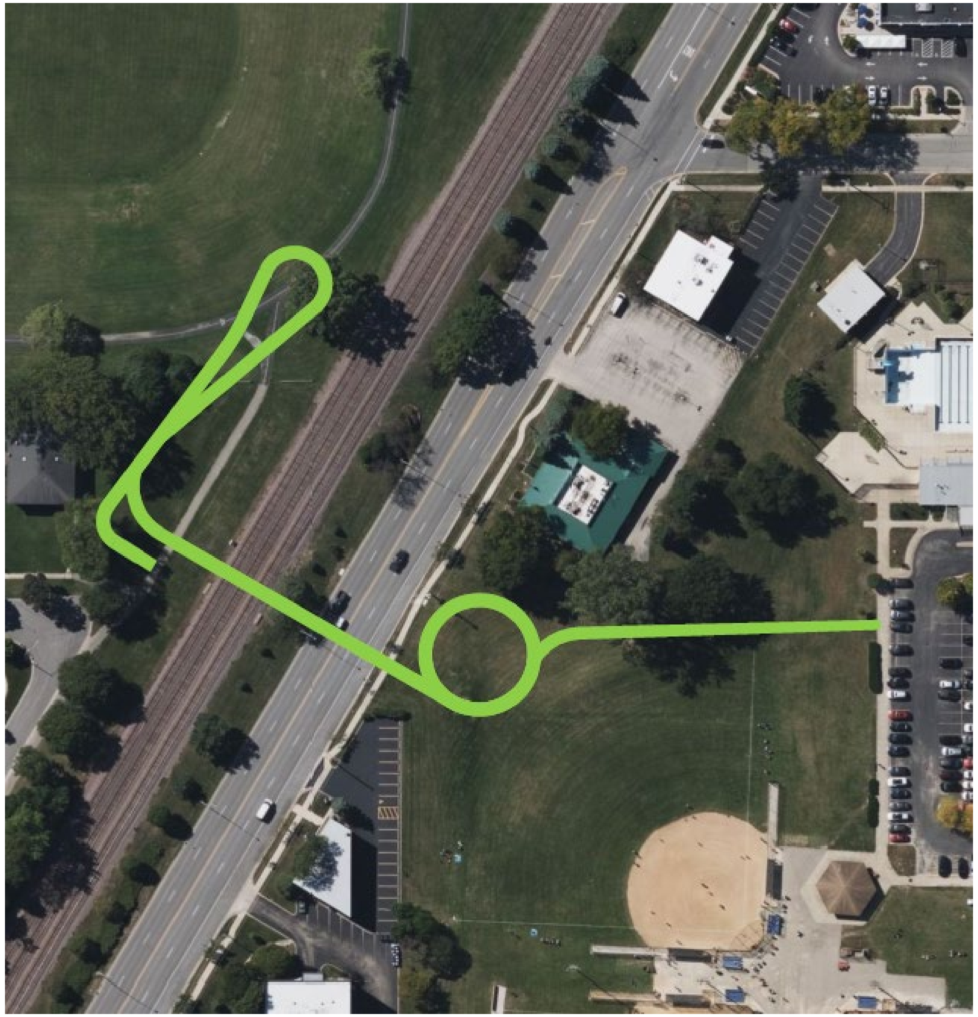
MELAS-MEADOWS PEDESTRIAN BRIDGE

PHASE II ENGINEERING UPDATE

Village Board Meeting
January 14, 2025

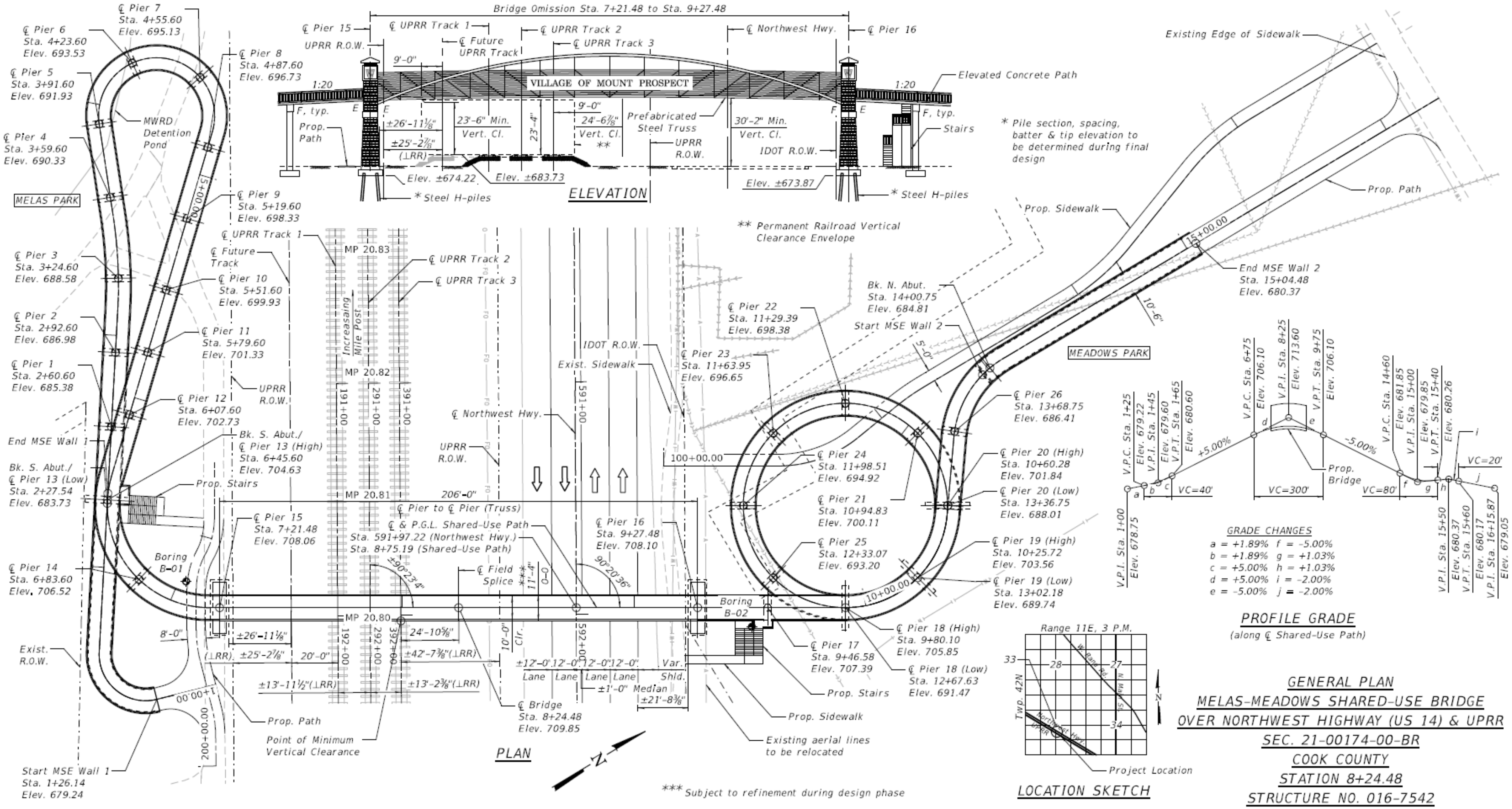
Melas-Meadows Pedestrian Bridge



Mount Prospect

CiorbaGroup
CONSULTING ENGINEERS

Approved Type, Size, Location Plan



Mount Prospect

CiorbaGroup CONSULTING ENGINEERS

