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Tony F. Shkurti, PhD, SE, PE











PROJECT FACTS

18 MILES LONG



30,000
PEDESTRIANS DAILY (SUMMER)





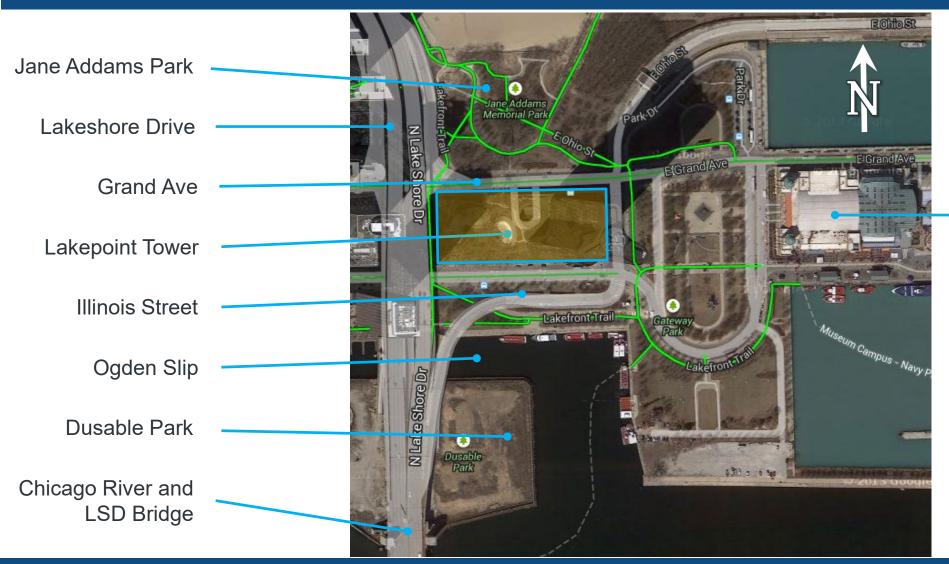








EXISTING LAKEFRONT TRAIL



Navy Pier







EXISTING CONDITIONS





















EXISTING DUSABLE PARK









EXISTING PEDESTRIAN RAMP









EXISTING PATH TRAIL

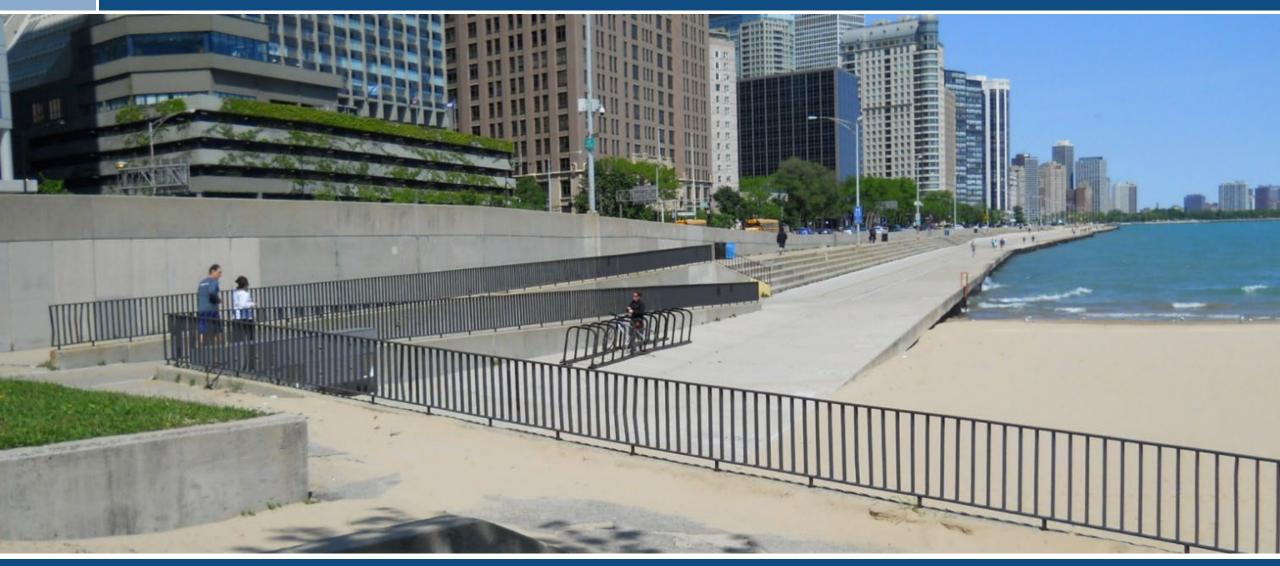








EXISTING NORTH END OF PEDESTRIAN TRAIL

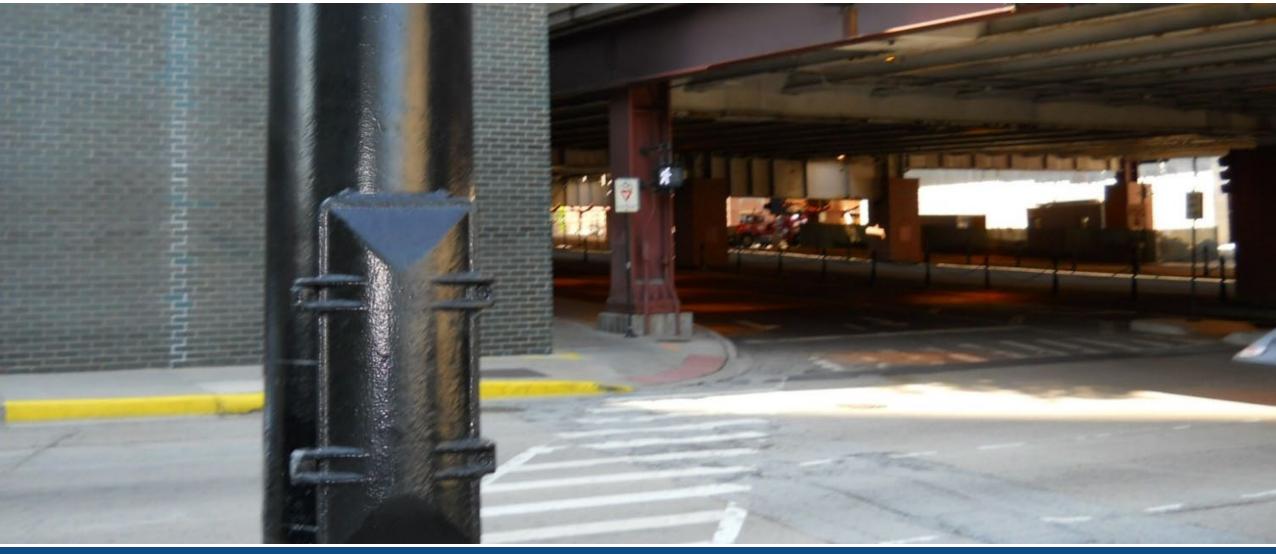








EXISTING SHARED CROSS POINTS









PROPOSED SOLUTION



















PROJECT AERIAL & NEW PATH ALIGNMENT



General Plan & Aerial

NAVY PIER FLYOVER - LAKEFRONT TRAIL IMPROVEMENT

CDOT # E-0-534 - SECTION # 00-E0534-00-BR



PROJECT NAME		BRIDGE CONDITION REPORT	ENVIRONMENTAL	PROJECT DEVELOPMENT REPORT
	1. OVER THE CHICAGO RIVER	NEW BCR FOR 016-6030	ESR 9898B	NEW STAND ALONE PDR
	2. OVER OGDEN SLIP AND DUSABLE PARK	ADDENDUM II FOR 016-6103 & 016-6104	ESR 9898C	ADDENDUM II TO ORIGINAL
	3. FROM NORTH OGDEN SLIP TO JANE ADDAMS PARK	ADDENDUM FOR 016-6105 & 016-6106	ECOCAT	ADDENDUM I TO ORIGINAL











Structural Concept History

PHASE 1 – DESIGN

ARCHITECTURAL FEATURES

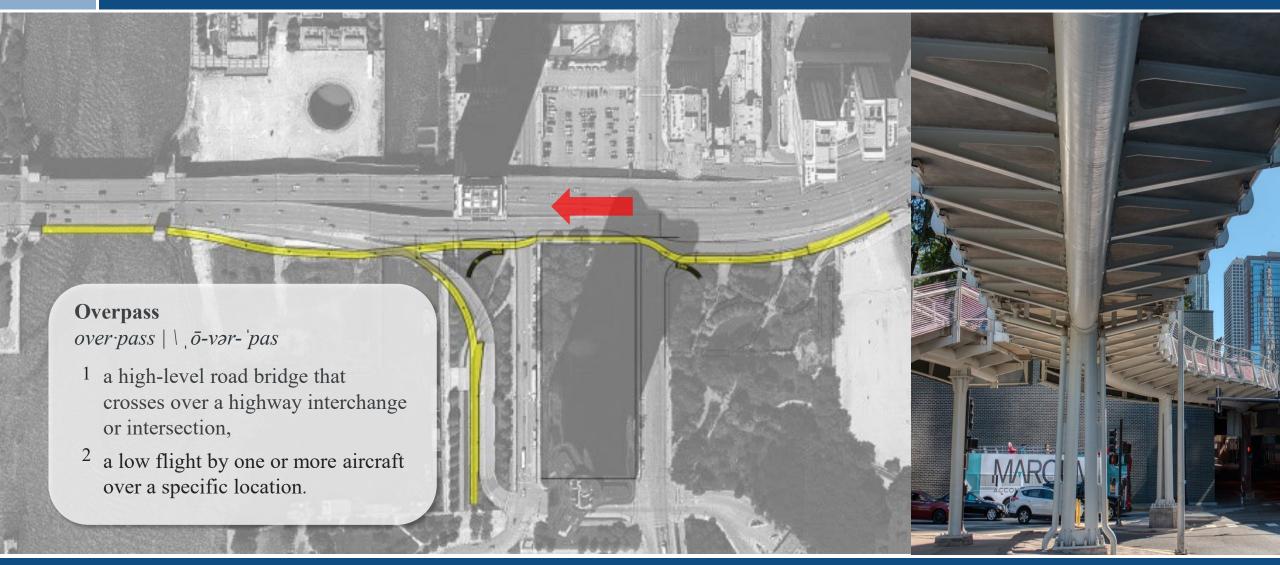
FINAL WINNING CONCEPT WE HAVE TODAY







THE FLYOVER - WHAT IS IT?

