

## Executive Summary

### Overview

The Municipality of Anchorage Project Management and Engineering (MOA PM&E) has contracted with CRW Engineering Group, LLC to provide professional services to upgrade 64th Avenue from Laurel Street to Norm Drive to current MOA standards. Upgrades include curb and gutter, lighting, drainage improvements, and pedestrian facilities.

Some of the design challenges associated with the project include:

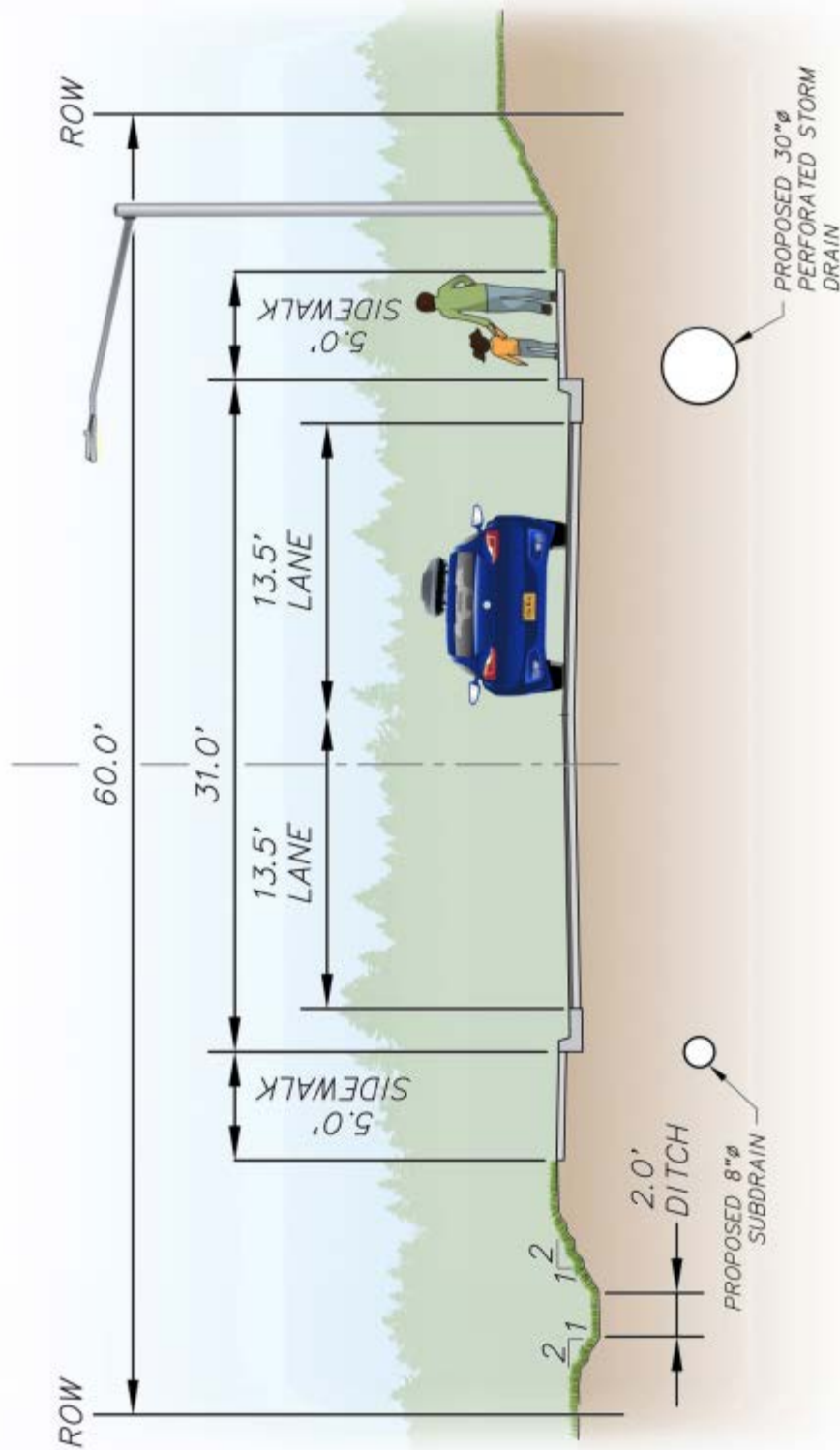
- Existing roadway grade is less than 0.5 percent at multiple locations
- Side street grades are very flat, as low as 0 percent. There are known drainage issues along 64th Avenue and several side streets.
- In order to install the storm drain pipe below the roadway insulation, the pipe must be designed at minimum grade.
- The outfall into LCC is only 1.8 feet below the sedimentation basin.
- Re-grading the outlet channel from the sedimentation basin to LCC requires both flood hazard and fish habitat permits.

### Recommended Alternative

Project development followed the MOA Context Sensitive Solutions (CSS) process and involved agency, business, and public stakeholders. This process resulted in a recommended alternative that best addresses the project goals.

The recommended alternative, Alternative B2, was selected based on the need to achieve sufficient cover over the storm drain pipe, providing adequate roadway grades, and provide adequate storm drain outfall elevations while minimize impacts and ponding along adjacent properties. Features of the preferred alternative include:

- Raising the roadway profile between 2 and 18 inches
- Re-grading the existing sedimentation basin outlet channel to 0.3 percent
- Lowering the sedimentation basin water level by approximately 1 foot and removing the existing sedimentation buildup
- Installing a new 30-inch storm drain main
- Constructing drainage ditches behind the sidewalks as needed to alleviate ponding between the roadway and adjacent properties (see figure)



Typical section west of Newt Drive