Preliminary Renderings (Phase I) - Main Span

Mount Prospect

CiorbaGroup
CONSULTING ENGINEERS

Preliminary Renderings (Phase I) - Main Span

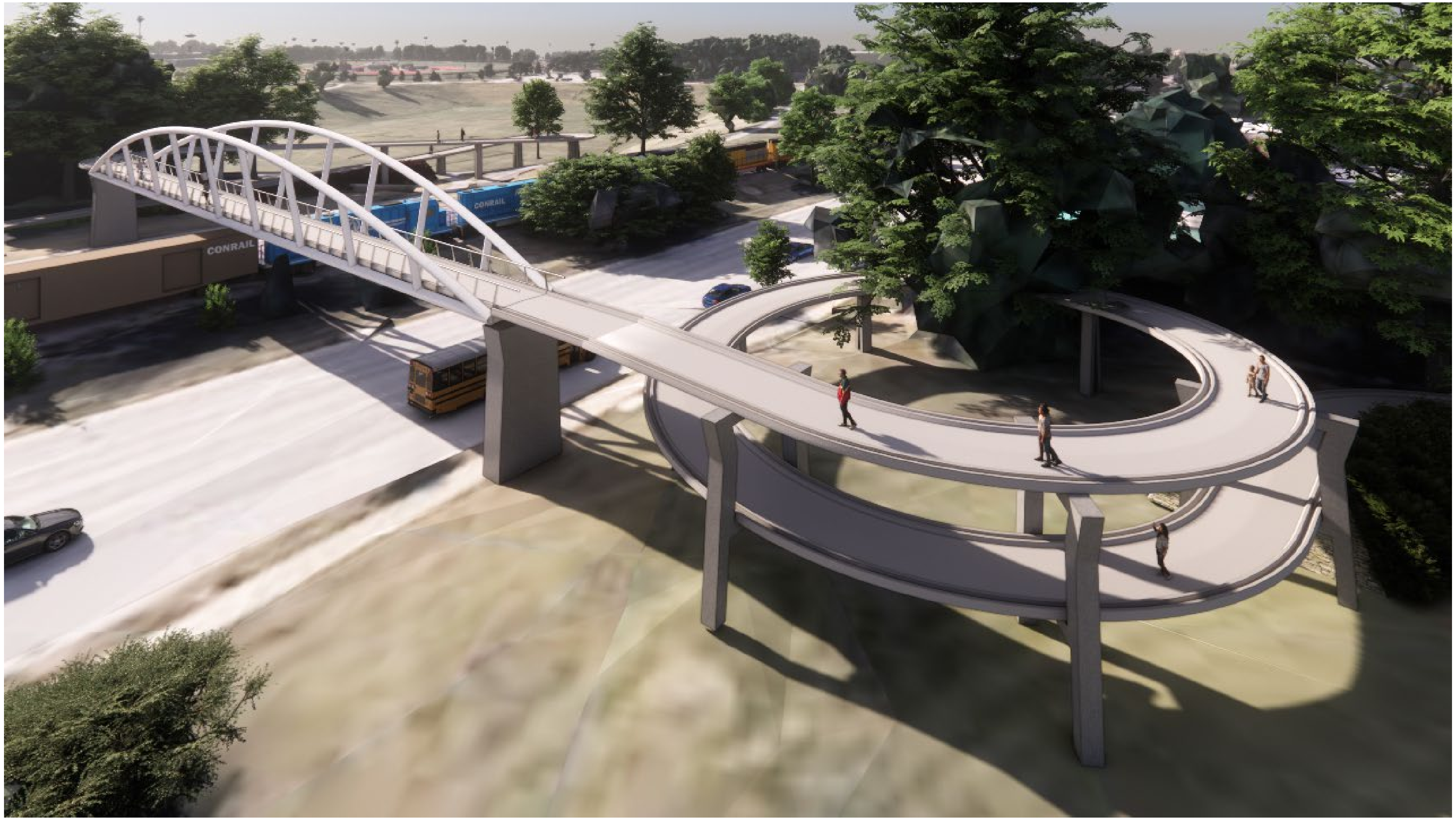
Preliminary Renderings (Phase I) - Main Span

Work to Date (Phase II Engineering)

- Coordination meetings with Mount Prospect Park District, MWRD, IDOT, Union Pacific Railroad, Illinois Commerce Commission (ICC)
- Main span alternative analysis
- Geotechnical borings and draft Structure Geotechnical Report prepared
- Utility coordination
- Additional topographic survey
- Initial design of bridge approaches
- Initial design of lighting
- Review of connection to existing path/sidewalk

