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engineering and environmental consultants

Bassett Creek WMO  
7800 Golden Valley Road  
Golden Valley, MN 55427

Page # 1  
Invoice # 23270051-2015-5  
Project # 23/27-0051  
Client # 59  
July 2, 2015

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
May 30, 2015 through June 26, 2015

**ENGINEERING**

TECHNICAL SERVICES

Communications with administrator; follow-up communications with Corps of Engineers staff and internal meetings regarding potential Corps of Engineers' assistance programs for the BCWMC's XP-SWMM model update; June 4 conference call to MDNR staff regarding MDNR Flood Damage Reduction funding options for XP-SWMM model update; follow-up call to MDNR staff regarding FDR funding opportunity resulting for special session legislation; communications with and information to administrator regarding potential additional 2016 budget items—CIP maintenance and inspection, habitat monitoring program, and commission education ideas; review financial report for CIP charges and communications with administrator regarding apparent in the CIP charges; provide BCWMC logo to website developer; and provide information to administrator regarding North Branch stream restoration project in Crystal.

Leonard J. Kremer, Principal Engineer/Scientist	
1.7 hours @ \$185.00 per hour.....	\$ 314.50
Karen L. Chandler, Consultant/Advisor	
15.0 hours @ \$160.00 per hour.....	\$ 2,400.00
Technicians/Administrative .....	\$ 19.50
<i>Subtotal, Technical Services</i> .....	\$ 2,734.00

MONTHLY MEETING PREPARATION

Communications/coordination with administrator regarding draft/final agenda and meeting packet for June 2015 meeting; review/edit draft May meeting minutes; prepare for June Commission meeting, including setting up and attending pre-meeting conference call with Chair de Lambert and administrator to review meeting agenda; prepare memo for June Commission meeting regarding funding/assistance options for XP-SWMM Phase II model; provide grant tracking information to administrator; and communications with internal staff, administrator, and Chair de Lambert regarding follow-up tasks from June Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 9.0 hours @ \$175.00 per hour.....	\$ 1,575.00
Karen L. Chandler, Consultant/Advisor 28.4 hours @ \$160.00 per hour.....	\$ 4,544.00
Technicians/Administrative .....	\$ 392.00
Expenses (Webex).....	\$ 14.96
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$ 6,525.96</i>

WETLAND ISSUES

Look into WCA LGU requirements in response to City of Crystal request for BCWMC to take on WCA LGU role, including reviewing BCWMC Plan, and internal communications regarding intent of BCWMC Plan policy and potential WCA administration responsibilities; and communications with administrator.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$175.00 per hour.....	\$ 175.00
Karen L. Chandler, Consultant/Advisor 1.5 hours @ \$160.00 per hour.....	\$ 240.00
Karen S. Wold, Engineer/Scientist/Specialist II 1.0 hours @ \$115.00 per hour.....	\$ 115.00
<i>Subtotal, Wetland Issues.....</i>	<i>\$ 530.00</i>

PROPERTY FLOODPLAIN REVIEW

Communications with consultant regarding removal of home in floodplain from FEMA flood insurance requirements; and refer consultant to the city.

James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$175.00 per hour.....	\$ 122.50
<i>Subtotal, Property Floodplain Review .....</i>	<i>\$ 122.50</i>

TAC PREPARATION

Prepare for June 25 TAC meeting.

Karen L. Chandler, Consultant/Advisor 1.2 hours @ \$160.00 per hour.....	\$ 192.00
<i>Subtotal, TAC Preparation .....</i>	<i>\$ 192.00</i>

ENVISION ANALYSIS – NORTHWOOD LAKE STORMWATER IMPROVEMENTS PROJECT

Prepare Northwood Lake project Envision results for June Commission meeting, and communications with administrator.