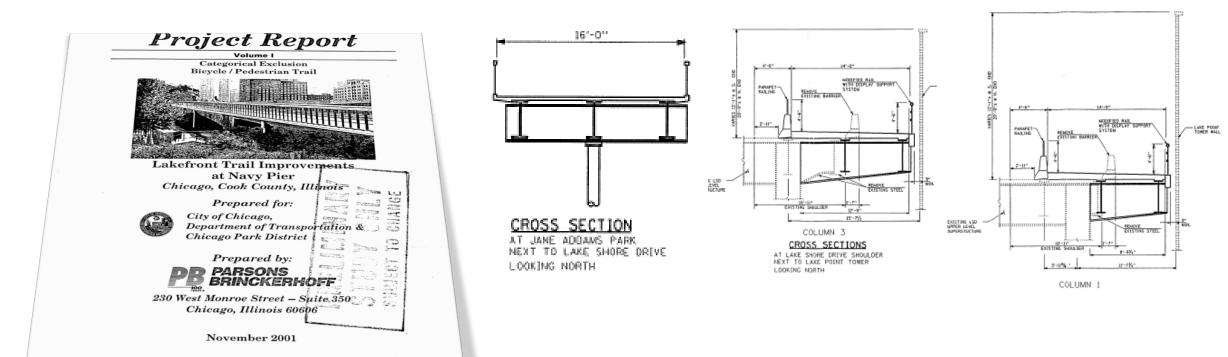








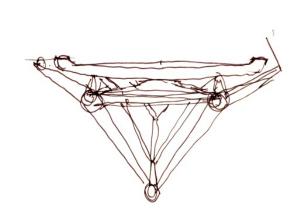
From Phase I









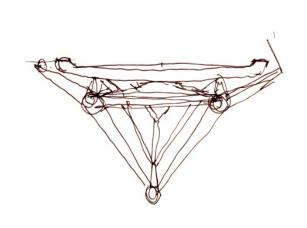




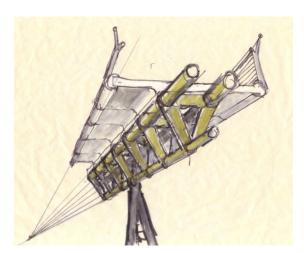








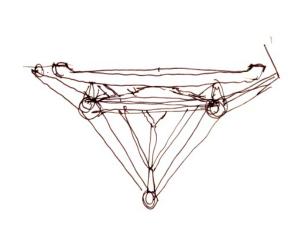




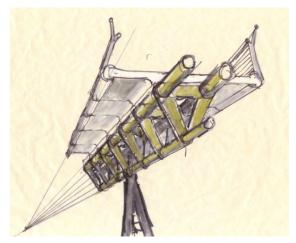


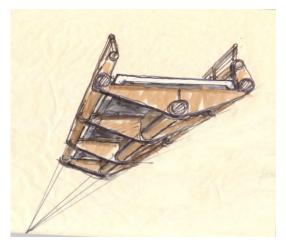


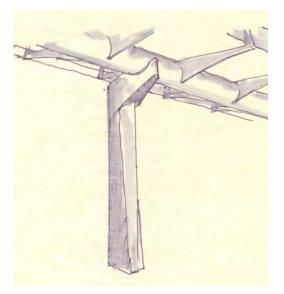


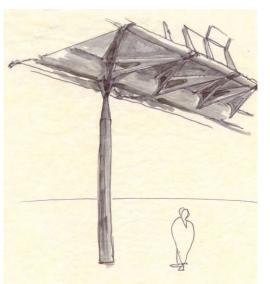




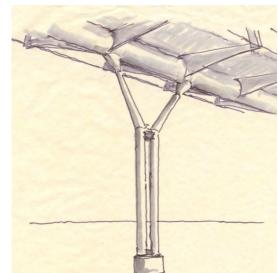








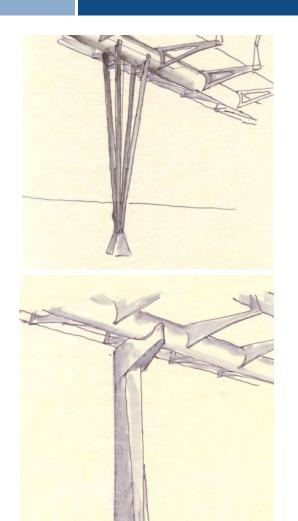


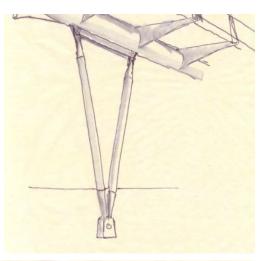


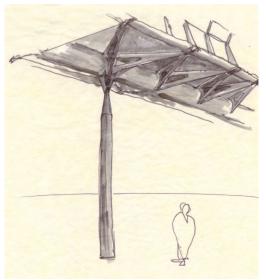








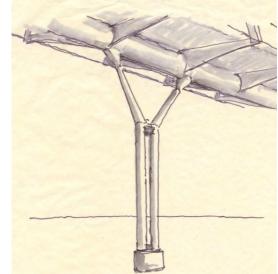








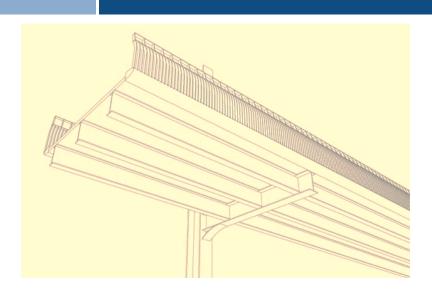


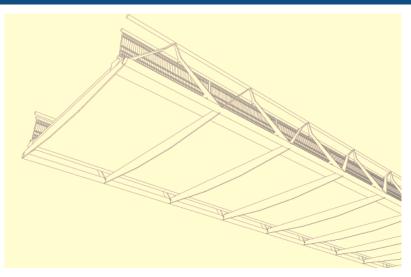


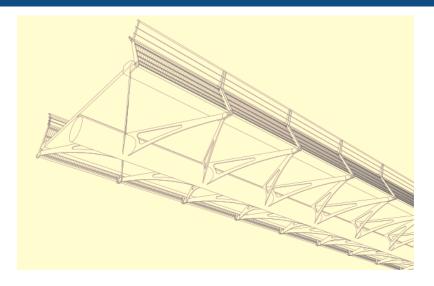








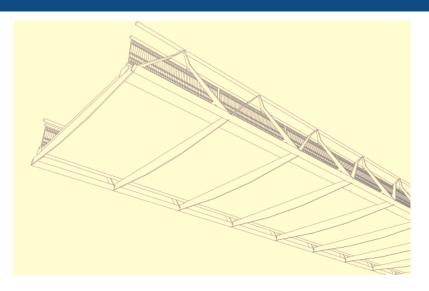


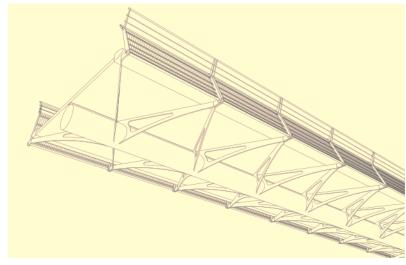


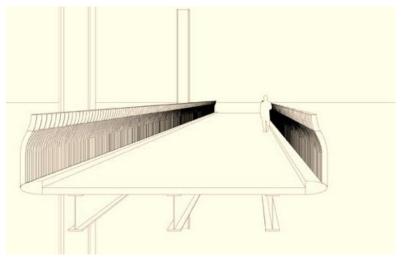


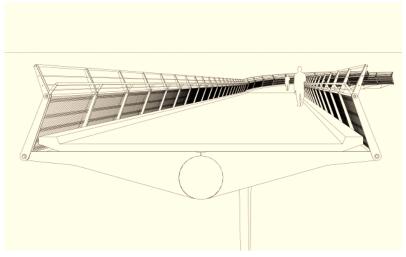


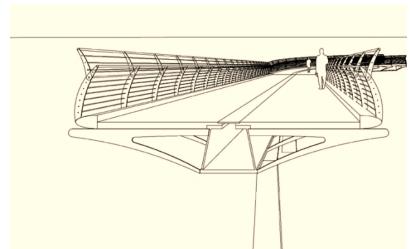












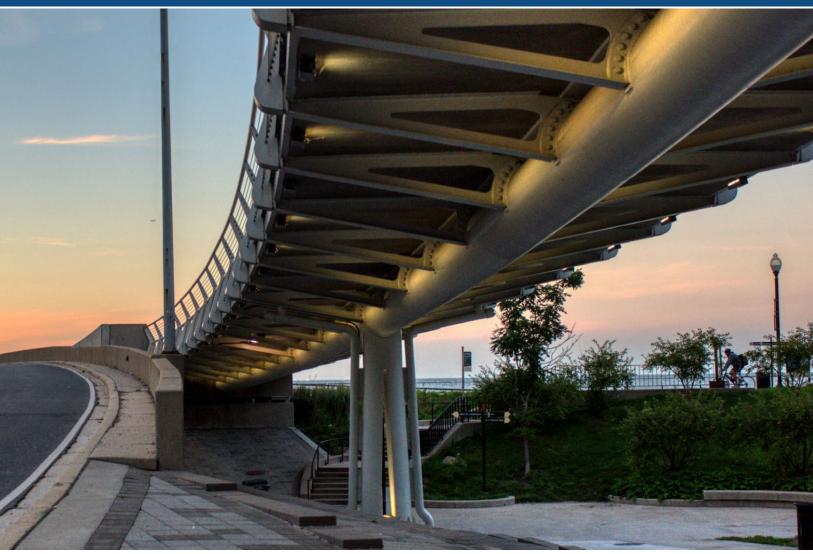






THE PIPE DOES IT ALL











DESIGN CRITERIA

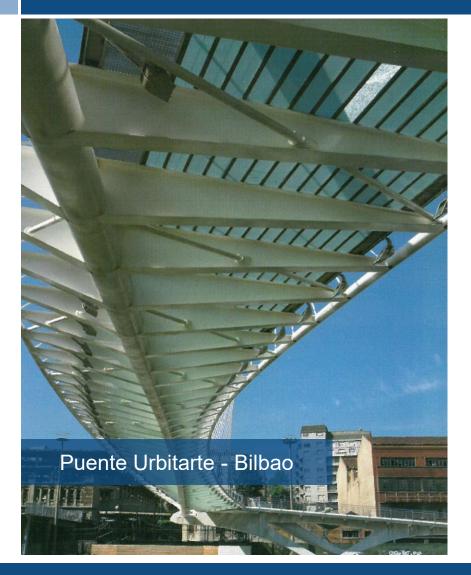
- LFD design approach
- AASHTO Guide Specifications for the Design of Pedestrian Bridges
- Pedestrian Live Load 100 psf
- AASHTO H10 Maintenance Vehicle
- Serviceability: Vibration US and British Codes