Main Span Alternate - Vierendeel Truss

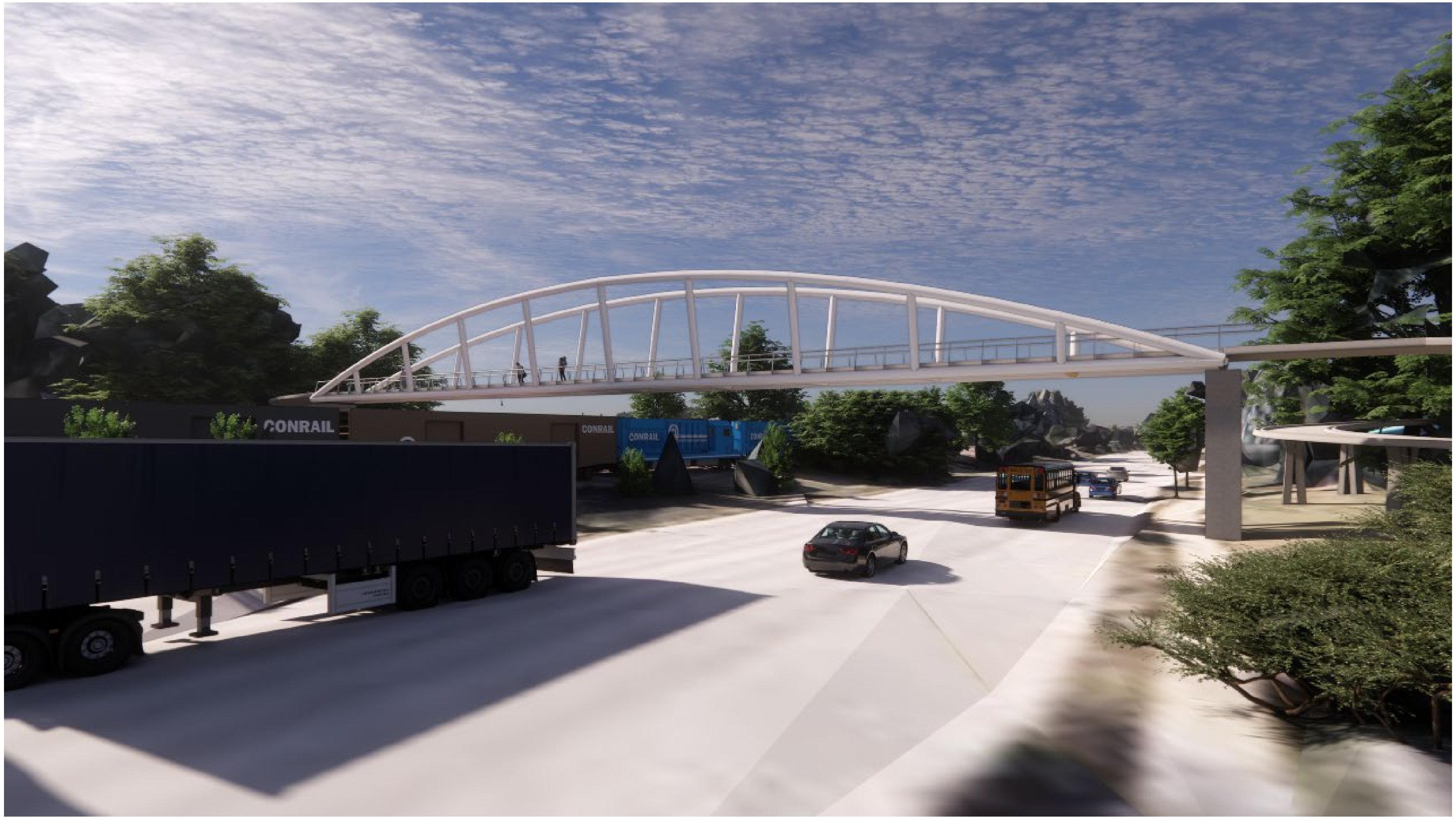
Main Span Alternate - Vierendeel Truss



Mount Prospect

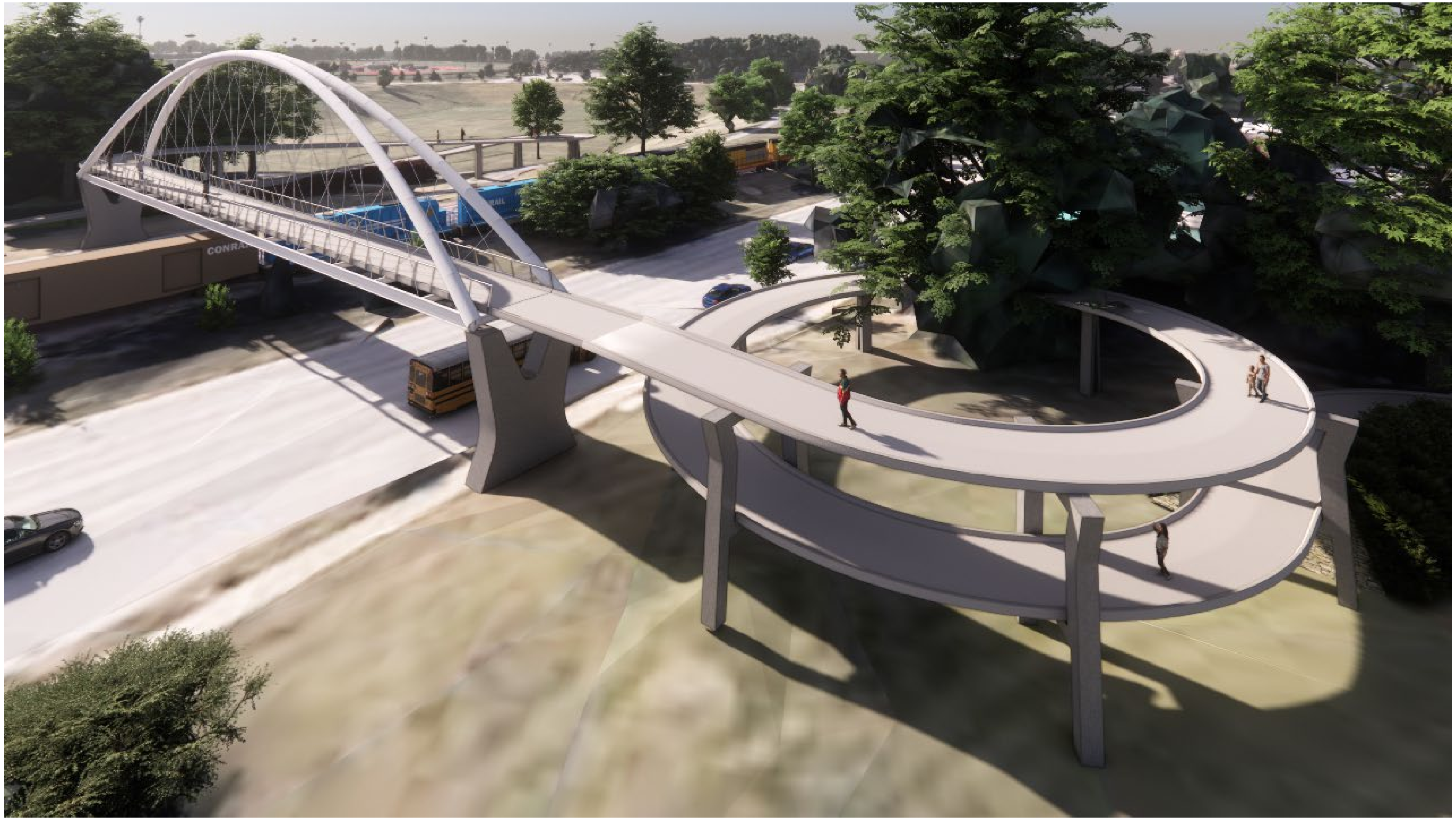
CiorbaGroup
CONSULTING ENGINEERS

Main Span Alternate - Vierendeel Truss



Main Span Alternate - Network Tied Arch

Main Span Alternate - Network Tied Arch



Mount Prospect MP

