



Education

*Master of Science
Civil Engineering
University of Wyoming (1986)*

*Bachelor of Science
Civil Engineering
University of Wyoming (1984)*

Professional Registration

*Professional Engineer in
Colorado, Wyoming, Iowa
Professional Traffic Operations
Engineer – Institute of
Transportation Engineers*

Experience

Total – 34 years

Time with STS – 10 years

Professional Associations

*Institute of Transportation
Engineers
(Member, Colorado/Wyoming
Section Past President)*

*University of Wyoming
Department of Civil and
Architectural Engineering
Advisory Board
(Past Chair)*

*Wyoming Engineering Society
(Member)*

Joe's Clients Say It Best

"Joe Henderson has superior technical capabilities in the areas of traffic signal design, traffic operations, and construction management. In addition, he adheres to challenging budget and schedule requirements. I would recommend Joe to anyone seeking an experienced and reliable traffic engineer."

*Joliette Woodson, PE
Transportation Engineer
City of Lafayette*

Sustainable Traffic Solutions, Inc.

Joseph L. Henderson PE, PTOE
Traffic Engineer / Principal

Joe has over 34 years of experience in the design, planning, and operation of transportation facilities throughout Colorado and Wyoming for motorists, pedestrians, and cyclists. His design experience includes intersections, traffic control devices, traffic signal systems, work zone traffic control, and construction phasing. Many of these projects were CDOT Local Agency projects following state and federal guidelines. Joe has performed planning studies for developments, corridor access control, corridor studies, and subarea plans. He also has performed railroad quiet zone studies. His operations experience includes traffic signal timing, maintenance of traffic control devices, and crash studies. Joe has a unique knowledge of the Manual on Uniform Traffic Control Devices having been a technical committee member of the National Committee on Uniform Traffic Control Devices for many years.

Traffic Impact Studies

Joe has been performing traffic impact studies for over 34 years throughout Colorado and Wyoming for developments of all sizes. He is well respected by municipal and DOT staff members for his ability to perform thorough and accurate analysis. His reports are well written and clearly document the impacts of the development. Joe has extensive experience representing his clients at planning commission and city council meetings. The following examples demonstrate his experience with traffic impact study preparation for commercial and residential developments.

Mixed Use

- Hurley Place – RiNo Area of Denver
- Denver Rock Drill – RiNo Area of Denver
- Coal Creek Station Mixed Use Development – Louisville

Residential

- Vantage Point Apartments – Parker
- Thomas Heights Residential Development – Cheyenne
- Denver Connection Residential Development – Denver
- Pomponio Terrace Residential Development – Adams County

Retail

- Fast Food Restaurants – Several in CO and WY
- Gillette Town Center Commercial Development – Gillette
- Poledna Addition – Laramie
- Trona Valley Credit Union – Rock Springs

Gasoline Stations and Truck Stops

- Gasoline Station with Convenience Store – Several in CO & WY
- Truck Stop – Cheyenne, Casper, Rock Springs, Ellsworth, IA

Specialty

- Quarry – Weld County, El Paso County, Laramie County
- Ground Based Solar Facility – El Paso County, Pueblo County
- RTD Iliff Station Parking Structure – Aurora
- Marijuana Dispensary – Adams County

"Joe Henderson has a wealth of experience with municipal traffic engineering issues and challenges. He uses sound engineering judgement to provide the best possible solutions to the City of Northglenn. I would recommend Joe Henderson to any municipal agency or firm that is seeking reliable traffic engineering expertise combined with exceptional customer service."

Kent Kisselman, PE
Director of Public Works
City of Northglenn

"Joe has demonstrated continually that he is an exceptional project manager with the leadership skills to deliver a great result on challenging, multi-faceted projects within the budget and on schedule. I would highly recommend Joe Henderson to any agency looking for a responsive professional to provide quality transportation services and solutions."