Erin Anderson Wenz, Consultant/Advisor 4.8 hours @ \$155.00 per hour.....	\$ 744.00
<i>Subtotal, Envision Analysis-Northwood Project.....</i>	<i>\$ 744.00</i>
<i>Subtotal Technical Services.....</i>	<i>\$ 10,848.46</i>

PLAT REVIEW

Plymouth City Flats (2014-24)

Review changes to project and discuss with applicant; prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 2.2 hours @ \$175.00 per hour.....	\$ 385.00
Candice M. Kantor, Engineer/Scientist/Specialist II 1.2 hours @ \$95.00 per hour .....	\$ <u>114.00</u>
<i>Subtotal, Plymouth City Flats</i> .....	\$ 499.00

Plymouth Point Business Center (2015-10)

Review revised grading, drainage, and erosion control plans for project; prepare and send approval letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer Scientist 2.8 hours @ \$175.00 per hour.....	\$ 490.00
Candice M. Kantor, Engineer/Scientist/Specialist II 4.0 hours @ \$95.00 per hour .....	\$ <u>380.00</u>
<i>Subtotal, Plymouth Point Business Center</i> .....	\$ 870.00

26<sup>th</sup> Avenue Development-Minneapolis (2015-11)

Communications with applicant.

James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour.....	\$ <u>175.00</u>
<i>Subtotal, 26th Avenue Development-Mpls</i> .....	\$ 175.00

Sandburg Athletic Field Improvements (2015-12)

Review grading, drainage, and erosion control plans for project; coordinate with Golden Valley staff; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 1.5 hours @ \$175.00 per hour.....	\$ 262.50
Candice M. Kantor, Engineer/Scientist/Specialist II 2.6 hours @ \$95.00 per hour .....	\$ <u>247.00</u>
<i>Subtotal, Sandburg Athletic Field Improvements</i> .....	\$ 509.50

Solutran Headquarters (2015-13)

Review grading, drainage, and erosion control plans for project; communications with developer's consultant; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist 2.8 hours @ \$175.00 per hour.....	\$ 490.00
Karen L. Chandler, Consultant/Advisor 0.1 hours @ \$160.00 per hour.....	\$ 16.00

Candice M. Kantor, Engineer/Scientist/Specialist II  
5.8 hours @ \$95.00 per hour .....\$ 551.00  
*Subtotal, Solutran Headquarters .....\$ 1,057.00*

Plymouth Ice Center/Life Time Parking Lot (2015-14)

Review grading, drainage, and erosion control plans for project; prepare review memo for June Commission meeting; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer Scientist  
2.2 hours @ \$175.00 per hour.....\$ 385.00  
Karen L. Chandler, Consultant/Advisor  
0.9 hours @ \$160.00 per hour.....\$ 144.00  
Candice M. Kantor, Engineer/Scientist/Specialist II  
6.9 hours @ \$95.00 per hour .....\$ 655.50  
*Subtotal, Plymouth Ice Ctr/Life Time Parking Lot .....\$ 1,184.50*

King of Grace Lutheran Church Site (2015-15)

Plat review set up and preliminary review.

James P. Herbert, Principal Engineer Scientist  
0.8 hours @ \$175.00 per hour.....\$ 140.00  
Technicians/Administrative .....\$ 42.50  
*Subtotal, King of Grace Lutheran Church Site.....\$ 182.50*

Mini-Hops Gymnastics (2015-16)

Plat review set up and preliminary review.

James P. Herbert, Principal Engineer Scientist  
0.7 hours @ \$175.00 per hour.....\$ 122.50  
Technicians/Administrative .....\$ 42.50  
*Subtotal, Mini Hops Gymnastics.....\$ 165.00*

Jet 55 Corporate Center (2015-17)

Plat review set up and preliminary review.

James P. Herbert, Principal Engineer Scientist  
0.5 hours @ \$175.00 per hour.....\$ 87.50  
Technicians/Administrative .....\$ 42.50  
*Subtotal, Jet 55 Corporate Center .....\$ 130.00*

Liberty Crossing Development (2015-18)

Plat review set up and preliminary review.

