Southern Ohio Veterans Memorial Highway
State Route 823
Project Location
- Scioto County
- 90 miles south of Columbus, OH
- 100 miles east of Cincinnati, OH
Completes Appalachian Highway in Ohio

The Appalachian Highway system is designed to:

- Generate economic development;
- Connect Appalachia to interstate system;
- Improve Regional & National market access.

Currently the “through” traffic disburses over 6 different routes

Reduces current 26 mile travel time by avoiding:

- 30 traffic signals,
- 80 intersections,
- 500 driveways

Improves safety and congestion
Traditionally:
Design-Bid-Build (DBB)

“Alternative Delivery”: Design-Build (DB)

Public Private Partnership (P3)

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Contract Length
1-5 years 1-5 years 20-30 years
How P3 it works:

- Developer provides fixed price DBFOM for construction plus 35 years O&M.
- ODOT repays the Developer upon completion of construction during the 35 year operating period in monthly payments, subject to deductions for availability and performance.
- Developer will “own” what they build for 35 years; any cost overruns or defects in the project are the responsibility of the Developer.
- Developer will perform routine maintenance (e.g. roadside sweeping, vegetation removal) and major maintenance (e.g. bridge repair).
- After 35 years of operations, developer hands back roadway to ODOT in proper condition.
Identified Benefits of the P3 Delivery:

- Accelerates delivery of the project by 17 years
- Allows ODOT to pay for the project over a longer period
- Achieves competitive, firm fixed price
- Efficiency due to project design and build in a single phase instead of 3 different phases
- Efficiency due to larger project scale
- Risk transfer to private sector
  - Construction, finance, operation & maintenance risks transferred to Developer
  - Relief events mechanism
- Effective long-term warranty through O&M contract
Design and Construction

- 16-mile, 4-lane, limited access highway through mountainous terrain of SE Ohio
Design and Construction

- 16-mile, 4-lane, limited access highway through mountainous terrain of SE Ohio
- Bypasses 26 miles of US 23 and US 52, crossing NS and CSX Railroads, along 5 interchanges
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PROJECT SCOPE

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  - 330,000 square feet of MSE retaining walls along 17 bridges
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  - High fill embankments (> 180’) and deep culverts (> 170’)

Additional information about the project can be found in the image.
Operation and Maintenance

- Operating Period is 35 years from Substantial Completion (2018 to 2053)
- Routine and preventative maintenance of structures, roadway, crossovers and other paved areas, drainage systems, markings and delineators, guardrails, pedestrian fences and barriers, signs, fences and walls, vegetated areas and earthworks
- Asset condition scoring (except for pavement inspection performed by ODOT), routine safety inspections, biennial bridge inspections, special and non-routine inspections and handback inspections
- Operational management of adverse weather impact, damage to Project facilities, complaint resolution (together with ODOT), monitoring and clearance of obstruction and debris (including rock fall)
- Renewal works related to structures, roadway, crossovers and other paved areas, drainage systems, markings and delineators, guardrails, pedestrian fences, and barriers, signs, electrical, fences and walls, vegetated areas and earthworks
- There is no ITS included in the scope of work. Additionally, ODOT retains Incident and Emergency Management, Road Weather Information System, Snow and Ice Control and Energy costs
Design broke down in buildable units to expedite start of construction.
- Project broke down in segments with balanced earthwork quantities.
- Allows construction to be performed in the different Segments concurrently and independently.
PROJECT FINANCE

- Private Activity Bonds
- TIFIA
- Equity
- 70%, 80% and SC Milestones
Financial Close

NTP: Design Work start

Commencement of Construction

Substantial Completion Date

Final Acceptance Date

CONSTRUCTION PERIOD: 3 years – 8 months

OPERATING PERIOD: 35 years

120 days

Funding of Handback Reserve

2 years

April 2015

June 2015

Dec. 2018

End of Term Dec. 2053
CONSTRUCTION PROGRESS

- **EARTHWORK**
  - 20.5 million CY of excavation
  - 19.5 million CY moved

- **STRUCTURES**
  - 22 bridges
  - 7 bridges completed
  - 13 bridges with girders installed

- **DRAINAGE**
  - All mainline culverts complete
  - 60% top drainage installed

- **304/PAVING**
  - 25% pavement installed
MANPOWER

- Over 350 Craft personnel onsite at peak
- More than 1 million man-hours worked to date

EQUIPMENT

- Over 350 pieces of major equipment
  - 6 EA -1200 Excavators (10 CY)
  - 30 EA- 50 TON Trucks
Questions?