

ROUTE 422

(SOUTH OF LAKE ARTHUR BRIDGE)



OVER ROUTE 4005

(PLEASANT VALLEY ROAD)

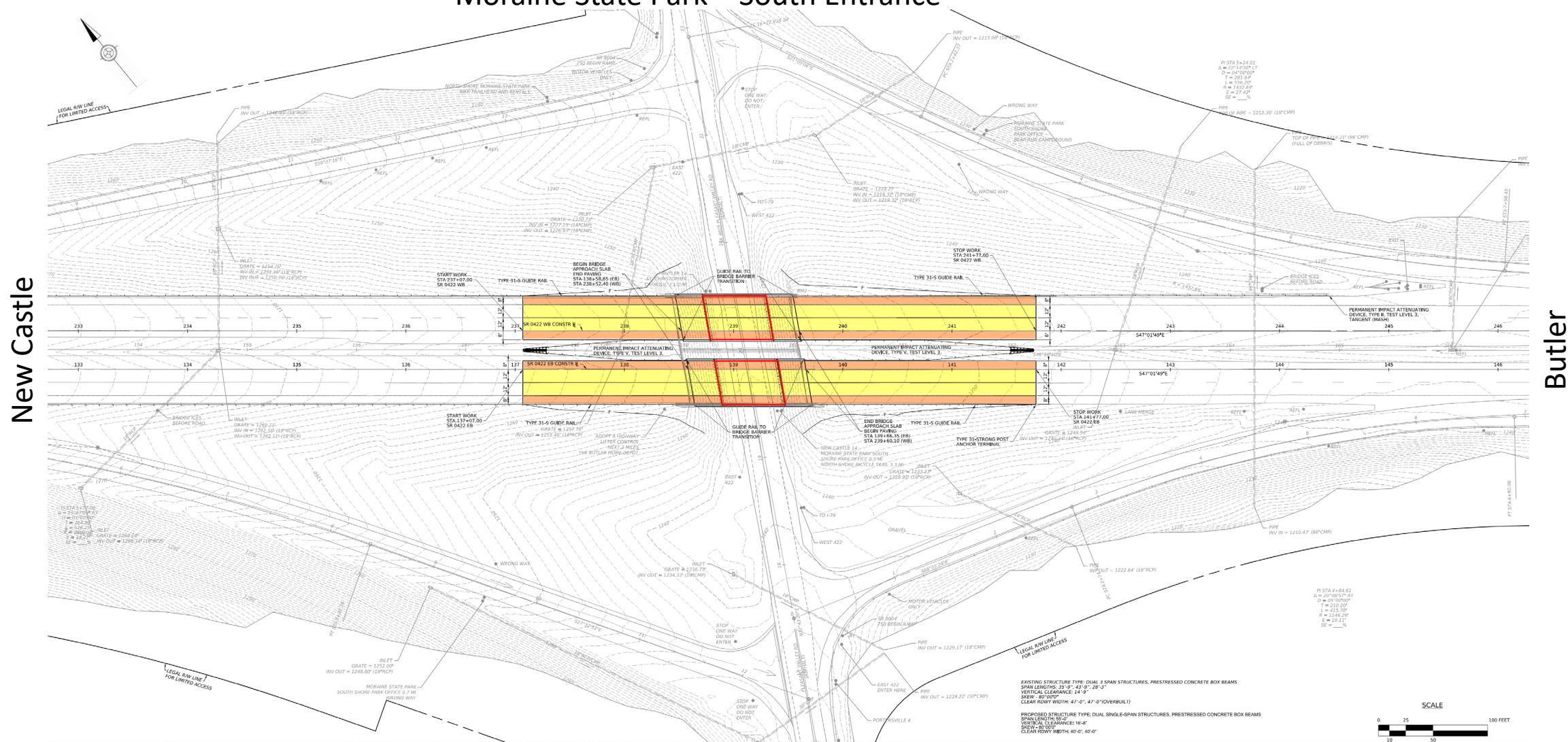
SHAWN KAISER, OCTOBER 2025

PROJECT INTRODUCTION

- The purpose of this presentation:
 - Introduce the project
 - Present anticipated impacts
 - Gather feedback
- The project purpose and need:
 - Replace the dual bridges carrying Route 422 over Route 4005 (Pleasant Valley Road) including associated roadway approach work within the interchange at the South Entrance to Moraine State Park in Muddy Creek Township, Butler County. The existing bridges are deteriorated, and they do not meet the current clearance criteria.



