

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE SR 419 (NORTH 3RD STREET) BRIDGE OVER TULPEHOCKEN CREEK WHICH IS LOCATED NEAR WOMELSDORF, PA IN HEIDELBERG AND MARION TOWNSHIPS IN BERKS COUNTY. THE EXISTING BRIDGE IS A 200-FOOT LONG REINFORCED CONCRETE T-BEAM BRIDGE COMPRISED OF FOUR 50-FOOT SPANS AND WAS CONSTRUCTED IN 1926. THE EXISTING ROADWAY CONSISTS OF TWO 11' LANES WITH MINIMAL SHOULDERS. THE SPEED LIMIT IS CURRENTLY 55 MPH AND THE AVERAGE DAILY TRAFFIC IS 4,606 VEHICLES PER DAY WITH A TRUCK PERCENTAGE OF 19%.

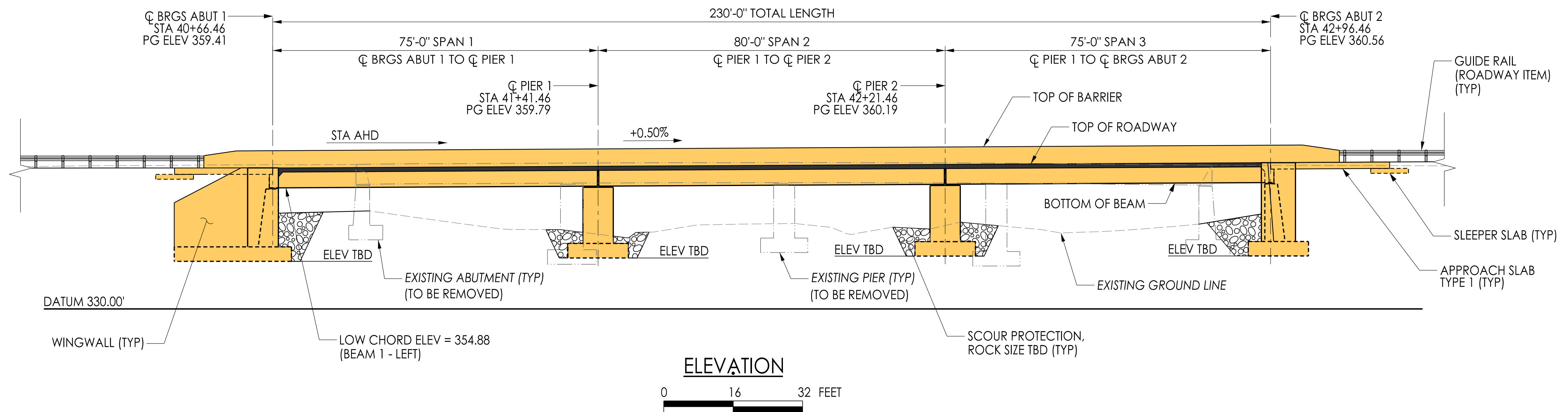
THE PROPOSED TYPICAL SECTION CONSISTS OF TWO 11' LANES AND TWO 8' SHOULDERS. THE PROPOSED STRUCTURE WILL BE A 230-FOOT LONG PRESTRESSED CONCRETE SPREAD BOX BEAM BRIDGE ON FULL DEPTH ABUTMENTS AND PIER WALLS. IT WILL BE COMPRISED OF THREE SPANS WITH LENGTHS OF 75', 80', AND 75' RESPECTIVELY. THE PROPOSED BRIDGE AND ROADWAY WILL BE SHIFTED TO THE WEST OF ITS EXISTING LOCATION BY APPROXIMATELY 27 FEET. THIS WILL ALLOW THE MAJORITY OF THE BRIDGE TO BE BUILT OFFLINE AND TWO LANES OF TRAFFIC MAINTAINED DURING CONSTRUCTION. NO DETOUR WILL BE NEEDED. CONSTRUCTION IS ANTICIPATED TO BEGIN IN FALL 2025 AND WILL TAKE 12-18 MONTHS TO COMPLETE.

PROJECT NEED

BUILT IN 1926, THE EXISTING BRIDGE IS CURRENTLY EXHIBITING VISIBLE DETERIORATION THROUGHOUT THE ENTIRE STRUCTURE. THESE CONDITIONS INDICATE THAT THE BRIDGE IS APPROACHING THE END OF ITS USEFUL EFFECTIVE LIFE. THE BRIDGE ALSO HAS NO SHOULDERS AND IS NARROWER THAN THE APPROACH ROADWAY. THE CURRENT WIDTH OF 23' DOES NOT MEET THE MINIMUM REQUIRED BRIDGE WIDTH CRITERIA. THE NARROW WIDTH POSES AN ADDITIONAL SAFETY HAZARD DUE TO THE HIGH PERCENTAGE OF TRUCKS DRIVING ON THE BRIDGE.

PROJECT PURPOSE

THE PURPOSE OF THIS PROJECT IS TO PROVIDE A STRUCTURALLY, FUNCTIONALLY SUFFICIENT CROSSING OF TULPEHOCKEN CREEK THAT MEETS CURRENT DESIGN STANDARDS AND IS SAFE FOR ALL SURFACE TRANSPORTATION MODES.



5000 Ritter Road, Suite 102
Mechanicsburg, PA 17055

Client/Project
PennDOT Engineering District 5-0
SR 419 Sec 02B - Bridge Replacement

Figure
2 of 4
Title
Project Details & Elevation View

