



Mills Electrical Upgrades

Engineering & Operations Committee

Item 8-4

August 14, 2017

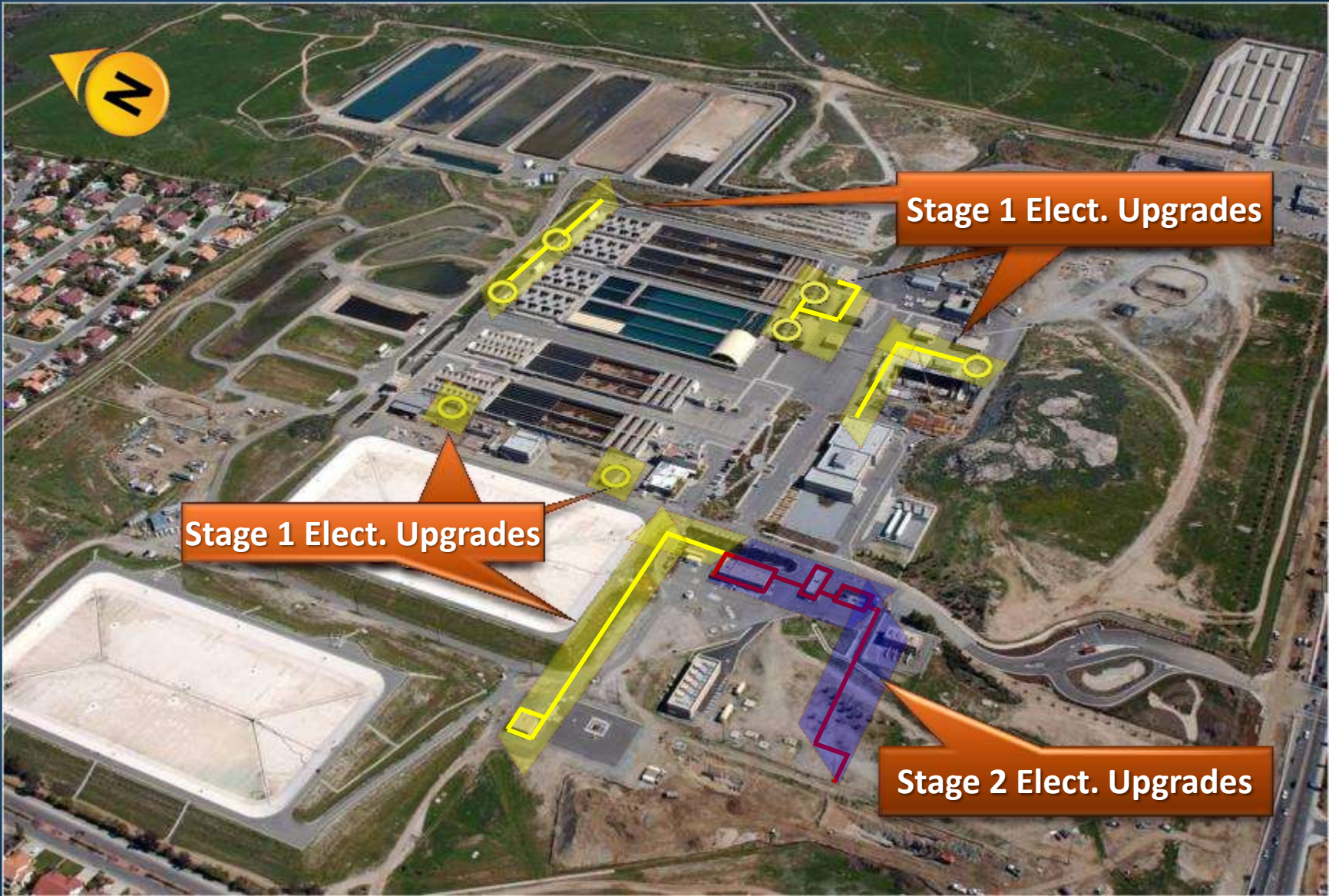
Current Action

- Appropriate \$5,600,000
- Award \$3,097,927 contract to Stronghold Engineering, Inc. for Stage 1 electrical upgrades at the Mills plant
- Authorize increase of \$374,000 to an agreement with Lee & Ro, Inc., for new not-to-exceed total of \$1,097,000

Distribution System



Mills Plant



Electrical Upgrades

● Background

- Aging eqpt. difficult to maintain & repair
- Old circuit breakers with arc flash potential
- Critical plant processes vulnerable to shutdown caused by single point of failure



Return of Breaker to Service

Electrical Upgrades

- Objectives
 - Improve reliability & safety
 - Replace aging eqpt.
 - Provide backup systems



Space for Future UPC

UPC-9

Scope of Work

● Contractor

- Replacement of circuit breakers
- Redistribution of power feed to chemical feed systems, washwater return pumps & potable water pumps
- Installation of new electrical conduits, ductbank & Unit Power Center

● Metropolitan Forces

- Integration with SCADA system
- Relocation of pump controllers
- Shutdown, start-up, testing & switchover
- Installation of temporary electrical systems

Construction Support Activities

- Metropolitan
 - Field inspection
 - Contract administration
- Lee & Ro, Inc.
 - Review submittals, respond to RFIs & prepare record drwgs
 - 100% SBE participation
 - Estimated cost: \$374,000

Bid Results

Specifications No. 1793

Bids Received	June 13, 2017
No. of Bidders	3*
2 nd Low Bidder	Stronghold Engineering, Inc.
2 nd Low Bid	\$3,097,927
Other Bid	\$3,732,753
Engineer's Estimate	\$3,700,000
SBE participation **	25%

* Low bidder did not meet experience reqmts.

** SBE (Small Business Enterprise) participation level set at 25%

Requested Funds

Construction Contract	\$ 3,097,927
Labor	
Met. force construction	829,000
Const. inspection	481,000
Permitting & PM	156,000
Submittals review & record drwgs.	160,000
Professional Services	
Lee & Ro, Inc.	374,000
Materials	85,000
Remaining Budget	417,073
Total	\$ 5,600,000

Total construction cost: \$4 M

Schedule



Board Options

● Option #1

- Adopt CEQA determination that the proposed action was addressed previously in the 2010 categorical exemption, & that no further envir. analysis or documentation is required
- Appropriate \$5,600,000
- Award \$3,097,927 contract to Stronghold Engineering, Inc. for Stage 1 electrical upgrades at the Mills plant
- Authorize increase of \$374,000 to agreement with Lee & Ro, Inc., for new NTE total of \$1,097,000

● Option #2

- Do not proceed with the electrical upgrades at this time

Staff Recommendation

- Option #1