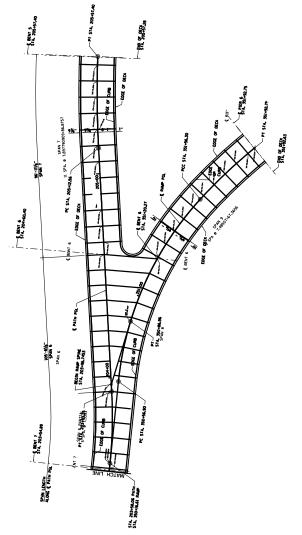


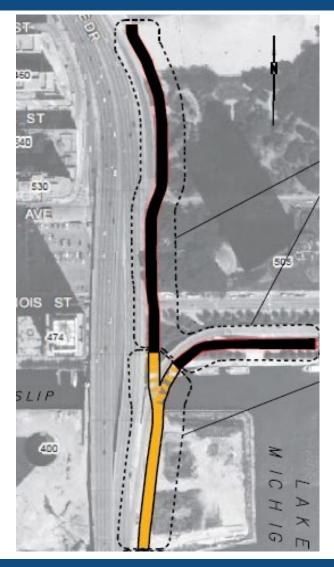




PRELIMINARY DESIGN - SERPENTINE FRAMING PLAN





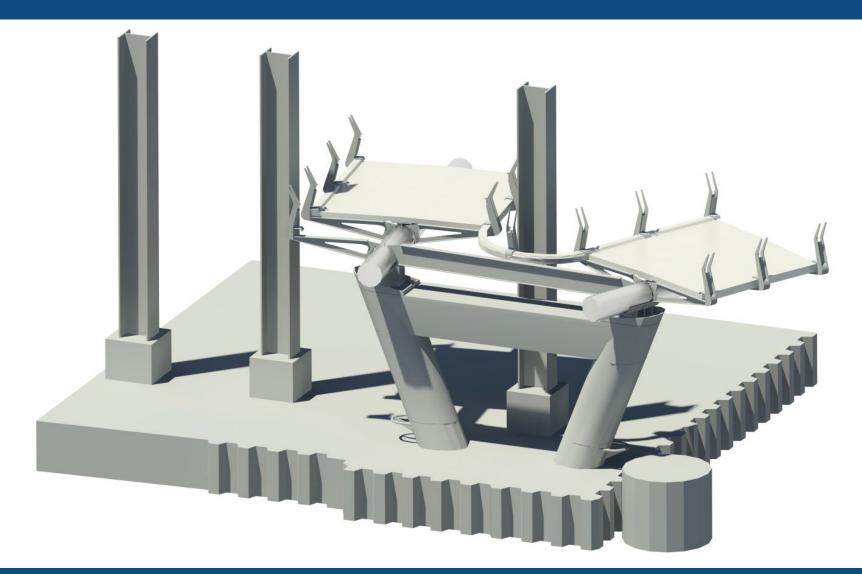








BIFURCATION

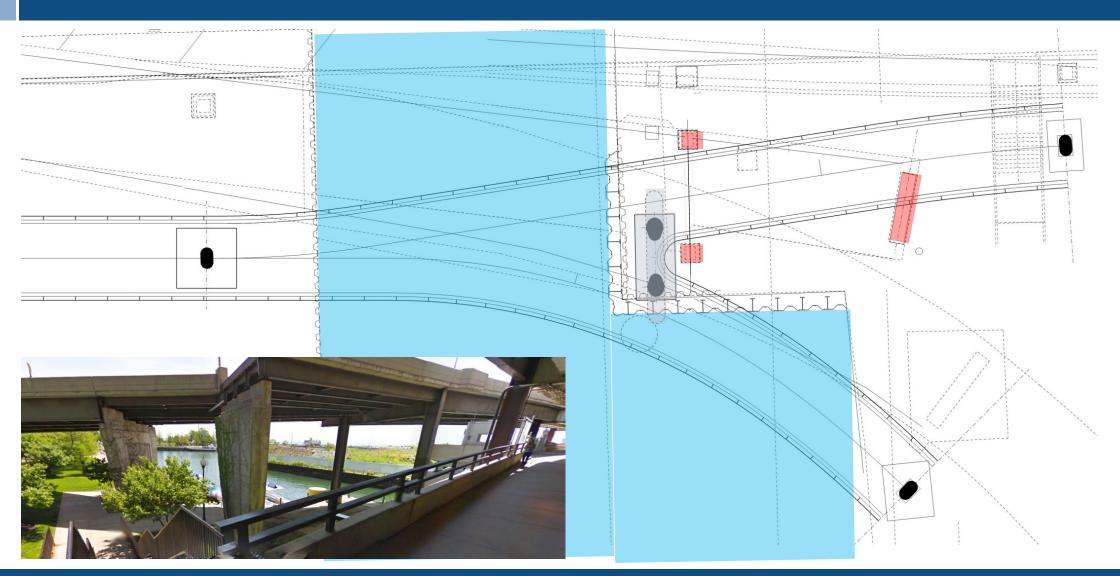








BIFURCATION & OGDEN SLIP CROSSING



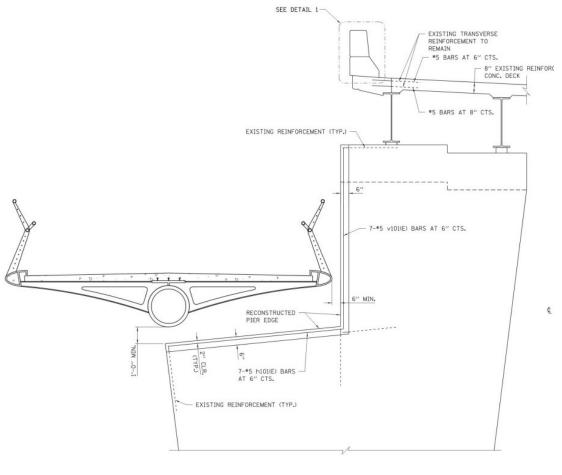






PIER REMOVAL





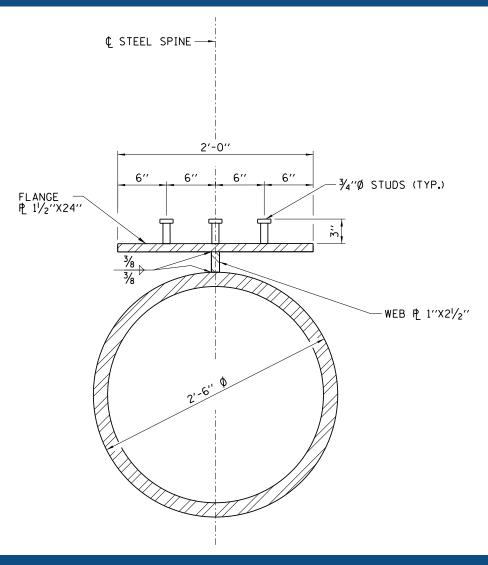
EXISTING PIER 09M







MAIN SPINE

