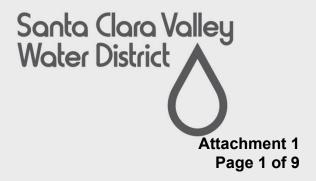
*Handout 5.1-A - Revised Attachment 1: Powerpoint

Design-Build Project Delivery Method Overview

Board Meeting February 26, 2019



Presentation Outline

- 1. Design-Build (DB) Definition and Background
- 2. Contracting Relationship: Design-Bid-Build (DBB) vs. DB
- 3. Key Differences: DBB vs. DB
- 4. Drivers for using DB
- 5. Proposed Projects for DB Delivery Method
- 6. Project Delivery Process Chart



Design-Build Definition and Background

Design-Build

> The design and construction services are contracted to a single entity

Benefits

- One contract to cover both design and construction
- Single point of responsibility and accountability

District Authorization

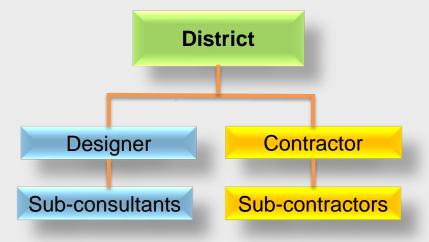
Public Contract Code Section 22162.5



Contracting Relationship: DBB vs. DB

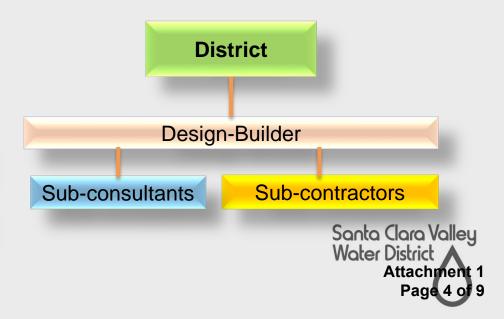
<u>Design-Bid-Build</u>

- Three prime players:
 - District, Designer,
 Contractor
- Two separate contracts
 - District to Designer
 - District to Contractor



Design-Build

- <u>Two</u> prime players:
 - District, Design-Builder
- One contract
 - District to Design-Builder



Key Differences: DBB vs. DB

Topic	Design-Bid-Build	Design-Build
Number of contracts	 Designer Contractor 	One contract (single point accountability)
Project award	Low bid	Best value or low bid, owner decides
Contract	Prescriptive	Performance-based
Work phasing	Design must be fully complete before construction begins	Design and construction can overlap
Price certainty	No builder estimates of construction cost during design; Lowest bid plus change orders	Early knowledge of construction cost; Guaranteed Maximum Price plus change orders



Potential for Changes

- Typical change orders could result from:
 - Owner-directed changes in scope or requirements (e.g. District-established constraints such as plant or process shutdowns)
 - Requirements imposed by third parties (e.g. permitting agencies, regulators, utility companies)
 - Unforeseen site conditions
- Design-Build: Fewer change orders related to design/construction disconnects (e.g. constructability and coordination issues) are expected.



Drivers for Using Design-Build

- Single-point accountability
- Builder is involved in design process
- Designer-Builder collaboration can result in better quality
- Potential for innovation
- Speed of delivery (potential time and cost savings)
- Price certainty
- Lower costs (based on industry-wide experience)



Proposed Projects for DB Delivery Method

Staff Recommends using DB for:

- 1. Coyote Pumping Plant Adjustable Speed Drive Replacement (\$17M)
- 2. Vasona Pumping Plant Upgrades (\$25M)

Why?

- Take advantage of legislative authorization
- Potential for time and cost savings
- Improve project coordination
- Gain experience beginning with smaller projects



Project Delivery Process Chart - DB

