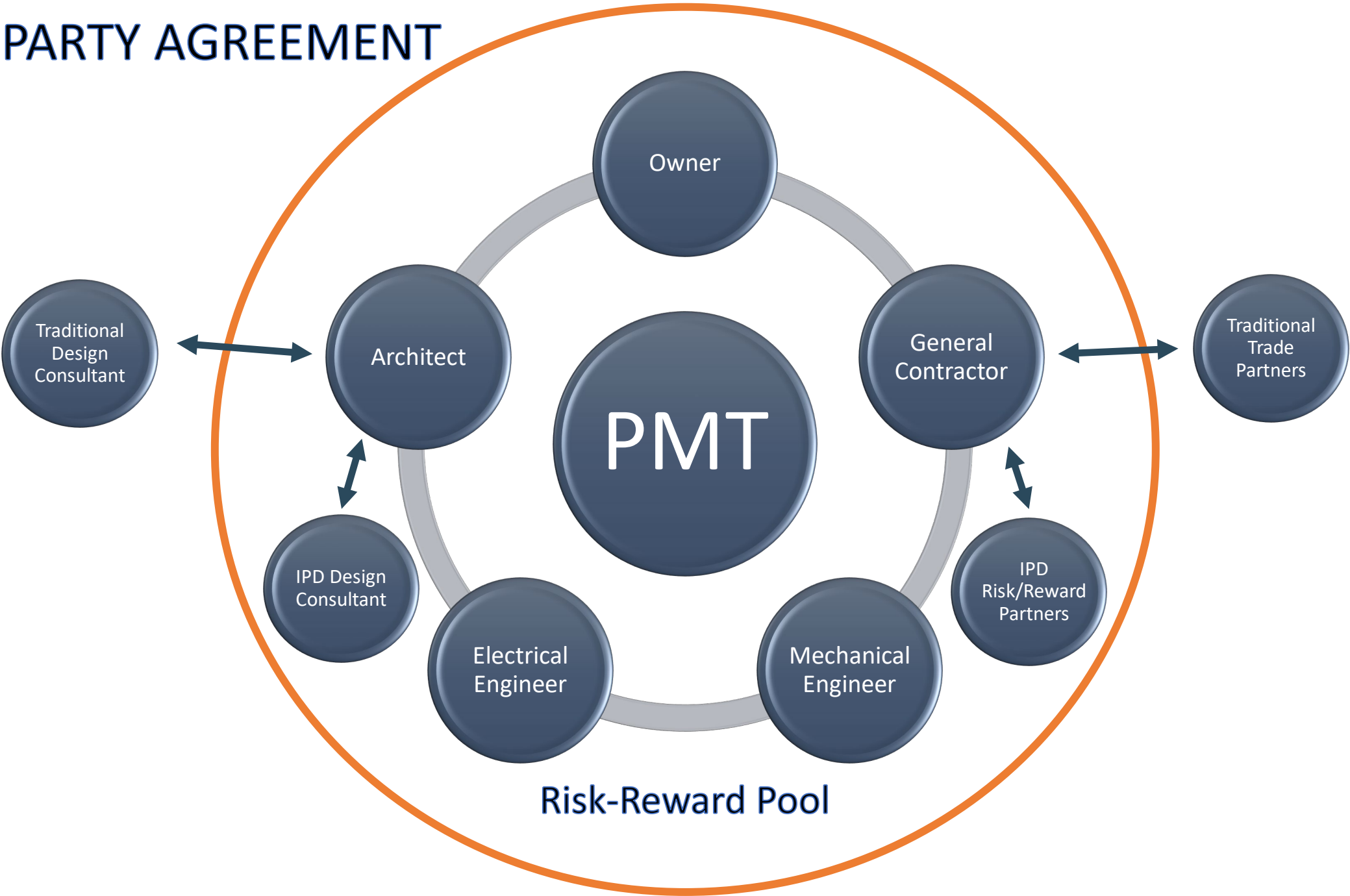
TRI-PARTY AGREEMENT



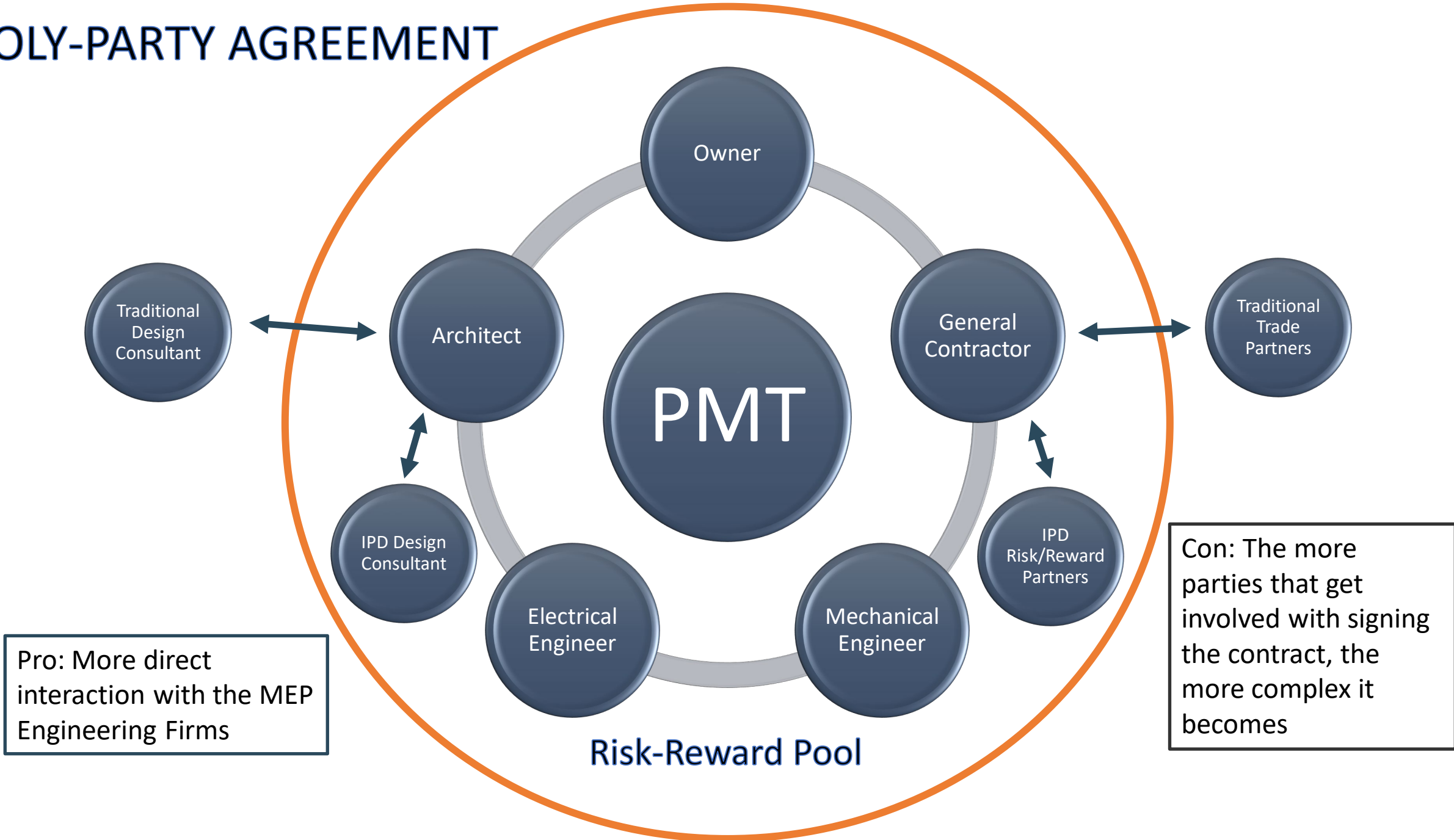
