MD 381 (Brandywine Road) over Timothy Branch

What work is planned for this bridge?

The Maryland State Highway Administration (SHA) will replace the existing battery of four 60” diameter pipes on MD 381 over Timothy Branch in Prince George’s County. The proposed bridge will be a single span bridge 24'-6" long and will provide for two 12' -0" lanes and two 6' shoulders. The main objectives of this project are to replace the pipes and increase the width of the bridge to provide a safer traveled area.

Why is the work necessary?

The existing structure is a battery of four 60 inch diameter corrugated metal pipes placed as a temporary measure in 2011 due to the damage to the existing bridge structure caused by Hurricane Irene and Tropical Storm Lee. The project will replace the temporary structure with a permanent bridge. The replacement structure will provide shoulders for pedestrians and bicyclists.

How will traffic be impacted?

The current proposed method for maintaining traffic involves closing the bridge and detouring traffic. Based on past experience, it is anticipated that a contractor would be able to reopen the roadway to traffic after one summer closure period of 3 months for construction.

Have other alternatives been considered?

SHA considered maintaining traffic on the existing structure by maintaining one alternating lane of traffic with temporary signals. This would require two construction stages. The first construction stage would have narrowed the travel lane and shifted it to one side of the bridge while a portion of the pipes are removed and a portion of the new bridge is built. The second stage would have shifted the travel lane to the newly built portion of the bridge while the remaining portion of the pipes are removed and the new bridge is completed. The complex construction methods and sequencing required for this alternative would have greatly increased construction costs and work time. The detour allows the project to be completed in the shortest amount of time in one construction season while school is on summer recess.

When will work be completed?

SHA will make every effort to complete this project as quickly as possible while minimizing impacts to local residents and motorists. Construction is scheduled to begin in Summer 2017. It is anticipated that construction will be completed by early Fall 2017, weather permitting

SHA State Highway Administration Maryland Department of Transportation

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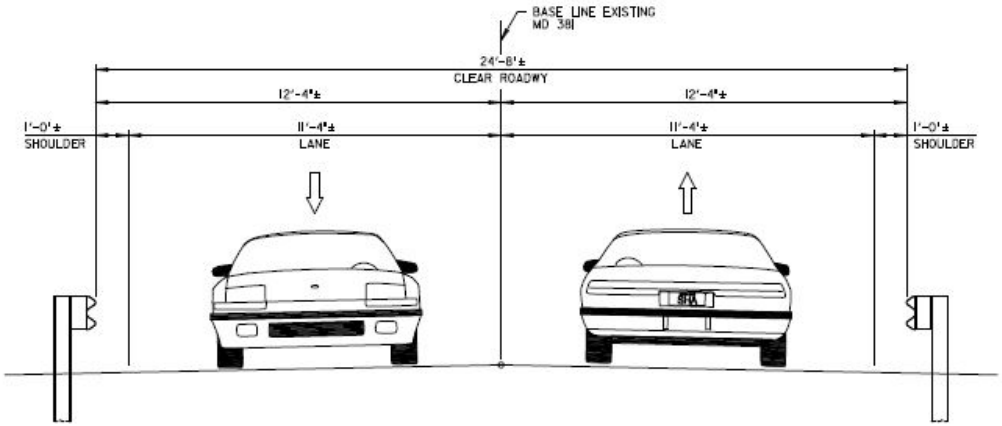
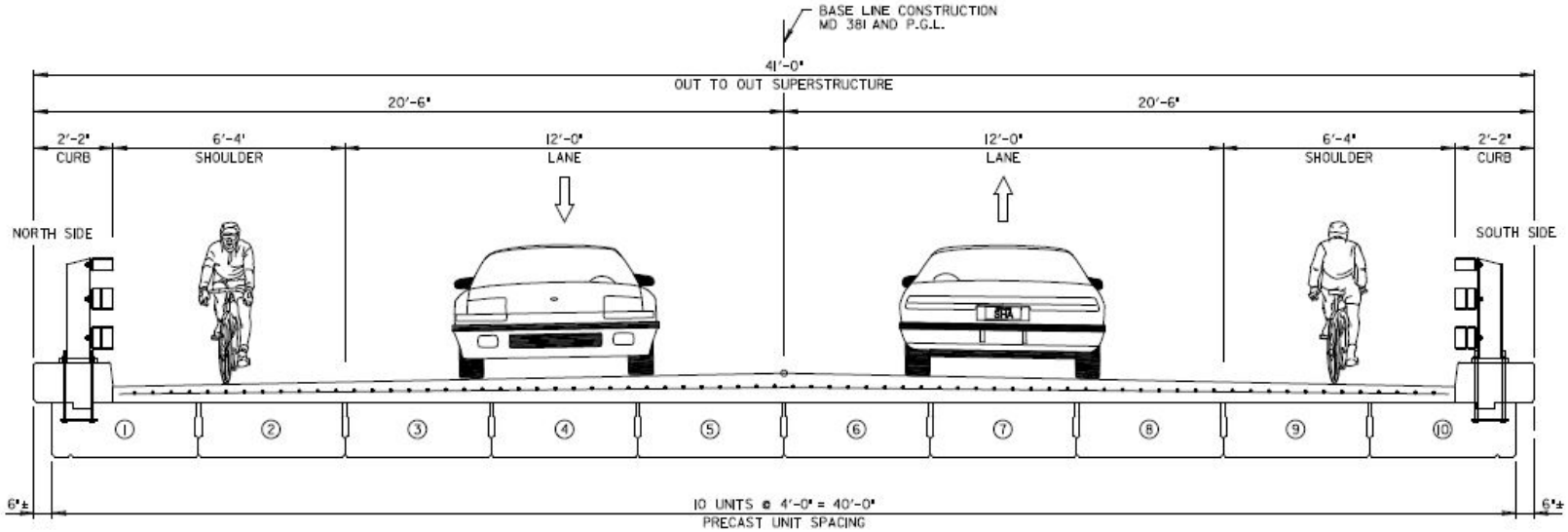
Aerial View

