

Costco Wholesale Outlet Traffic Studies and Signal Designs

Various Locations

Owner: Costco Wholesale Corporation

Description: INCA Engineers, Inc., a Tetra Tech Company (INCA) prepared traffic analyses and completed plans, specifications, and estimates meeting Federal Aid requirements for the construction of traffic signals and intersection improvements to comply with ADA requirements. Work included the preparation of the base map; design for construction of curb, gutter, and sidewalk with ADA improvements at the intersection; and accommodated improvements for future projects. INCA met two major goals of the project, which were to provide the proposed improvements within the existing right-of-way and to reduce added impervious surface to reduce costs. INCA provided information for the completion of the Biological Assessment and provided project inspection during construction for these projects:

Costco Xalapa, Xalapa, Mexico. INCA reviewed development plans for the proposed Costco Commercial "Las animas" in relation to the impacts on the proposed Costco Wholesale Outlet across the highway. INCA developed traffic data that was used to evaluate the traffic impacts of the alternatives; and prepared a conceptual alternative plan for an at-grade signalized access intersection in front of Costco, which provided an acceptable service level for traffic. INCA prepared a preliminary signalization plan; reviewed developer slip ramp/frontage road proposal, and reviewed local agency comments to the intersection design.

Costco Wholesale Outlet, Burlington, WA. INCA performed a traffic impact study, channelization plans for approval, signal permits, a preliminary signal plan, and signal and traffic control plans, specifications, and estimates (PS&E) for the new Costco Warehouse in Burlington, Washington.

Costco Warehouse Outlet, Puyallup, WA. INCA performed a traffic impact study, which included preliminary analysis, intersection turning movement counts, site reconnaissance, accident analysis, existing intersection level of service analysis, trip generation and origin-destination analysis, future traffic conditions, future level of service analysis, traffic impact evaluation, and safety evaluation.

Costco Warehouse Outlet, Seattle, WA. INCA reviewed the existing conditions and preliminary plans for the revisions to parking access for the existing Warehouse on 4th Avenue South and provided suggestions for alternative solutions for improvement of the existing conditions. INCA provided manual traffic turning movement counts to determine the volume of traffic for traffic entering and exiting the Costco site.

Costco Wholesale Outlet, Tacoma, WA. For the relocation and expansion of Costco's Tacoma Warehouse, INCA performed a fact finding and fatal flaw analysis for the new location. INCA provided design and produced construction documents for a new traffic signal system for an intersection for two alignments and provided on-call engineering aid to determine roadway and driveway geometrics along the Costco frontage. INCA provided a preliminary civil engineering design for the warehouse relocation, which included zoning and permit requirement review; preparation of site development analysis; preparation of preliminary grading, storm drainage, and utility plans; and preparation of preliminary site development cost estimate and summary letter for the proposed project.

