

# JAMES S. CASHA

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207 North Street ▪ P.O. Box 308  
Norwich, ON N0J 1P0  
(519) 863-2949 ▪ (540) 717-9240 cell  
[jim.casha@gmail.com](mailto:jim.casha@gmail.com)

## PROFESSIONAL PROFILE

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- 30 years experience in tunnel and heavy underground construction as Quality Control Inspector, Inspector, Project/Field Engineer and Survey/Layout
- Experienced in Wastewater Plant upgrades and equipment installation, start-up and functional testing
- Compressed Air, Earth Pressure Balance (EPB), Hard Rock Tunnel Boring Machine (TBM) & Drill and Blast tunneling experience
- Experienced with Leica TCA 1800 & Topcon total stations, HUSKY data collector, Amberg Profiler, ZED TBM guidance systems, TDS survey software

## EDUCATION/CERTIFICATES

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<b>Concrete Field Testing Technician – Grade 1</b> American Concrete Institute (ACI)	2009
<b>Operator-In-Training (OIT) Certification</b> Ontario Ministry of Environment Water & Wastewater Supply & Treatment	2005
<b>Grouting Fundamentals &amp; Current Practices</b> Colorado School of Mines	2004
<b>Bachelor Science Degree in Civil Engineering</b> University of Detroit	1983

## WORK HISTORY

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### Inspector

Southeast Collector Tunnels (SEC) August, 2011 – Dec, 2011  
Hatch Mott MacDonald (HMM), Markham, ON, Canada.  
▪ Left position to start a social enterprise to build homes for the homeless.

### Tunnel Inspector

Seymour –Capilano Twin Water Tunnels July, 2010 – August, 2011  
Hatch Mott MacDonald (HMM), North Vancouver, B.C., Canada  
▪ Conducted on site tunnel inspections of hard rock TBM excavation and Drill & Blast construction

### Quality Control Engineer

Dulles Metrorail Extension July – October 2009  
Gall Zeidler Consultants/Dulles Transit Partners, Tysons Corner, VA  
▪ Conducted shotcrete field testing and onsite portable shotcrete batch plant inspections and aggregate testing  
▪ Performed shotcrete reinforcement inspections and insitu shotcrete early strength testing  
▪ Coordinated insitu core and beam test specimens between field and lab  
▪ Prepared inspection procedures

## WORK HISTORY *continued*

### **Office Engineer/Civil Inspector**

2005 – March 2009

Dulles Airport-Automated People Mover Project

Delon Hampton/Parsons Management Consultants (PMC), Chantilly, VA

- Processed submittals, requests for information, change notices
- Excavation, rebar/concrete and waterproofing inspections for large underground station and cut/cover tunnels

### **Construction Inspector**

2003 – 2005

Detroit Wastewater Treatment Plant Rehabilitation & Upgrade

Tucker, Young, Jackson, Tull Inc., Detroit, MI

- Conducted construction/safety inspections for major plant upgrades
- Included centrifuge and sludge feed pump installations, belt filter press renovations

### **Tunnel Inspector/Sr. Field Engineer**

2000 – 2003

Detroit River Outfall – 2 Tunnel (DRO-2)

Tucker, Young, Jackson & Tull, Inc./Applied Science Inc., Detroit, MI

- Inspected 300 ft. Caisson/Drill and Blast Shaft and 21 ft. TBM, segment lined tunnel
- Monitored and compiled detailed grouting reports for the extensive grouting required to control water and hydrogen sulphide gas infiltration
- Monitored deep well installation

### **Chief Tunnel Surveyor**

1997 – 1999

Toronto Regional Transit (TTC) Expansion Program Sheppard Subway Twin Tunnels

McNally-PCL-Foundation, JV, Toronto, ON

- Supervised a five man survey crew for alignment control of 8km of 5.2m EPBM concrete segment lined tunnel using ZED Guidance System
- All tunnel mined within 75 mm tolerance
- Developed alignment control system to set 360 m/shift of curb form to 6mm +/- accuracy
- Completed detailed as-built survey using Amberg Profiler

### **Field Engineer/Tunnel Surveyor**

1995 – 1997

Southfield Sewer Replacement Section and Repairs

Fort Worth Sewer Upgrades

Dearborn Combined Sewer Overflow (CSO) Relief Project

Jay-Dee Contractors Inc., Kajima, JV, Detroit, MI

3700 lf of TBM mined 10ft ID cast-in-place tunnel

- Installed and monitored geotechnical instruments
- 6800 lf of 11 ft TBM mined in soft rock with installation of precast pipe liner
- Provided layout and field engineering for shafts and geotechnical instrumentation
- Supervised concrete form erection for 50 ft. sinking caisson using PERI tieless forms