James P. Herbert, Principal Engineer Scientist  
0.5 hours @ \$175.00 per hour.....\$ 87.50

Technicians/Administrative .....	\$	42.50
<i>Subtotal, Liberty Crossing Development</i> .....	\$	130.00
<b><i>Subtotal Plat Review</i></b> .....	\$	<b>4,902.50</b>

NON-FEE REVIEWS AND PRELIMINARY COMMUNICATIONS

PRELIMINARY COMMUNICATIONS

Communications and coordination with property owner's consultant and city's consultant regarding proposed solar array installation in City of Medicine Lake; communications with developer's consultant regarding Golden Valley development (per city direction); discuss Tennant property development with Golden Valley staff and applicant; and communications with Commissioner Carlson regarding development submittal procedures.

James P. Herbert, Principal Engineer/Scientist 3.2 hours @ \$175.00 per hour.....	\$	560.00
Karen L. Chandler, Consultant/Advisor 0.7 hours @ \$160.00 per hour.....	\$	112.00
Candice M. Kantor, Engineer/Scientist/Specialist II 0.8 hours @ \$95.00 per hour .....	\$	76.00
<i>Subtotal, Plat Review – Preliminary Communications</i> .....	\$	748.00

NON-FEE REVIEWS

SW LRT

Brief review of EIS to determine whether BCWMC should provide comments, communications with administrator, and email to Metropolitan Council regarding draft EIS.

James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour.....	\$	175.00
Karen L. Chandler, Consultant/Advisor 0.2 hours @ \$160.00 per hour.....	\$	32.00
<i>Subtotal, SW LRT</i> .....	\$	207.00

BLUE LINE LRT/BOTTINEAU TRANSITWAY

Prepare for June 29 wetland delineation field review, including communications with Crystal, Golden Valley, Minneapolis and Robbinsdale city staff, communications with Blue Line LRT wetland consultant regarding scheduling of meeting, preliminary information and requesting wetland delineation documentation, and reviewing/marketing up preliminary maps for use in field and to identify number of wetlands in BCWMC; review and edit draft letter from cities requesting BCWMC WCA administration assistance (per administrator request); prepare estimates of costs for BCWMC WCA administration, BCWMC project review and other BCWMC costs for administrator's use in negotiations with Blue Line LRT (Met Council) staff; and communications with administrator.

James P. Herbert, Principal Engineer Scientist 0.5 hours @ \$175.00 per hour.....	\$	87.50
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Karen L. Chandler, Consultant/Advisor 17.4 hours @ \$160.00 per hour.....	\$ 2,784.00
Karen S. Wold, Engineer/Scientist/Specialist II 3.9 hours @ \$115.00 per hour.....	\$ 448.50
<i>Subtotal, Blue Line LRT/Bottineau Transitway .....</i>	<i>\$ 3,320.00</i>
<b><i>Subtotal Non-Fee Reviews .....</i></b>	<b><i>\$ 3,527.00</i></b>
<b><i>Subtotal Non-Fee Review and Preliminary Communication .....</i></b>	<b><i>\$ 4,275.00</i></b>

COMMISSION AND TAC MEETINGS

Attend June 18 Commission meeting and June 25 TAC meeting.

Karen L. Chandler, Consultant/Advisor 5.8 hours @ \$160.00 per hour .....	\$ 928.00
<i>Subtotal, Commission and TAC Meetings .....</i>	<i>\$ 928.00</i>

SURVEYS & STUDIES

FLOOD CONTROL PROJECT REHAB AND RESPONSIBILITIES

Internal meetings regarding flood control project, Corps of Engineers' datum requirements, and Corps of Engineers' potential funding for flood control project failures; and coordination with Corps of Engineers' staff regarding flood control project.

Leonard J. Kremer, Principal Engineer/Scientist 0.7 hours @ \$185.00 per hour.....	\$ 129.50
James P. Herbert, Principal Engineer Scientist 1.0 hours @ \$175.00 per hour.....	\$ 175.00
Karen L. Chandler, Consultant/Advisor 2.5 hours @ \$160.00 per hour .....	\$ 400.00
<i>Subtotal, Flood Contract Proj Rehab &amp; Responsibilities.....</i>	<i>\$ 704.50</i>
<b><i>Subtotal, Surveys &amp; Studies.....</i></b>	<b><i>\$ 704.50</i></b>