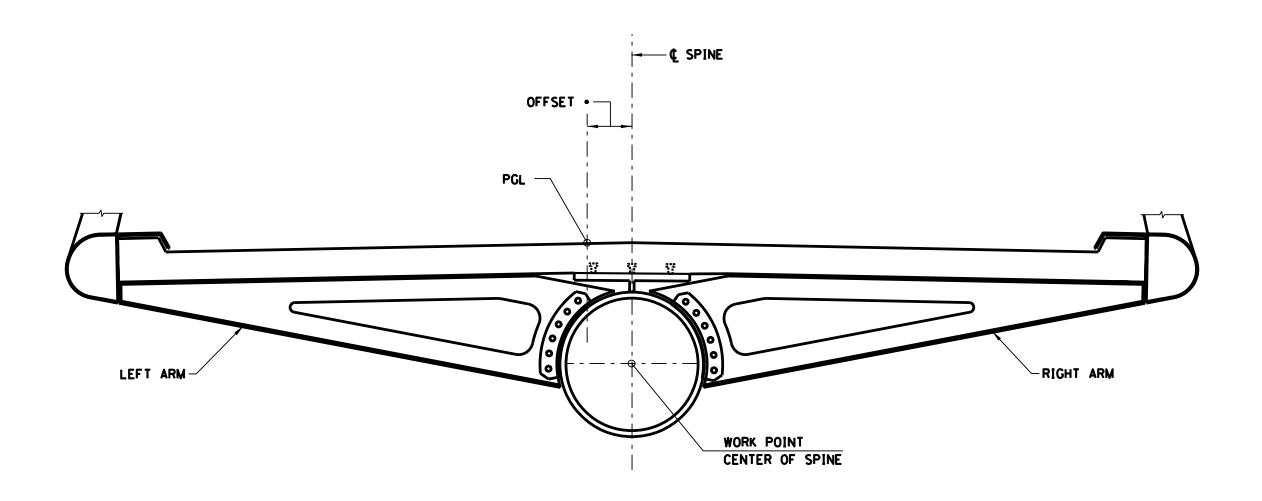








TYPICAL CROSS SECTION

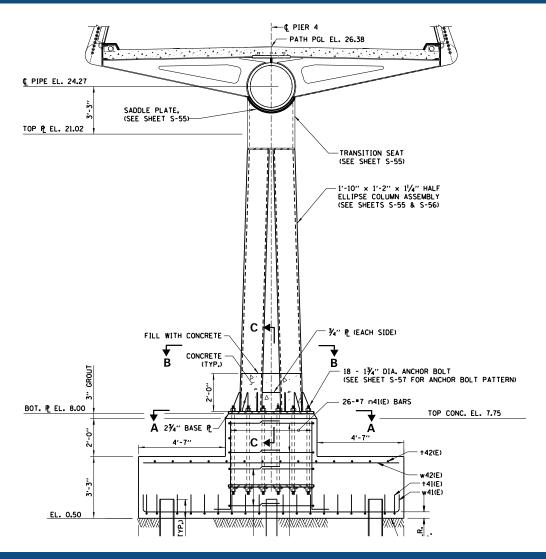








PROPOSED PIER COLUMN

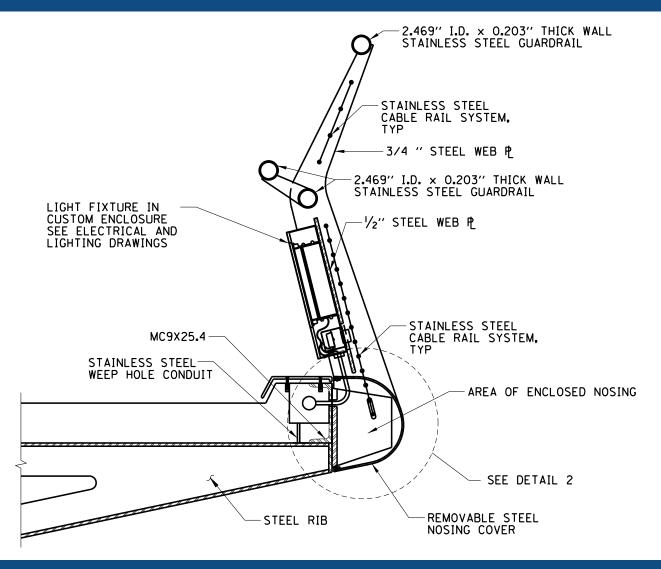








CABLE RAILING

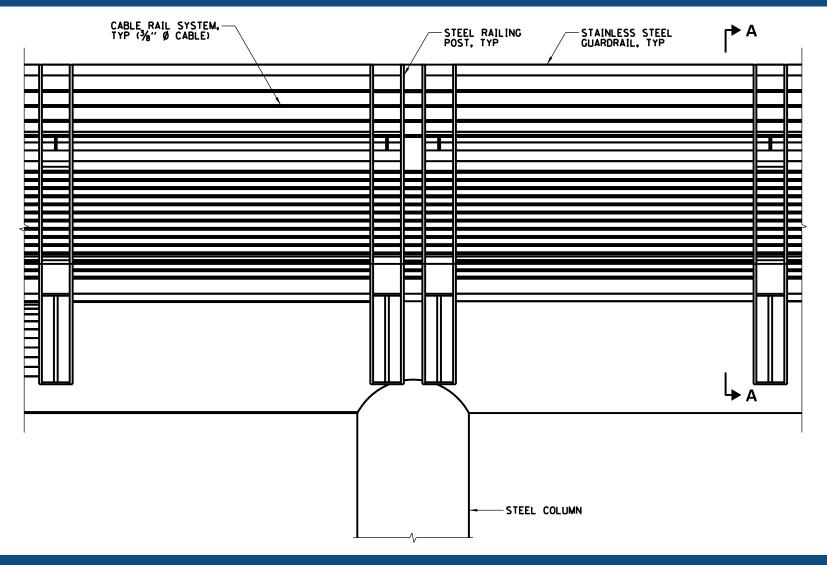








CABLE RAILING

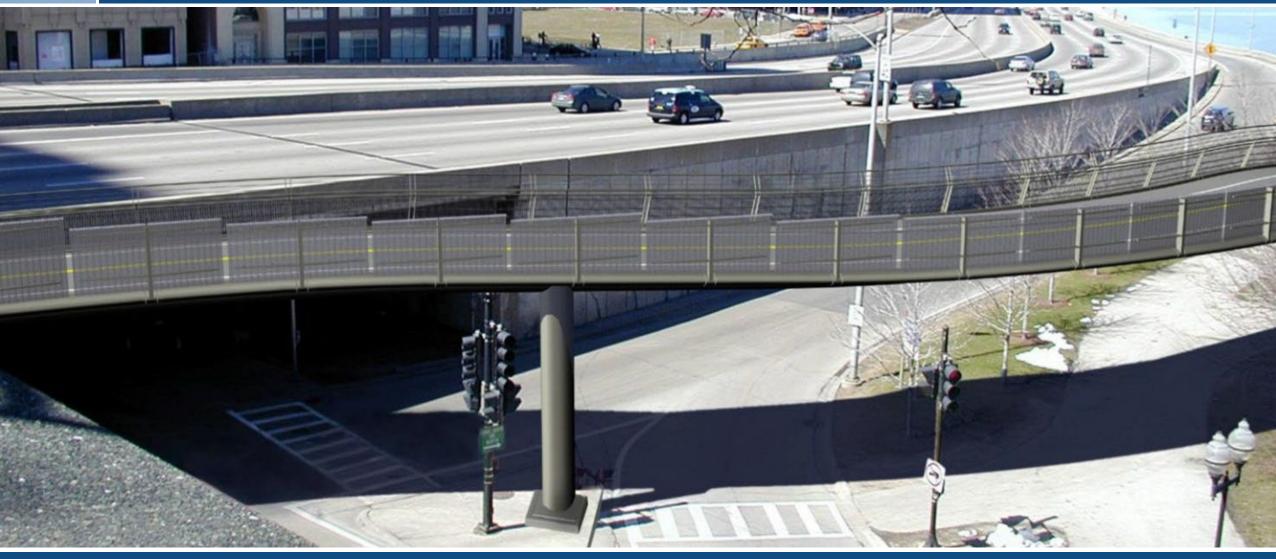








PROPOSED ELEVATED PATH

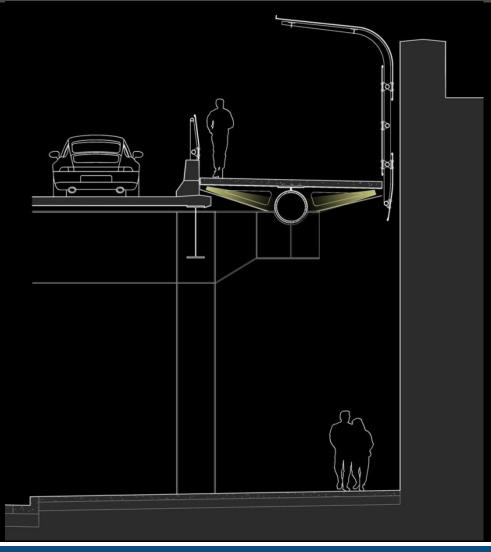








UPPER LAKE SHORE DRIVE REMOVAL

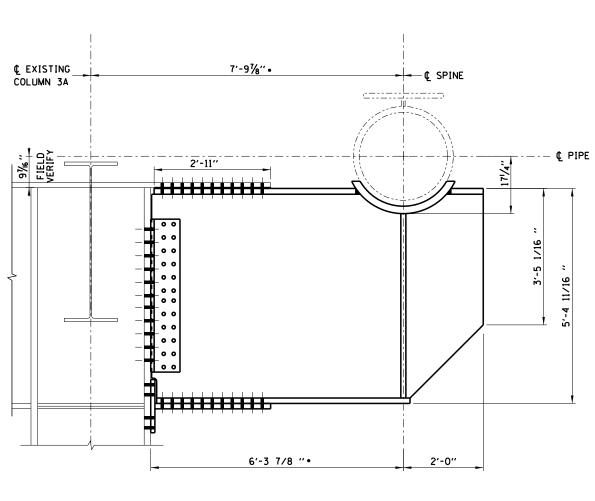


