

# ENGINEERS ENGINEERING CONTRACTS

Not sure where to start with contracts for a new project? The American Society of Civil Engineers, the National Society of Professional Engineers (NSPE), and the American Council of Engineering Companies (ACEC) have a long-standing partnership to develop and publish sets of contract templates for designing and constructing different types of infrastructure projects. These documents are updated on a routine basis to reflect the latest project needs and industry knowledge.

These templates are an ideal starting point for public agencies at all levels, and can reduce potential redundancies or conflicts in construction contracts, and expeditiously move projects through the process. Access to these contracts is especially critical for smaller, rural, or disadvantaged communities, which may not have the resources or capacity to develop their own contracts. By using these standardized templates, communities across the country can save time and maximize resources as they deliver vital infrastructure projects.

CONTRACT DOCUMENTS	TYPE OF PROCUREMENT	PROJECT LIFECYCLE possible expansion of services						
		Scoping/ Funding	Preliminary Design	Final Design	Construction	Commissioning	Operations & Maintenance	Decommissioning
Engineering Joint Contract	Standard Design,	PROGRAM MANAGEMENT						
Documents (EJCDC)	Bid, Build						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
American Council of			E-SERIES DOCUMENTS - DESIGN				<u> </u>	
Engineering Companies (ACEC)				P-SERIES DOCS				
American Society of Civil Engineers (ASCE)	Alternative Delivery							
					C SERIES DOC	UMENTS		
National Society of			CMa-SERIES D	OCUMENTS			///////////////////////////////////////	
Professional Engineers (NSPE)							///////////////////////////////////////	///////////////////////////////////////
		D-SERIES DOC	UMENTS				<i>/////////////////////////////////////</i>	
CONSENSUS DOCUMENTS	Standard Design, Bid, Build			D-SERIES DOC	UMENTS		///////////////////////////////////////	
American Institute of	Alternative Delivery		CMAR-SERIES DOCUMENTS					
Architect (AIA)	,							
DBIA Contracts Design Build Institue of America (DBIA)	Alternative Delivery			D-SERIES DOC	UMENTS		possible expansion of services	

# COMMON PROJECT DELIVERY METHODS



**DESIGN - BID - BUILD** 



OWNER



EQUIPMENT SUPPLIER



GENERAL CONTRACTOR



ENGINEER



**CONSTRUCTION MANAGER AT RISK** 



**OWNER** 



CONSTRUCTION MANAGER



ENGINEER



EQUIPMENT SUPPLIER



**DESIGN — BUILD** 



**OWNER** 



**DESIGN-BUILDER** 







思

GENERAL DESIGNER SUPPLIERS EQUIPMEN CONTRACTOR SUPPLIER



SUBCONTRACTORS

## ONTRA

管





SUBCONTRACTORS SUPPLIERS

SUBCONTRACTORS SUPPLIERS

## PROJECT DELIVERY METHOD



DESIGN - BID - BUILD



CONSTRUCTION MANAGER AT RISK



**DESIGN - BUILD** 

#### **PROS**

- Price competition to select Construction Contractor
- Owner maintains control of design, design team direct agent for the Owner
- Most widely used for public sector projects
- Contractor selection based on qualifications
- Collaboration between design and construction teams resulting in fewer changes and claims
- Faster project delivery
- Single point of responsibility
- Price competition to select Design-Builder
- Collaboration between design and construction teams resulting in fewer changes and claims
- Faster project delivery

### **CONS**

- Owner retains project risks
- Contractor selection based on price may not be the most qualified to perform the work
- Procurement regulations can limit use in some areas
- Upfront costs may be higher than design-bid-build
- Can have moderately higher administration costs
- Procurement regulations can limit use in some areas
- Design team may not be the owner's direct agent
- Owner may lose some control if bridging documents do not clearly define objectives and quality