### **Self-Employed**

1985 – 1995

Mine and Tunnel Supply, St. Clair Shores, MI

- Bought and sold used mining and tunneling equipment including TBMs
- Provided contract tunnel survey services with emphasis on TBM guidance around curves

*Alma Wheeler Smith*  
*5540 Five Mile Road*  
*South Lyon, Michigan 48178*  
*313-407-6039 ☞ AlmdWSmith@gmail.com*

January 10, 2014

The Honorable Yousef Rabhi  
Chair, Washtenaw County Board of Commissioners  
220 N. Main Street  
P.O. Box 8645  
Ann Arbor, MI 48107

Dear Chairman Rabhi,

I am applying for Washtenaw County's vacant position on the Regional Transportation Authority Board. I have been a lifelong resident of the county and an elector since age 21 – the legal voting age in the 60's.

Washtenaw County and the Regional Board already have the benefit of Elizabeth Gerber's expertise on regionalism and intergovernmental cooperation, transportation policy and land use and economic development. It would be my pleasure to have the opportunity to bring my policy making and political negotiating skills to bear on the RTA process and complete a very strong team for Washtenaw County on the RTA board.

As you know, I was elected from this County to full terms in both chambers of the Michigan Legislature but my legislative service was ended each time by the state's Constitutional lifetime term limits provision. In both the Senate and House, I served on the powerful Appropriations Committee and many of its critical subcommittees. I was the first African American to represent Washtenaw County in the state Senate, and in 2001, I became the first to run for governor on Michigan's Democratic ticket.

My legislative colleagues considered me a smart and strategic legislator. This reputation was built through 24 years of hands-on experience with issues and process from my local school board and county commission seats through my 14 years of successful bipartisan legislative work on issues and procedures. My constituents viewed me as a woman with rock-solid values backed by intelligence and wit that represented them conscientiously and effectively.

I am a straight talker whose honest look at government defies the current partisan culture, historical entanglements and the status quo. I was consistently recognized on both sides of the aisle as one of the most knowledgeable and effective leaders in Lansing and my work has earned numerous awards from health, social, legal and human services organizations. I would welcome the opportunity to once again serve Washtenaw County, this time on the Regional Transportation Board and appreciate your consideration.

Sincerely,



*Alma Wheeler Smith*  
*5540 Five Mile Road*  
*South Lyon, Michigan 48178*  
*313-407-6039 ☞ AlmaWSmith@gmail.com*

## **EDUCATION**

**University of Michigan**  
*BA, Journalism*

**Ann Arbor, Michigan**  
*May 1966*

## **ELECTED SERVICE**

**State of Michigan**  
*State Representative, 54<sup>th</sup> District*

**Lansing, Michigan**  
*January 2005 – December 2010*

Service on the House Appropriations Committee, subcommittees for Higher Education, Human Services, Community Health and Corrections.

**State of Michigan**  
*State Senator, 18<sup>th</sup> District*

**Lansing, Michigan**  
*January 1995 – December 2002*

Service as ranking member of the Senate Appropriations Committee, subcommittees for Higher Education, Community Health, Mental Health, Natural Resources/Environmental Quality and Corrections; several bipartisan task forces, the bipartisan legislative redistricting committee and two bipartisan Senate impeachment investigative committees.

**Washtenaw County**  
*County Commissioner*

**Ann Arbor, Michigan**  
*January 1993 – December 1994*

**South Lyon Community Schools**  
*Board of Trustees Member*

**South Lyon, Michigan**  
*June 1984 – December 1992*

## **COMMUNITY LEADERSHIP**

SOS Crisis Center	Board Member	2011 – Present
University Bank	Board President	2011 – Present
Michigan Campaign Finance Network	Board Member	2011 – Present
Michigan Legislative Retirement System	Board Member	2011 – Present
University Bank	Board Member	2003 – 2004
Democratic Legislative Campaign Commission	Vice-Chair	1997 – 2002
Office of Senator Lana Pollack	Legislative Director	1987 – 1994
Ann Arbor Cable Casting Commission	Charter Member	1972 – 1978
University of Michigan Television Center	Senior Producer	1967 – 1978