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**William E. Popp, P.E.**  
**Principal**

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**EDUCATION**

BSCE, 1961, Texas A & M University

Federal Highway Administration Certificate in Urban Transportation Planning, Washington, D.C., 1971

**PROFESSIONAL AFFILIATIONS**

Registered Professional Engineer in State of Washington and Oregon

Member American Society of Civil Engineers

Member Institute of Transportation Engineers and past member of National Committee on Travel Model Factors

**EXPERIENCE**

Since beginning the firm of William Popp Associates in 1976, Mr. Popp's experience has included direction and hands-on experience with practically every major aspect of transportation planning and engineering with the majority of his practice focused on the three mainland counties of the Puget Sound Region. His experience includes the following: transportation plan development for cities and counties including land use forecasts, travel demand modeling and system analysis, policy formulation and cost/revenue analysis; traffic impact analyses for hundreds of developments for both public and public sector; preliminary freeway interchange design and location; corridor design studies, urban street design; street and freeway system capacity analysis; traffic signal and street lighting design; traffic calming and pedestrian/bike facility design; HOV roadway facility system analysis and design; parking studies for major facilities; light rail conceptual alignment engineering, system analysis, and cost estimating.

From 1969 to 1976, Mr. Popp was senior engineer, deputy director and acting director of the Transportation Planning Division of the Puget Sound Council of Governments. In these positions, he was either directly or indirectly involved in all of the major transportation studies and projects in the four county region. Project experience was multi-modal including: management of the "Seattle Metropolitan Area Transit Plan" study which enabled METRO to become the transit operator in King County; technical director of the major system plan update entitled "1990 Transportation System Plan for the Central Puget Sound Region"; and numerous traffic demand and system analysis studies of critical sub-regional problems.

From 1961 to 1969, Mr. Popp was employed by one of the nation's pioneer transportation planning and engineering firms (Vogt, Ivers and Associates) with key role assignments in numerous area-wide traffic and transportation studies in the Southwest from 1961-1966 and in

the Seattle area from 1966-1969. In the Seattle area his major projects included a major transportation plan for the Green River Valley and Soos Creek Plateau; and all traffic related aspects of a major route location study of SR 522 from I-5 to I-405; and route design studies for SR 167 and SR 18 in the Green River Valley. In addition, his experience includes road and storm drainage design; route surveying; and contract plans for buildings, roads and utilities on military installations.

## **REPRESENTATIVE PROJECTS:**

In all of these engagements William E. Popp acted as principal-in-charge, project manager and /or project engineer.

### *Redmond Projects*

- NE 100th Street Extension Reconnaissance Study, Avondale Road to Education Hill, Redmond, Washington. Conducted a feasibility study to construct NE 100th Street from Avondale Road to Education Hill. The study focused on the identification and evaluation of route alternatives with considerations given to residential impacts, traffic patterns, topographic constraints, wetland issues and estimated costs.
- SR 901 Extension, Route Reconnaissance Study, SR 520 to Northeast 85th Street, Redmond, WA. Study addressed two route alternatives with structure crossings of SR 908 and Burlington Northern Railroad. Study included traffic forecasts, operation analysis, horizontal and vertical alignment, quantities, and cost estimates. Project has been recently constructed in the recommended configuration.
- Maingate/CBD Circulation Plan Analysis, 1981, Redmond, Washington. Prepared circulation plan and program for the downtown and adjacent areas of Redmond incorporating addition of a major regional shopping center in the analysis. Work included cooperative development of land use forecasts to 1990 for the greater Redmond planning area, a travel demand forecast model with digitized output capabilities, modal split estimates, alternative plan testing and recommendations for updating the current circulation plan. Analysis also included capital cost estimates and capital improvement program and presentations.
- Maingate Shopping Center Travel Demand Analysis, Redmond, Washington. Updated Redmond planning area traffic forecast model to reflect Puget Sound Council of Governments and local agency growth estimates; refined growth estimates and model constructs; prepared model forecasts for year 1986 and 1990 for four alternative regional shopping center locations and alternative highway system plans.
- Education Hill and Willow Hill Neighborhood Subarea Travel Demand and Plan Development Analysis, City of Redmond, Washington. Project included updating 1990 travel demand model to year 2000 with zone system refinement for the greater Redmond planning area (40 square miles), alternative system analyses and recommendations for the two subareas.
- Emerald Heights, Redmond WA. 201 single family plus 308 retirement center units in an existing residential environment. Alternative access routes and residential traffic control solutions were recommended.
- Lookout Ridge EIS (63 single family units); Traffic Impact Analysis & Roadway Feasibility Analysis; Redmond, Washington

- Eddie Bauer Data Communications Bldg, Traffic Impact Analysis for 15,000 SF office building; Redmond, Washington
- Eastside Medical Lab/Wescan Bldg/Quadrant, Traffic Impact Analysis for 85,000 SF Lab/Warehouse/ Office building; Redmond, Washington
- Old Mill Point/Weber's Ridge/Chrysalis Estates, King County, WA. Analysis of impacts of a cumulative 119 lot three abutting subdivisions in Sahalee area of King County. Because of controversy created by abutting residents, alternative route corridor analyses and extensive neighborhood impact issues were investigated and residential traffic control solutions suggested/ recommended.