Moraine State Park – South Entrance



Portersville

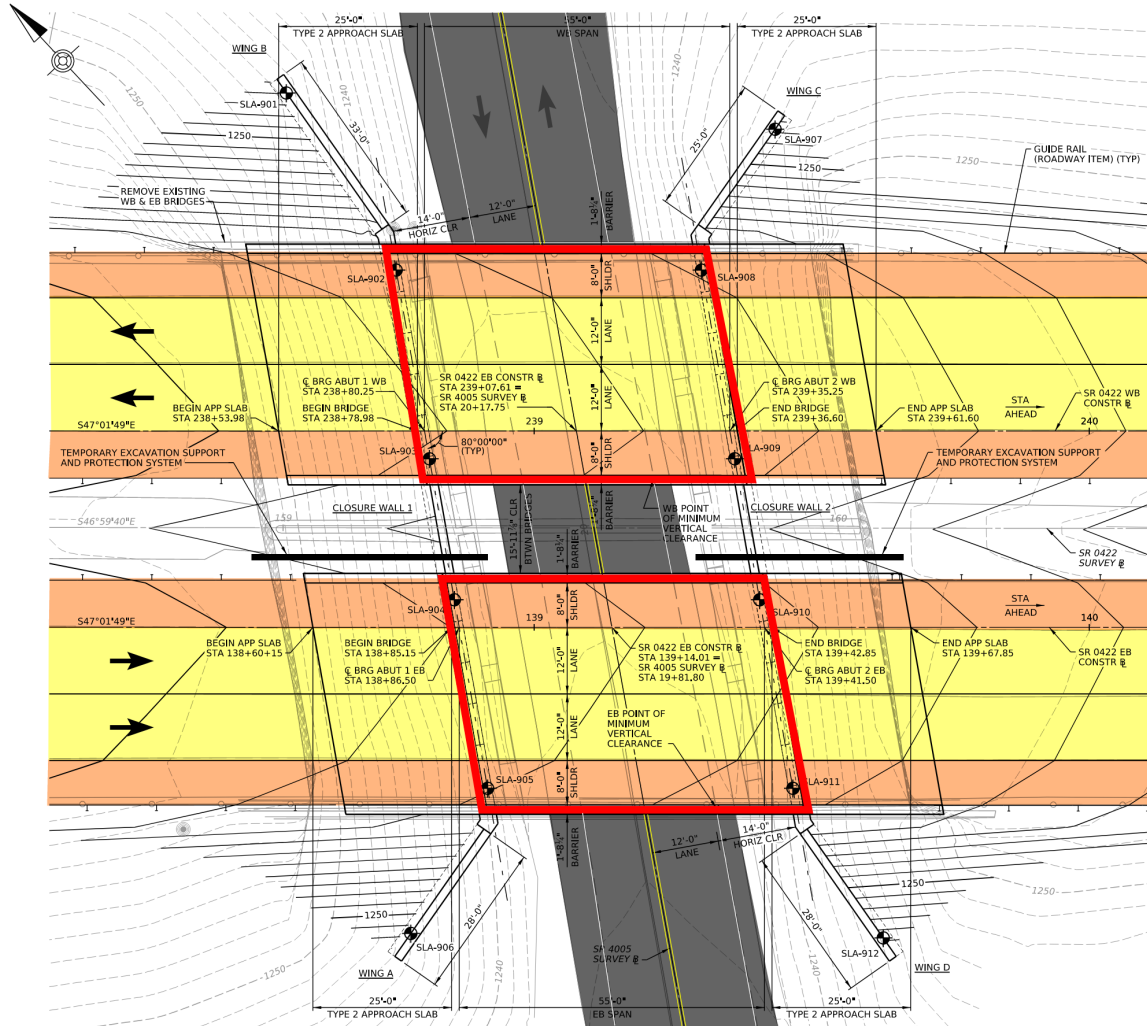


PROJECT DETAILS

- Features:
 - Provide new jointless single-span dual bridges on Route 422
 - Increase vertical clearance on Route 4005 to meet 16'-6" requirement
 - Increase horizontal clearance on Route 4005 to meet clear zone requirements
 - Upgrade guiderail safety
 - Improve roadway drainage
 - Maintain a single lane of traffic in each direction via crossovers on Route 422
 - For safer work zone, faster construction, and better quality
 - Limit impacts to Moraine State Park – no property impacts
 - Restricting bridge demolition and new beam erection to off-peak hours
 - Route 4005 traffic maintained via temporary detours along Route 422
 - Avoid Environmental Impacts
 - Avoid Utility Impacts