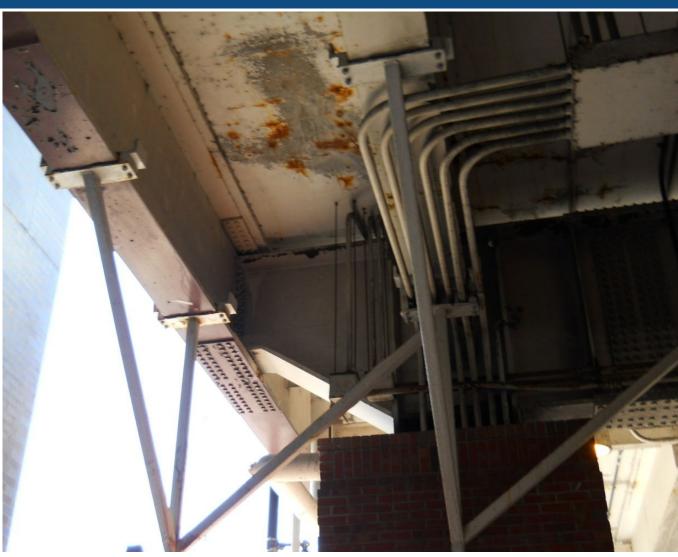






LAKE SHORE DRIVE BENT BRACKET



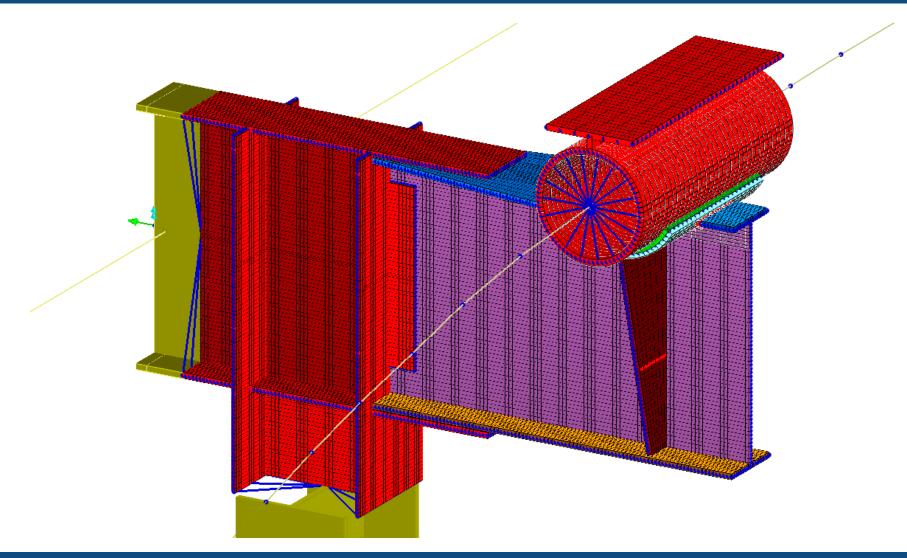








FEM MODEL -CONNECTION BRACKET

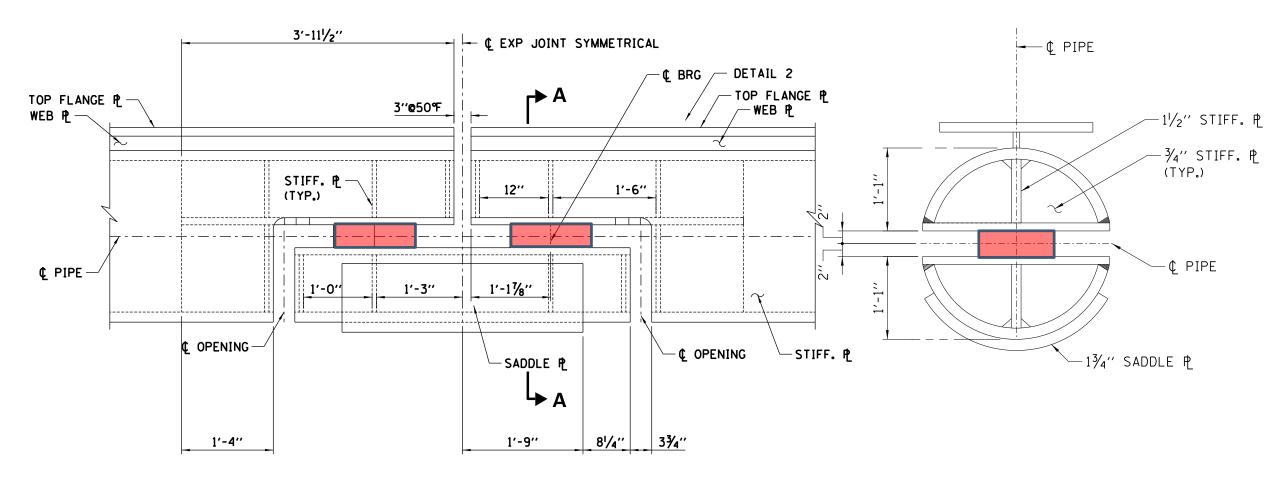








EXPANSION CONNECTION

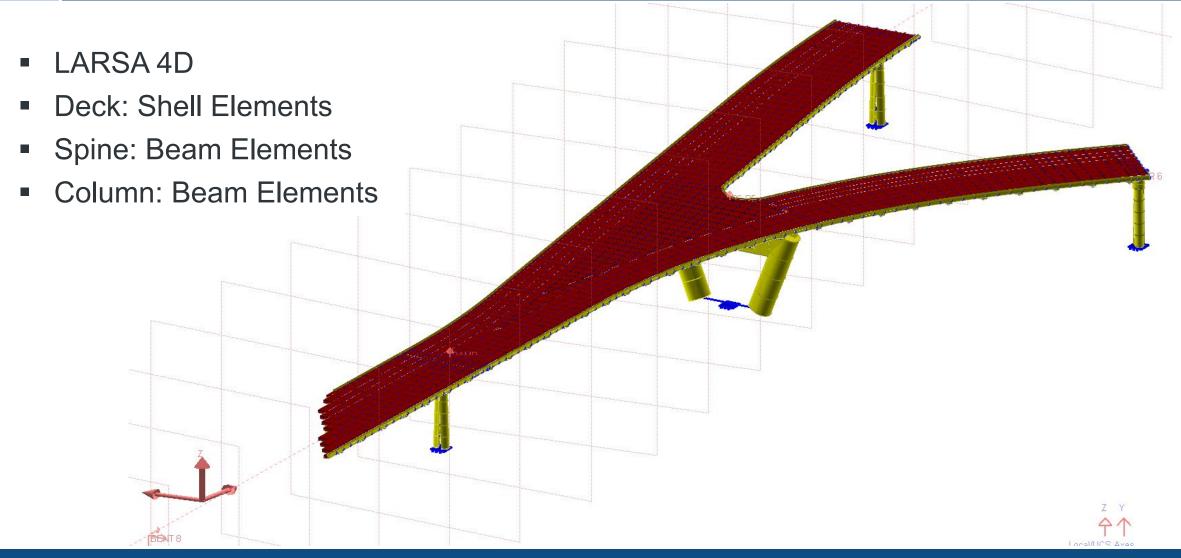








BRIDGE MODELING

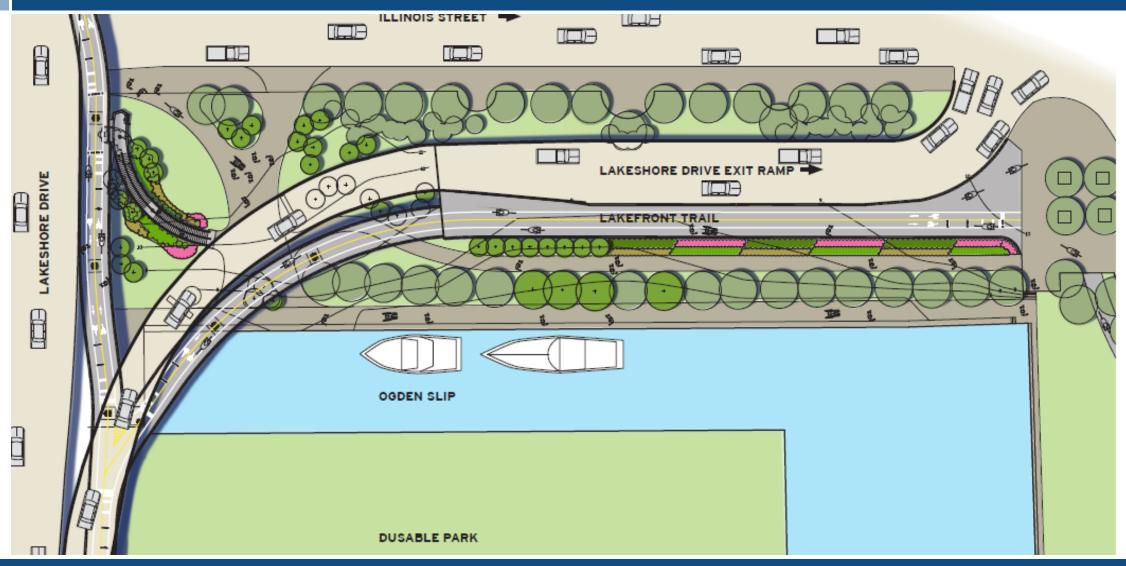
















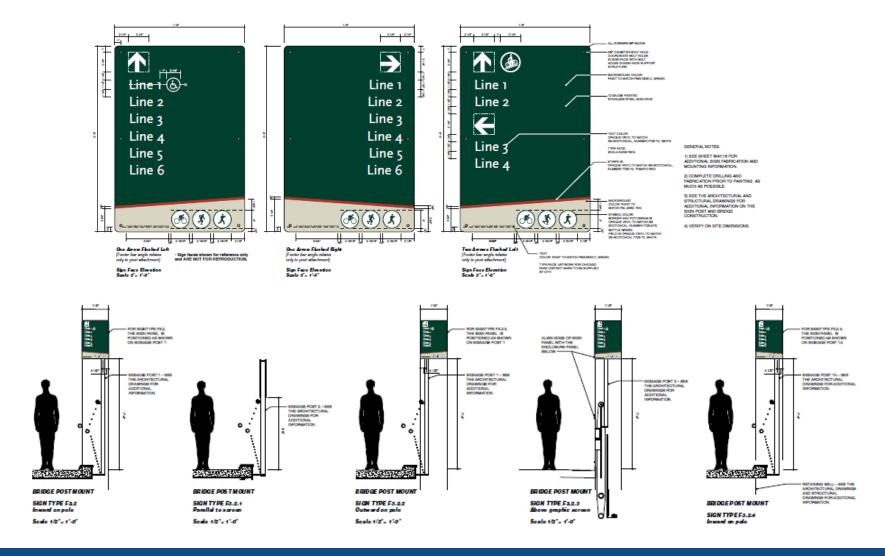










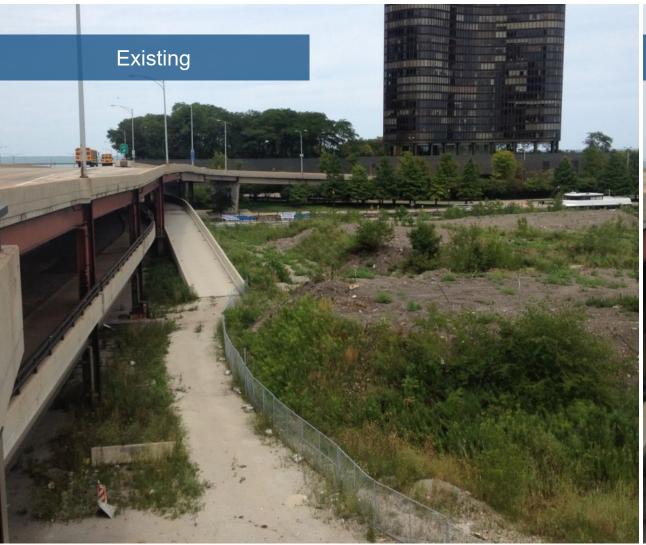