POLY-PARTY AGREEMENT



POLY-PARTY AGREEMENT



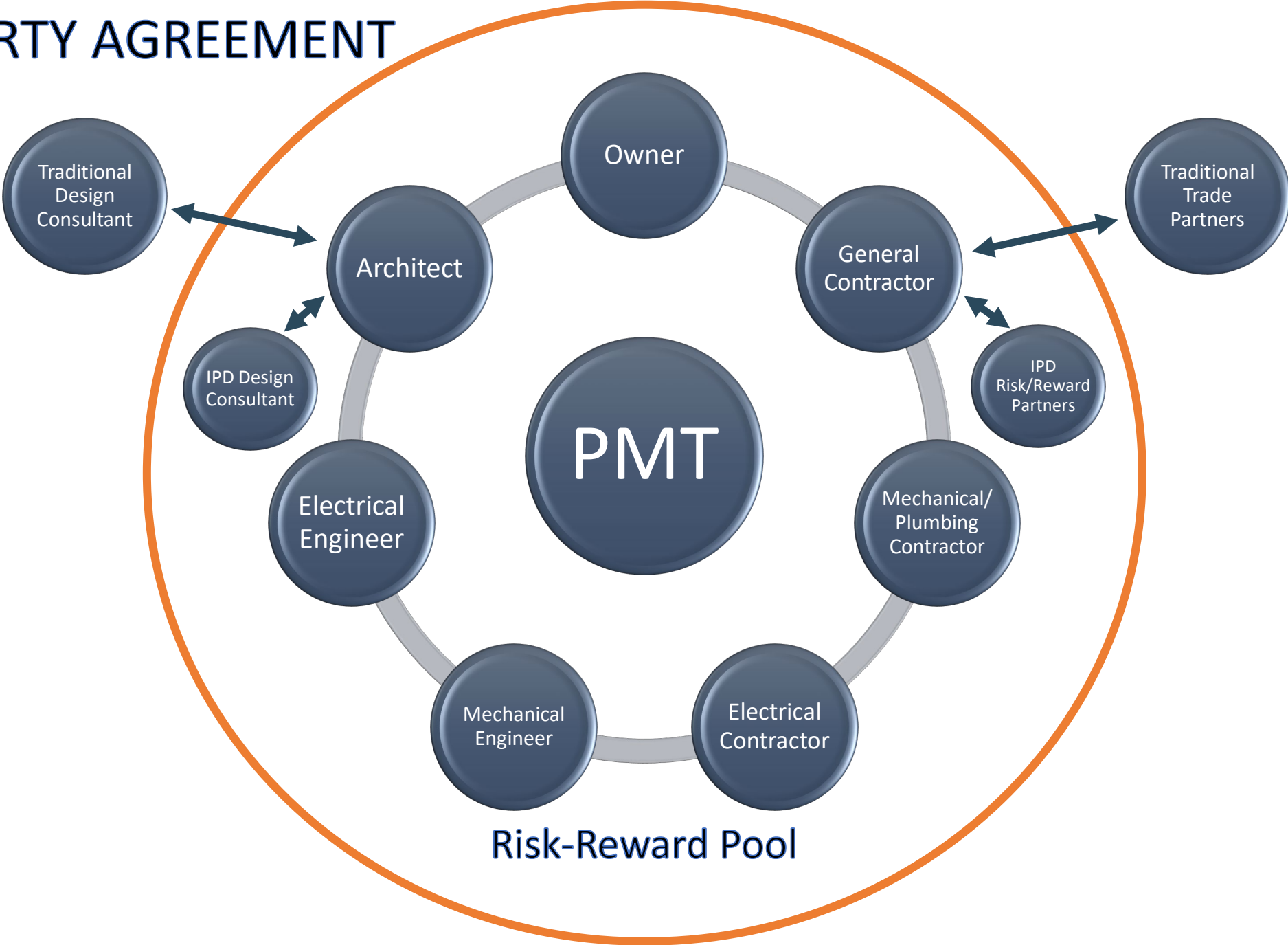
POLY-PARTY AGREEMENT