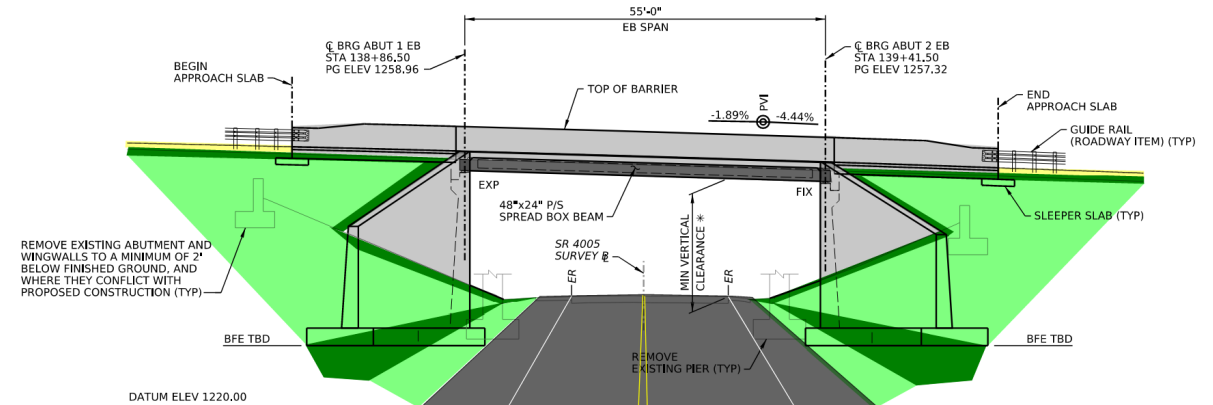


BRIDGE PLAN AND ELEVATION



PLAN

5 0 5 10 FEET



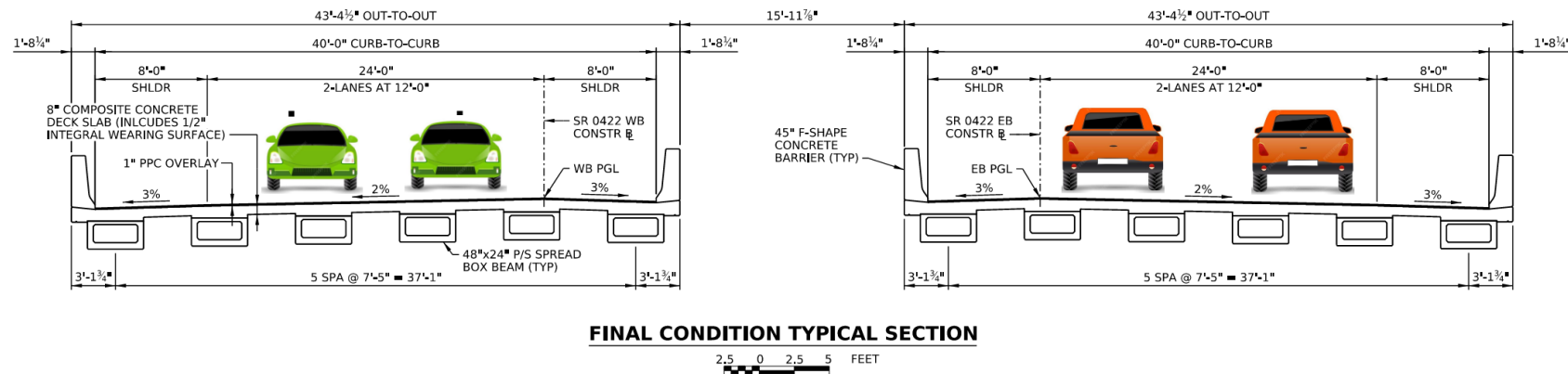
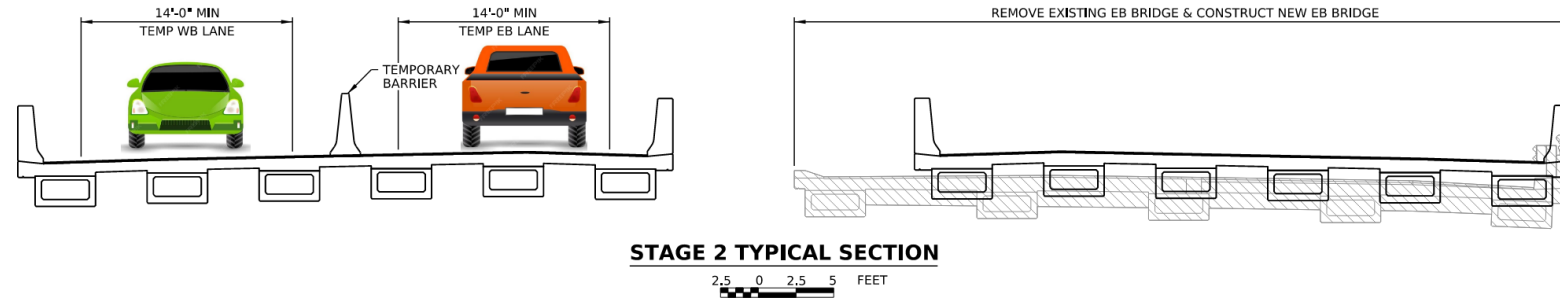
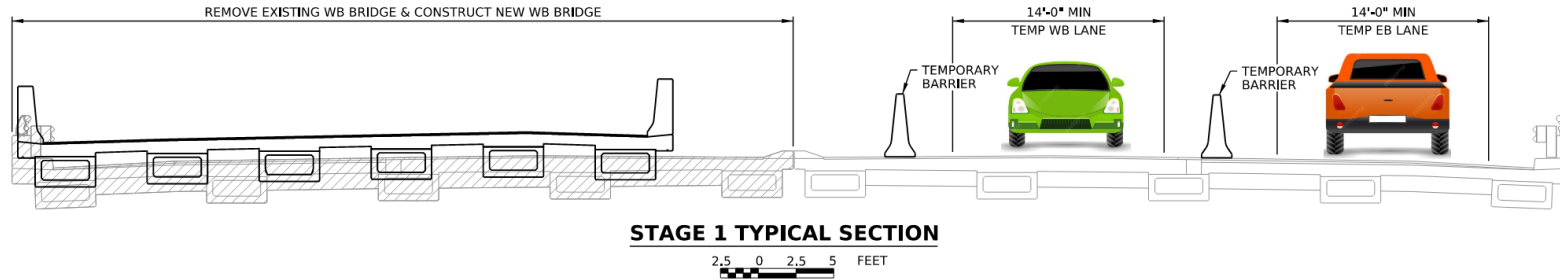
EB ELEVATION