WATER QUALITY/MONITORING

Communications with administrator regarding water quality reporting options; coordinate with Commission's consultant regarding water quality website needs; coordinate with HDR regarding water quality website needs; review bacteria TMDL implementation plan; attend June 16 bacteria TMDL implementation plan stakeholder meeting and follow-up with administrator; prepare for and attend June 25 TAC meeting regarding bacteria TMDL implementation plan, including creation of maps and coordination with administrator; Westwood Lake Monitoring: prepare for and conduct June 17 water quality monitoring; communications with PACE laboratory regarding low level total dissolved phosphorus analyses; communications with and send information/data to aquatic plant survey subconsultant; communicating with Matt Berg regarding Westwood Lake plant surveys; Stream Biotic Index Monitoring: create GIS figures showing monitoring locations, and organization and management of project GIS data.

Henry M. Runke, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour.....	\$ 87.50
Karen L. Chandler, Consultant/Advisor 0.6 hours @ \$160.00 per hour.....	\$ 96.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 15.5 hours @ \$150.00 per hour.....	\$ 2,325.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.5 hours @ \$125.00 per hour.....	\$ 62.50
Brent A. Lindstrom, Engineer/Scientist/Specialist III 6.0 hours @ \$125.00 per hour.....	\$ 750.00
Sterling G. Williams, Engineer/Scientist/Specialist III 1.5 hours @ \$125.00 per hour.....	\$ 187.50
Joshua R. Vosejka, Engineer/Scientist/Specialist I 4.0 hours @ \$75.00 per hour.....	\$ 300.00
Kelly A. Wild, Engineer/Scientist/Specialist I 0.5 hours @ \$85.00 per hour.....	\$ 42.50
Technicians/Administrative .....	\$ 414.00
Expenses (Mileage/2WD vehicle/GPS/flow meter) .....	\$ 139.36
<i>Subtotal, Water Quality/Monitoring.....</i>	<i>\$ 4,404.36</i>

**WATER QUANTITY**

Measure and review lake level elevations as part of the lake-gauging program.

Technicians/Administrative .....	\$ 720.00
Expenses (Mileage/2WD vehicle).....	\$ 109.80
<i>Subtotal, Water Quantity.....</i>	<i>\$ 829.80</i>

**TOTAL ENGINEERING .....\$ 26,892.62**

<b>SECRETARIAL SERVICES</b>
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**SECRETARIAL SERVICES EXPENSES**

Expenses for copies and postage.

Expenses (Copies).....	\$ 5.00
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**TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 5.00**

**PLANNING**

NEXT GENERATION PLAN

Produce and distribute 90-day draft plan.

Sterling G. Williams, Engineer/Scientist/Specialist III 1.5 hours @ \$125.00 per hour.....	\$	187.50
Technicians/Administrative .....	\$	6.00
Expenses (Postage).....	\$	<u>5.95</u>
<i>Subtotal, Next Generation Plan</i> .....	\$	199.45
<b>TOTAL PLANNING (Next Generation Plan)</b> .....	\$	<b>199.45</b>

**PLANNING (Funded through Flood Control Project Long-term Maintenance Funds)**

**TOTAL PLANNING (Maintenance Funds).....\$ 0.00**

**ANNUAL REPORT**

**TOTAL ANNUAL REPORT.....\$ 0.00**

**PUBLIC COMMUNICATIONS**

**TOTAL PUBLIC COMMUNICATIONS .....\$ 0.00**

**WEBSITE**

**TOTAL WEBSITE.....\$ 0.00**

**WATERSHED OUTLET MONITORING PROGRAM (WOMP)**

**TOTAL WOMP.....\$ 0.00**

**CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)**

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM

BWSR grant activities: look into next reimbursement request, and internal meeting regarding grant status and financial reporting for 2015.

Karen L. Chandler, Consultant/Advisor 0.6 hours @ \$160.00 per hour.....	\$	96.00
Amy R. Anderson, Engineer/Scientist/Specialist I 2.5 hours @ \$90.00 per hour .....	\$	<u>225.00</u>
<i>Subtotal, Cedar Lake Road to Golden Valley Road</i> .....	\$	321.00



**MAIN STEM: 10<sup>TH</sup> AVENUE-DULUTH STREET (2015CR)**

Review revised 90% plan submittal; internal discussion and communications with Golden Valley staff regarding comments on revised 90% plans; prepare review memo for June Commission meeting; and prepare and send letter to Golden Valley staff regarding 90% plan review/approval.