CiorbaGroup CONSULTING ENGINEERS

Main Span Alternate - Network Tied Arch

Mount Prospect

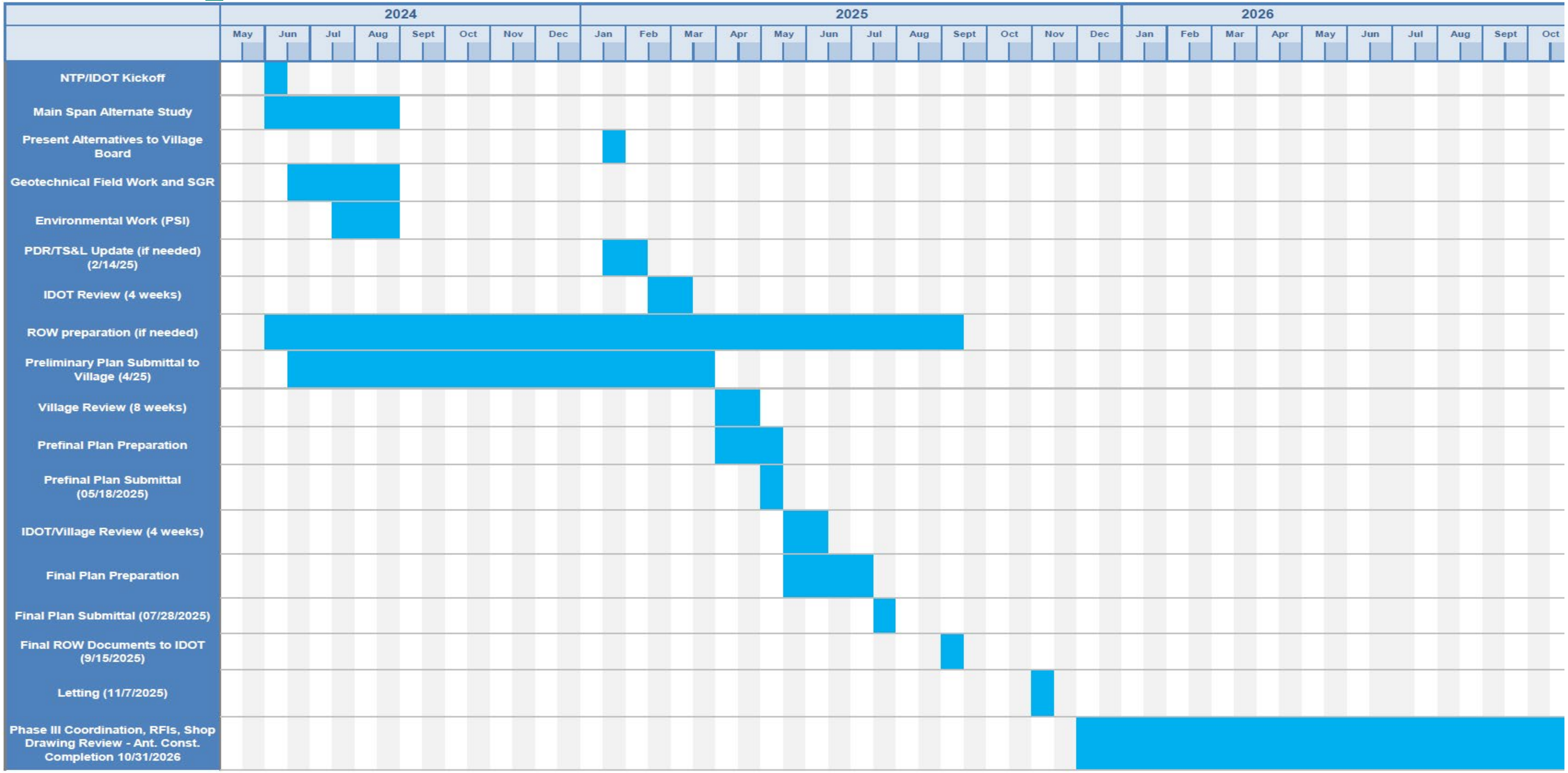
CiorbaGroup
CONSULTING ENGINEERS

Main Span Alternate - Cable Stay

Main Span Alternate - Cable Stay

Main Span Alternate - Cable Stay

Anticipated Schedule



Mount Prospect

CiorbaGroup
CONSULTING ENGINEERS

Federal/State/County Funding

<u>Phase I Engineering</u>

- Invest in Cook - $61,946

<u>Phase II Engineering</u>

- Congressional Appropriation - $517,400

<u>Phase III Construction & Construction Engineering</u>

- Illinois Transportation Enhancement Program - $3,000,000
- Surface Transportation Program - $2,033,824
- Grade Crossing Protection Fund (ICC) - $2,905,000*

* (pending, undetermined yet)