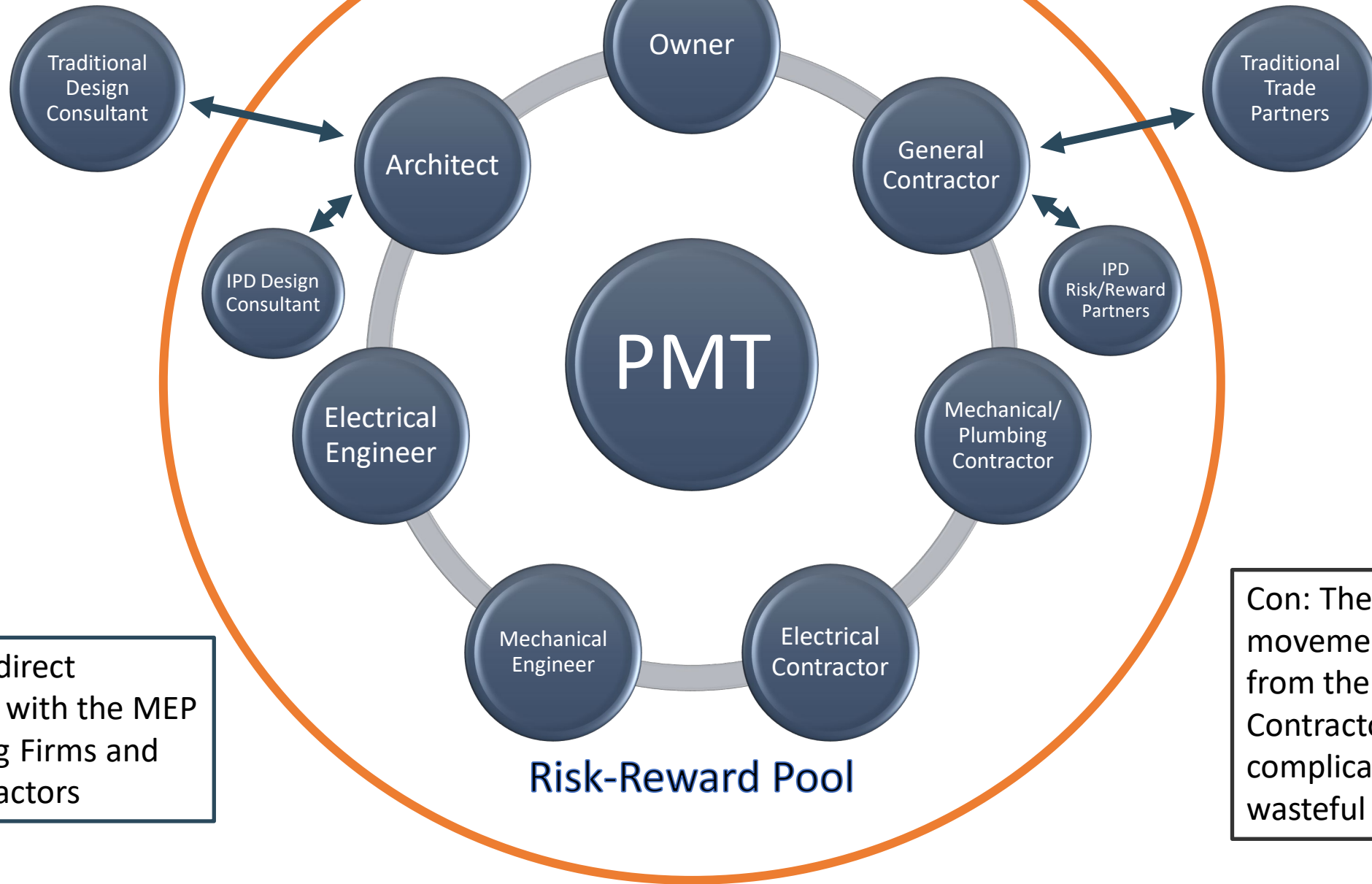
Pro: More direct interaction with the MEP Engineering Firms

Con: The more parties that get involved with signing the contract, the more complex it becomes