5 0 5 10 FEET

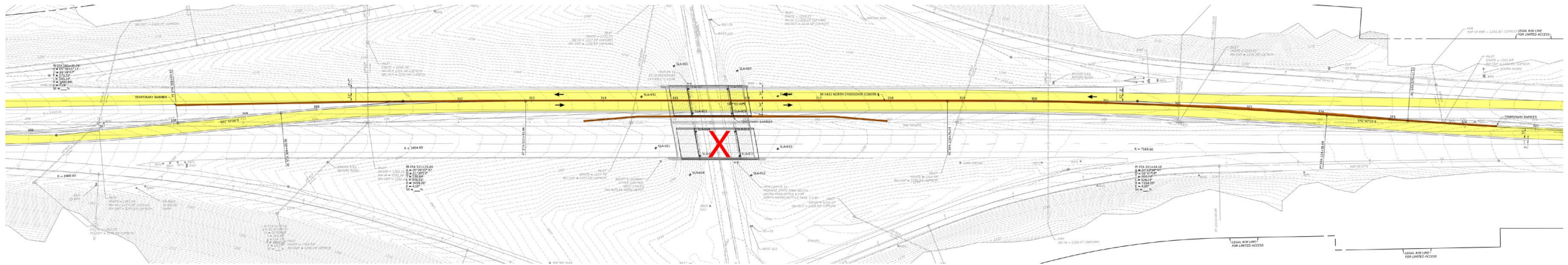
* 16'-6" REQUIRED VERTICAL CLEARANCE
18'-3" PROVIDED (WB)
16'-7" PROVIDED (EB)