Funding

Prefabricated Truss Design

	Estimated Total Cost	Grant Funding: Invest in Cook Participation	Grant Funding: ITEP Participation	Grant Funding: STP-Shared Participation	Grant Funding: Congressional Legislative Add-On	Local Participation	Funding Gap
Phase I Preliminary Engineering	$123,893.00	$61,946.50	$0.00	$0.00	$0.00	$61,946.50	$0.00
Phase II Design Engineering	$725,716.00	$0.00	$63,173.00	$0.00	$517,400.00	$145,143.00	$0.00
Construction	$7,548,600.00	$0.00	$2,440,123.00	$2,033,824.00	$0.00	$1,509,720.00	$1,564,933.00
Construction Engineering	$754,860.00	$0.00	$496,704.00	$0.00	$0.00	$150,972.00	$107,184.00
Total	$9,153,069.00	$61,946.50	$3,000,000.00	$2,033,824.00	$517,400.00	$1,867,781.50	$1,672,117.00

Vierendeel Design

	Estimated Total Cost	Grant Funding: Invest in Cook Participation	Grant Funding: ITEP Participation	Grant Funding: STP-Shared Participation	Grant Funding: Congressional Legislative Add-On	Local Participation	Funding Gap
Phase I Preliminary Engineering	$123,893.00	$61,946.50	$0.00	$0.00	$0.00	$61,946.50	$0.00
Phase II Design Engineering	$725,716.00	$0.00	$63,173.00	$0.00	$517,400.00	$145,143.00	$0.00
Construction	$7,962,798.00	$0.00	$2,440,123.00	$2,033,824.00	$0.00	$1,592,560.00	$1,896,291.00
Construction Engineering	$796,280.00	$0.00	$496,704.00	$0.00	$0.00	$159,256.00	$140,320.00
Total	$9,608,687.00	$61,946.50	$3,000,000.00	$2,033,824.00	$517,400.00	$1,958,905.50	$2,036,611.00

Tied Arch Design

	Estimated Total Cost	Grant Funding: Invest in Cook Participation	Grant Funding: ITEP Participation	Grant Funding: STP-Shared Participation	Grant Funding: Congressional Legislative Add-On	Local Participation	Funding Gap
Phase I Preliminary Engineering	$123,893.00	$61,946.50	$0.00	$0.00	$0.00	$61,946.50	$0.00
Phase II Design Engineering	$725,716.00	$0.00	$63,173.00	$0.00	$517,400.00	$145,143.00	$0.00
Construction	$8,949,635.00	$0.00	$2,440,123.00	$2,033,824.00	$0.00	$1,789,927.00	$2,685,761.00
Construction Engineering	$894,964.00	$0.00	$496,704.00	$0.00	$0.00	$178,993.00	$219,267.00
Total	$10,694,208.00	$61,946.50	$3,000,000.00	$2,033,824.00	$517,400.00	$2,176,009.50	$2,905,028.00

Cable Stay Design

	Estimated Total Cost	Grant Funding: Invest in Cook Participation	Grant Funding: ITEP Participation	Grant Funding: STP-Shared Participation	Grant Funding: Congressional Legislative Add-On	Local Participation	Funding Gap
Phase I Preliminary Engineering	$123,893.00	$61,946.50	$0.00	$0.00	$0.00	$61,946.50	$0.00
Phase II Design Engineering	$725,716.00	$0.00	$63,173.00	$0.00	$517,400.00	$145,143.00	$0.00
Construction	$11,172,129.00	$0.00	$2,440,123.00	$2,033,824.00	$0.00	$2,234,426.00	$4,463,756.00
Construction Engineering	$1,117,213.00	$0.00	$496,704.00	$0.00	$0.00	$223,443.00	$397,066.00
Total	$13,138,951.00	$61,946.50	$3,000,000.00	$2,033,824.00	$517,400.00	$2,664,958.50	$4,860,822.00

Mount Prospect

CiorbaGroup
CONSULTING ENGINEERS

Preferred Alternative & Next Steps

Vierendeel Truss

Next Steps

- Begin main span design
- Continue to investigate funding opportunities
- Complete prefinal plans May 2025
- Complete final plans September 2025
- Scheduled letting November 2025
- Construction to begin Spring 2026