POLY-PARTY AGREEMENT

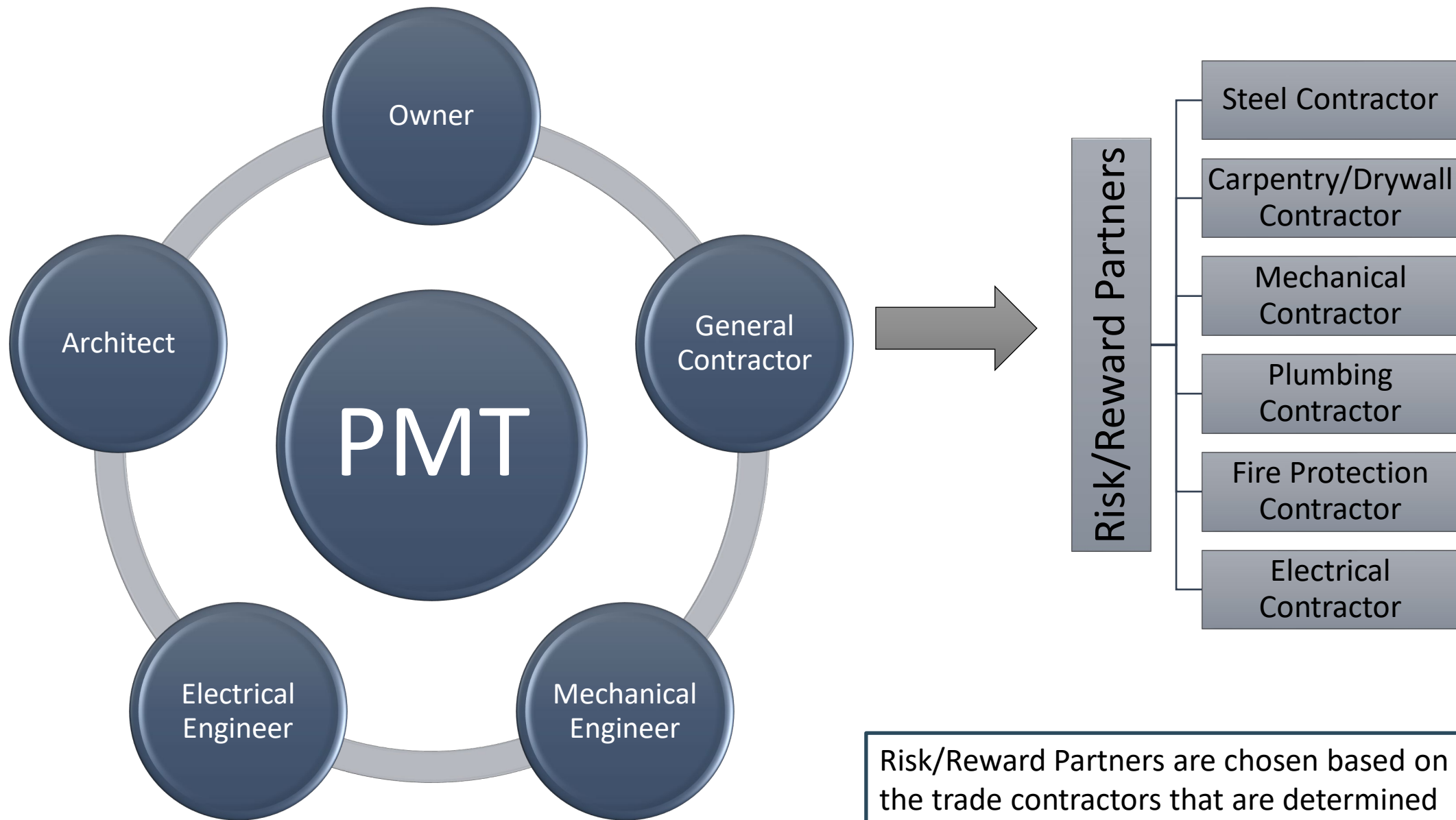


POLY-PARTY AGREEMENT



Pro: More direct interaction with the MEP Engineering Firms and MEP Contractors

Con: The potential movement of dollars from the GC to a MEP Contractor becomes complicated and wasteful



Risk/Reward Partners are chosen based on the trade contractors that are determined to bring the most risk mitigation to the team

Incentive Pool Calculations

EMP	
Architect	\$ 170,000
Mechanical Engineer	\$ 95,000
Electrical Engineer	\$ 60,000
General Contractor (w/Trade Partners)	\$ 9,750,000
IFOA Contingency	\$ 400,000
	\$ 10,475,000

INCENTIVE CALCULATIONS			
Shared Incentive \$371,000	R/R Members	Owner	
Final cost < Incentive			(R/R Members/Owner)
\$1 to \$100,000	\$ 35,000	\$ 65,000	(35% / 65%)
\$100,001 to \$200,000	\$ 50,000	\$ 50,000	(50% / 50%)
\$200,001 to \$500,000	\$ 111,150	\$ 59,850	(65% / 35%)
	\$ 196,150	\$ 174,850	Shared Incentive \$371,000
Contingency		\$ 400,000	
Total Incentive	\$ 196,150	\$ 574,850	

