

Virtual Public Plans Display

National Pike Trail Tunnel No. 4 Rehabilitation

Under S.R. 0040

Buffalo Township, Washington County

October 2024

MPMS No. 118319



▶ Project Team

Project Owner

Vincent Ley, PE

Washington County Planning Commission

724-250-4650 | leyv@co.washington.pa.us

Design Team

Cristin Covert, PE – Project Manager

PennDOT - Engineering District 12-0

724-439-7155 | ccovert@pa.gov

Greg Ulisse, PE – Project Manager

Gibson-Thomas Engineering Co., Inc.

724-539-8562 | greg.ulisse@gibson-thomas.com



Project Purpose and Description

- **Project Purpose:**

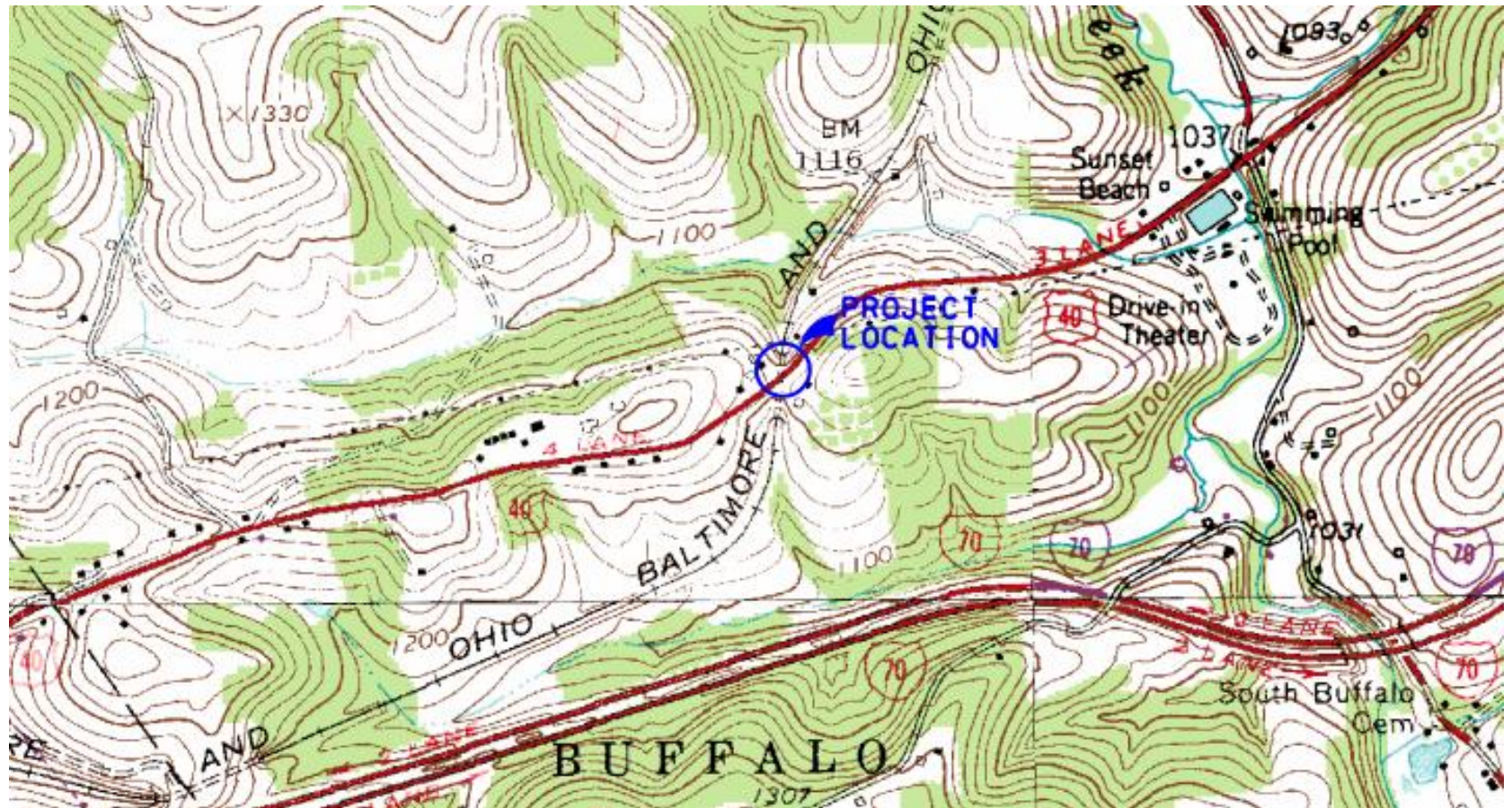
To provide preservative maintenance to a tunnel which will be part of a future extension to the National Pike Trail. This maintenance will extend the useful life of the structure and provide safe trail use. If not addressed, additional deterioration will progress at an exponential rate resulting in increased repair and maintenance costs.