MD 381 (Brandywine Road) over Timothy Branch



Bridge Typical Section - Existing



Bridge Typical Section - Proposed

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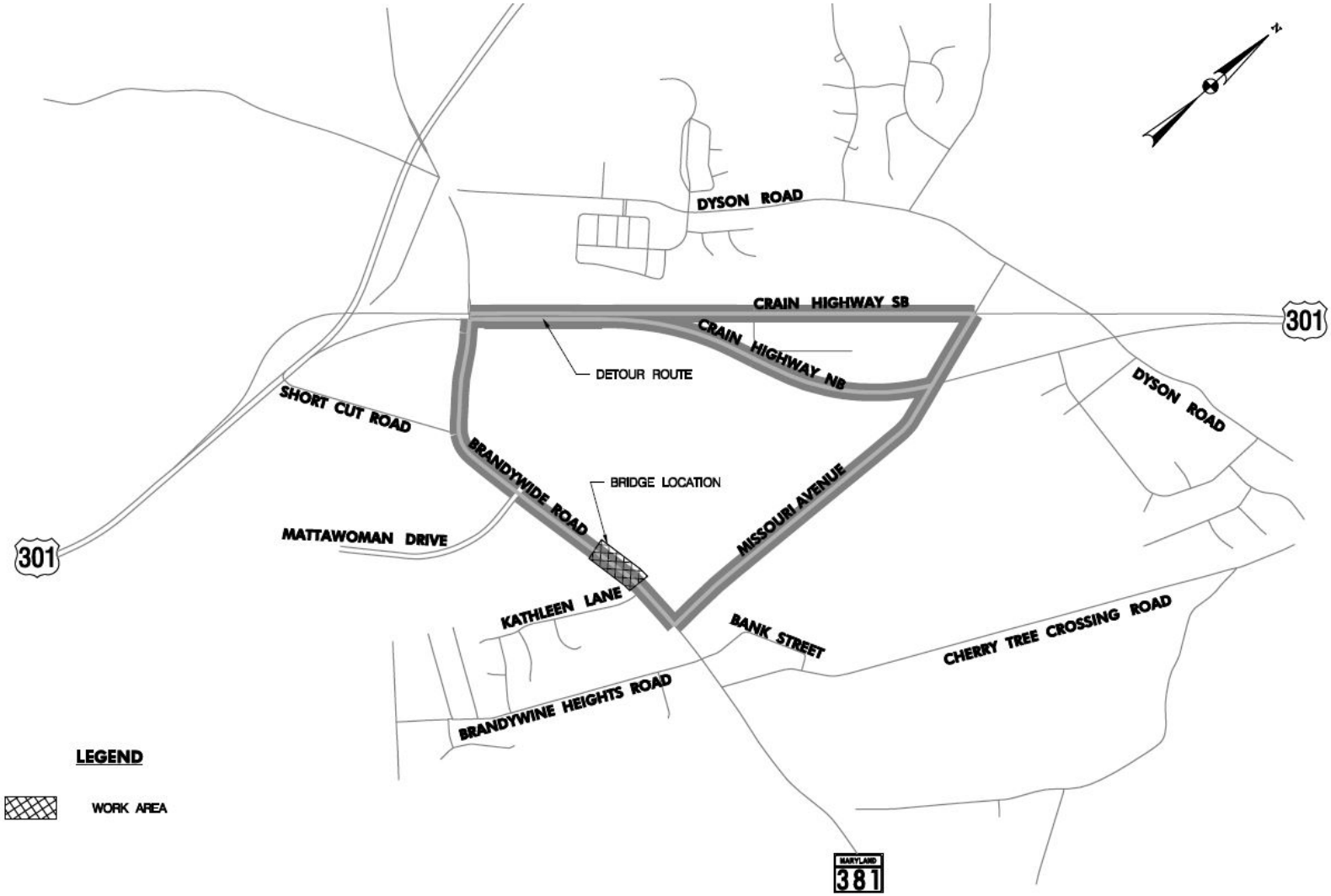
Photos

MD 381 (Brandywine Road) over Timothy Branch



Temporary Traffic Detour