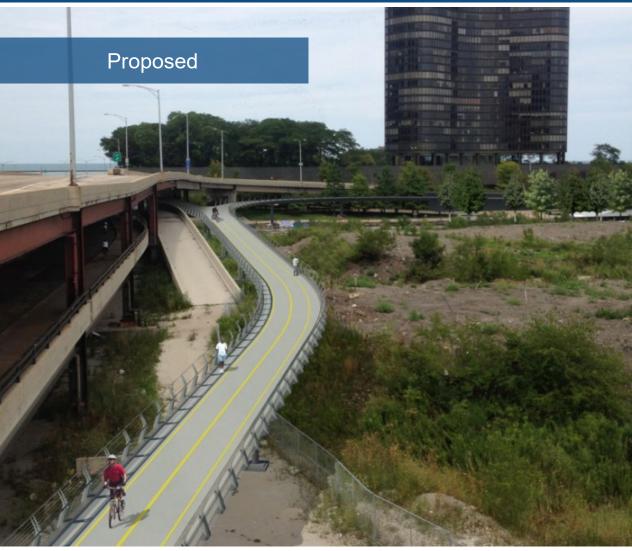






DUSABLE PARK IMPROVEMENTS





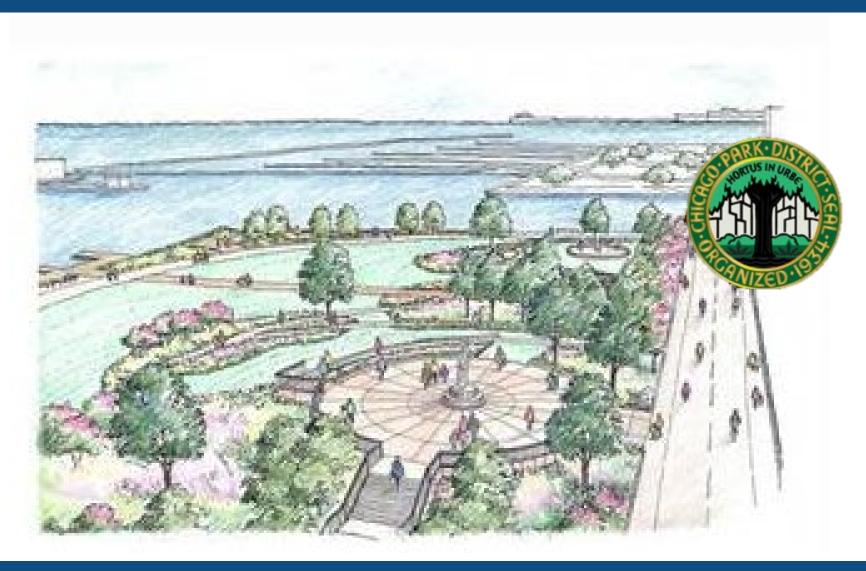






DUSABLE PARK – FUTURE PLANS



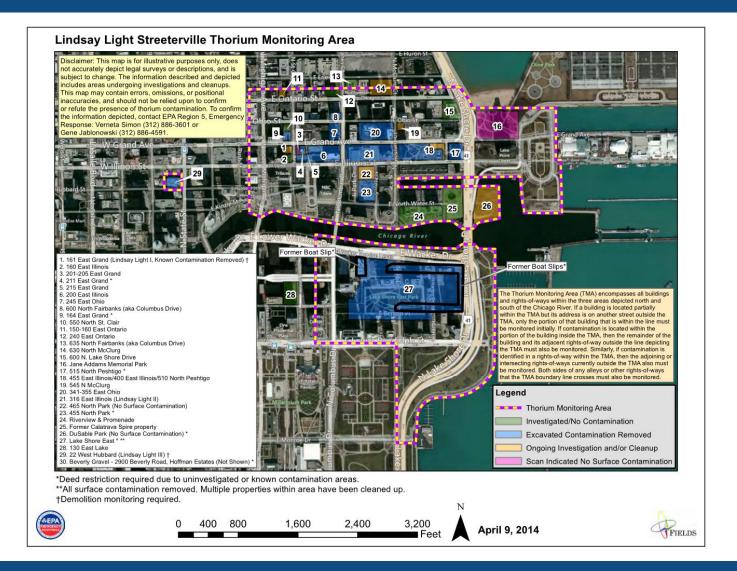








DUSABLE PARK – THORIUM



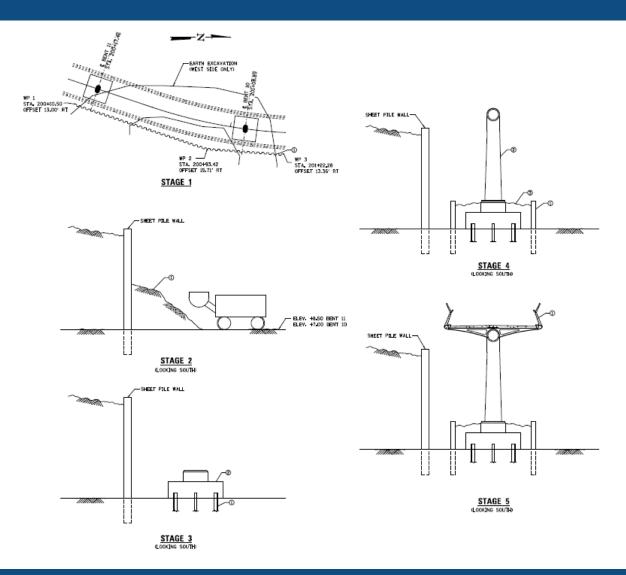






DEALING WITH THORIUM

- Minimize Site Excavation
- Footings Constructed At Grade
- Include items for Thorium Monitoring, containment & remediation