- **Anticipated Schedule:**

The project is currently in Preliminary Engineering. Final Design is expected to begin in Fall 2024. Construction letting is anticipated in the Spring of 2025 with construction beginning in Summer 2025 and completion by Fall 2025.



Location Map



Existing Photographs

Existing Structure



Existing Photographs

Deteriorated Brick



Ceiling Crack



Existing Photographs

Leaking at Mortar Loss



Erosion at Portal



▶ Proposed Project Improvements

Tunnel Rehabilitation Project

Existing Structure: Masonry arch culvert with stone masonry portals and stone masonry walls with a brick ceiling.

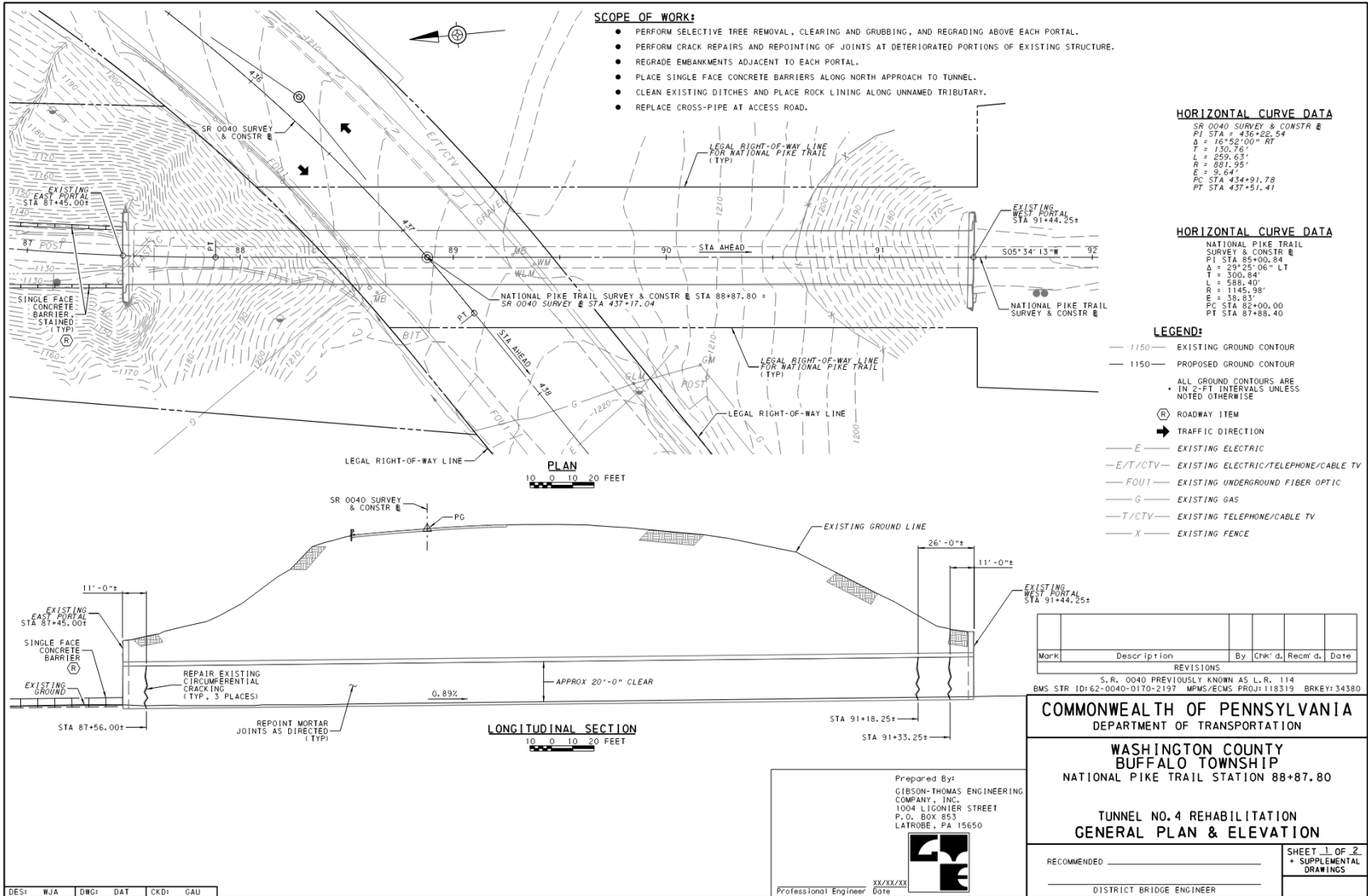
Scope of work includes:

- Perform selective tree removal, clearing and grubbing, and regrading above each portal.
- Perform crack repairs and repointing of joints at deteriorated portions of existing structure.
- Regrade embankments adjacent to each portal.
- Place single face concrete barriers along northern approach to tunnel.
- Clean existing ditches and place rock lining along unnamed tributary.
- Replace cross-pipe at access road.