Derek Schuler, PE, PTOE
Former
Traffic/Transportation
Engineer
Jefferson County

"I would recommend Joe Henderson to any public agency or private firm that seeks a traffic engineer with unsurpassed traffic engineering knowledge and expertise along with exceptional customer service."

Joseph P. Olson, PE
City Traffic Engineer
City of Fort Collins



Traffic Signal Design

With over 34 years of experience designing, operating, and maintaining traffic signals, Joe gained his traffic signal knowledge through hands-on experience working as a city traffic engineer, working for a signal contractor, through equipment sales, and as a consultant. Joe has designed 161 traffic signals and managed the construction of 55 of the signals that he has designed. He has experience with mast arm signals, span wire signals, and modular poles. Many of the projects included modifications to curb & gutter, sidewalks, and curb ramps.

Intersection Study and Design Projects

Mr. Henderson has designed and managed intersection study and design projects for local agencies as well as CDOT. The projects have involved capacity analysis to compare alternatives, accident study, utility clearance, intersection design, signal design, and accommodation of pedestrians and bicycles based on ADA guidelines, AASHTO, and the MUTCD. The following examples demonstrate his experience in this type of project.

- 22nd Street / Willet Drive Intersection Improvement Study – Laramie
- Pershing Boulevard / T-Bird Drive – Cheyenne
- Lowell Boulevard from Midway Blvd to 136th Ave – Broomfield
- SH 42 / Short Street – Louisville
- SH 42 / Paschal Drive – Louisville
- 27th Avenue / Southern Street - Brighton
- 88th Avenue / York Street - Thornton
- 1st Avenue / Sheridan Boulevard Design - Broomfield
- SH 60 / Telep Avenue Intersection Design – Johnstown
- US 287 at 29th Street and 37th Street HES Design – Loveland
- US 34 Bypass / 11th Avenue HES Design – Greeley

Corridor and Subarea Study Projects

The corridor studies conducted by Joe involved the evaluation of traffic flows for a variety of access and traffic signal configurations. Results have included the ultimate laneage, ROW, traffic control, and access. Subarea studies have taken the results of transportation master planning studies and focused on the impacts of the development of a portion of a community. The following examples demonstrate his experience in this type of project.

- Whitney Road Corridor Study – Cheyenne
- Bowles Avenue Traffic Study – Jefferson County
- Bill Nye Corridor Study – Laramie
- College Drive Corridor Study – Rock Springs
- Fox Farm Road Corridor Study – Cheyenne / Laramie County
- SH 42 Corridor Evaluation – Louisville
- SH 119 Access Control Plan – Longmont
- Bromley Lane Master Plan Design – Brighton
- Union Avenue and Dayton Street Corridor Study and Design – Greenwood Village
- West Central and South Poplar Street Corridor Urban Renewal Planning Study – Casper
- Southeast Casper Transportation Plan – Casper

Street Lighting Design

Joe has designed street lighting on arterials, bridges, freeway interchanges, and in a snow shed. His work has involved the selection of poles and fixtures, design to meet agency standards, plan preparation, and construction administration. Projects representative of his experience include the following examples.

- College Drive and Stagecoach Drive Corridors – Rock Springs
- Jordan Road and Broncos Parkway Corridors – Arapahoe County / Dove Valley Metro District
- Wolf Creek Pass Snow Shed Lighting Design – Wolf Creek Pass
- Meridian International Business Park – Douglas County
- Yosemite Street Lighting – Greenwood Village
- I-70 Interchange Lighting Designs, CDOT Region 1

Prior Experience

- Senior Professional Engineer / Principal, Short Elliott Hendrickson (1998-2009)
- Traffic Engineer, WL Contractors (1995-1998)
- Traffic Engineer, Western Signal (1994-1995)
- Transportation Specialist, Center for Transportation Education and Research, Iowa State University (1992-1994)
- City Traffic Engineer, City of Casper, Wyoming (1987-1992)
- Transportation Engineer, Centennial Engineering (1986-1987)

Joe Henderson - Commercial Resume
April 2, 2020