### *Bellevue Projects*

- Interdisciplinary team and citizen advisory committee member for SR 520 Access Study in Bellevue, WA.
- NE 8th St/I-405 CBD Access Alternatives analysis presenting a package of lower cost options for improving east-west access to the Bellevue CBD and reducing delay at gateway intersections.
- Circulation Element of Crossroads and South Bellevue Sub-area Plans - Bellevue, WA (first Bellevue subarea study).
- I-90 Bellevue Business Park transportation impact analysis of Bellevue Airfield 164-acre business park conversion (first major Bellevue TIA).
- NE 4th St/I-405 CBD Access Study. Resulted in legislative action leading to interchange implementation. Study included traffic forecasts, preliminary interchange design, cost estimates and operational analysis of major modifications to I-405.
- Intersection designs, signal plans, specifications, cost estimates for four high-volume intersections on I-90 frontage road at I-90/Bellevue Business Park, Bellevue, WA.
- NE 8th Street median implementation including signalization and channelization plans, specifications, and cost estimates plus public information program in Bellevue's CBD
- Old Main Street preliminary design and community coordination for successful urban design treatment and reconstruction, Bellevue, WA.
- Bellevue Way Southeast plans, specifications, cost estimates for 1.5 mile major arterial improvement including bicycle lanes, walkways, landscaping, illumination, and signalization of four intersections.
- Transportation and Air Quality Impact Analysis of alternative land use plans in the I-405 freeway corridor in Bellevue, WA
- Factoria Square Expansion, traffic study.
- Loehmann's Plaza site access analysis.
- Bellevue 8th/10th Access Value Engineering.
- High Park / Glacier Ridge (Lakemont / Montreaux) traffic element of the EIS.

### *Other Projects*

- Veterans Memorial Hospital site parking and circulation analysis supporting major garage plan, Seattle, Washington.
- North Renton Boeing /Paccar Subarea Study and Subarea system needs and fee structure. Project included development of finely detailed travel demand forecast model for four land use scenarios, system analysis for each land use alternative and numerous network

alternatives, cost estimates, and impact fee structure for large heavy industrial and residential area of City of Renton, WA.

- 2100-Acre planned community traffic impact analysis – first application of sub-regional traffic forecast model in the Puget Sound Region - Harbour Pointe, Snohomish County, WA.
- Traffic forecast models and design volumes for: Steilacoom - Orchard corridor study in Pierce County; Longacres Parkway design in Renton; Redmond Town Center study; Redmond Area Transportation Study; and SR 527 (Mill Creek) Design Report.
- Kent Valley Transportation Plan including traffic forecast model and EIS - Kent, WA.
- Over 600 Transportation Impact Analyses for single-family subdivisions, multi-family residential, commercial and office projects in King, Pierce and Snohomish Counties
- Public Transit-School Bus Consolidation Study in Everett, WA, subconsultant
- High Occupancy Vehicle Facility Strategy Study for the 6-mile corridor of South 180th Street-Southwest 43rd Street-Carr Road-Petrovitsky Road in South King County, WA
- Spokane Transit Feasibility Study. Refined ridership forecasts for four alternative service scenarios, Spokane WA.

## **REPRESENTATIVE PROJECTS while at PSCOG**

- Seattle Metropolitan Area Transit Plan - manager of consultant team.
- Regional Transit Plan - manager of consultant team.
- 1990 Transportation System Plan for the Central Puget Sound Region; technical director
- I-90 Impact Analysis Report; technical director
- 1975-1980 Transit Development Program for Central Puget Sound Region; Project Engineer
- Snohomish County Transportation Study - manager of consultant team
- Update of entire PCSOG battery of transportation forecasting models; technical director
- 1974 and 1976 National Transportation Studies for Central Puget Sound Region; author/analyst
- Transportation Improvement Programs and Transportation Systems Management Plans for Central Puget Sound Region; Project Engineer
- Numerous traffic demand and system analysis projects including Bay Freeway, I-90 No-Build, and Seattle Center Stadium analyses; Project Engineer and/or manager of consultants

## **PROJECT REFERENCES:**

### ***City of Burlington GMA based Transportation Element of Comprehensive Plan***

Chal Martin Public Works Director, City of Burlington Annex Building, 901 E. Fairhaven Ave, Burlington, WA 98233, (360) 755-9715

### ***Veterans Memorial Hospital Parking Analysis, Seattle Washington.***

Robert Shurell, AIA, LEED AP, Project Manager, Stantec, 405 Howard Street 5th Floor, San Francisco CA 94105, (415) 946-6694.

### ***Old Mill Point/Weber's Ridge/Chrysalis Estates, King County, WA***

Paulette Norman Acting County Road Engineer, King County Department of Transportation, 2nd Floor, 201 S Jackson St, Seattle, WA 98104-3856, (206) 296-6596

***I-5/George Hopper Rd Interchange Design Study***, Burlington WA .  
Todd Carlson, Planning & Operations Mgr, WSDOT, NW Region Transportation Planning  
(360) 757-5980