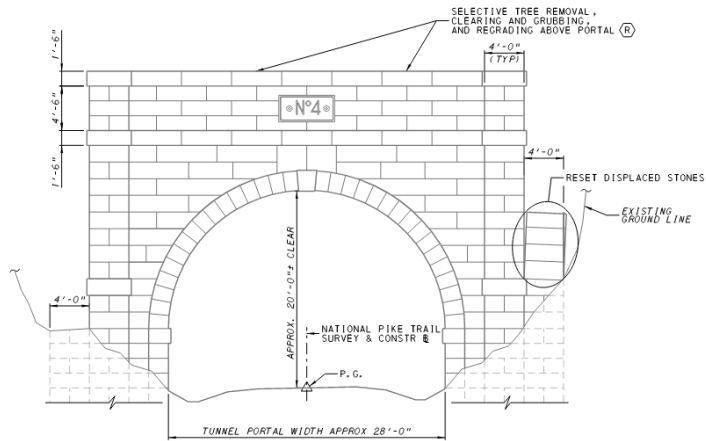
Structure Plans

PLOTED: 9/19/2024

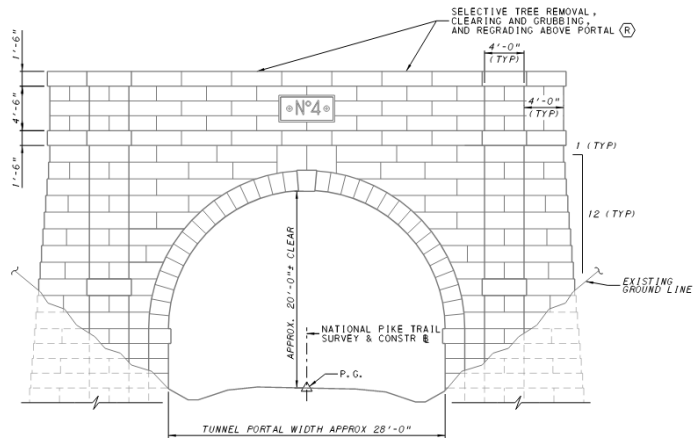


Structure Plans

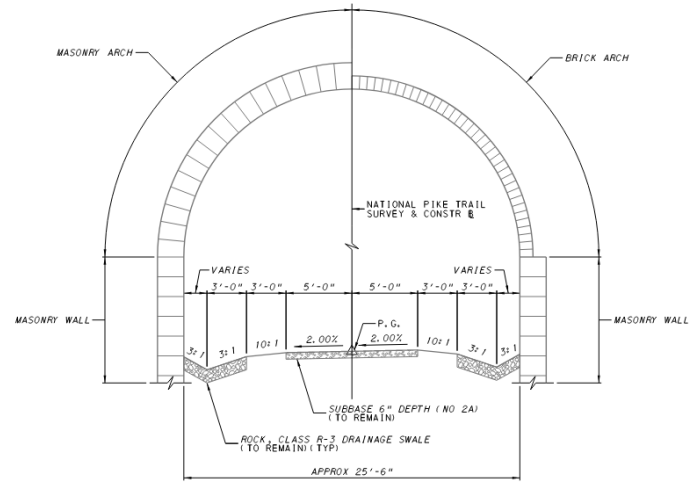
PLOTED: 9/9/2024



EAST PORTAL
(LOOKING STA AHEAD)
2 0 2 4 6 FEET



WEST PORTAL
(LOOKING STA BACK)
2 0 2 4 6 FEET



HALF END SECTION

STA 87+45.00+ TO STA 87+56.00+
STA 91+33.25+ TO STA 91+44.25+
(LOOKING STA AHEAD)

2 0 2 4 FEET

HALF INTERIOR SECTION

STA 87+56.00+ TO STA 91+33.25+
(LOOKING STA AHEAD)

2 0 2 4 FEET

LEGEND:

(R) ROADWAY ITEM

Mark	Description	By	Chk'd	Rec'd	Date
REVISIONS					

S.R. 0040 PREVIOUSLY KNOWN AS L.R. 114
BMS STR 10:62-0040-0170-2197 MPMS/ECMS PROJ: 118319 BRKEY: 34580

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

WASHINGTON COUNTY
BUFFALO TOWNSHIP
NATIONAL PIKE TRAIL STATION 88+87.80

TUNNEL NO. 4 REHABILITATION
PORTAL ELEVATIONS & TYP SECTION

SHEET 2 OF 2