

## Project Description

<b>Project Name:</b>	Pleasant Dale - NW 56 <sup>th</sup> Street		
<b>Project No.:</b>	NH-80-8(103)		
<b>Control No.:</b>	12591		
<b>Initial Draft:</b>	Date: 8/13/2021	Written By: Doug Pillard	

### Updates/Reviews

Date	Update/Review By (name)	Items Updated	Plan Level (PIH, etc.)
9/16/21	Doug Pillard	Beginning and ending locations, additional description of improvement	PIH
10/29/21	Doug Pillard	Include restriping east of NW 56 <sup>th</sup> Street, clarified wording on local road detour	PIH
11/9/21	Doug Pillard	Added descriptions of existing roadway east of NW 56 <sup>th</sup> Street	PIH

### Project Description:

This project is located on I-80 in Lancaster and Seward County. The beginning and ending reference posts (RP) for construction are 387.54 and 395.15, respectively, starting 0.6 miles west of NW 154<sup>th</sup> Street and extending east to the NW 56<sup>th</sup> Street grade separation. Restriping of the existing westbound pavement will extend east to RP 396.59 to provide for continuous three through lanes. Construction may begin and/or end approximately 1500 feet ahead of or beyond the actual project limits to accommodate transitioning the pavement.

The existing roadway on this segment of I-80, within the pavement construction, currently has two 12-foot lanes in each direction with a depressed grass median separating the traffic. The typical median width is 64 feet. The outside shoulders are paved 10-foot wide with a 2-foot turf extension. The inside shoulders are paved 3-foot wide with a 2-foot turf extension.

The existing roadway on this segment of I-80, between NW 56<sup>th</sup> Street and NW 48<sup>th</sup> Street, currently has three 12-foot lanes in the eastbound direction and two 12-foot lanes in the west bound direction. The eastbound outside shoulder is 12-foot wide with a 2-foot turf extension. The westbound outside shoulder is 24-foot wide with a 2-foot turf extension. The lanes are separated by a 28 foot paved median with concrete barrier.

The existing roadway on this segment of I-80, east of NW 48<sup>th</sup> Street, currently has three 12-foot lanes in the eastbound direction and three 12-foot lanes (two through lanes and one extended off ramp) in the west bound direction. The eastbound and westbound outside shoulder is 12-foot wide with a 2-foot turf extension. The lanes are separated by a 28 foot paved median with concrete barrier.

The improvements on this project consist of replacing the pavement and bridges and expanding I-80 to six lanes. The existing lanes will be replaced with new concrete pavement. Two new lanes and a 28 foot paved median with concrete barrier will be constructed within the existing depressed median to create a total of 6-lanes of

## Project Description (*Continued*)

travel, 3 in each direction, separated by a concrete barrier. The project will repair or replace mainline and overhead bridge structures within the project area, extend, modify or construct new culverts, remove and replace guardrail, and reconstruct the Highway 103/NW 154<sup>th</sup> Street interchange and modernize the ramp lengths to accommodate the improvement. There will also be restriping of the existing westbound pavement east of NW 56<sup>th</sup> Street.

Grading will be required for the entire length of the project.

The bridge over I-80 at the N-103 interchange (Structure Number S080 38814) will be repaired. The need for a grade raise will be determined at PIH. Guardrail will be replaced.

The bridges conveying NW 126<sup>th</sup> Street (Structure Number S080 39012), NW 112<sup>th</sup> Street (Structure Number S080 39112), NW 98<sup>th</sup> Street (Structure Number S080 39213) and NW 84<sup>th</sup> Street (Structure Number S080 39312) will be replaced with new bridges. The need for a grade raise will be determined at PIH. Guardrail will be replaced.

The bridges over the South Branch of Middle Creek (Structure Number S080 39165 L&R) and Middle Creek (Structure Number S080 39294 L&R) will be replaced with new bridges. The need for a grade raise will be determined at PIH. Guardrail will be replaced.

This project will be constructed under traffic with lane closures controlled with approved temporary traffic control devices and practices. Bridge replacements on County roads will be completed with a signed local detour providing an alternate route.

Additional property rights are not anticipated to be required to build this project.

Access to adjacent properties will be maintained during construction but may be limited at times due to phasing requirements.