

Design, Coordination and Partnering:

SR 19-A63 Improvements & Shaler Street
Bridge SPMT Replacement

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LOCHNER



PROJECT OVERVIEW:

SR 19-A63 located near Pittsburgh between SR 60 and SR 376 (27,000 ADT)

Shaler Street (4,849 ADT) passes over SR 19, connecting Pittsburgh to I-79 and Pittsburgh International Airport



PNC Park



Heinz Field

Lochner Office

To Pittsburgh International Airport

SITUATION:

- 4-lane bifurcated roadway
- Wabash Street at-grade intersection
- I-376 grade separated interchange

GOALS:

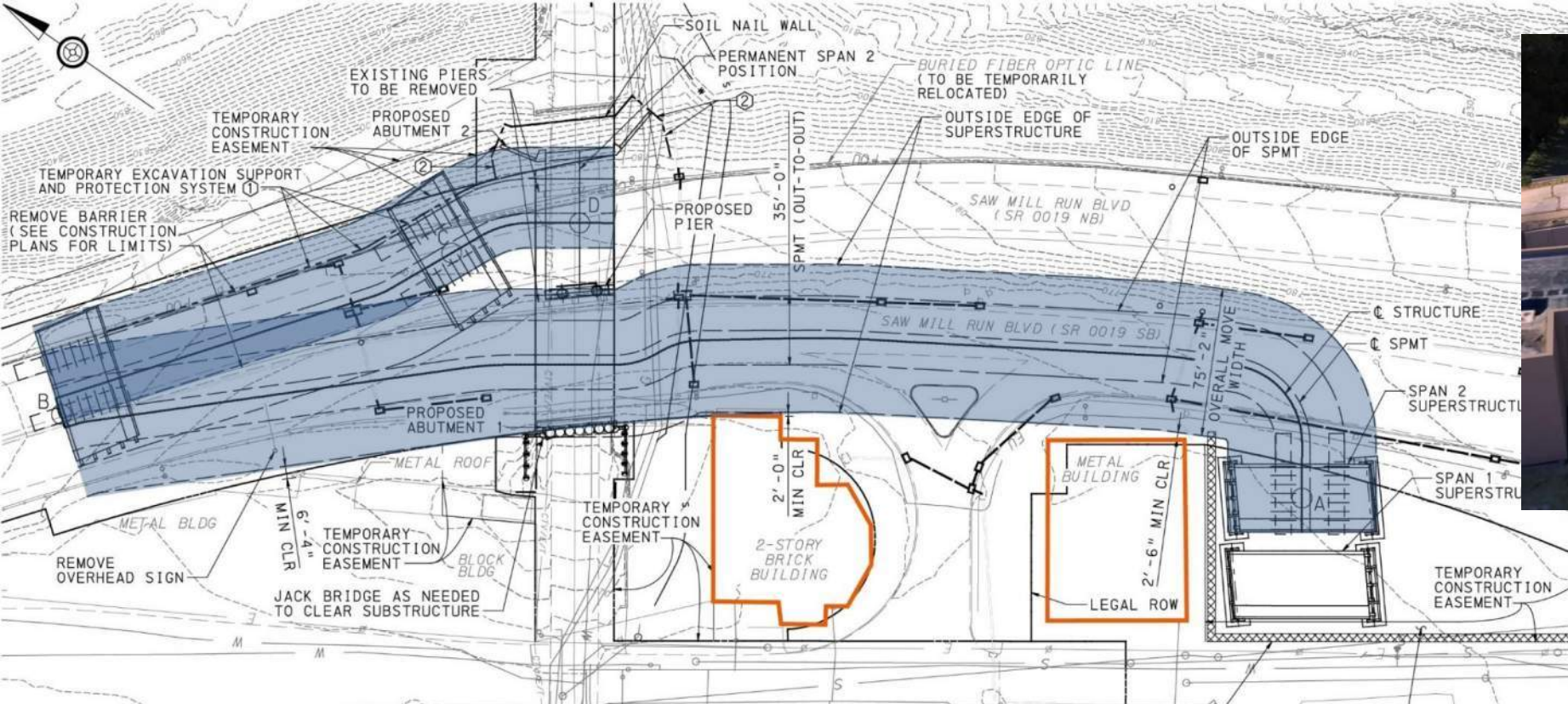
- Detour two weekends for the bridge replacement
- Maintain one lane of traffic in each direction for full depth roadway replacement



Bridge Farm

- Temporary abutments
 - Used LARSA model to analyze bridge during move and determine tolerances
- Agreement and discussions with staging area property owner to determine needs for access
- Transition from Bridge Farm to the move path





- Evaluated move path for horizontal clearances and grade changes
- Discussions with heavy move contractors during design to determine feasibility

- Included center-of-gravity of spans on plans for heavy move contractor to determine stability of overall system
- Each span weighs approximately 260 tons



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Two Lanes on Ramp C: Temporary to Permanent

- Potential backup to Parkway
- Utilizing shoulder and adding two lanes to reduce ramp traffic queuing
- Once implemented, the results were even better than expected
- Permanent now – staying until next project
- PennDOT Tunnel Maintenance Incident Assistance reduced to zero after the widening, continuing to monitor safety benefits.
- Positive Department, Designer, and Contractor coordination