- Green Catch Basins
- Bioswale
- New pavement markings throughout project corridor
- Drainage Improvement at Ohio Street Underpass
- New sprinkler systems at Jane Addams Park
- ADA Compliant Corridor









CONSTRUCTION - MAY 2014











CONSTRUCTION - MAY 2014

























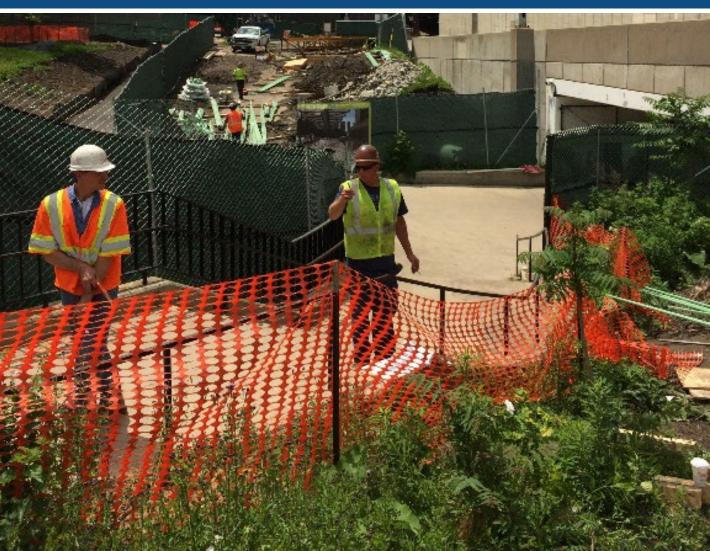










































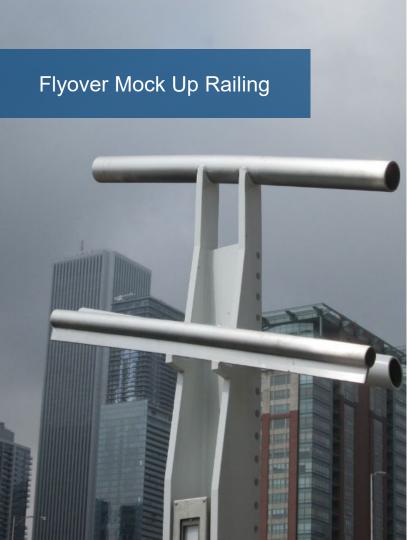












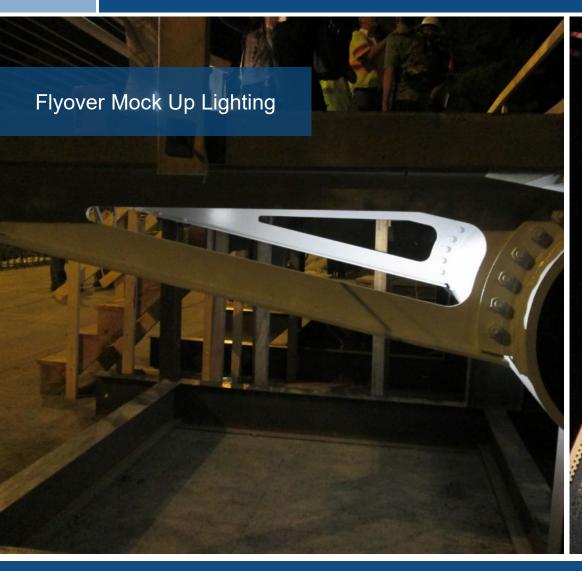


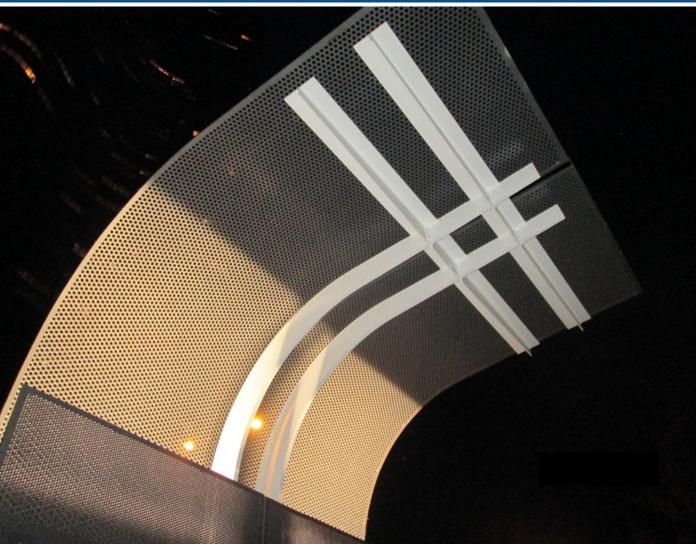










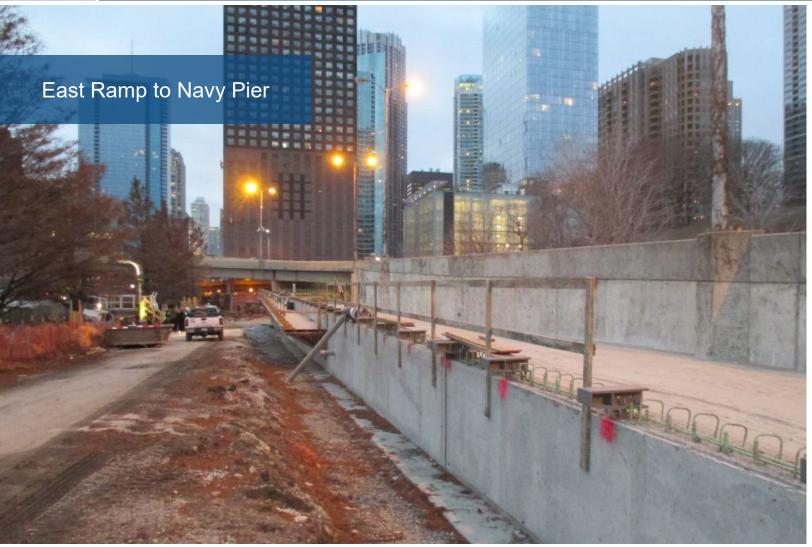








CONSTRUCTION - DECEMBER 2014





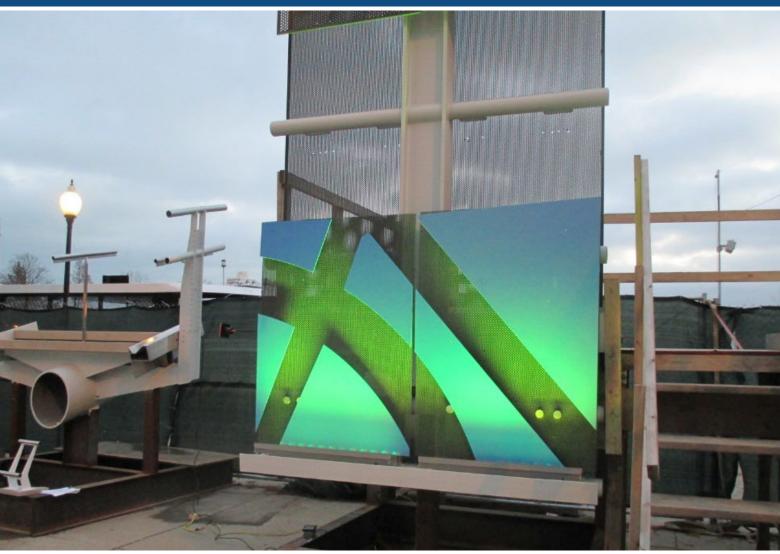






CONSTRUCTION - DECEMBER 2014











CONSTRUCTION - DECEMBER 2014













CONSTRUCTION – JANUARY 2015





