BRIDGE TYPICAL SECTION STAGES

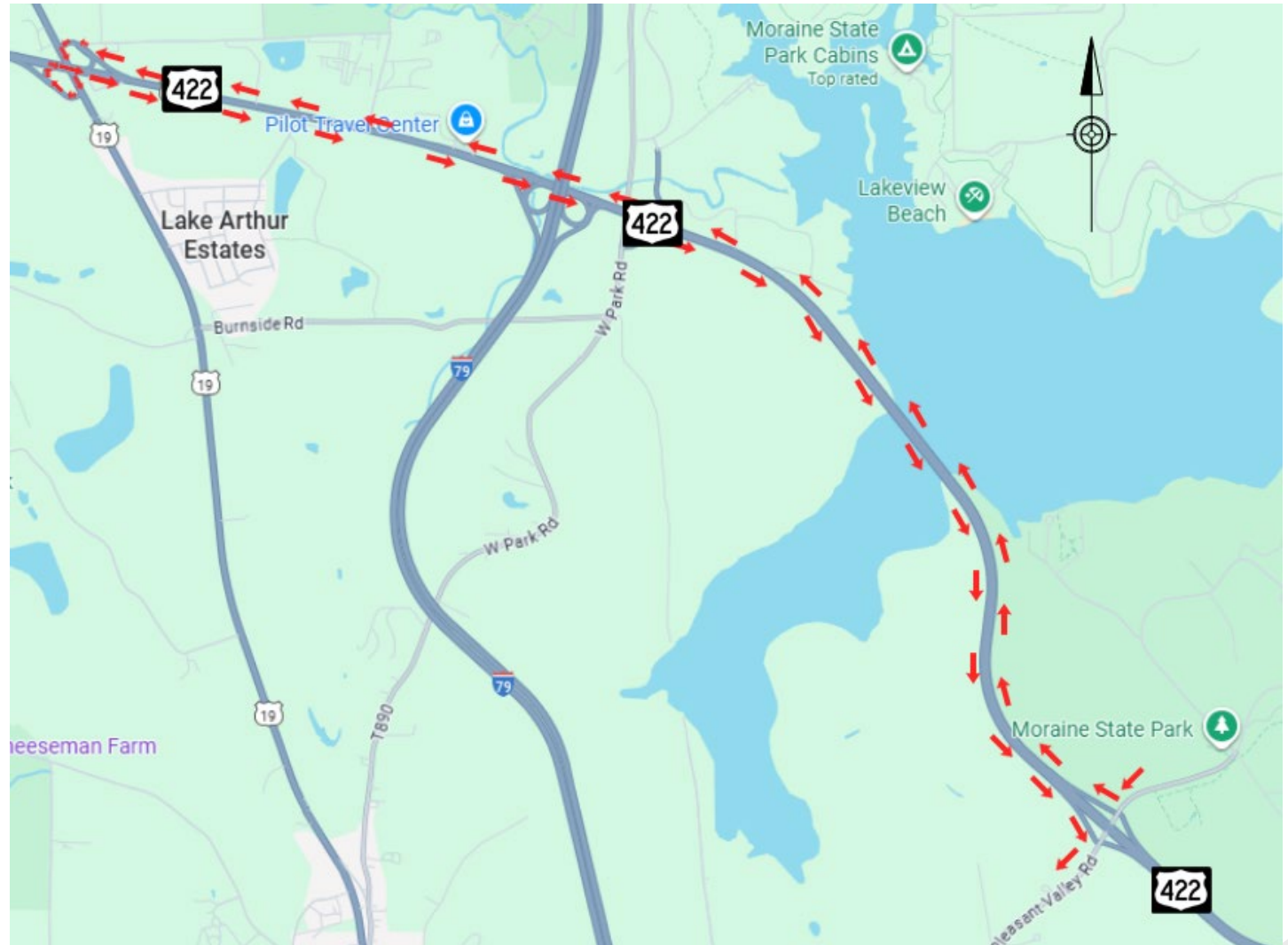


Technical drawing of a road layout, showing a plan view of a road with yellow highlighted widening areas. The drawing includes stationing (e.g., 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467) and various engineering notes and annotations. A red 'X' marks a specific location on the road. The drawing is labeled 'PLAN VIEW' and 'FOR LIMITED ACCESS'.



TEMPORARY DETOUR OF S.R. 4005 SB VIA U.S. 19

- For off-peak hours
 - Bridge Demolition
 - Beam Erection
- Temporary Detour
 - South from the park
 - Take Route 422 West
 - Exit to Route 19 South
 - Exit to Route 422 East
 - To Pleasant Valley Road



TEMPORARY DETOUR OF S.R. 4005 NB VIA S.R. 528

- For off-peak hours
 - Bridge Demolition
 - Beam Erection
- Temporary Detour
 - North to the park
 - Take Route 422 East
 - Exit to Route 528 North
 - Exit to Route 422 West
 - To Moraine State Park



PROJECT SCHEDULE

- Schedule:
 - Preliminary Engineering currently
 - Final Design in 2026
 - Advertisement tentatively end of 2026
 - Construction tentatively in 2027 & 2028



QUESTIONS?

CONTACT PENNDOT PROJECT MANAGER IF YOU HAVE ANY QUESTIONS / CONCERNS.

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