RISK/REWARD DISTRIBUTION				
R/R Members	Risk/Reward Amount	Risk/ Reward %	Added Profit Pool	Total R/R Profit
Architect	\$ 15,000	5.22%	\$ 10,234	\$ 25,234
Mechanical Engineer	\$ 9,500	3.30%	\$ 6,481	\$ 15,981
Electrical Engineer	\$ 6,000	2.09%	\$ 4,094	\$ 10,094
General Contractor	\$ 105,000	36.52%	\$ 71,637	\$ 176,637
Steel Trade Partner	\$ 30,000	10.43%	\$ 20,468	\$ 50,468
Carpentry Trade Partner	\$ 55,000	19.13%	\$ 37,524	\$ 92,524
Fire Protection Trade Partner	\$ 5,000	1.74%	\$ 3,411	\$ 8,411
Plumbing Trade Partner	\$ 12,500	4.35%	\$ 8,528	\$ 21,028
Mechanical Trade Partner	\$ 27,500	9.57%	\$ 18,762	\$ 46,262
Electrical Trade Partner	\$ 22,000	7.65%	\$ 15,010	\$ 37,010
	\$ 287,500	100.00%	\$ 196,150	\$ 483,650

EMP vs. FINAL COST ANALYSIS

EMP	\$ 10,475,000	(all costs + contingency)
ART	\$ 10,187,500	(EMP - Profit)
Incentive Threshold	\$ 9,787,500	(ART-contingency)
Final Cost	\$ 9,416,500	(actual costs)
Variance	\$ 371,000	(shared incentive)

EMP

Architect	\$	170,000
Mechanical Engineer	\$	95,000
Electrical Engineer	\$	60,000
General Contractor (w/Trade Partners)	\$	9,750,000
IFOA Contingency	\$	400,000
	\$	10,475,000

EMP vs. FINAL COST ANALYSIS

EMP	\$ 10,475,000	(all costs + contingency)
ART	\$ 10,187,500	(EMP - Profit)
Incentive Threshold	\$ 9,787,500	(ART-contingency)
Final Cost	\$ 9,416,500	(actual costs)
Variance	\$ 371,000	(shared incentive)

INCENTIVE CALCULATIONS

Shared Incentive \$371,000	R/R Members	Owner	
Final cost < Incentive			(R/R Members/Owner)
\$1 to \$100,000	\$ 35,000	\$ 65,000	(35% / 65%)
\$100,001 to \$200,000	\$ 50,000	\$ 50,000	(50% / 50%)
\$200,001 to \$500,000	\$ 111,150	\$ 59,850	(65% / 35%)
	\$ 196,150	\$ 174,850	Shared Incentive \$371,000
Contingency		\$ 400,000	
Total Incentive	\$ 196,150	\$ 574,850	

RISK/REWARD DISTRIBUTION

R/R Members	Risk/Reward Amount	Risk/ Reward %	Added Profit Pool	Total R/R Profit
Architect	\$ 15,000	5.22%	\$ 10,234	\$ 25,234
Mechanical Engineer	\$ 9,500	3.30%	\$ 6,481	\$ 15,981
Electrical Engineer	\$ 6,000	2.09%	\$ 4,094	\$ 10,094
General Contractor	\$ 105,000	36.52%	\$ 71,637	\$ 176,637
Steel Trade Partner	\$ 30,000	10.43%	\$ 20,468	\$ 50,468
Carpentry Trade Partner	\$ 55,000	19.13%	\$ 37,524	\$ 92,524
Fire Protection Trade Partner	\$ 5,000	1.74%	\$ 3,411	\$ 8,411
Plumbing Trade Partner	\$ 12,500	4.35%	\$ 8,528	\$ 21,028
Mechanical Trade Partner	\$ 27,500	9.57%	\$ 18,762	\$ 46,262
Electrical Trade Partner	\$ 22,000	7.65%	\$ 15,010	\$ 37,010
	\$ 287,500	100.00%	\$ 196,150	\$ 483,650

Risk/Reward Essentials



Labor Rates



Material Rates



Overhead
Percentage

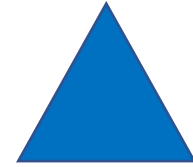


Profit Percentage





(What did we find was valuable?)



(What would we adjust for next time?)

WHAT'S
NEXT?





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