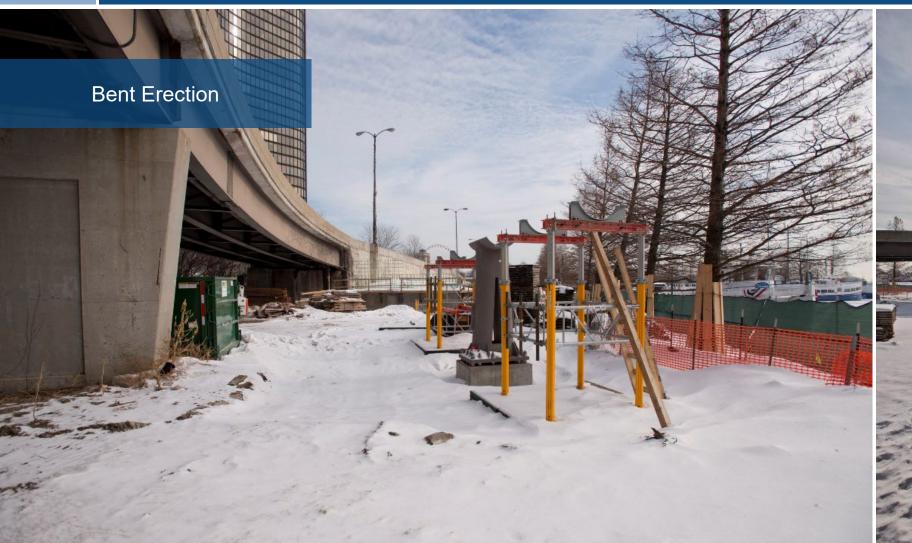
































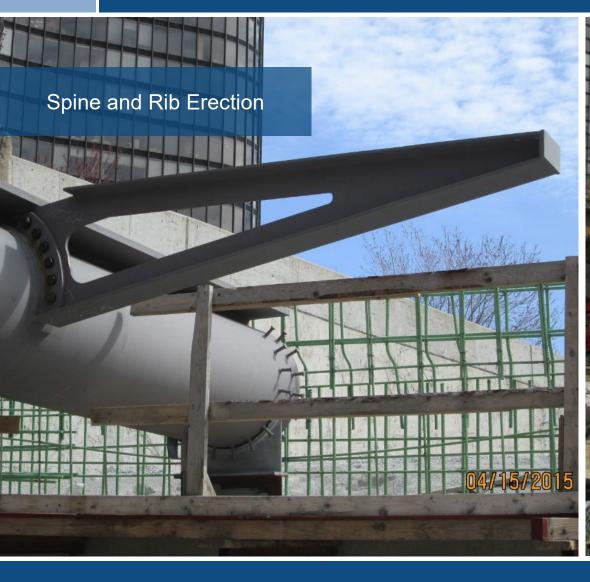








CONSTRUCTION – APRIL 2015











CONSTRUCTION - APRIL 2015





















CONSTRUCTION – JUNE 2015









CONSTRUCTION – JUNE 2015

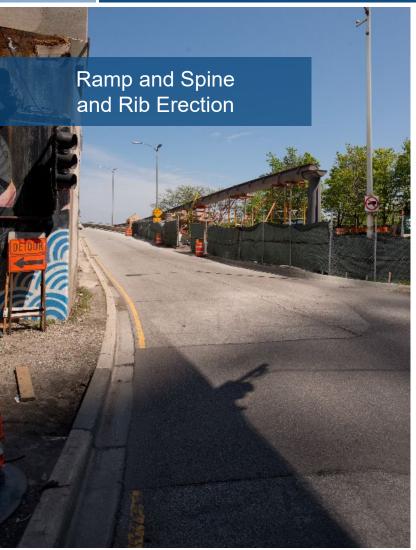








CONSTRUCTION – JUNE 2015













CONSTRUCTION









CONSTRUCTION

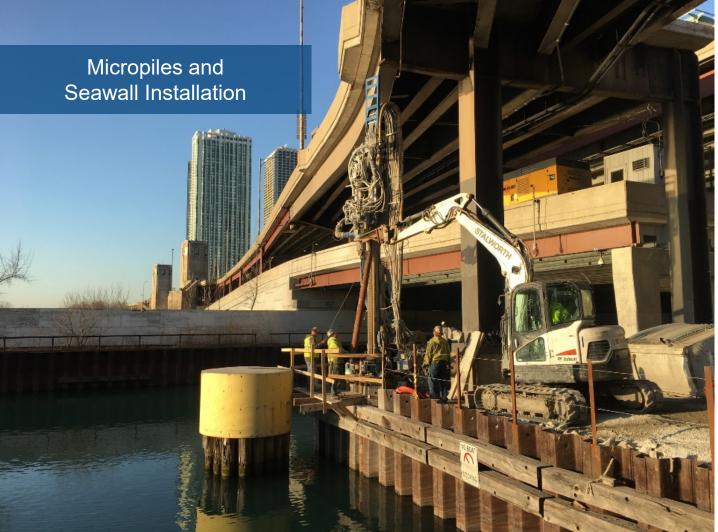


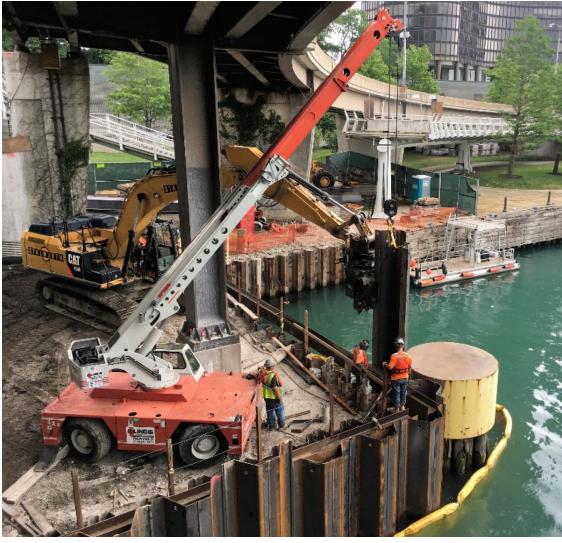






CONSTRUCTION - JULY 2018











CONSTRUCTION – JULY 2018



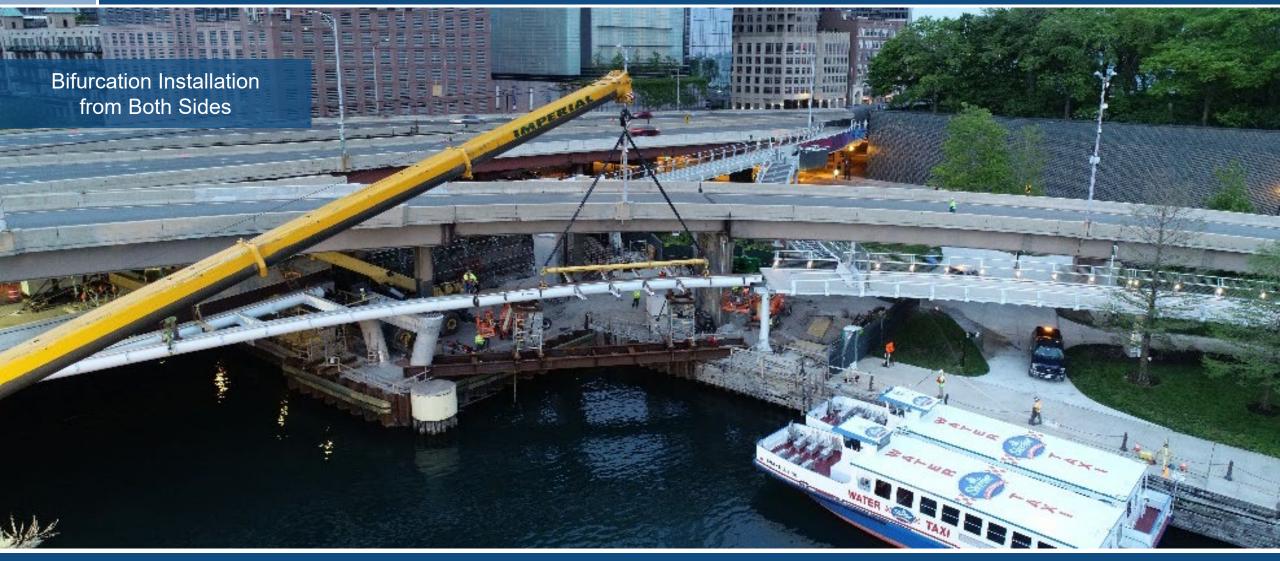








CONSTRUCTION – JULY 2018









CONSTRUCTION – JULY 2018

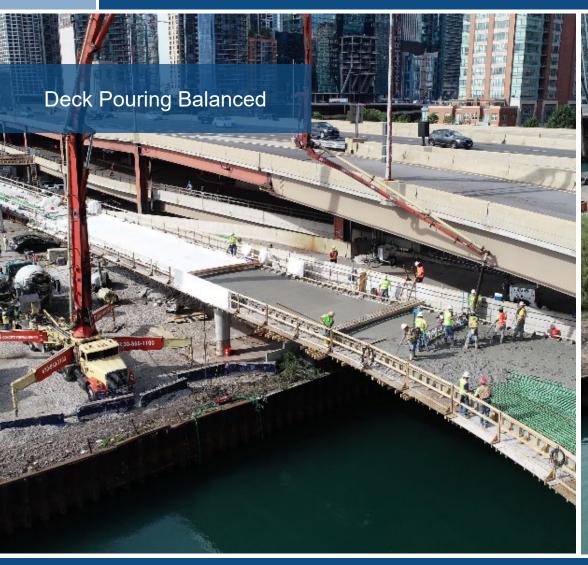


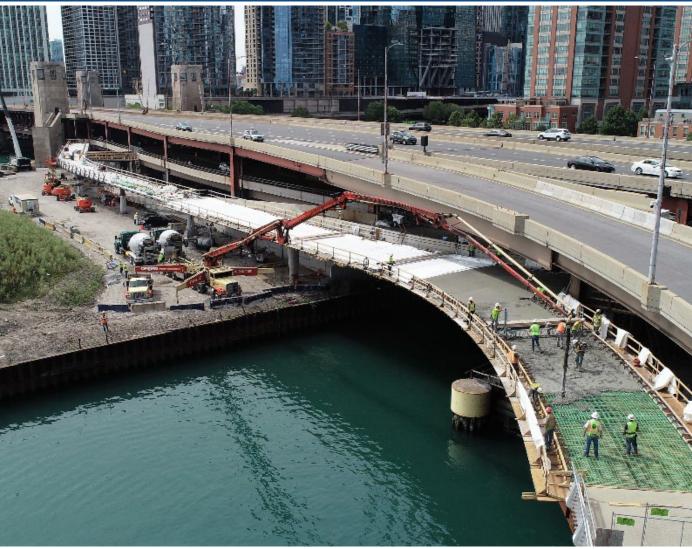






CONSTRUCTION – AUGUST 2019











ACKNOWLEDGEMENTS





















