Karen L. Chandler, Consultant/Advisor 5.2 hours @ \$160.00 per hour.....	\$ 832.00
Peter J. Hinck, Engineer/Scientist/Specialist II 4.4 hours @ \$120.00 per hour.....	\$ 528.00
<i>Subtotal, Main Stem: 10<sup>th</sup> Ave – Duluth Street .....</i>	<i>\$ 1,360.00</i>

**NORTHWOOD LAKE STORMWATER QUALITY IMPROVEMENTS PROJECTS (2016) (NL-1)**

Set up and attend June 8 conference call/meeting with administrator and city of New Hope staff regarding project; review administrator’s memo for June Commission meeting (per administrator’s request); and communications/coordination with administrator regarding information needs for June commission meeting.

Karen L. Chandler, Consultant/Advisor 5.0 hours @ \$160.00 per hour.....	\$ 800.00
<i>Subtotal, Northwood Lake Improvement Projects.....</i>	<i>\$ 800.00</i>

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 2,481.00**

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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**TOTAL CAPITAL IMPROVEMENT PROJECTS  
 (Maintenance Funds) .....\$ 0.00**

<b>TMDL WORK</b>
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**TMDL IMPLEMENTATION REPORTING**

P8 Model Update: follow-up with city’s consultant regarding Kilmer Creek P8 modeling.

Gregory J. Wilson, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour.....	\$ 150.00
<i>Subtotal, TMDL Studies.....</i>	<i>\$ 150.00</i>

**TOTAL TMDL STUDIES .....\$ 150.00**

<b>XP-SWMM PHASE II</b>
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**XP-SWMM PHASE II**

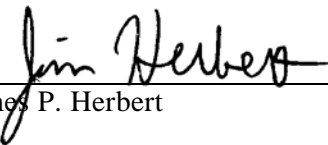
Follow up with TRPD regarding monitoring; identify locations on North Branch with individual pipe crossings; setup and bench test flow monitoring equipment for North Branch monitoring site; site visit to locate monitoring station; program datalogger; and install monitoring station at Douglas Drive.

Jennifer A. Koehler, Engineer/Scientist/Specialist II 3.2 hours @ \$120.00 per hour.....	\$ 384.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 27.3 hours @ \$115.00 per hour.....	\$ 3,139.50
Expenses (Mileage/2WD vehicle).....	\$ 104.90
<i>Subtotal, XP-SWMM Phase II.....</i>	<i>\$ 3,628.40</i>
<b>TOTAL XP-SWMM PHASE II.....</b>	<b>\$ 3,628.40</b>

<b>SUMMARY TOTALS</b>
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<b>Total Engineering.....</b>	<b>\$ 26,892.62</b>
<b>Total Secretarial Services Expenses.....</b>	<b>\$ 5.00</b>
<b>Total Planning (Next Generation Plan) .....</b>	<b>\$ 199.45</b>
<b>Total Planning (Maintenance Funds) .....</b>	<b>\$ 0.00</b>
<b>Total Annual Report/Website/Public Communications .....</b>	<b>\$ 0.00</b>
<b>Total WOMP .....</b>	<b>\$ 0.00</b>
<b>Total Capital Improvement Projects (Tax Levy) .....</b>	<b>\$ 2,481.00</b>
<b>Total Capital Improvement Projects (Maintenance Funds).....</b>	<b>\$ 0.00</b>
<b>Total TMDL Work .....</b>	<b>\$ 150.00</b>
<b>Total XP-SWMM Phase II .....</b>	<b>\$ 3,628.40</b>
<b>TOTAL PAYABLE .....</b>	<b>\$ 33,356.47</b>

Barr declares under the penalties of law that this account, claim or demand is just and that no part of it has been paid.

  
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 James P. Herbert