

ACCELERATED Bridge Construction

Methods and phasing techniques used to implement ABC technologies across Arizona.

WHY ABC?

ABC technologies use methods that reduce onsite construction time and reduce impacts to the traveling public. There are currently three Accelerated Bridge Construction (ABC) technologies being promoted under the FHWA's EDC-2 Accelerated Bridge.

- Prefabricated Bridge Elements and Systems (PBES)
- Slide-In Bridge Construction (SIBC)
- Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)



Since 2015, FNF has utilized our skill and knowledge in bridge construction expertise to implement all three ABC technologies on six separate projects across the state of Arizona.

OUR ABC PROJECTS:



SACATON ROAD BRIDGE

Year: 2015 Location: Sacaton, AZ



Year: 2019 Location: Meteor City, AZ



I-40 A-1 MOUNTAIN

Year: 2022 Location: Flagstaff, AZ



I-40 4TH STREET

Year: 2020 Location: Flagstaff, AZ



SR 79 GILA RIVER

Year: 2022 Location: Florence, AZ



B40 RIO DE FLAG

Year: 2021 Location: Flagstaff, AZ

SACATON RD. OVER THE GILA RIVER



constructed and slid into place



of closures using ABC methods to construct roadway approaches

2

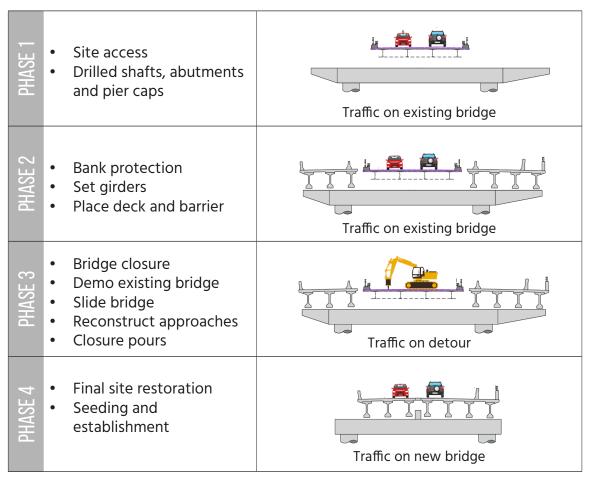


approximated for traffic control closures using traditional construction methods

PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS:

Spring 2015 Gila River Indian Community DOT AZTEC Construction Manager/ General Contractor (CMGC) SIBC 141'









I-40 METEOR CITY TI





of closures using ABC methods



approximated for traffic control closures using traditional construction methods

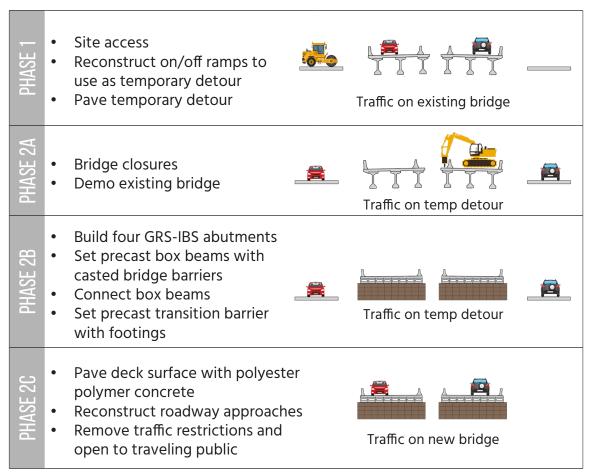
PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS:

Summer 2019 ADOT ADOT Design-Bid-Build GRS-IBS & PBES 2 at 71'

2 each single spans











I-40 4TH STREET



constructed and slid into place



of closures using ABC methods



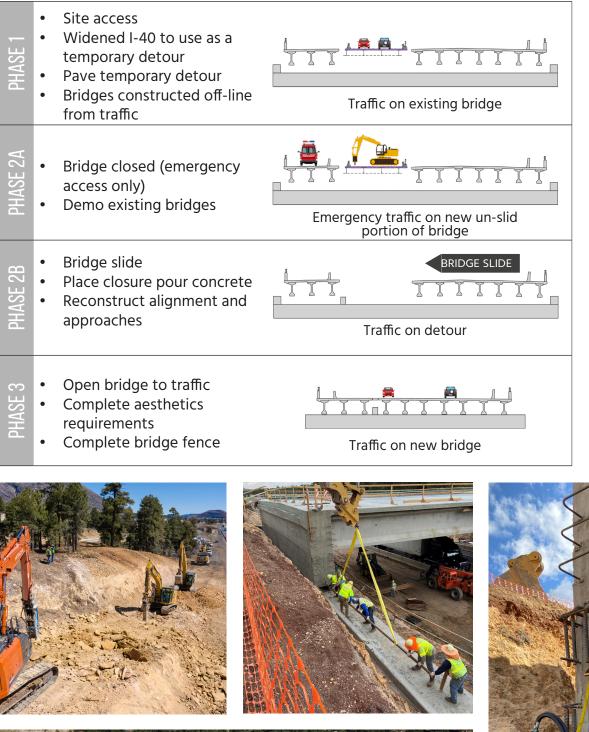
approximated for traffic control closures using traditional construction methods

PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS: Summer 2020 ADOT AECOM Design-Bid-Build SIBC 2 at 134'

2 each single spans









BUSINESS ROUTE 40 OVER RIO DE FLAG





of closures using ABC methods

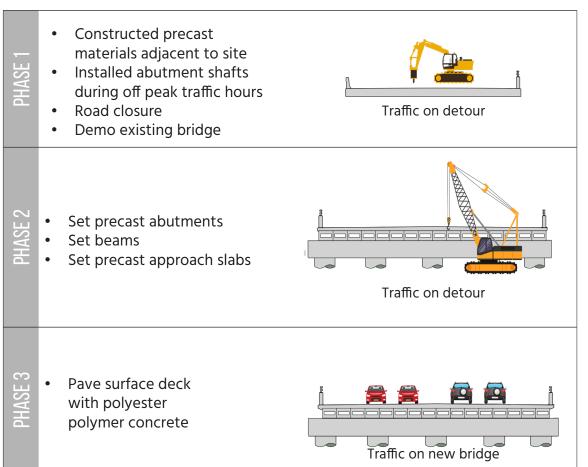


approximated for traffic control closures using traditional construction methods

PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS:

Summer 2021 ADOT NFra, Inc. Design-Bid-Build PBES 53' Long x 94' Wide









I-40 A-1 MOUNTAIN





of closures using ABC methods



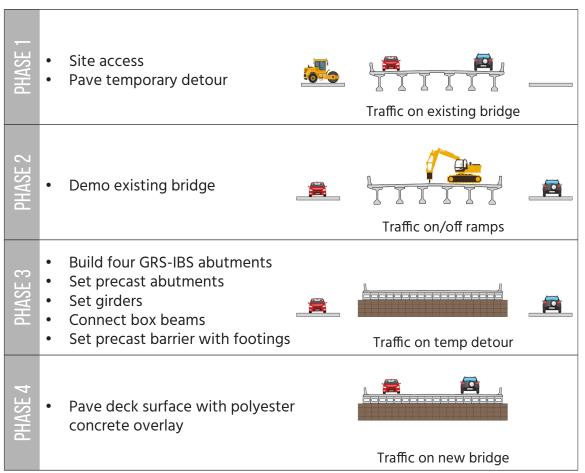
approximated for traffic control closures using traditional construction methods

PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS:

Spring 2022 ADOT ADOT Design-Bid-Build GRS-IBS & PBES 2 at 113' 2 each single spans













SR 79 GILA RIVER





of closures using ABC methods (2 weekends w/ a single lane of traffic during bridge slides) 340 DAYS

approximated for traffic control closures using traditional construction methods

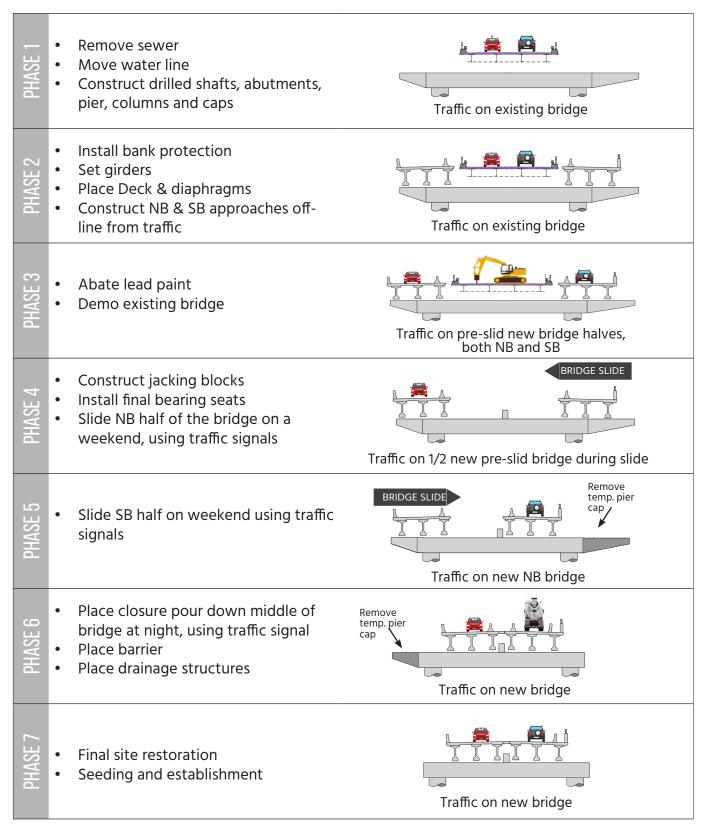
PROJECT SPECIFICS:

DATES: CUSTOMER: DESIGNER: PROJECT DELIVERY METHOD: ABC METHODS USED: BRIDGE LENGTH: BRIDGE SPANS: June 2022 to March 2023 (Projected) ADOT AECOM Construction Manager At Risk (CMAR) SIBC 1416'

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PROJECT PHASING: (NO FULL CLOSURES)



This is the way every project should operate

Roger Surdahl, P.E. Speaking to the ABC Sacaton Bridge Project Technology and Innovation Specialist Federal Highway Administration Office of Federal Lands Highway

THANK YOU.

If you need any more information, please contact us.



GET IN TOUCH



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