

Appendix B: Typical 3-Way Intersection and North Douglas Highway Upgrades for Juneau North Douglas Crossing

The following graphic shows a typical 3-way intersection for North Douglas Highway that would accommodate existing and near-term traffic volumes related to the North Douglas Crossing project. The intersection would be accommodated within the existing typical 100-foot ROW for North Douglas Highway and within an average single lot width on the highway. The existing North Douglas Highway pavement is approximately 34 feet wide. To accommodate the typical intersection shown, the North Douglas Highway east of the intersection would be widened by 12 feet for a 440-foot long right turn lane onto the crossing, with a 250-foot long tapered lane. South of the intersection, the highway would be widened by 12 feet for a 480-foot long left turn lane onto the crossing, with a 180-foot long taper into the turn lane and a 180-foot long taper back to the driving lane. Installation of pedestrian/bike lane would require an additional six to ten feet of pavement. As traffic volume on the North Douglas Highway increases in the future, the intersection would be analyzed to determine if upgrades or design changes are required.

